

Cover Page

Order ID : Q1415

Project ID : Amtrak Sawtooth Bridges 2025

Client : Portal Partners Tri-Venture

Lab Sample Number

Q1415-01
Q1415-02
Q1415-03
Q1415-04
Q1415-05
Q1415-06

Client Sample Number

B-163-SB01
B-172-SB01
B-163-SB02
B-172-SB02
FB02222025
B-173-GW01

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 3/1/2025

CASE NARRATIVE

Portal Partners Tri-Venture

Project Name: Amtrak Sawtooth Bridges 2025

Project # N/A

Chemtech Project # Q1415

Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:

4 Solid samples were received on 02/24/2025.

2 Water samples were received on 02/24/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: EPH, EPH, Hexavalent Chromium, Mercury, Metals ICP-TAL, METALS-TAL, PCB, SVOC-TCL BNA -20, Trivalent Chromium, VOC-TCLVOA-10 and VOC-TCLVOA-10. This data package contains results for SVOC-TCL BNA -20.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The analysis of SVOC-TCL BNA -20 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q1421-02MS} with File ID: BF141762.D recoveries met the requirements for all compounds except for 3-Nitroaniline[54%], 4-Chloroaniline[35%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The MSD {Q1421-03MSD} with File ID: BF141763.D recoveries met the acceptable requirements except for 3-Nitroaniline[50%], 4-Chloroaniline[39%] and Di-n-octyl phthalate[133%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The RPD met criteria.

The Blank Spike for {PB166853BS} with File ID: BF141777.D met requirements for all samples except for 3,3-Dichlorobenzidine[65%], 3-Nitroaniline[54%] and 4-Chloroaniline[44%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike for {PB166875BS} with File ID: BF141781.D met requirements for all samples except for 3,3-Dichlorobenzidine[63%], 3-Nitroaniline[47%] and 4-Chloroaniline[36%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank Spike Duplicate for {PB166875BSD} with File ID: BF141782.D met requirements for all samples except for 3,3-Dichlorobenzidine[66%], 3-Nitroaniline [51%] and 4-Chloroaniline[37%], these compounds did not meet the NJDKQP criteria but met the in-house criteria .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID BF141755.D met the requirements except for Benzo(g,h,i)perylene,Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate, Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Continuous Calibration File ID BF141775.D met the requirements except for Bis(2-ethylhexyl)phthalate and Di-n-octyl phthalate, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Sample # FB02222025 was received with limited volume.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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Phone: 908 789 8900 Fax: 908 789 8922

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1415

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAYUR DESAI

Date: 03/01/2025

LAB CHRONICLE

OrderID:	Q1415	OrderDate:	2/24/2025 10:32:00 AM
Client:	Portal Partners Tri-Venture	Project:	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	Location:	N31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1415-01	B-163-SB01	SOIL	SVOC-TCL BNA -20	8270E	02/22/25	02/25/25	02/25/25	02/24/25
Q1415-02	B-172-SB01	SOIL	SVOC-TCL BNA -20	8270E	02/22/25	02/25/25	02/25/25	02/24/25
Q1415-03	B-163-SB02	SOIL	SVOC-TCL BNA -20	8270E	02/22/25	02/25/25	02/25/25	02/24/25
Q1415-04	B-172-SB02	SOIL	SVOC-TCL BNA -20	8270E	02/22/25	02/25/25	02/25/25	02/24/25
Q1415-05	FB02222025	Water	SVOC-TCL BNA -20	8270E	02/22/25	02/26/25	02/26/25	02/24/25
Q1415-06	B-173-GW01	Water	SVOC-TCL BNA -20	8270E	02/22/25	02/26/25	02/26/25	02/24/25

Hit Summary Sheet SW-846

SDG No.: Q1415
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : B-163-SB01								
Q1415-01	B-163-SB01	SOIL	13-Docosenamide, (Z)-	* 240.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	2-Butenoic acid, methyl ester, (Z)	* 1,400.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Benzophenone	* 170.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Diethyl carbonate	* 1,000.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Heptadecyl heptafluorobutyrate	* 250.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	Hexanedioic acid, 2-methyl-5-met	* 280.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	n-Hexadecanoic acid	* 220.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown10.851	* 96.200	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.004	* 80.100	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.392	* 98.100	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown14.769	* 120.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown2.293	* 100.000	J	0	0	ug/Kg
Q1415-01	B-163-SB01	SOIL	unknown3.216	* 230.000	J	0	0	ug/Kg
Total Tics :				4,284.40				
Total Concentration:				4,284.40				
Client ID : B-172-SB01								
Q1415-02	B-172-SB01	SOIL	9-Octadecenamide, (Z)-	* 91.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Benzophenone	* 170.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	n-Hexadecanoic acid	* 100.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Supraene	* 110.000	J	0	0	ug/Kg
Q1415-02	B-172-SB01	SOIL	Trifluoroacetoxy hexadecane	* 220.000	J	0	0	ug/Kg
Total Tics :				691.00				
Total Concentration:				691.00				
Client ID : B-163-SB02								
Q1415-03	B-163-SB02	SOIL	Benzophenone	* 180.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Diethyl carbonate	* 260.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	n-Hexadecanoic acid	* 120.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	Supraene	* 100.000	J	0	0	ug/Kg
Q1415-03	B-163-SB02	SOIL	2- Chloropropionic acid, octadecy	* 160.000	J	0	0	ug/Kg
Total Tics :				820.00				
Total Concentration:				820.00				
Client ID : B-172-SB02								
Q1415-04	B-172-SB02	SOIL	Benzophenone	* 190.000	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	n-Hexadecanoic acid	* 140.000	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Supraene	* 95.300	J	0	0	ug/Kg
Q1415-04	B-172-SB02	SOIL	Trifluoroacetoxy hexadecane	* 270.000	J	0	0	ug/Kg

Hit Summary Sheet SW-846

SDG No.: Q1415
Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1415-04	B-172-SB02	SOIL	unknown2.340	*	230.000	J 0	0	ug/Kg
Total Tics :				925.30				
Total Concentration:				925.30				
Client ID : FB02222025								
Q1415-05	FB02222025	WATER	n-Hexadecanoic acid	*	3.400	J 0	0	ug/L
Q1415-05	FB02222025	WATER	Oleic Acid	*	5.100	J 0	0	ug/L
Q1415-05	FB02222025	WATER	1-(1-tert-Butoxypropan-2-yloxy)p	*	2.300	J 0	0	ug/L
Total Tics :				10.80				
Total Concentration:				10.80				
Client ID : B-173-GW01								
Q1415-06	B-173-GW01	WATER	Diethylphthalate		5.400	J 1.2	5.6	ug/L
Q1415-06	B-173-GW01	WATER	Di-n-butylphthalate		3.100	J 1.6	5.6	ug/L
Q1415-06	B-173-GW01	WATER	1,4-Dioxane		3.900	J 1.4	5.6	ug/L
Total Svoc :				12.40				
Q1415-06	B-173-GW01	WATER	1,2-Benzenedicarboxylic acid, but	*	5.300	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	1H-Benzotriazole, 4-methyl-	*	10.100	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	1-Isobutoxy-2-ethylhexane	*	8.800	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	2.500	A 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Adipic acid, butyl 2-methylpent-3	*	49.700	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Benzophenone	*	21.000	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Butyl citrate	*	3.600	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Decane	*	4.900	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Ethanol, 2-butoxy-	*	3.300	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Heptadecyl heptafluorobutyrate	*	5.400	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Methanone, (1-hydroxycyclohexy	*	4.700	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Naphthalene, decahydro-, trans-	*	3.200	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Octadecanoic acid	*	8.700	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Squalene	*	3.200	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Sulfurous acid, decyl 2-ethylhexyl	*	4.500	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Tetradecane	*	8.200	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	Tridecane	*	10.200	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown2.263	*	2.300	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown8.357	*	3.600	J 0	0	ug/L
Q1415-06	B-173-GW01	WATER	unknown9.739	*	2.500	J 0	0	ug/L
Total Tics :				165.70				
Total Concentration:				178.10				



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166853BL	PB166853BL	2-Fluorophenol	150	141	94		30 (18)	130 (112)
		Phenol-d6	150	133	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	90.7	91		30 (18)	130 (107)
		2-Fluorobiphenyl	100	97.0	97		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	104	104		30 (10)	130 (105)
PB166853BS	PB166853BS	2-Fluorophenol	150	138	92		30 (18)	130 (112)
		Phenol-d6	150	131	88		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.9	88		30 (18)	130 (107)
		2-Fluorobiphenyl	100	95.9	96		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	145	96		30 (10)	130 (116)
		Terphenyl-d14	100	116	116		30 (10)	130 (105)
Q1415-01	B-163-SB01	2-Fluorophenol	150	99.4	66		30 (18)	130 (112)
		Phenol-d6	150	93.1	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.9	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	77.3	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	84.2	56		30 (10)	130 (116)
		Terphenyl-d14	100	58.5	59		30 (10)	130 (105)
Q1415-02	B-172-SB01	2-Fluorophenol	150	91.6	61		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.9	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.5	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	79.7	53		30 (10)	130 (116)
		Terphenyl-d14	100	60.8	61		30 (10)	130 (105)
Q1415-03	B-163-SB02	2-Fluorophenol	150	83.6	56		30 (18)	130 (112)
		Phenol-d6	150	81.5	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	54.3	54		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.3	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	72.1	48		30 (10)	130 (116)
		Terphenyl-d14	100	54.8	55		30 (10)	130 (105)
Q1415-04	B-172-SB02	2-Fluorophenol	150	102	68		30 (18)	130 (112)
		Phenol-d6	150	98.7	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.6	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	73.0	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	85.9	57		30 (10)	130 (116)
		Terphenyl-d14	100	69.8	70		30 (10)	130 (105)
Q1421-02MS	P001-CLAY-CF01-01MS	2-Fluorophenol	150	100	67		30 (18)	130 (112)
		Phenol-d6	150	98.8	66		30 (15)	130 (107)
		Nitrobenzene-d5	100	65.3	65		30 (18)	130 (107)
		2-Fluorobiphenyl	100	69.2	69		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	94.2	63		30 (10)	130 (116)
		Terphenyl-d14	100	74.9	75		30 (10)	130 (105)
Q1421-03MSD	P001-CLAY-CF01-01MSD	2-Fluorophenol	150	104	69		30 (18)	130 (112)
		Phenol-d6	150	101	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.9	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	72.5	73		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	94.1	63		30 (10)	130 (116)
		Terphenyl-d14	100	71.3	71		30 (10)	130 (105)

Surrogate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166875BL	PB166875BL	2-Fluorophenol	150	141	94		15 (10)	110 (139)
		Phenol-d6	150	136	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.5	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.6	97		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)
PB166875BS	PB166875BS	2-Fluorophenol	150	127	85		15 (10)	110 (139)
		Phenol-d6	150	121	80		15 (10)	110 (134)
		Nitrobenzene-d5	100	84.5	84		30 (49)	130 (133)
		2-Fluorobiphenyl	100	88.2	88		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	130	87		15 (44)	110 (137)
		Terphenyl-d14	100	102	102		30 (48)	130 (125)
PB166875BSD	PB166875BSD	2-Fluorophenol	150	132	88		15 (10)	110 (139)
		Phenol-d6	150	127	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.4	87		30 (49)	130 (133)
		2-Fluorobiphenyl	100	91.7	92		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	138	92		15 (44)	110 (137)
		Terphenyl-d14	100	106	106		30 (48)	130 (125)
Q1415-05	FB02222025	2-Fluorophenol	75	23.3	31		15 (10)	110 (139)
		Phenol-d6	75	13.1	18		15 (10)	110 (134)
		Nitrobenzene-d5	50	38.6	77		30 (49)	130 (133)
		2-Fluorobiphenyl	50	39.7	79		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	57.7	77		15 (44)	110 (137)
		Terphenyl-d14	50	39.6	79		30 (48)	130 (125)
Q1415-06	B-173-GW01	2-Fluorophenol	150	57.4	38		15 (10)	110 (139)
		Phenol-d6	150	37.3	25		15 (10)	110 (134)
		Nitrobenzene-d5	100	74.2	74		30 (49)	130 (133)
		2-Fluorobiphenyl	100	80.7	81		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	122	81		15 (44)	110 (137)
		Terphenyl-d14	100	88.2	88		30 (48)	130 (125)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q1421-02MS		Client Sample ID: P001-CLAY-CF01-01MS		DataFile: BF141762.D							
Benzaldehyde	2400	0	1300	ug/Kg	54				20 (10)	160 (86)	
Phenol	2400	0	2100	ug/Kg	88				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2400	0	2100	ug/Kg	88				70 (54)	130 (125)	
2-Chlorophenol	2400	0	2100	ug/Kg	88				70 (79)	130 (107)	
2-Methylphenol	2400	0	2100	ug/Kg	88				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2400	0	1900	ug/Kg	79				70 (65)	130 (110)	
Acetophenone	2400	0	2200	ug/Kg	92				70 (75)	130 (111)	
3+4-Methylphenols	2400	0	2200	ug/Kg	92				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2400	0	2000	ug/Kg	83				70 (59)	130 (119)	
Hexachloroethane	2400	0	2100	ug/Kg	88				20 (65)	160 (117)	
Nitrobenzene	2400	0	2000	ug/Kg	83				70 (70)	130 (119)	
Isophorone	2400	0	2200	ug/Kg	92				70 (76)	130 (122)	
2-Nitrophenol	2400	0	2200	ug/Kg	92				70 (54)	130 (145)	
2,4-Dimethylphenol	2400	0	2700	ug/Kg	113				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2400	0	2100	ug/Kg	88				70 (68)	130 (112)	
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88				70 (72)	130 (118)	
Naphthalene	2400	0	2000	ug/Kg	83				70 (72)	130 (110)	
4-Chloroaniline	2400	0	850	ug/Kg	35	*			70 (10)	130 (91)	
Hexachlorobutadiene	2400	0	2100	ug/Kg	88				70 (66)	130 (114)	
Caprolactam	2400	0	2200	ug/Kg	92				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83				70 (57)	130 (132)	
2-Methylnaphthalene	2400	0	2000	ug/Kg	83				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4700	0	6200	ug/Kg	132				20 (10)	160 (175)	
2,4,6-Trichlorophenol	2400	0	2000	ug/Kg	83				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83				70 (72)	130 (117)	
1,1-Biphenyl	2400	0	2300	ug/Kg	96				70 (75)	130 (113)	
2-Chloronaphthalene	2400	0	2100	ug/Kg	88				70 (67)	130 (118)	
2-Nitroaniline	2400	0	2000	ug/Kg	83				70 (69)	130 (127)	
Dimethylphthalate	2400	0	2100	ug/Kg	88				70 (70)	130 (113)	
Acenaphthylene	2400	0	2200	ug/Kg	92				70 (79)	130 (118)	
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88				70 (70)	130 (125)	
3-Nitroaniline	2400	0	1300	ug/Kg	54	*			70 (30)	130 (99)	
Acenaphthene	2400	0	2000	ug/Kg	83				70 (70)	130 (121)	
2,4-Dinitrophenol	4700	0	3000	ug/Kg	64				20 (10)	160 (155)	
4-Nitrophenol	4700	0	3700	ug/Kg	79				20 (45)	160 (133)	
Dibenzofuran	2400	0	2000	ug/Kg	83				70 (72)	130 (110)	
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88				70 (55)	130 (128)	
Diethylphthalate	2400	0	2000	ug/Kg	83				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88				70 (71)	130 (108)	
Fluorene	2400	0	2100	ug/Kg	88				70 (68)	130 (116)	
4-Nitroaniline	2400	0	2000	ug/Kg	83				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2400	0	2200	ug/Kg	92				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2400	0	2200	ug/Kg	92				70 (65)	130 (121)	
Hexachlorobenzene	2400	0	2200	ug/Kg	92				70 (67)	130 (118)	
Atrazine	2400	0	2700	ug/Kg	113				70 (79)	130 (127)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4700	0	3200	ug/Kg	68				20 (47)	160 (128)	
Phenanthrene	2400	0	2100	ug/Kg	88				70 (52)	130 (128)	
Anthracene	2400	0	2200	ug/Kg	92				70 (62)	130 (124)	
Carbazole	2400	0	2100	ug/Kg	88				70 (59)	130 (119)	
Di-n-butylphthalate	2400	0	2100	ug/Kg	88				70 (69)	130 (118)	
Fluoranthene	2400	0	2000	ug/Kg	83				70 (44)	130 (125)	
Pyrene	2400	0	2200	ug/Kg	92				70 (26)	130 (142)	
Butylbenzylphthalate	2400	0	2300	ug/Kg	96				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2400	0	1700	ug/Kg	71				70 (33)	130 (116)	
Benzo(a)anthracene	2400	0	2200	ug/Kg	92				70 (71)	130 (114)	
Chrysene	2400	0	2100	ug/Kg	88				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2400	0	2600	ug/Kg	108				70 (42)	130 (169)	
Di-n-octyl phthalate	2400	0	2800	ug/Kg	117				70 (23)	130 (175)	
Benzo(b)fluoranthene	2400	0	2100	ug/Kg	88				70 (67)	130 (121)	
Benzo(k)fluoranthene	2400	0	1900	ug/Kg	79				70 (57)	130 (134)	
Benzo(a)pyrene	2400	0	2200	ug/Kg	92				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2400	0	2400	ug/Kg	100				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2400	0	2400	ug/Kg	100				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2400	0	2200	ug/Kg	92				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2400	0	2300	ug/Kg	96				70 (69)	130 (124)	
1,4-Dioxane	2400	0	2100	ug/Kg	88				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83				70 (69)	130 (112)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1421-03MSD	Client Sample ID:	P001-CLAY-CF01-01MSD				DataFile:	BF141763.D			
Benzaldehyde	2400	0	1400	ug/Kg	58		7		20 (10)	160 (86)	30 (20)
Phenol	2400	0	2200	ug/Kg	92		4		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2400	0	2200	ug/Kg	92		4		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2400	0	2200	ug/Kg	92		4		70 (79)	130 (107)	30 (20)
2-Methylphenol	2400	0	2200	ug/Kg	92		4		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2400	0	2000	ug/Kg	83		5		70 (65)	130 (110)	30 (20)
Acetophenone	2400	0	2400	ug/Kg	100		8		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2400	0	2200	ug/Kg	92		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2400	0	2100	ug/Kg	88		6		70 (59)	130 (119)	30 (20)
Hexachloroethane	2400	0	2200	ug/Kg	92		4		20 (65)	160 (117)	30 (20)
Nitrobenzene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (119)	30 (20)
Isophorone	2400	0	2200	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2400	0	2200	ug/Kg	92		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2400	0	2800	ug/Kg	117		3		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2400	0	2200	ug/Kg	92		4		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2400	0	2100	ug/Kg	88		0		70 (72)	130 (118)	30 (20)
Naphthalene	2400	0	2100	ug/Kg	88		6		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2400	0	940	ug/Kg	39	*	11		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2400	0	2200	ug/Kg	92		4		70 (66)	130 (114)	30 (20)
Caprolactam	2400	0	2200	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2400	0	2000	ug/Kg	83		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2400	0	2000	ug/Kg	83		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4700	0	6400	ug/Kg	136		3		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2400	0	2100	ug/Kg	88		6		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2400	0	2000	ug/Kg	83		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2400	0	2400	ug/Kg	100		4		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2400	0	2200	ug/Kg	92		4		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2400	0	2100	ug/Kg	88		6		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2400	0	2100	ug/Kg	88		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	2400	0	2200	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2400	0	1200	ug/Kg	50	*	8		70 (30)	130 (99)	30 (20)
Acenaphthene	2400	0	2100	ug/Kg	88		6		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4700	0	2900	ug/Kg	62		3		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4700	0	3500	ug/Kg	74		7		20 (45)	160 (133)	30 (20)
Dibenzofuran	2400	0	2000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2400	0	2100	ug/Kg	88		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	2400	0	2000	ug/Kg	83		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2400	0	2100	ug/Kg	88		0		70 (71)	130 (108)	30 (20)
Fluorene	2400	0	2100	ug/Kg	88		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2400	0	2000	ug/Kg	83		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2400	0	1800	ug/Kg	75		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2400	0	2300	ug/Kg	96		4		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2400	0	2300	ug/Kg	96		4		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2400	0	2400	ug/Kg	100		8		70 (67)	130 (118)	30 (20)
Atrazine	2400	0	2800	ug/Kg	117		3		70 (79)	130 (127)	30 (20)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Pentachlorophenol	4700	0	3400	ug/Kg	72		6		20 (47)	160 (128)	30 (20)
Phenanthrene	2400	0	2200	ug/Kg	92		4		70 (52)	130 (128)	30 (20)
Anthracene	2400	0	2300	ug/Kg	96		4		70 (62)	130 (124)	30 (20)
Carbazole	2400	0	2200	ug/Kg	92		4		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2400	0	2200	ug/Kg	92		4		70 (69)	130 (118)	30 (20)
Fluoranthene	2400	0	2100	ug/Kg	88		6		70 (44)	130 (125)	30 (20)
Pyrene	2400	0	2100	ug/Kg	88		4		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2400	0	2300	ug/Kg	96		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2400	0	1900	ug/Kg	79		11		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2400	0	2300	ug/Kg	96		4		70 (71)	130 (114)	30 (20)
Chrysene	2400	0	2100	ug/Kg	88		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2400	0	2700	ug/Kg	113		5		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2400	0	3200	ug/Kg	133	*	13		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2400	0	1900	ug/Kg	79		11		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2400	0	2200	ug/Kg	92		15		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2400	0	2300	ug/Kg	96		4		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2400	0	2500	ug/Kg	104		4		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2400	0	2500	ug/Kg	104		4		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2400	0	2300	ug/Kg	96		4		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2400	0	2400	ug/Kg	100		4		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2400	0	2200	ug/Kg	92		4		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2400	0	2000	ug/Kg	83		0		70 (69)	130 (112)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166853BS	Benzaldehyde	1700	950	ug/Kg	56				20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1500	ug/Kg	88				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1500	ug/Kg	88				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1900	ug/Kg	112				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	740	ug/Kg	44		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				70 (53)	130 (98)	
	Caprolactam	1700	1700	ug/Kg	100				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4300	ug/Kg	130				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1400	ug/Kg	82				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	910	ug/Kg	54		*		70 (28)	130 (100)	
	Acenaphthene	1700	1400	ug/Kg	82				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	3000	ug/Kg	91				20 (37)	160 (128)	
	4-Nitrophenol	3300	2600	ug/Kg	79				20 (48)	160 (119)	
	Dibenzofuran	1700	1400	ug/Kg	82				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1500	ug/Kg	88				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1500	ug/Kg	88				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141777.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		RPD
							Qual	Qual	Low	High	
PB166853BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	2000	ug/Kg	118				70 (47)	130 (152)	
	Pentachlorophenol	3300	2400	ug/Kg	73				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				70 (57)	130 (107)	
	Pyrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1600	ug/Kg	94				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2100	ug/Kg	124				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	2100	ug/Kg	124				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				70 (53)	130 (101)	
	1,4-Dioxane	1700	1400	ug/Kg	82				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (108)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141781.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB166875BS	Benzaldehyde	50	25.9	ug/L	52				20 (10)	160 (162)	
	Phenol	50	40.2	ug/L	80				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	41.6	ug/L	83				70 (62)	130 (103)	
	2-Chlorophenol	50	41.9	ug/L	84				70 (70)	130 (117)	
	2-Methylphenol	50	40.5	ug/L	81				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	36.5	ug/L	73				70 (65)	130 (100)	
	Acetophenone	50	45.6	ug/L	91				70 (60)	130 (104)	
	3+4-Methylphenols	50	42.6	ug/L	85				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	40.8	ug/L	82				70 (57)	130 (107)	
	Hexachloroethane	50	41.0	ug/L	82				20 (76)	160 (118)	
	Nitrobenzene	50	39.9	ug/L	80				70 (58)	130 (106)	
	Isophorone	50	43.9	ug/L	88				70 (61)	130 (102)	
	2-Nitrophenol	50	43.6	ug/L	87				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	54.7	ug/L	109				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	42.5	ug/L	85				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	42.6	ug/L	85				70 (66)	130 (115)	
	Naphthalene	50	40.6	ug/L	81				70 (64)	130 (107)	
	4-Chloroaniline	50	17.8	ug/L	36		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	42.6	ug/L	85				70 (69)	130 (101)	
	Caprolactam	50	47.0	ug/L	94				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	41.0	ug/L	82				70 (65)	130 (114)	
	2-Methylnaphthalene	50	40.5	ug/L	81				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	120	ug/L	120				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	40.8	ug/L	82				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	40.9	ug/L	82				70 (70)	130 (106)	
	1,1-Biphenyl	50	45.7	ug/L	91				70 (72)	130 (98)	
	2-Chloronaphthalene	50	42.1	ug/L	84				70 (59)	130 (106)	
	2-Nitroaniline	50	39.2	ug/L	78				70 (73)	130 (114)	
	Dimethylphthalate	50	42.5	ug/L	85				70 (64)	130 (103)	
	Acenaphthylene	50	43.2	ug/L	86				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	42.9	ug/L	86				70 (64)	130 (110)	
	3-Nitroaniline	50	23.7	ug/L	47		*		70 (28)	130 (100)	
	Acenaphthene	50	40.1	ug/L	80				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	78.0	ug/L	78				20 (36)	160 (166)	
	4-Nitrophenol	100	67.7	ug/L	68				20 (45)	160 (147)	
	Dibenzofuran	50	39.6	ug/L	79				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	42.8	ug/L	86				70 (60)	130 (115)	
	Diethylphthalate	50	41.6	ug/L	83				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	42.5	ug/L	85				70 (61)	130 (104)	
	Fluorene	50	41.7	ug/L	83				70 (64)	130 (107)	
	4-Nitroaniline	50	38.6	ug/L	77				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	38.6	ug/L	77				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.3	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.2	ug/L	86				70 (73)	130 (103)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141781.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB166875BS	Hexachlorobenzene	50	44.2	ug/L	88				70 (73)	130 (106)	
	Atrazine	50	55.6	ug/L	111				70 (76)	130 (120)	
	Pentachlorophenol	100	67.2	ug/L	67				20 (47)	160 (114)	
	Phenanthrene	50	42.4	ug/L	85				70 (62)	130 (109)	
	Anthracene	50	43.9	ug/L	88				70 (65)	130 (110)	
	Carbazole	50	41.5	ug/L	83				70 (62)	130 (106)	
	Di-n-butylphthalate	50	44.1	ug/L	88				70 (64)	130 (106)	
	Fluoranthene	50	41.2	ug/L	82				70 (64)	130 (110)	
	Pyrene	50	45.1	ug/L	90				70 (71)	130 (103)	
	Butylbenzylphthalate	50	49.6	ug/L	99				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	31.4	ug/L	63		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	44.2	ug/L	88				70 (62)	130 (107)	
	Chrysene	50	42.9	ug/L	86				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	56.5	ug/L	113				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.6	ug/L	115				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	37.5	ug/L	75				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	43.8	ug/L	88				70 (77)	130 (105)	
	Benzo(a)pyrene	50	44.3	ug/L	89				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	46.7	ug/L	93				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	46.7	ug/L	93				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	42.3	ug/L	85				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	46.4	ug/L	93				70 (72)	130 (101)	
	1,4-Dioxane	50	40.0	ug/L	80				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	40.0	ug/L	80				70 (63)	130 (116)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141782.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB166875BSD	Benzaldehyde	50	27.2	ug/L	54	5			20 (10)	160 (162)	20 (20)
	Phenol	50	42.1	ug/L	84	5			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	43.7	ug/L	87	5			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	43.9	ug/L	88	5			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	42.9	ug/L	86	6			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	37.7	ug/L	75	3			70 (65)	130 (100)	20 (20)
	Acetophenone	50	46.7	ug/L	93	2			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	45.2	ug/L	90	6			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	41.7	ug/L	83	2			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	43.5	ug/L	87	6			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	40.9	ug/L	82	2			70 (58)	130 (106)	20 (20)
	Isophorone	50	45.0	ug/L	90	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	44.3	ug/L	89	2			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.8	ug/L	112	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	44.4	ug/L	89	4			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	44.1	ug/L	88	3			70 (66)	130 (115)	20 (20)
	Naphthalene	50	42.4	ug/L	85	4			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	18.3	ug/L	37	3	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	43.9	ug/L	88	3			70 (69)	130 (101)	20 (20)
	Caprolactam	50	49.7	ug/L	99	6			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	42.1	ug/L	84	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	41.3	ug/L	83	2			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	120	ug/L	120	0			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	42.4	ug/L	85	4			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	42.1	ug/L	84	3			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	47.9	ug/L	96	5			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	43.6	ug/L	87	4			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	40.5	ug/L	81	3			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	44.6	ug/L	89	5			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	45.1	ug/L	90	4			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	44.2	ug/L	88	3			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	25.4	ug/L	51	7	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	41.9	ug/L	84	4			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	79.0	ug/L	79	1			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	70.6	ug/L	71	4			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	41.4	ug/L	83	4			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	44.8	ug/L	90	5			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	43.8	ug/L	88	5			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	44.4	ug/L	89	4			70 (61)	130 (104)	20 (20)
	Fluorene	50	43.4	ug/L	87	4			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	40.8	ug/L	82	6			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	41.5	ug/L	83	7			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	45.1	ug/L	90	4			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	45.4	ug/L	91	5			70 (73)	130 (103)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1415

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

DataFile: BF141782.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Limits		
							Qual	Qual	Low	High	RPD
PB166875BSD	Hexachlorobenzene	50	46.7	ug/L	93	6			70 (73)	130 (106)	20 (20)
	Atrazine	50	58.7	ug/L	117	5			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	70.3	ug/L	70	5			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	44.7	ug/L	89	5			70 (62)	130 (109)	20 (20)
	Anthracene	50	45.3	ug/L	91	3			70 (65)	130 (110)	20 (20)
	Carbazole	50	43.3	ug/L	87	4			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	47.0	ug/L	94	6			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	42.8	ug/L	86	4			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.1	ug/L	92	2			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	51.5	ug/L	103	4			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	32.8	ug/L	66	4	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	45.1	ug/L	90	2			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.4	ug/L	89	3			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	58.8	ug/L	118	4			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	59.6	ug/L	119	3			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	44.9	ug/L	90	18			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	40.8	ug/L	82	7			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	47.3	ug/L	95	7			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	49.1	ug/L	98	5			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	49.3	ug/L	99	5			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	44.2	ug/L	88	4			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	47.2	ug/L	94	2			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	41.9	ug/L	84	5			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	41.3	ug/L	83	3			70 (63)	130 (116)	20 (20)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166853BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1415

SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141776.D

Lab Sample ID: PB166853BL

Instrument ID: BNA_F

Date Extracted: 02/25/2025

Matrix: (soil/water) SOIL

Date Analyzed: 02/26/2025

Level: (low/med) LOW

Time Analyzed: 11:49

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166853BS	PB166853BS	BF141777.D	02/26/2025
B-163-SB01	Q1415-01	BF141769.D	02/25/2025
B-172-SB01	Q1415-02	BF141768.D	02/25/2025
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025
B-172-SB02	Q1415-04	BF141766.D	02/25/2025
B-163-SB02	Q1415-03	BF141767.D	02/25/2025

COMMENTS: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166875BL

Lab Name: CHEMTECH

Contract: PORT06

Lab Code: CHEM Case No.: Q1415

SAS No.: Q1415 SDG NO.: Q1415

Lab File ID: BF141780.D

Lab Sample ID: PB166875BL

Instrument ID: BNA_F

Date Extracted: 02/26/2025

Matrix: (soil/water) Water

Date Analyzed: 02/26/2025

Level: (low/med) LOW

Time Analyzed: 13:55

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166875BS	PB166875BS	BF141781.D	02/26/2025
PB166875BSD	PB166875BSD	BF141782.D	02/26/2025
B-173-GW01	Q1415-06	BF141787.D	02/26/2025
FB02222025	Q1415-05	BF141788.D	02/26/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: Q1415 SDG NO.: Q1415Lab File ID: BF141471.DDFTPP Injection Date: 02/06/2025Instrument ID: BNA_FDFTPP Injection Time: 10:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.6
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141472.D	02/06/2025	11:07
SSTDICC005	SSTDICC005	BF141473.D	02/06/2025	11:34
SSTDICC010	SSTDICC010	BF141474.D	02/06/2025	12:00
SSTDICC020	SSTDICC020	BF141475.D	02/06/2025	12:26
SSTDICCC040	SSTDICCC040	BF141476.D	02/06/2025	12:55
SSTDICC050	SSTDICC050	BF141477.D	02/06/2025	13:21
SSTDICC060	SSTDICC060	BF141478.D	02/06/2025	13:47
SSTDICC080	SSTDICC080	BF141479.D	02/06/2025	14:14



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: Q1415 SDG NO.: Q1415Lab File ID: BF141754.DDFTPP Injection Date: 02/25/2025Instrument ID: BNA_FDFTPP Injection Time: 09:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141755.D	02/25/2025	10:34
P001-CLAY-CF01-01MS	Q1421-02MS	BF141762.D	02/25/2025	14:07
P001-CLAY-CF01-01MSD	Q1421-03MSD	BF141763.D	02/25/2025	14:36
B-172-SB02	Q1415-04	BF141766.D	02/25/2025	16:05
B-163-SB02	Q1415-03	BF141767.D	02/25/2025	16:35
B-172-SB01	Q1415-02	BF141768.D	02/25/2025	17:05
B-163-SB01	Q1415-01	BF141769.D	02/25/2025	17:34



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: PORT06Lab Code: CHEMSAS No.: Q1415 SDG NO.: Q1415Lab File ID: BF141774.DDFTPP Injection Date: 02/26/2025Instrument ID: BNA_FDFTPP Injection Time: 10:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	33.5
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	47.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141775.D	02/26/2025	10:45
PB166853BL	PB166853BL	BF141776.D	02/26/2025	11:49
PB166853BS	PB166853BS	BF141777.D	02/26/2025	12:19
PB166875BL	PB166875BL	BF141780.D	02/26/2025	13:55
PB166875BS	PB166875BS	BF141781.D	02/26/2025	14:24
PB166875BSD	PB166875BSD	BF141782.D	02/26/2025	14:54
B-173-GW01	Q1415-06	BF141787.D	02/26/2025	17:27
FB02222025	Q1415-05	BF141788.D	02/26/2025	17:56

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	83876	6.781	333850	8.06	179797	9.82
UPPER LIMIT	167752	7.281	667700	8.563	359594	10.316
LOWER LIMIT	41938	6.281	166925	7.563	89898.5	9.316
EPA SAMPLE NO.						
01 B-163-SB01	65687	6.78	241105	8.06	115261	9.82
02 B-172-SB01	68668	6.78	275032	8.06	146934	9.81
03 B-163-SB02	74409	6.78	292573	8.06	153922	9.81
04 B-172-SB02	71117	6.78	279572	8.06	151408	9.81
05 P001-CLAY-CF01-01MS	88792	6.78	356048	8.06	194554	9.82
06 P001-CLAY-CF01-01MSD	75675	6.78	299933	8.06	161806	9.82

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/25/2025

Lab File ID: BF141755.D Time Analyzed: 10:34

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	280239	11.304	152344	13.939	167961	15.386
UPPER LIMIT	560478	11.804	304688	14.439	335922	15.886
LOWER LIMIT	140120	10.804	76172	13.439	83980.5	14.886
EPA SAMPLE NO.						
01 B-163-SB01	181981	11.30	152705	13.94	176440	15.38
02 B-172-SB01	243302	11.30	170277	13.94	176972	15.39
03 B-163-SB02	248859	11.30	169140	13.94	184984	15.39
04 B-172-SB02	244202	11.30	165983	13.94	176431	15.39
05 P001-CLAY-CF01-01MS	323859	11.30	195463	13.95	188853	15.39
06 P001-CLAY-CF01-01MSD	253973	11.30	171769	13.94	186973	15.39

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	85384	6.781	345346	8.06	188350	9.82
UPPER LIMIT	170768	7.281	690692	8.563	376700	10.316
LOWER LIMIT	42692	6.281	172673	7.563	94175	9.316
EPA SAMPLE NO.						
01 PB166853BL	81286	6.78	323646	8.06	177621	9.82
02 PB166853BS	81688	6.78	331787	8.06	180365	9.82
03 PB166875BL	76736	6.78	309972	8.06	172156	9.82
04 PB166875BS	82911	6.78	323947	8.06	182265	9.82
05 PB166875BSD	81030	6.78	321539	8.06	179613	9.82
06 FB02222025	78152	6.78	311819	8.06	173235	9.82
07 B-173-GW01	70131	6.78	281804	8.06	154242	9.81

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG NO.: Q1415

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/26/2025

Lab File ID: BF141775.D Time Analyzed: 10:45

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	315416	11.304	190171	13.945	189428	15.392
UPPER LIMIT	630832	11.804	380342	14.445	378856	15.892
LOWER LIMIT	157708	10.804	95085.5	13.445	94714	14.892
EPA SAMPLE NO.						
01 PB166853BL	318142	11.30	217249	13.94	172479	15.39
02 PB166853BS	319305	11.30	191917	13.95	177241	15.39
03 PB166875BL	297565	11.30	205070	13.94	168978	15.39
04 PB166875BS	312748	11.30	195301	13.95	182516	15.39
05 PB166875BSD	311091	11.30	197944	13.95	175575	15.39
06 FB02222025	306559	11.30	234571	13.94	196458	15.39
07 B-173-GW01	262674	11.30	181385	13.94	166658	15.39

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	370	ug/Kg
108-95-2	Phenol	93.5	U	93.5	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	94.4	U	94.4	190	ug/Kg
95-57-8	2-Chlorophenol	94.2	U	94.2	190	ug/Kg
95-48-7	2-Methylphenol	90.9	U	90.9	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	98.0	U	98.0	190	ug/Kg
65794-96-9	3+4-Methylphenols	90.0	U	90.0	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.4	U	45.4	90.2	ug/Kg
67-72-1	Hexachloroethane	93.6	U	93.6	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	95.4	U	95.4	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.8	U	96.8	190	ug/Kg
120-83-2	2,4-Dichlorophenol	85.1	U	85.1	190	ug/Kg
91-20-3	Naphthalene	93.1	U	93.1	190	ug/Kg
106-47-8	4-Chloroaniline	93.1	UQ	93.1	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.9	U	93.9	190	ug/Kg
105-60-2	Caprolactam	97.9	U	97.9	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	87.4	U	87.4	190	ug/Kg
91-57-6	2-Methylnaphthalene	93.0	U	93.0	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.5	U	80.5	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	83.4	U	83.4	190	ug/Kg
92-52-4	1,1-Biphenyl	98.6	U	98.6	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.9	U	93.9	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	92.1	U	92.1	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.5	U	97.5	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.8	U	93.8	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	91.5	U	91.5	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	95.2	U	95.2	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	97.2	U	97.2	190	ug/Kg
84-66-2	Diethylphthalate	90.3	U	90.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	96.5	U	96.5	190	ug/Kg
86-73-7	Fluorene	96.4	U	96.4	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	92.0	U	92.0	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	89.0	U	89.0	190	ug/Kg
118-74-1	Hexachlorobenzene	95.9	U	95.9	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	87.2	U	87.2	370	ug/Kg
85-01-8	Phenanthrene	94.7	U	94.7	190	ug/Kg
120-12-7	Anthracene	95.2	U	95.2	190	ug/Kg
86-74-8	Carbazole	90.6	U	90.6	190	ug/Kg
84-74-2	Di-n-butylphthalate	95.1	U	95.1	190	ug/Kg
206-44-0	Fluoranthene	92.1	U	92.1	190	ug/Kg
129-00-0	Pyrene	93.6	U	93.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	91.0	U	91.0	190	ug/Kg
218-01-9	Chrysene	89.7	U	89.7	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.5	U	91.5	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	93.1	U	93.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.1	U	88.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.6	U	91.6	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.3	U	90.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.9	U	97.9	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	84.2	U	84.2	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	99.4		30 (18) - 130 (112)	66%	SPK: 150
13127-88-3	Phenol-d6	93.1		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.9		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.3		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.2		30 (10) - 130 (116)	56%	SPK: 150
1718-51-0	Terphenyl-d14	58.5		30 (10) - 130 (105)	59%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	65700	6.781
1146-65-2	Naphthalene-d8	241000	8.063
15067-26-2	Acenaphthene-d10	115000	9.816
1517-22-2	Phenanthrene-d10	182000	11.298
1719-03-5	Chrysene-d12	153000	13.939
1520-96-3	Perylene-d12	176000	15.38

TENTATIVE IDENTIFIED COMPOUNDS

	unknown2.293	100	J	2.29	ug/Kg
004358-59-2	2-Butenoic acid, methyl ester, (Z)	1400	J	2.54	ug/Kg
	unknown3.216	230	J	3.22	ug/Kg
000105-58-8	Diethyl carbonate	1000	J	4.17	ug/Kg
004513-62-6	Hexanedioic acid, 2-methyl-5-methy	280	J	8.79	ug/Kg
000119-61-9	Benzophenone	170	J	10.5	ug/Kg
	unknown10.851	96.2	J	10.9	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141769.D	1	02/25/25 09:30	02/25/25 17:34	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	220	J		11.8	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	250	J		13.8	ug/Kg
	unknown14.004	80.1	J		14.0	ug/Kg
	unknown14.392	98.1	J		14.4	ug/Kg
000112-84-5	13-Docosenamide, (Z)-	240	J		14.7	ug/Kg
	unknown14.769	120	J		14.8	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Time: Feb 26 00:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	65687	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	241105	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	115261	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	181981	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	152705	20.000	ng	-0.02
86) Perylene-d12	15.380	264	176440	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	416394	99.380	ng	0.00
7) Phenol-d6	6.422	99	492798	93.056	ng	-0.02
23) Nitrobenzene-d5	7.345	82	318531	68.908	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	97463	84.176	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	578204	77.286	ng	-0.02
79) Terphenyl-d14	12.880	244	529478	58.534	ng	-0.02

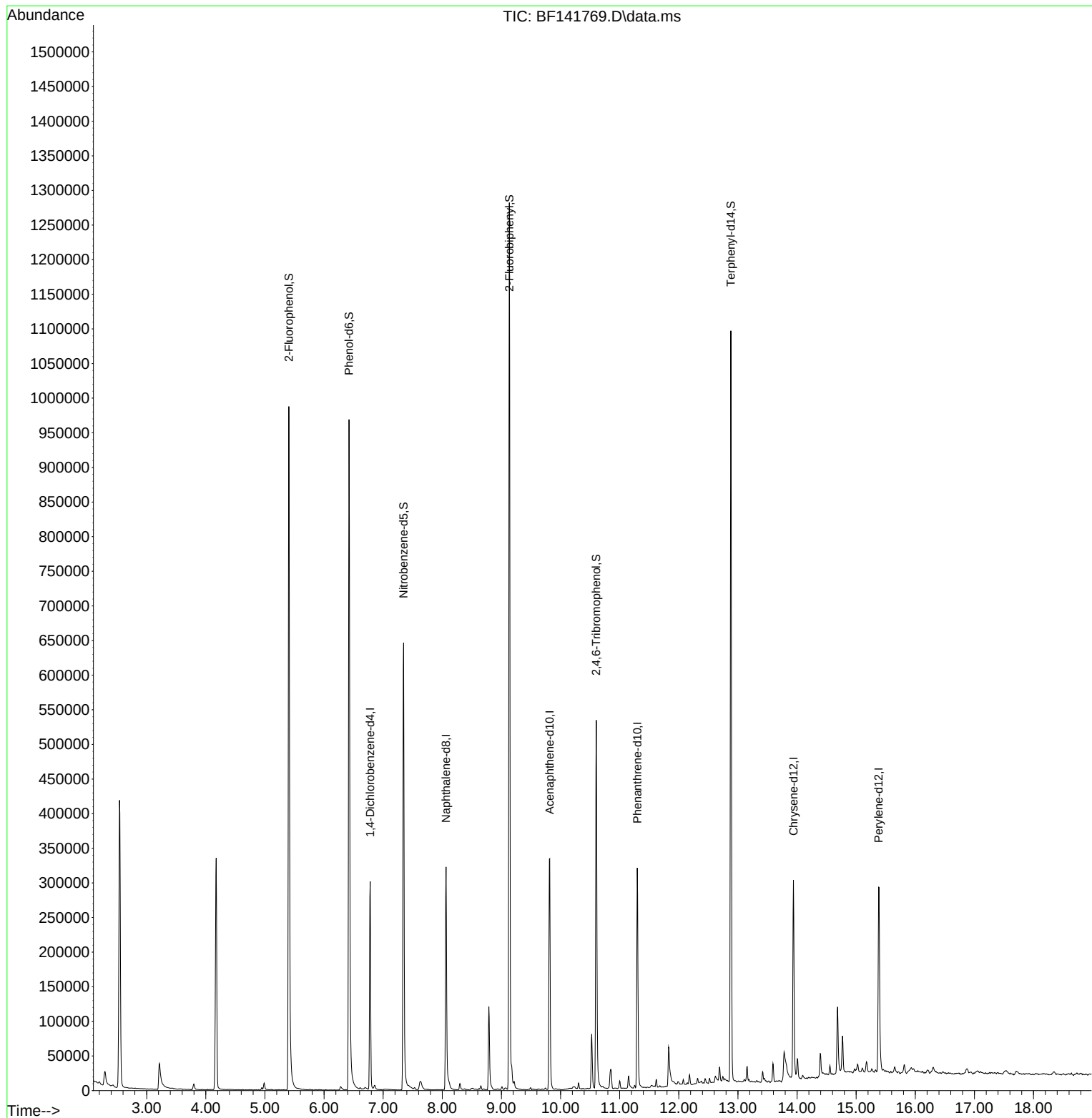
Target Compounds	Qvalue

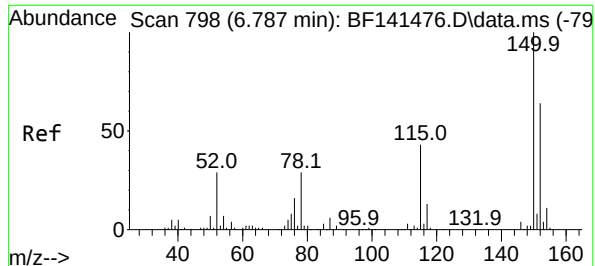
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Time: Feb 26 00:07:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

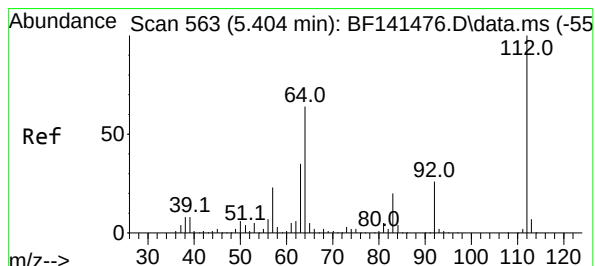
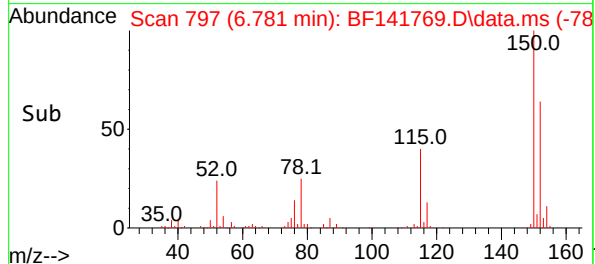
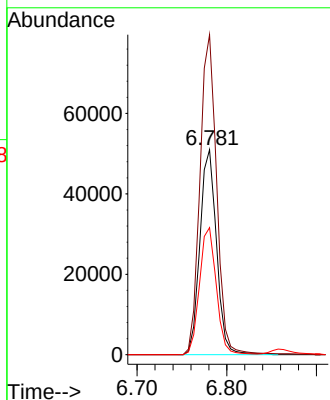
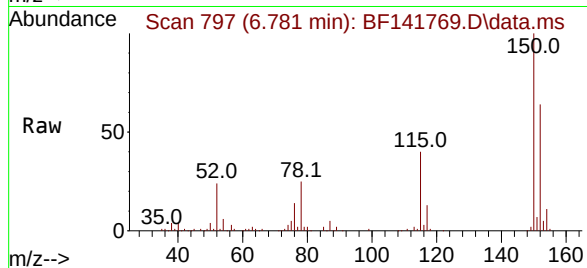




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

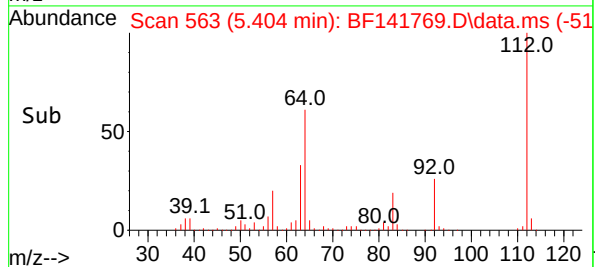
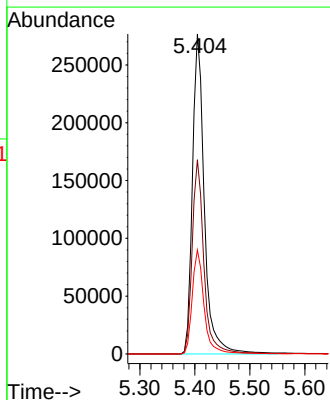
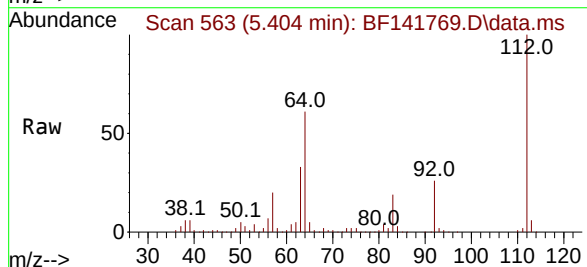
Instrument :
BNA_F
ClientSampleId :
B-163-SB01

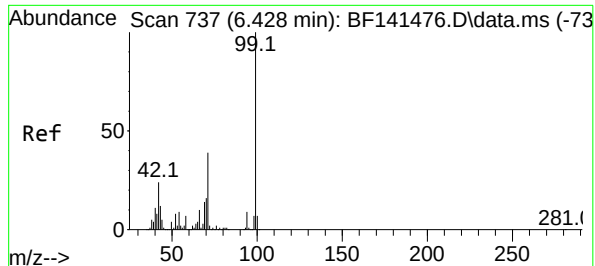
Tgt Ion:152 Resp: 65687
Ion Ratio Lower Upper
152 100
150 156.1 125.0 187.4
115 62.0 53.6 80.4



#5
2-Fluorophenol
Concen: 99.380 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion:112 Resp: 416394
Ion Ratio Lower Upper
112 100
64 60.7 51.1 76.7
63 32.5 28.4 42.6

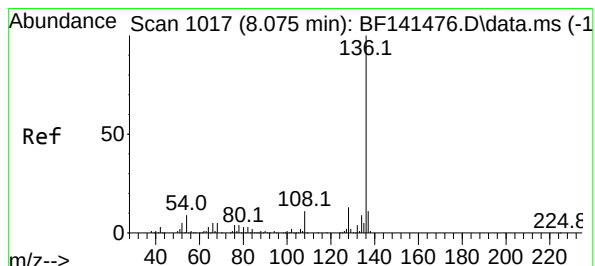
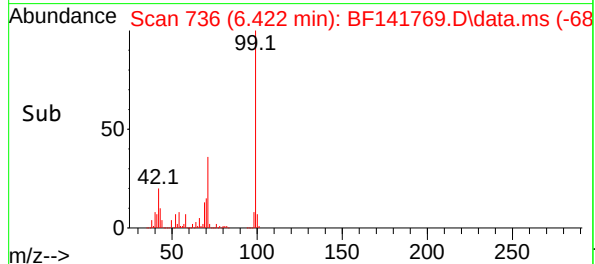
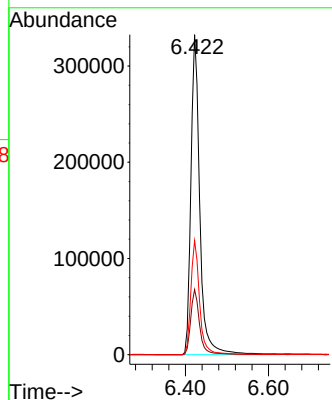
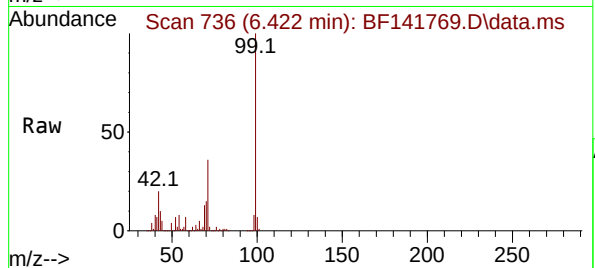




#7
Phenol-d6
Concen: 93.056 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

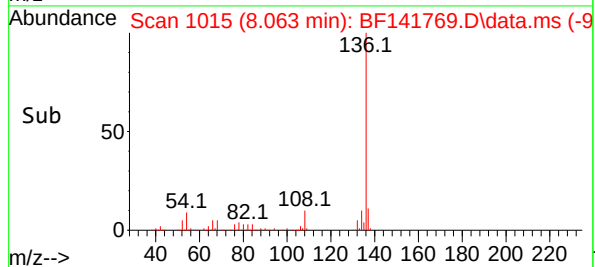
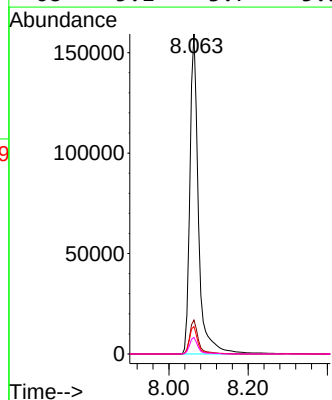
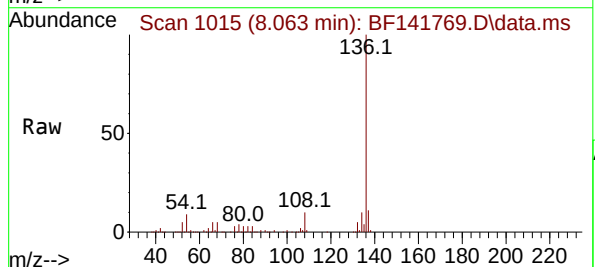
Instrument :
BNA_F
ClientSampleId :
B-163-SB01

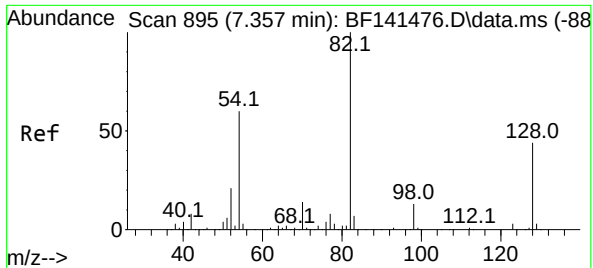
Tgt Ion: 99 Resp: 492798
Ion Ratio Lower Upper
99 100
42 20.4 19.1 28.7
71 35.6 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

Tgt Ion: 136 Resp: 241105
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 8.6 7.2 10.8
68 5.1 3.7 5.5





#23

Nitrobenzene-d5

Concen: 68.908 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF141769.D

Acq: 25 Feb 2025 17:34

Instrument :

BNA_F

ClientSampleId :

B-163-SB01

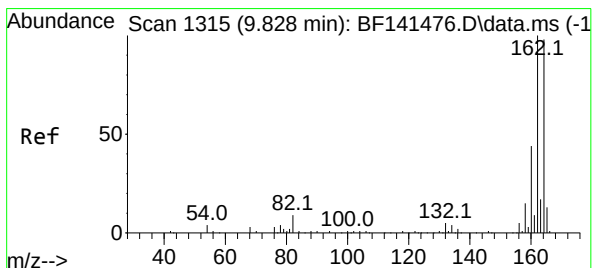
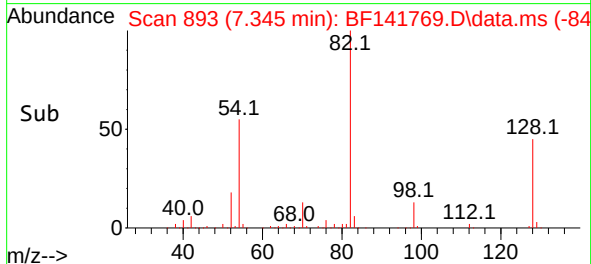
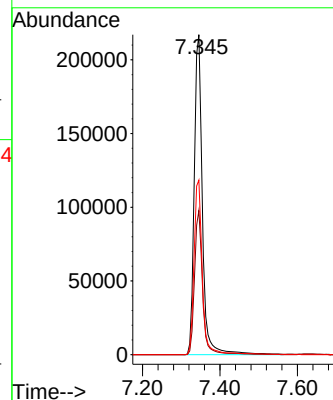
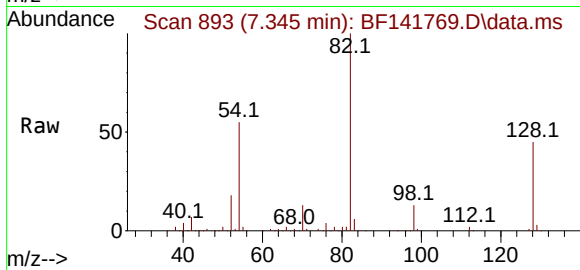
Tgt Ion: 82 Resp: 318531

Ion Ratio Lower Upper

82 100

128 45.1 34.8 52.2

54 54.5 48.2 72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1313

Delta R.T. -0.017 min

Lab File: BF141769.D

Acq: 25 Feb 2025 17:34

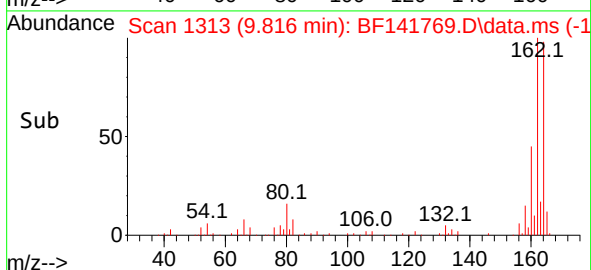
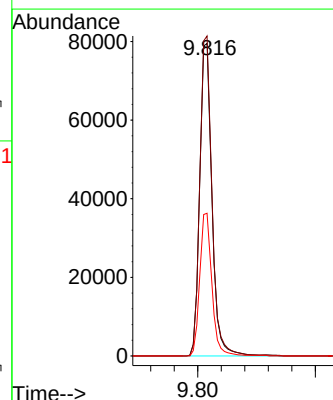
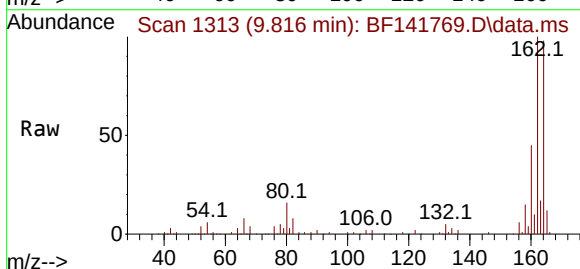
Tgt Ion:164 Resp: 115261

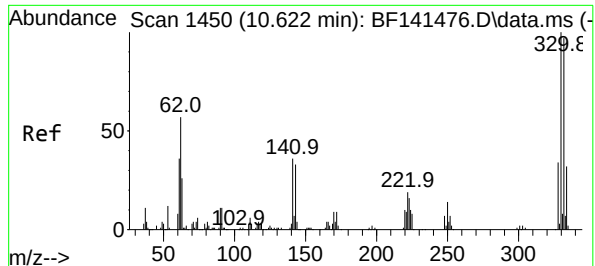
Ion Ratio Lower Upper

164 100

162 102.4 81.3 121.9

160 45.7 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 84.176 ng

RT: 10.604 min Scan# 1450

Delta R.T. -0.023 min

Lab File: BF141769.D

Acq: 25 Feb 2025 17:34

Instrument :

BNA_F

ClientSampleId :

B-163-SB01

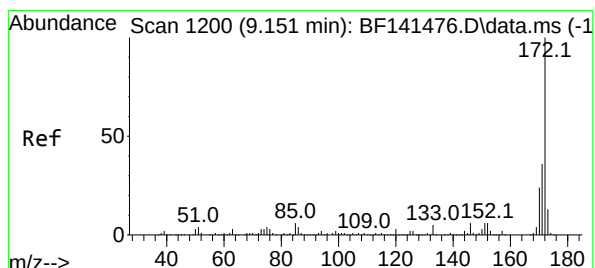
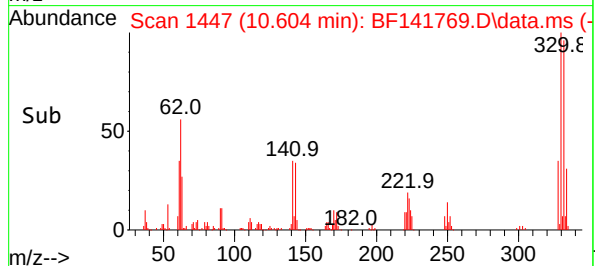
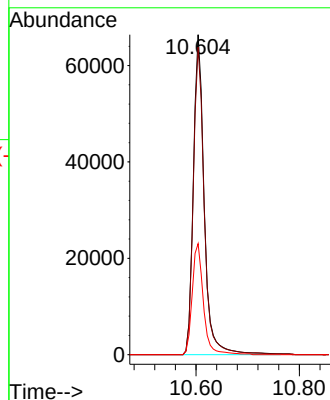
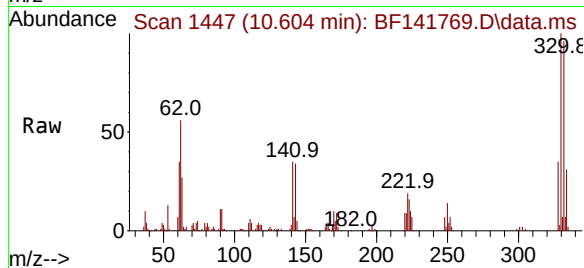
Tgt Ion:330 Resp: 97463

Ion Ratio Lower Upper

330 100

332 96.5 78.5 117.7

141 35.6 31.0 46.4



#45

2-Fluorobiphenyl

Concen: 77.286 ng

RT: 9.134 min Scan# 1197

Delta R.T. -0.017 min

Lab File: BF141769.D

Acq: 25 Feb 2025 17:34

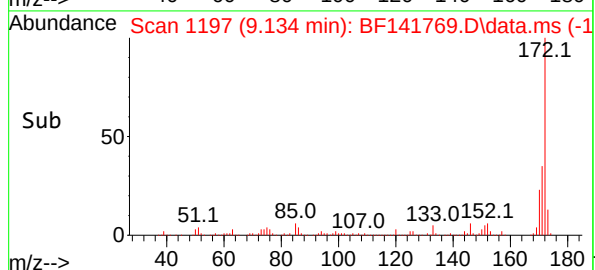
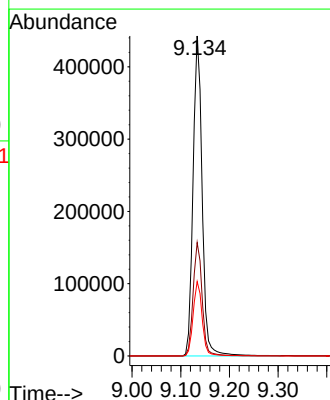
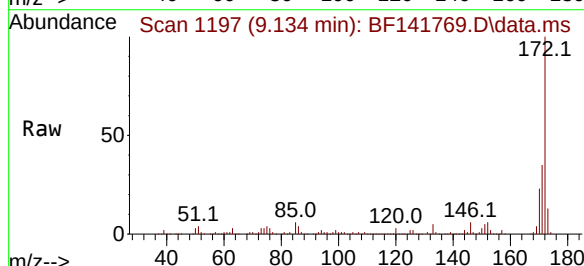
Tgt Ion:172 Resp: 578204

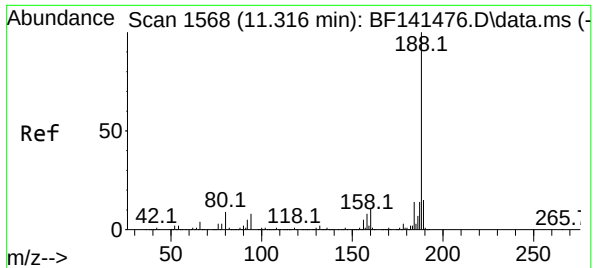
Ion Ratio Lower Upper

172 100

171 35.4 28.7 43.1

170 23.3 18.9 28.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1

Delta R.T. -0.017 min

Lab File: BF141769.D

Acq: 25 Feb 2025 17:34

Instrument :

BNA_F

ClientSampleId :

B-163-SB01

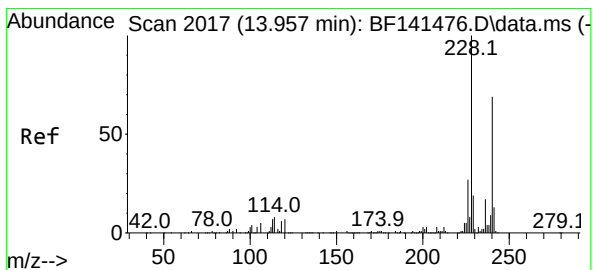
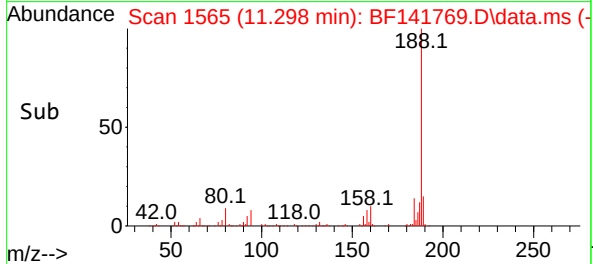
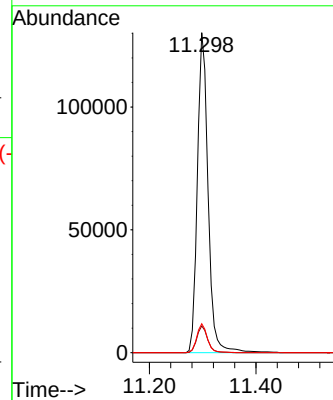
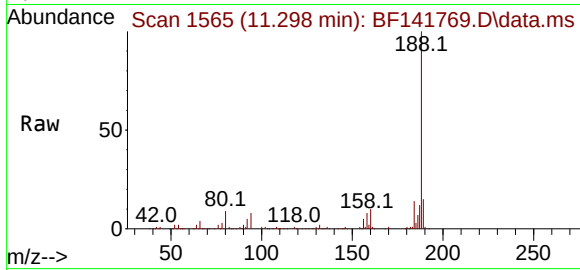
Tgt Ion:188 Resp: 181981

Ion Ratio Lower Upper

188 100

94 8.4 6.6 10.0

80 9.1 7.3 10.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2014

Delta R.T. -0.023 min

Lab File: BF141769.D

Acq: 25 Feb 2025 17:34

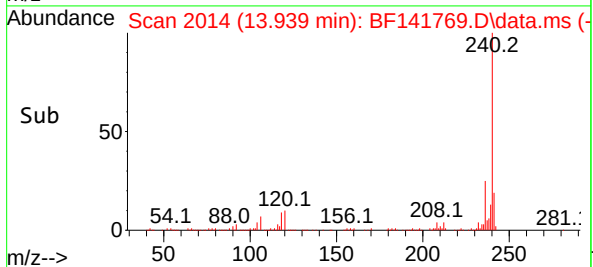
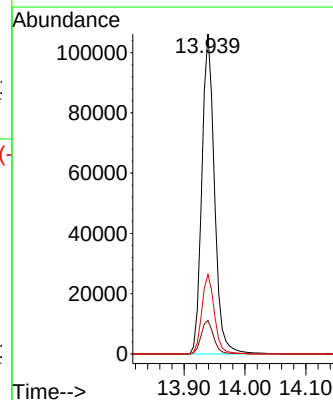
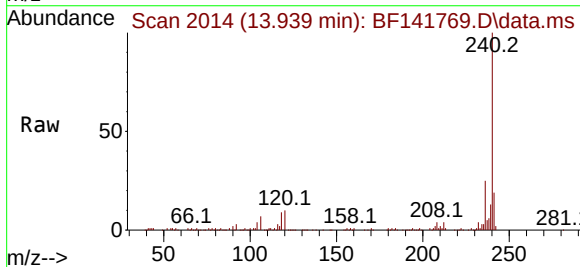
Tgt Ion:240 Resp: 152705

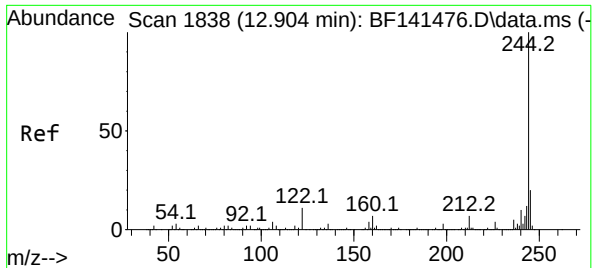
Ion Ratio Lower Upper

240 100

120 10.4 8.0 12.0

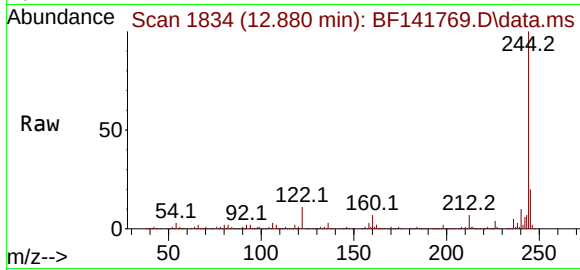
236 24.9 19.8 29.8



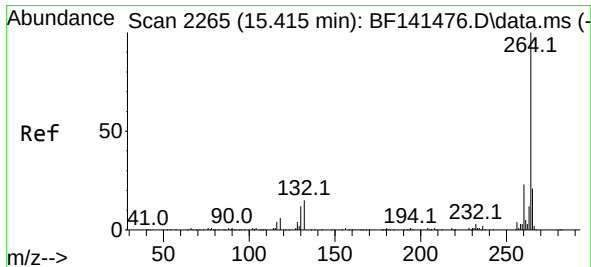
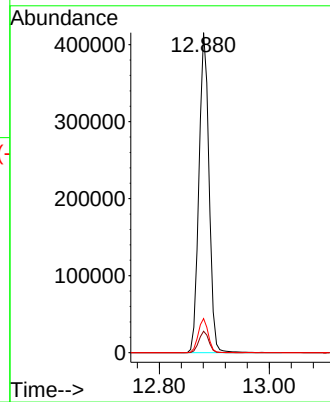
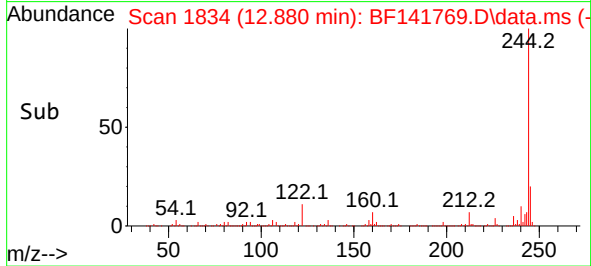


#79
Terphenyl-d14
Concen: 58.534 ng
RT: 12.880 min Scan# 11
Delta R.T. -0.023 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34

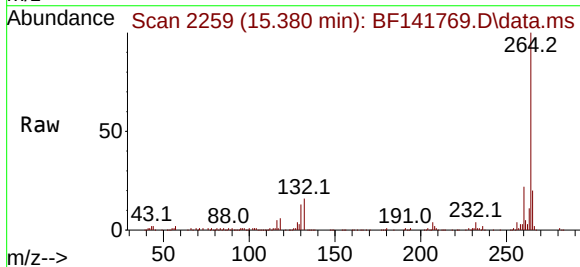
Instrument :
BNA_F
ClientSampleId :
B-163-SB01



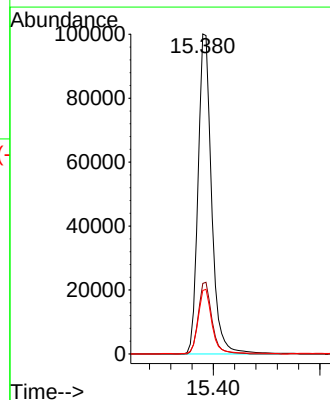
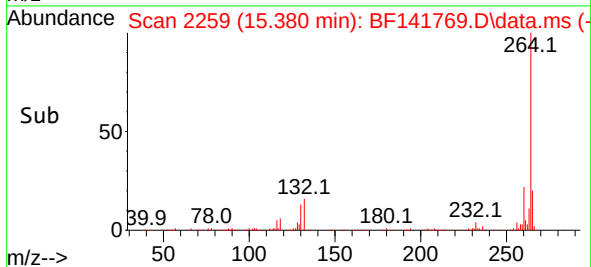
Tgt Ion:244 Resp: 529478
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 10.7 8.4 12.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.380 min Scan# 2259
Delta R.T. -0.035 min
Lab File: BF141769.D
Acq: 25 Feb 2025 17:34



Tgt Ion:264 Resp: 176440
Ion Ratio Lower Upper
264 100
260 22.0 18.6 28.0
265 19.9 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141769.D
 Acq On : 25 Feb 2025 17:34
 Operator : RC/JU
 Sample : Q1415-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-163-SB01

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141769.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.293	28	34	52	rVB	20550	53463	3.20%	0.412%
2	2.540	69	76	92	rVB	414683	724892	43.36%	5.584%
3	3.216	186	191	220	rBV	37280	118915	7.11%	0.916%
4	4.175	346	354	371	rBV	334532	527025	31.52%	4.060%
5	5.404	558	563	587	rBV	986323	1464643	87.61%	11.283%
6	6.422	731	736	766	rBV	968118	1456506	87.12%	11.220%
7	6.781	792	797	805	rBV	299682	386466	23.12%	2.977%
8	7.345	887	893	906	rBV	645709	928964	55.57%	7.156%
9	7.628	931	941	957	rBV3	11951	38369	2.30%	0.296%
10	8.063	1010	1015	1041	rVB	321653	481091	28.78%	3.706%
11	8.787	1134	1138	1155	rBV	120219	179623	10.74%	1.384%
12	9.134	1192	1197	1208	rBV	1280300	1671850	100.00%	12.879%
13	9.216	1208	1211	1222	rVB	10864	19019	1.14%	0.147%
14	9.816	1307	1313	1327	rBV	333249	477546	28.56%	3.679%
15	10.528	1429	1434	1442	rBV	78466	107009	6.40%	0.824%
16	10.604	1442	1447	1462	rBV	531130	769859	46.05%	5.931%
17	10.851	1479	1489	1495	rBV4	27710	56107	3.36%	0.432%
18	11.151	1535	1540	1551	rBV	17440	30084	1.80%	0.232%
19	11.298	1560	1565	1579	rBV	317303	438056	26.20%	3.375%
20	11.828	1650	1655	1667	rBV2	56818	125203	7.49%	0.965%
21	12.180	1711	1715	1721	rVB	14217	18627	1.11%	0.143%
22	12.622	1785	1790	1797	rBV6	9084	21746	1.30%	0.168%
23	12.686	1797	1801	1807	rVB2	20730	29617	1.77%	0.228%
24	12.880	1829	1834	1845	rBV	1084082	1377952	82.42%	10.615%
25	13.157	1876	1881	1884	rBV	20583	26782	1.60%	0.206%
26	13.416	1921	1925	1928	rBV	14634	19654	1.18%	0.151%
27	13.592	1951	1955	1960	rVB	26004	34299	2.05%	0.264%
28	13.780	1982	1987	2004	rBV4	40646	137269	8.21%	1.057%
29	13.939	2009	2014	2021	rVV	286546	415698	24.86%	3.202%
30	14.004	2021	2025	2032	rVB	28187	44363	2.65%	0.342%
31	14.392	2087	2091	2097	rBV2	33174	54244	3.24%	0.418%
32	14.686	2136	2141	2149	rBV2	95243	153482	9.18%	1.182%
33	14.769	2150	2155	2162	rVB	52048	77876	4.66%	0.600%
34	15.174	2220	2224	2232	rVB3	14604	23937	1.43%	0.184%
35	15.380	2254	2259	2271	rBV	266404	471646	28.21%	3.633%
36	15.815	2330	2333	2339	rVB2	12471	18895	1.13%	0.146%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

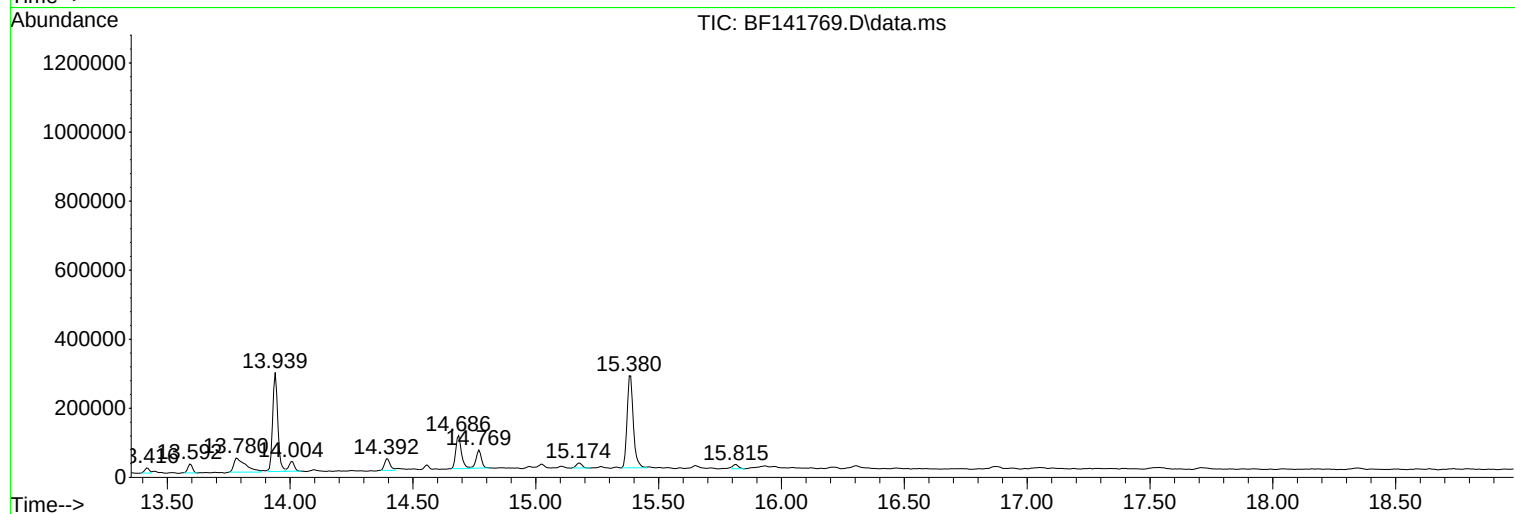
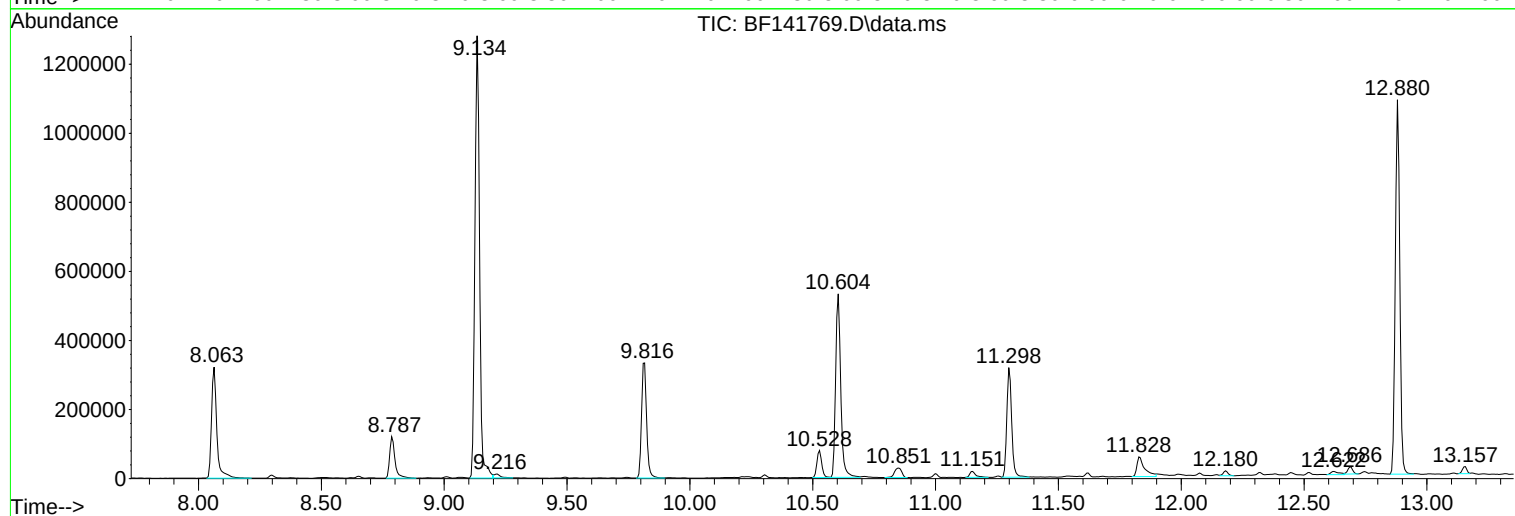
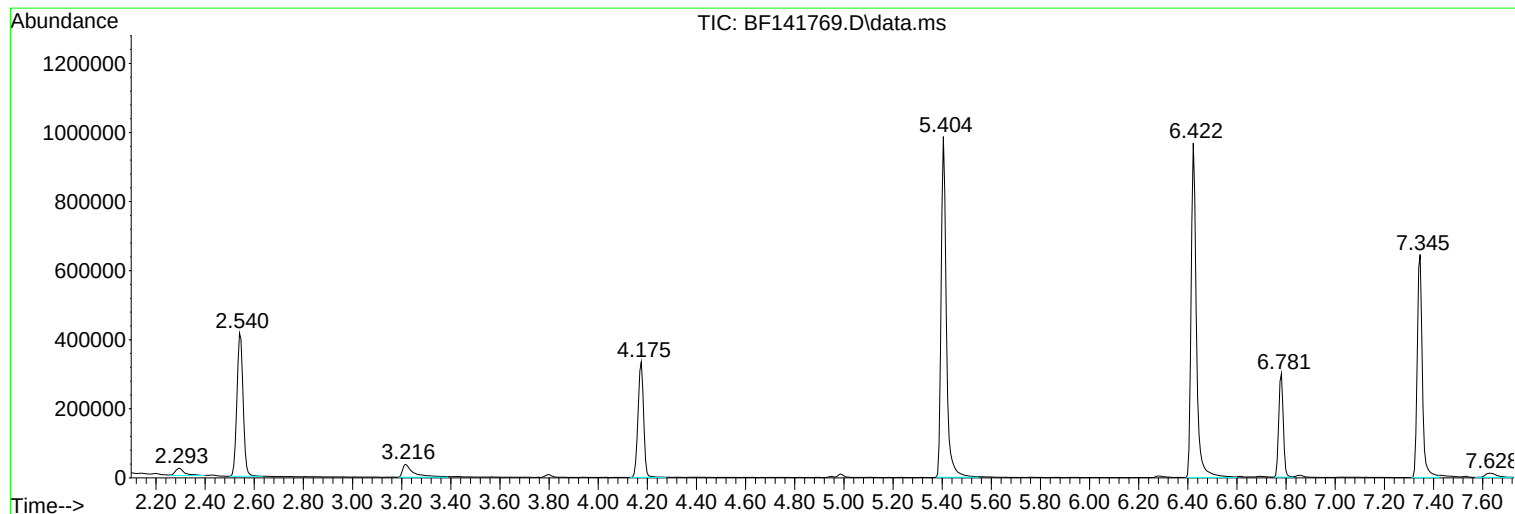
Sum of corrected areas: 12980777

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

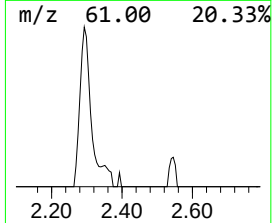
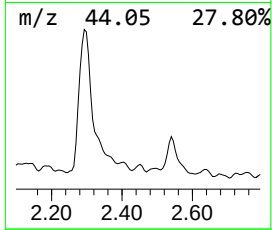
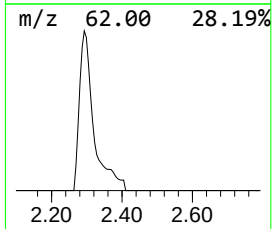
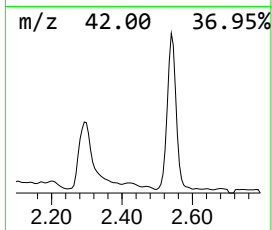
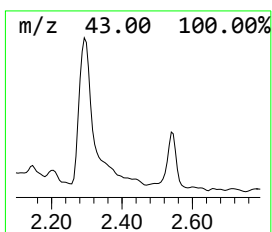
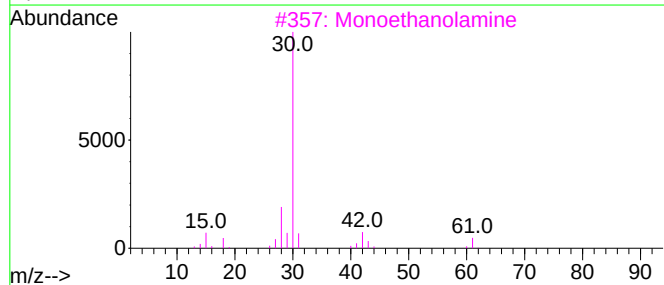
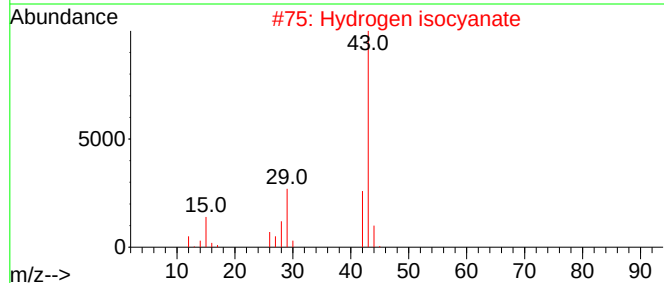
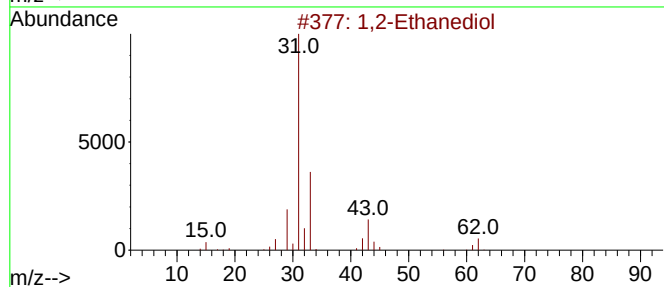
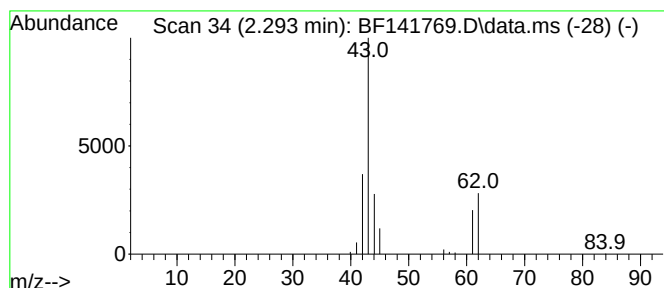
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown2.293 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.293	2.77 ng	53463	1,4-Dichlorobenzene-d4	6.781

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1,2-Ethanediol	62	C2H6O2	000107-21-1	7
2		Hydrogen isocyanate	43	CHNO	000075-13-8	3
3		Monoethanolamine	61	C2H7NO	000141-43-5	3
4		Peroxide, dimethyl	62	C2H6O2	000690-02-8	3
5		n-Propyl fluoride	62	C3H7F	000460-13-9	3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

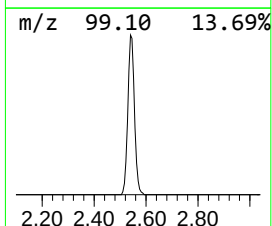
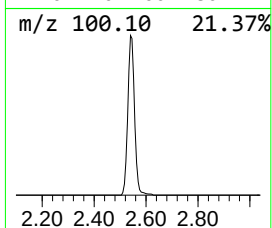
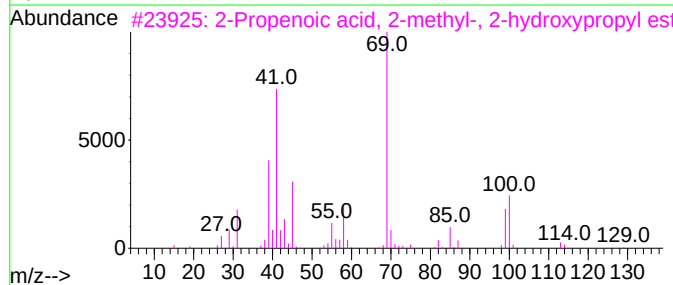
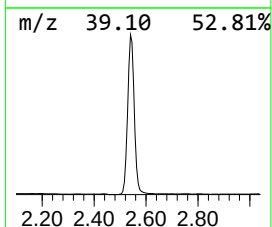
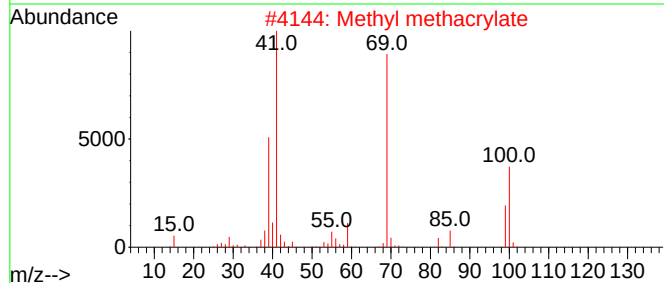
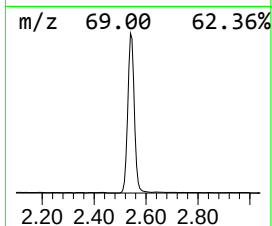
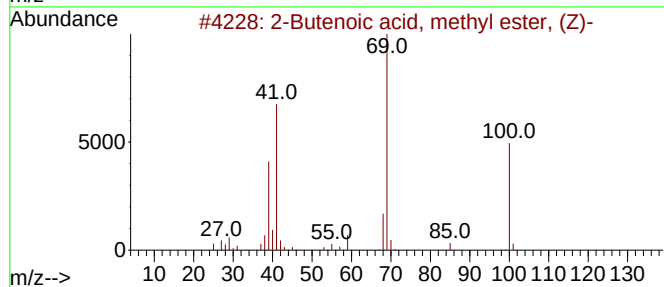
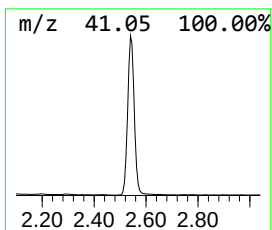
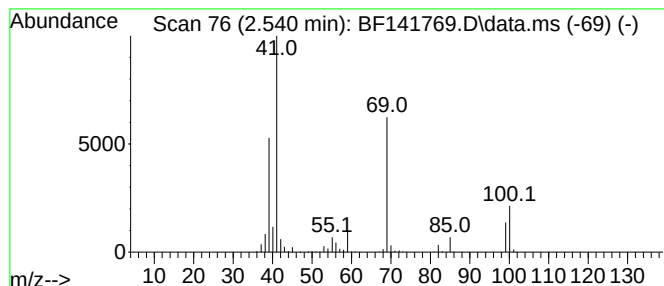
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 2-Butenoic acid, methyl est... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.540	37.51 ng	724892	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Butenoic acid, methyl ester, (Z)-	100	C5H8O2	004358-59-2	80
2			Methyl methacrylate	100	C5H8O2	000080-62-6	64
3			2-Propenoic acid, 2-methyl-, 2-h...	144	C7H12O3	000923-26-2	56
4			2-Butenoic acid, methyl ester, (E)-	100	C5H8O2	000623-43-8	47
5			2-Propenoic acid, 2-methyl-, 2-p...	124	C7H8O2	013861-22-8	32



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
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Instrument :
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ClientSampleId :
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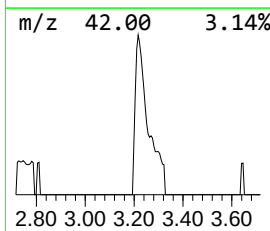
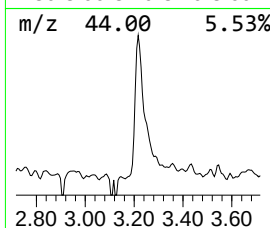
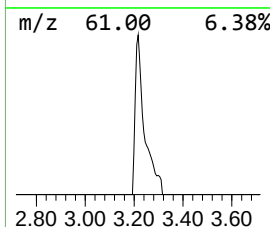
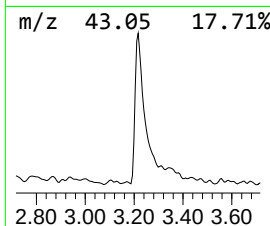
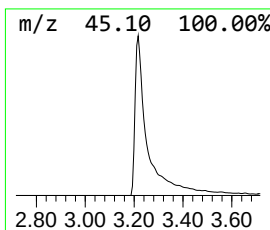
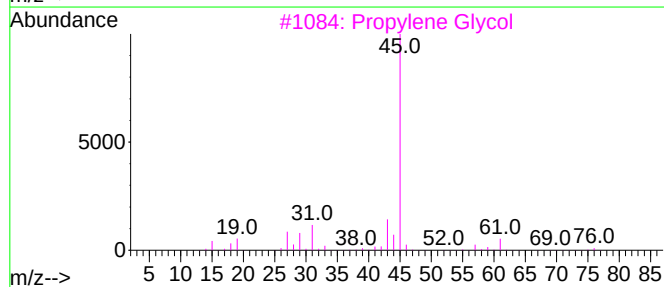
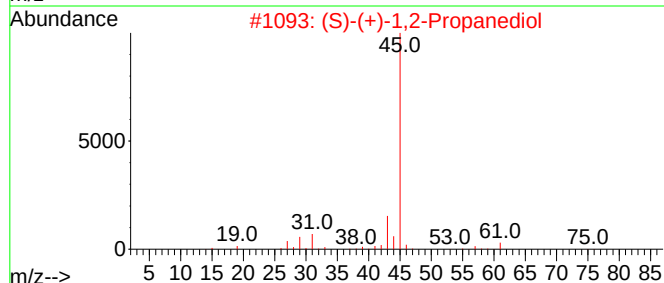
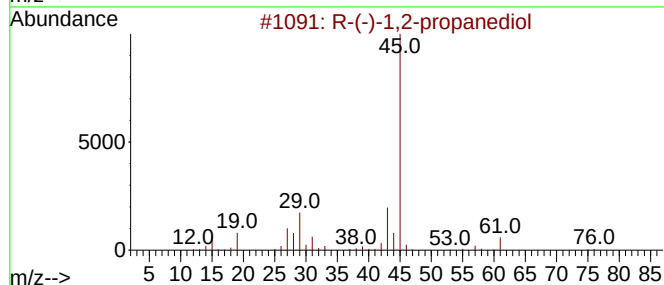
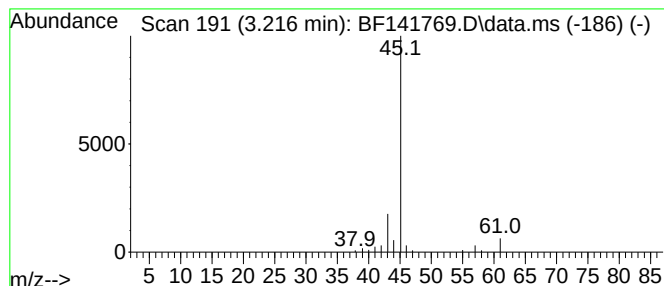
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 unknown3.216 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.216	6.15 ng	118915	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	R-(-)-1,2-propanediol			76	C3H8O2	004254-14-2	43
2	(S)-(+)-1,2-Propanediol			76	C3H8O2	004254-15-3	9
3	Propylene Glycol			76	C3H8O2	000057-55-6	9
4	Propanoic acid, 2-hydroxy-, meth...			104	C4H8O3	000547-64-8	9
5	L-Lactic acid			90	C3H6O3	000079-33-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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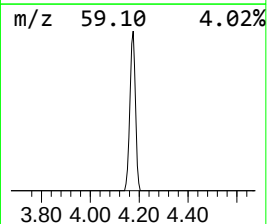
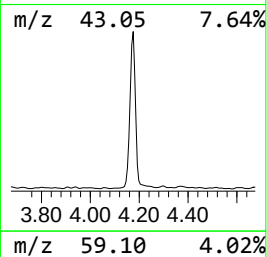
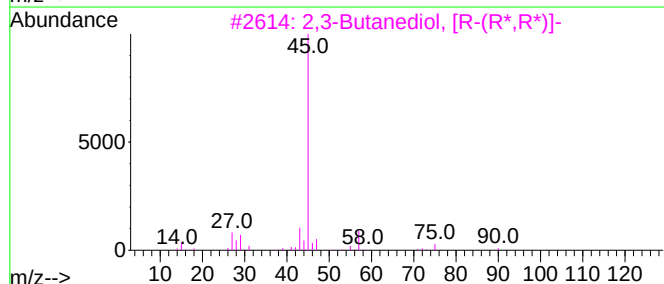
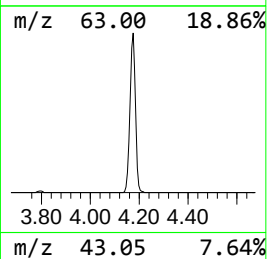
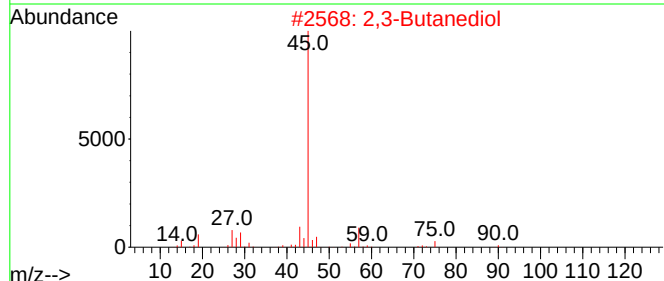
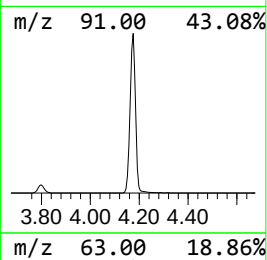
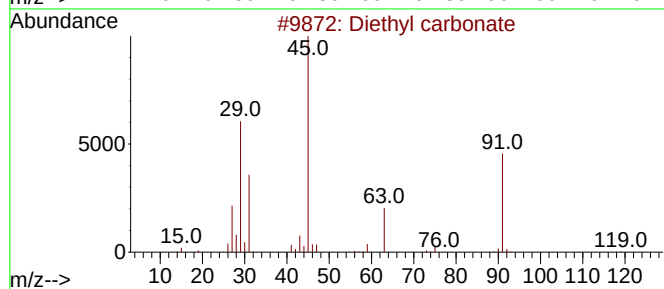
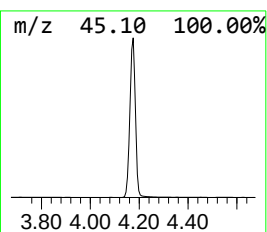
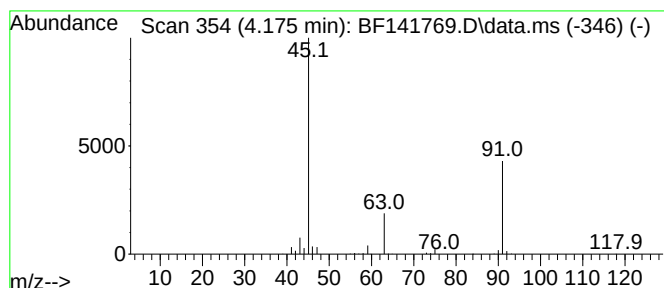
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Diethyl carbonate Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.175	27.27 ng	527025	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Diethyl carbonate	118	C5H10O3	000105-58-8	83
2			2,3-Butanediol	90	C4H10O2	000513-85-9	36
3			2,3-Butanediol, [R-(R*,R*)]-	90	C4H10O2	024347-58-8	9
4			Diethyl pyrocarbonate	162	C6H10O5	001609-47-8	9
5			Butane, 1-methoxy-	88	C5H12O	000628-28-4	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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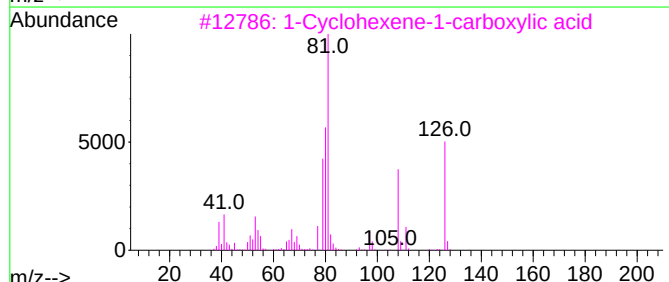
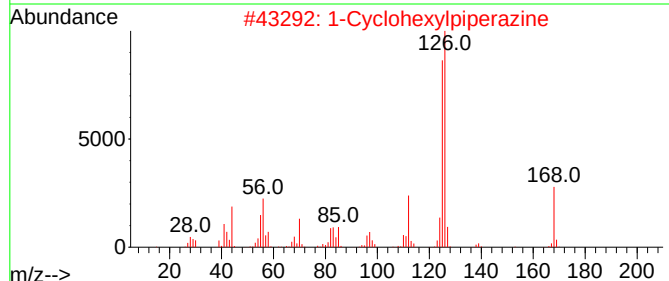
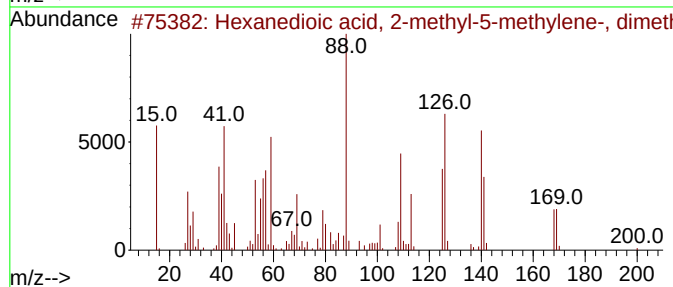
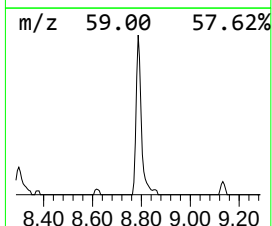
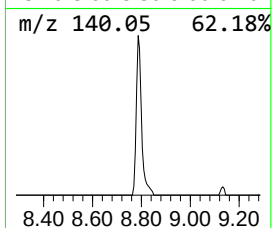
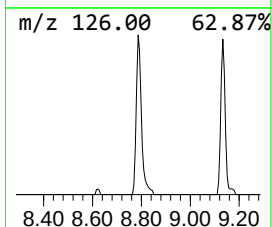
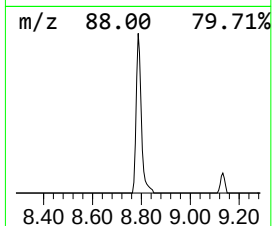
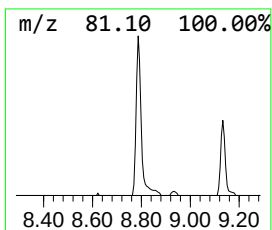
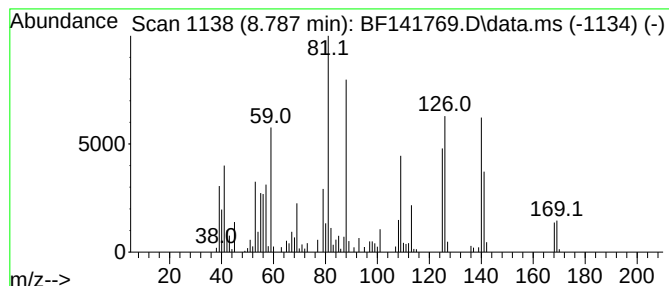
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Hexanedioic acid, 2-methyl-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.787	7.47 ng	179623	Naphthalene-d8	8.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexanedioic acid, 2-methyl-5-met...	200	C10H16O4	004513-62-6	58
2			1-Cyclohexylpiperazine	168	C10H20N2	1000484-48-8	15
3			1-Cyclohexene-1-carboxylic acid	126	C7H10O2	000636-82-8	14
4			1-Chlorosulfonyl-3-methyl-1-azas...	251	C9H14ClNO3S	016933-89-4	14
5			1-(4-Methylhexahydrocyclopenta[b...	182	C11H18O2	1000186-82-3	14



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
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Misc :
ALS Vial : 16 Sample Multiplier: 1

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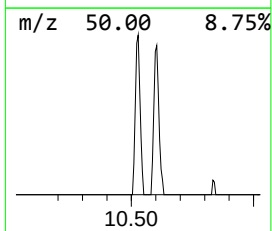
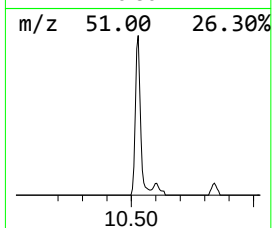
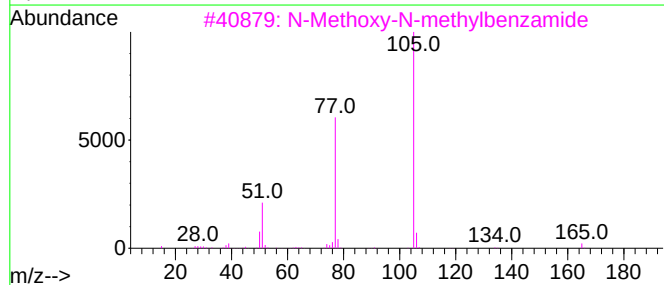
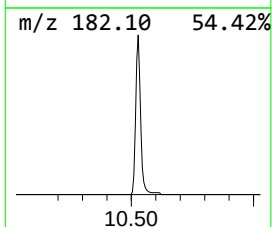
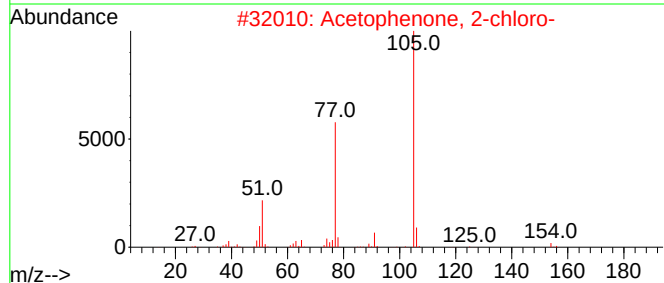
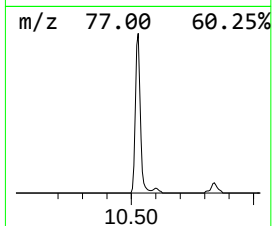
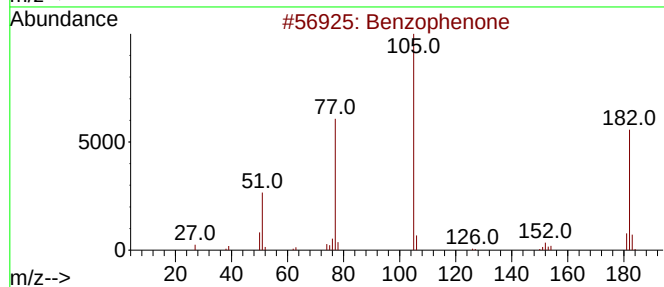
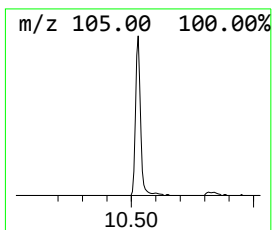
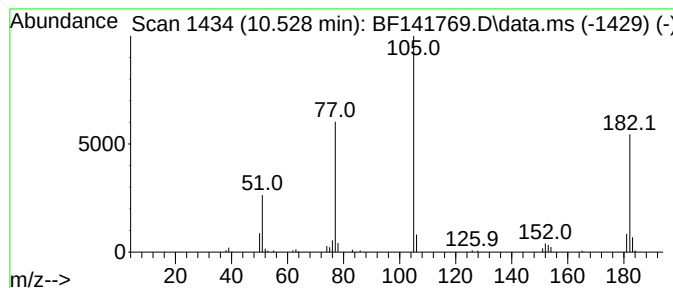
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Benzophenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.48 ng	107009	Acenaphthene-d10	9.816

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3			N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
4			Benzoyl isothiocyanate	163	C8H5NOS	000532-55-8	47
5			Benzeneacetic acid, .alpha.-oxo-...	178	C10H10O3	001603-79-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
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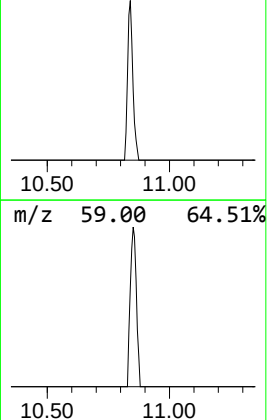
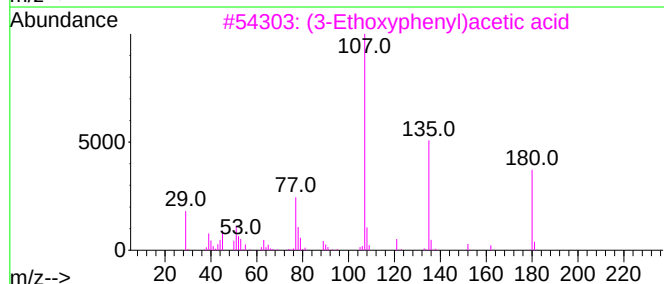
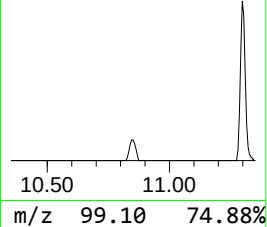
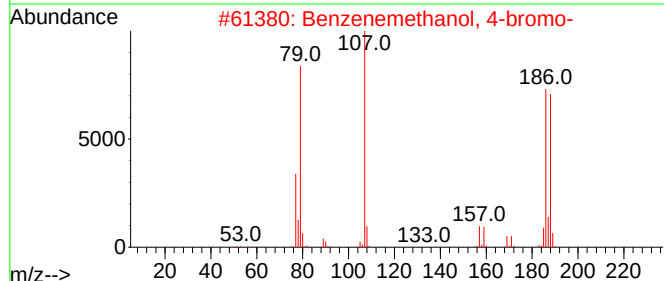
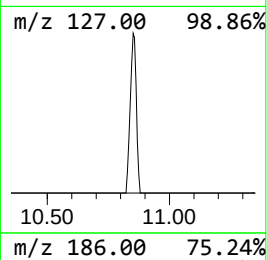
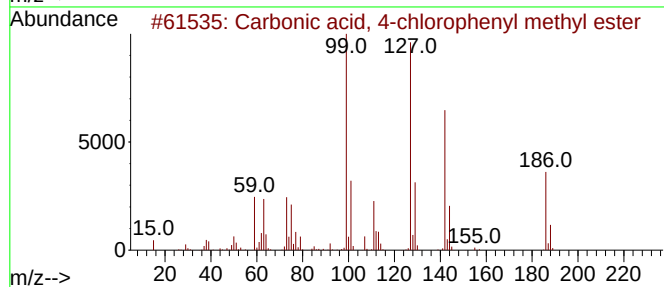
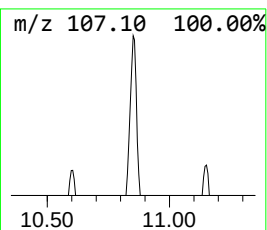
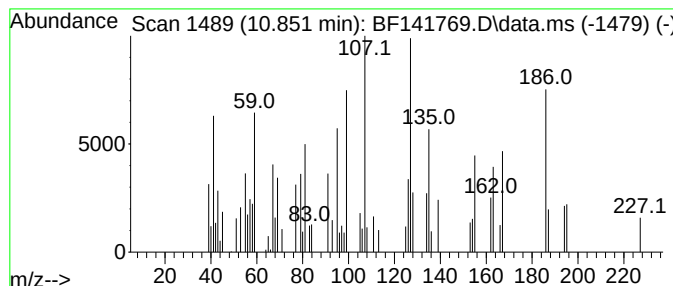
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 unknown10.851 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.851	2.56 ng	56107	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Carbonic acid, 4-chlorophenyl me...	186	C8H7ClO3	024260-28-4	35
2			Benzenemethanol, 4-bromo-	186	C7H7BrO	000873-75-6	10
3			(3-Ethoxyphenyl)acetic acid	180	C10H12O3	072775-83-8	10
4			Ethyl propylphosphonofluoridate	154	C5H12F02P	1000298-31-3	10
5			1,3-Cyclopentadiene, 1,3-bis(1-m...	150	C11H18	123278-27-3	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
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B-163-SB01

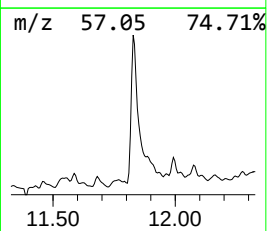
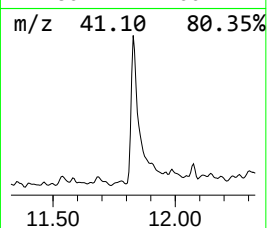
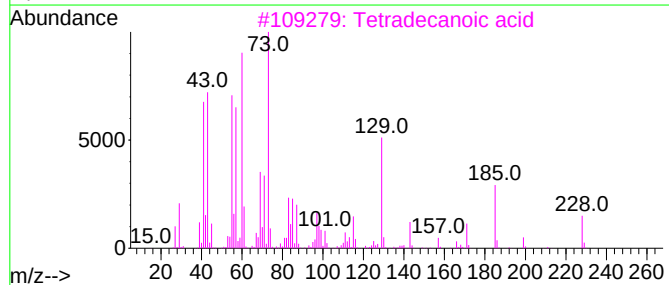
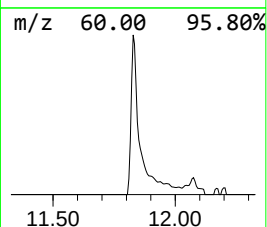
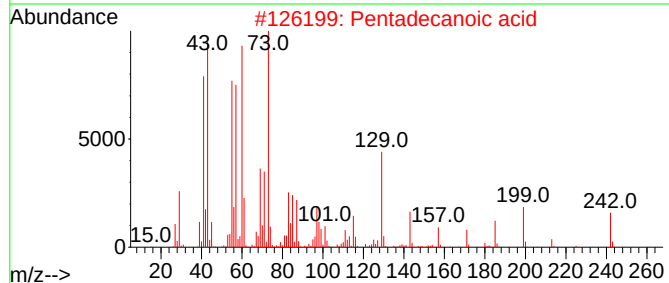
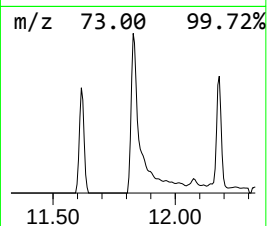
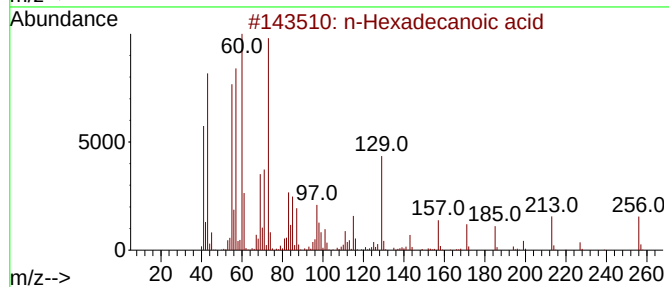
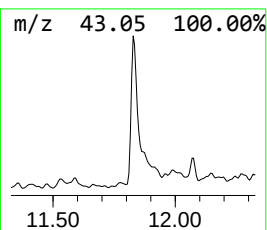
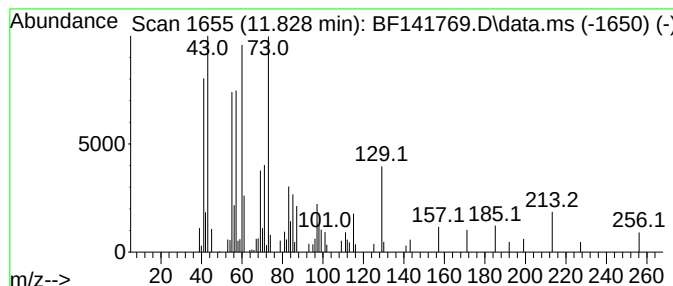
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.828	5.72 ng	125203	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4			Tridecanoic acid	214	C13H26O2	000638-53-9	86
5			Oxalic acid, allyl octadecyl ester	382	C23H42O4	1000309-24-5	11



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

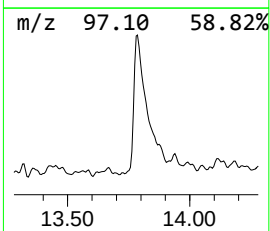
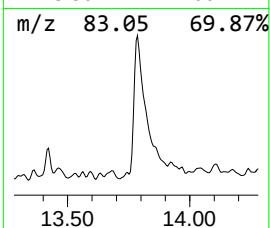
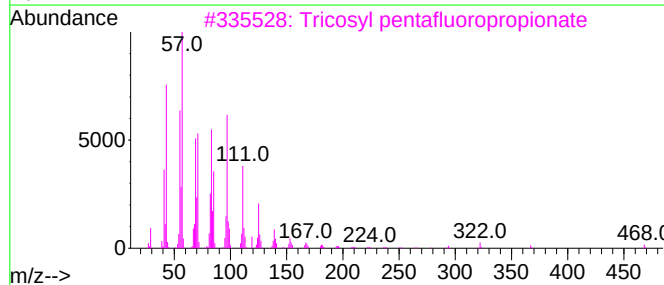
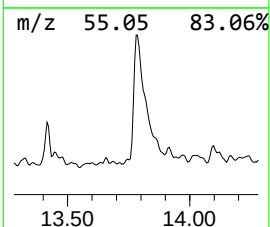
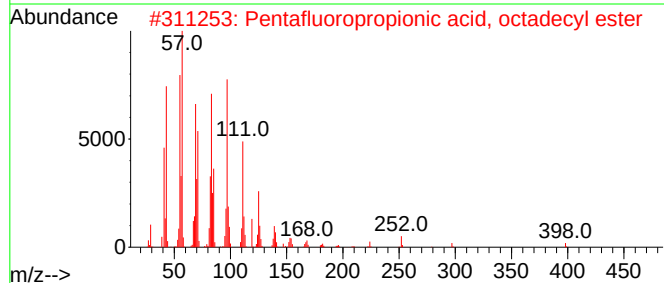
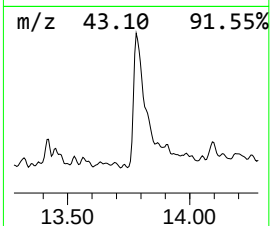
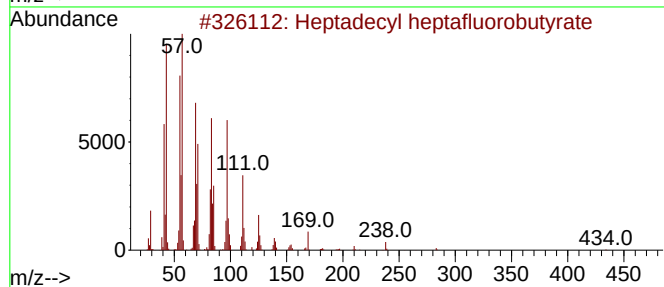
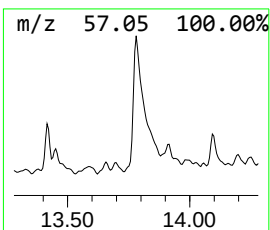
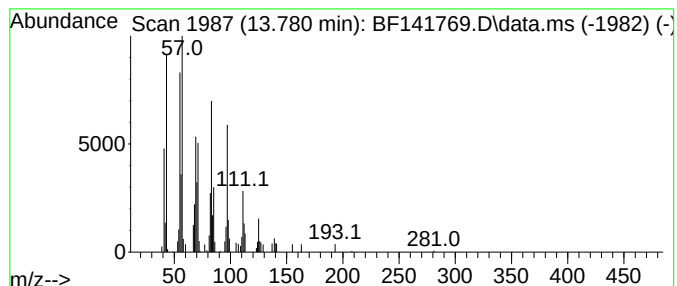
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Heptadecyl heptafluorobutyrate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.780	6.60 ng	137269	Chrysene-d12	13.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2			Pentafluoropropionic acid, octad...	416	C21H37F5O2	959261-25-7	91
3			Tricosyl pentafluoropropionate	486	C26H47F5O2	1000351-81-0	91
4			Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	91
5			Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

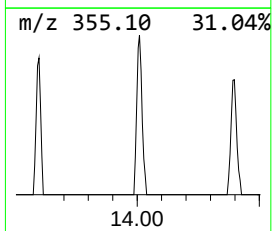
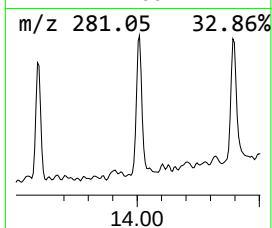
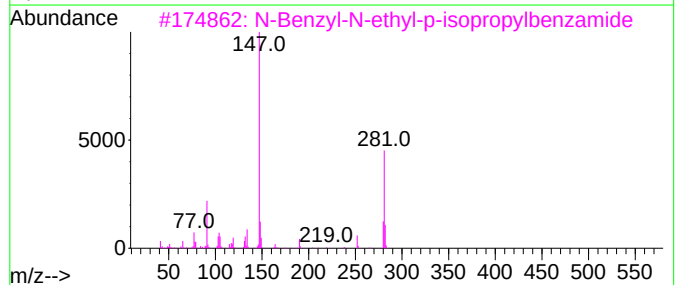
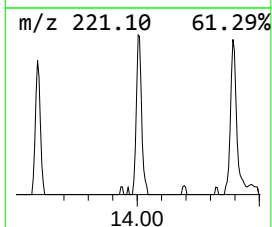
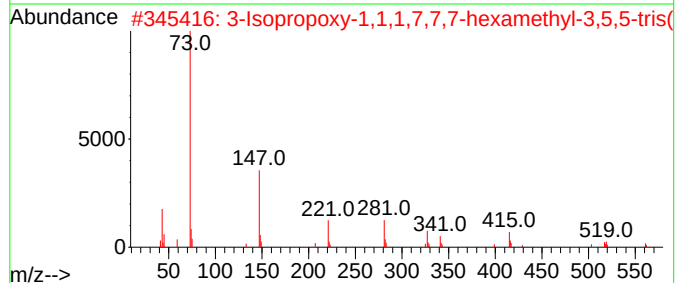
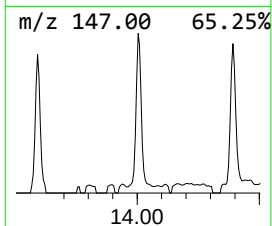
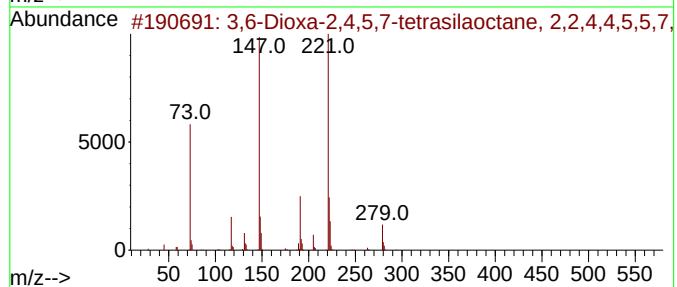
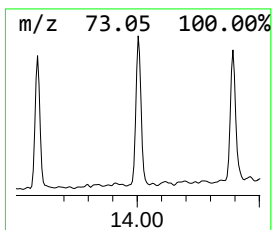
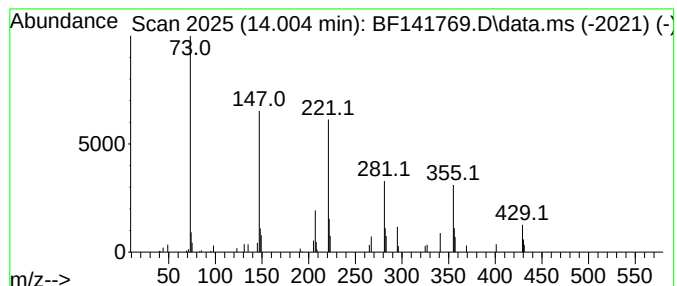
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 unknown14.004 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.004	2.13 ng	44363	Chrysene-d12	13.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	35
2			3-Isopropoxy-1,1,1,7,7,7-hexamet...	576	C18H52O7Si7	071579-69-6	32
3			N-Benzyl-N-ethyl-p-isopropylbenz...	281	C19H23NO	015089-22-2	27
4			Pentasiloxane, dodecamethyl-	384	C12H36O4Si5	000141-63-9	27
5			Mercaptoacetic acid, 2TMS deriva...	236	C8H20O2SSi2	006398-62-5	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
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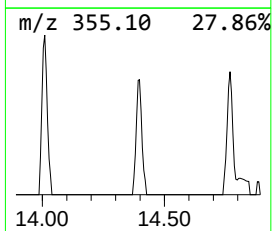
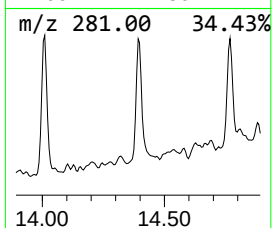
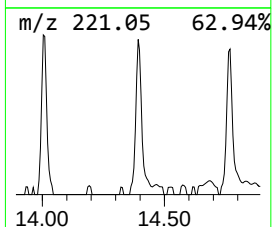
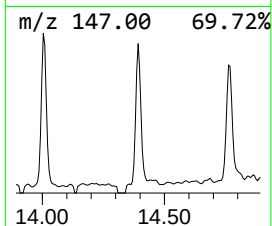
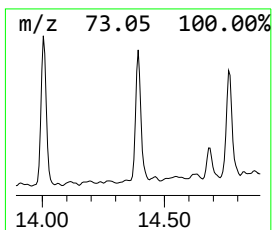
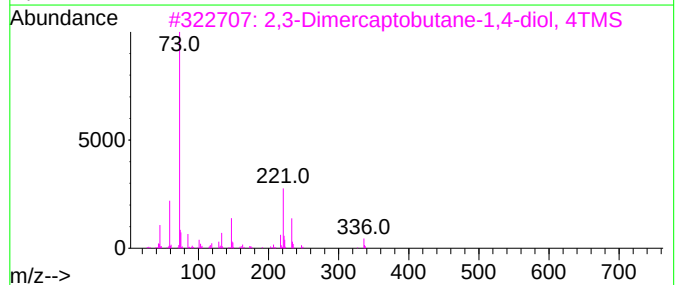
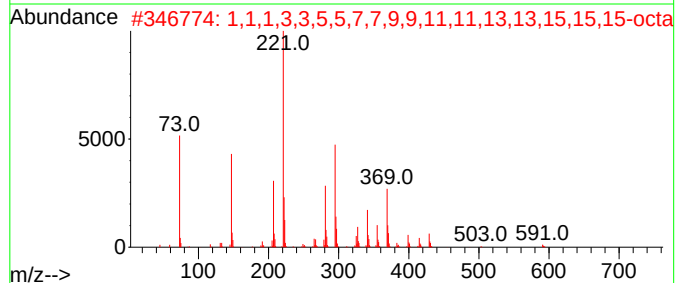
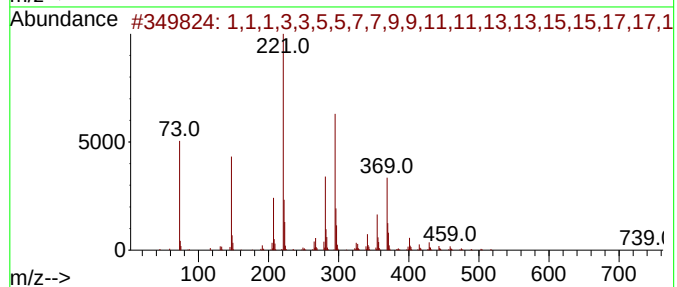
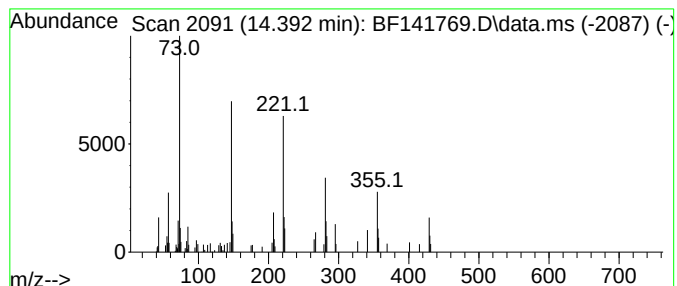
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ClientSampleId :
B-163-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 unknown14.392 Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
14.392	2.61 ng	54244	Chrysene-d12	13.939		
Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1,1,3,3,5,5,7,7,9,9,11,11,13,1...	754	C22H66O9Si10	000556-70-7	42	
2	1,1,1,3,3,5,5,7,7,9,9,11,11,13,1...	606	C18H54O7Si8	000556-69-4	40	
3	2,3-Dimercaptobutane-1,4-diol, 4TMS	442	C16H42O2S2Si4	959295-06-8	38	
4	3,6-Dioxa-2,4,5,7-tetrasilaoctan...	294	C10H30O2Si4	004342-25-0	32	
5	Mercaptoacetic acid, 2TMS deriva...	236	C8H20O2SSi2	006398-62-5	32	



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

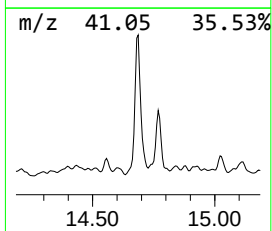
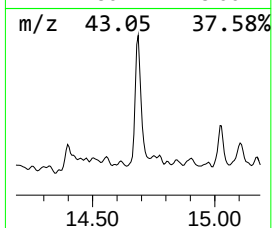
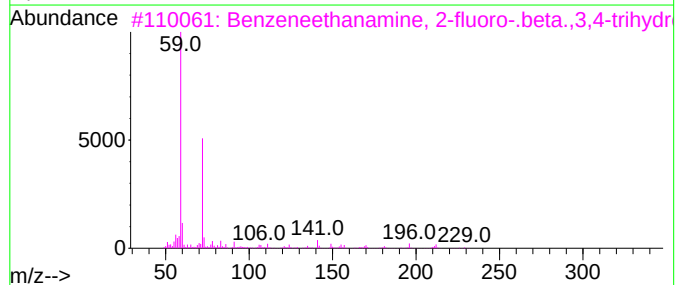
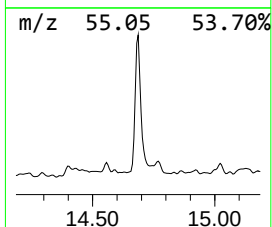
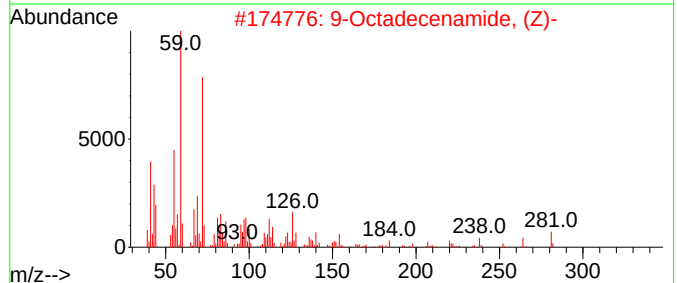
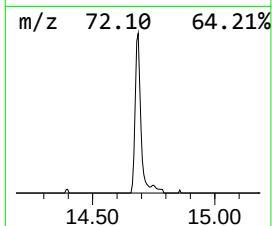
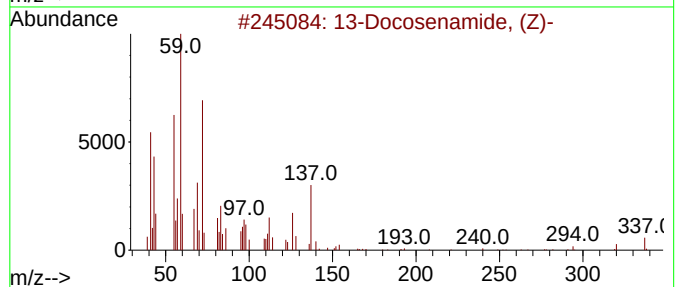
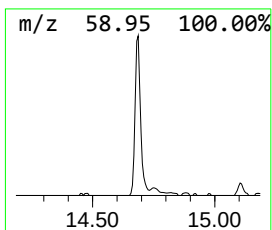
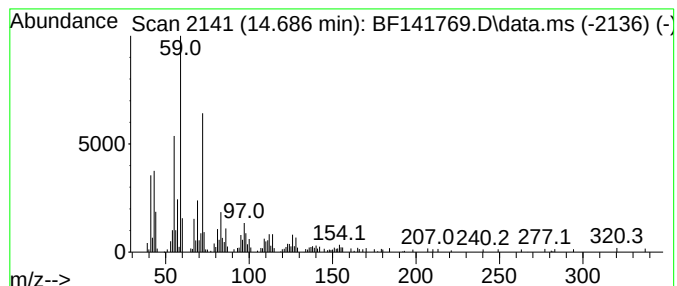
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 13-Docosenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	6.51 ng	153482	Perylene-d12	15.380

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		13-Docosenamide, (Z)-	337	C22H43NO	000112-84-5	93
2		9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	91
3		Benzeneethanamine, 2-fluoro-.bet...	229	C11H16FN03	061338-98-5	64
4		Heptanamide, 4-ethyl-5-methyl-	171	C10H21NO	054789-40-1	64
5		Palmitoleamide	253	C16H31NO	106010-22-4	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

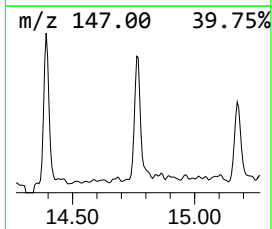
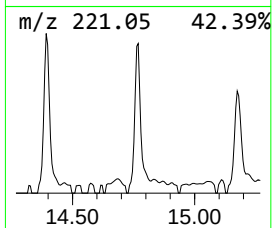
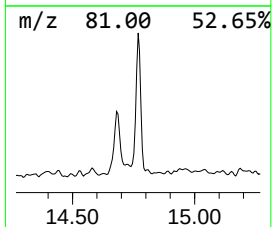
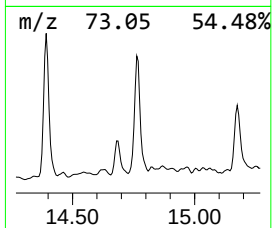
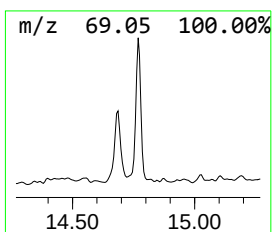
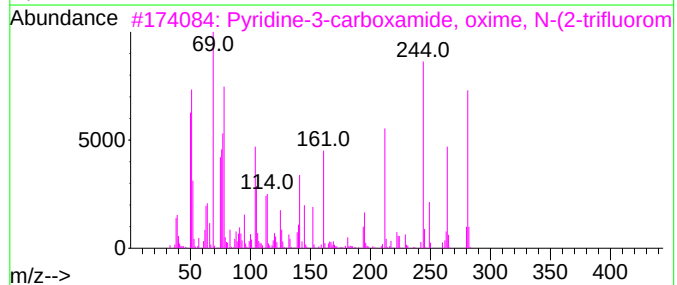
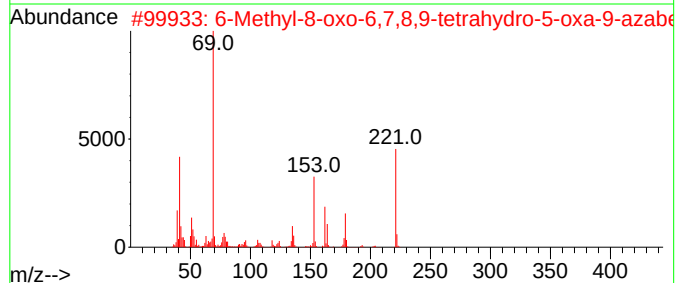
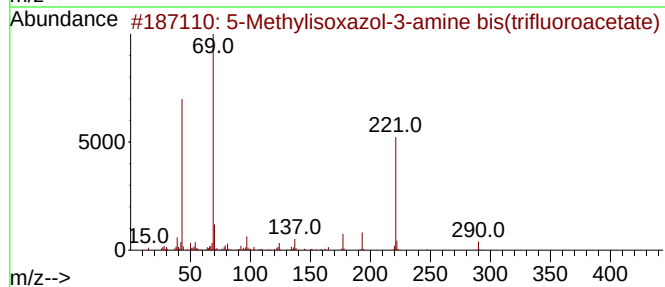
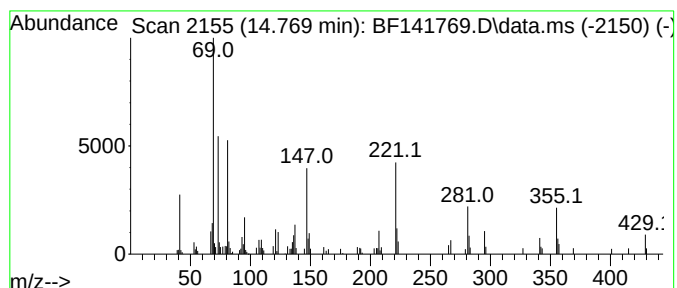
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 unknown14.769 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	3.30 ng	77876	Perylene-d12	15.380

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		5-Methylisoxazol-3-amine bis(tri...	290	C8H4F6N2O3	1000373-35-6	37
2		6-Methyl-8-oxo-6,7,8,9-tetrahydr...	221	C11H11NO4	134076-69-0	37
3		Pyridine-3-carboxamide, oxime, N...	281	C13H10F3N3O	288246-53-7	27
4		1-Bromo-11-iodoundecane	360	C11H22BrI	139123-69-6	27
5		2-Amino-4,6-dihydroxypyrimidine,...	415	C10H2F9N3O5	1000375-76-1	10



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141769.D
Acq On : 25 Feb 2025 17:34
Operator : RC/JU
Sample : Q1415-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB01

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
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2-Butenoic acid...	2.540	37.5	ng	724892	1	6.781	386466	20.0
unknown3.216	3.216	6.2	ng	118915	1	6.781	386466	20.0
Diethyl carbonate	4.175	27.3	ng	527025	1	6.781	386466	20.0
Hexanedioic aci...	8.787	7.5	ng	179623	2	8.063	481091	20.0
Benzophenone	10.528	4.5	ng	107009	3	9.816	477546	20.0
unknown10.851	10.851	2.6	ng	56107	4	11.298	438056	20.0
n-Hexadecanoic ...	11.828	5.7	ng	125203	4	11.298	438056	20.0
Heptadecyl hept...	13.780	6.6	ng	137269	5	13.939	415698	20.0
unknown14.004	14.004	2.1	ng	44363	5	13.939	415698	20.0
unknown14.392	14.392	2.6	ng	54244	5	13.939	415698	20.0
13-Docosenamide...	14.686	6.5	ng	153482	6	15.380	471646	20.0
unknown14.769	14.769	3.3	ng	77876	6	15.380	471646	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	02/22/25		
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	02/24/25		
Client Sample ID:	B-172-SB01			SDG No.:	Q1415		
Lab Sample ID:	Q1415-02			Matrix:	SOIL		
Analytical Method:	SW8270			% Solid:	86.6		
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000	uL	
Soil Aliquot Vol:			uL	Test:	SVOC-TCL BNA -20		
Extraction Type :		Decanted :	N	Level :	LOW		
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N	PH :	
Prep Method :	SW3541						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	95.4	U	95.4	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	96.4	U	96.4	200	ug/Kg
95-57-8	2-Chlorophenol	96.1	U	96.1	200	ug/Kg
95-48-7	2-Methylphenol	92.8	U	92.8	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	91.9	U	91.9	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.4	U	46.4	92.1	ug/Kg
67-72-1	Hexachloroethane	95.6	U	95.6	200	ug/Kg
98-95-3	Nitrobenzene	100	U	100	200	ug/Kg
78-59-1	Isophorone	97.4	U	97.4	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	98.8	U	98.8	200	ug/Kg
120-83-2	2,4-Dichlorophenol	86.9	U	86.9	200	ug/Kg
91-20-3	Naphthalene	95.1	U	95.1	200	ug/Kg
106-47-8	4-Chloroaniline	95.1	UQ	95.1	200	ug/Kg
87-68-3	Hexachlorobutadiene	95.9	U	95.9	200	ug/Kg
105-60-2	Caprolactam	99.9	U	99.9	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.2	U	89.2	200	ug/Kg
91-57-6	2-Methylnaphthalene	95.0	U	95.0	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	U	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	82.2	U	82.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	85.2	U	85.2	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	95.9	U	95.9	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	94.1	U	94.1	200	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	99.6	U	99.6	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	95.8	U	95.8	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	93.4	U	93.4	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	97.2	U	97.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.2	U	99.2	200	ug/Kg
84-66-2	Diethylphthalate	92.2	U	92.2	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	98.5	U	98.5	200	ug/Kg
86-73-7	Fluorene	98.4	U	98.4	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.9	U	93.9	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	90.8	U	90.8	200	ug/Kg
118-74-1	Hexachlorobenzene	97.9	U	97.9	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	89.0	U	89.0	380	ug/Kg
85-01-8	Phenanthrene	96.7	U	96.7	200	ug/Kg
120-12-7	Anthracene	97.2	U	97.2	200	ug/Kg
86-74-8	Carbazole	92.4	U	92.4	200	ug/Kg
84-74-2	Di-n-butylphthalate	97.1	U	97.1	200	ug/Kg
206-44-0	Fluoranthene	94.1	U	94.1	200	ug/Kg
129-00-0	Pyrene	95.6	U	95.6	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	92.9	U	92.9	200	ug/Kg
218-01-9	Chrysene	91.5	U	91.5	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	93.4	U	93.4	200	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	95.1	U	95.1	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	89.9	U	89.9	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	93.5	U	93.5	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.2	U	92.2	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	99.9	U	99.9	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.0	U	86.0	200	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	91.6		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.9		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.5		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	79.7		30 (10) - 130 (116)	53%	SPK: 150
1718-51-0	Terphenyl-d14	60.8		30 (10) - 130 (105)	61%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	68700	6.781
1146-65-2	Naphthalene-d8	275000	8.063
15067-26-2	Acenaphthene-d10	147000	9.81
1517-22-2	Phenanthrene-d10	243000	11.298
1719-03-5	Chrysene-d12	170000	13.939
1520-96-3	Perylene-d12	177000	15.386

TENTATIVE IDENTIFIED COMPOUNDS

000119-61-9	Benzophenone	170	J	10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	100	J	11.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	220	J	13.8	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	91.0	J	14.7	ug/Kg
007683-64-9	Supraene	110	J	14.8	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB01	SDG No.:	Q1415
Lab Sample ID:	Q1415-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.6
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141768.D	1	02/25/25 09:30	02/25/25 17:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Time: Feb 25 17:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	68668	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	275032	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	146934	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	243302	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	170277	20.000	ng	-0.02
86) Perylene-d12	15.386	264	176972	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	401011	91.554	ng	0.00
7) Phenol-d6	6.422	99	499893	90.298	ng	-0.02
23) Nitrobenzene-d5	7.345	82	326302	61.881	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	117690	79.735	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	624642	65.495	ng	-0.02
79) Terphenyl-d14	12.880	244	613407	60.815	ng	-0.02

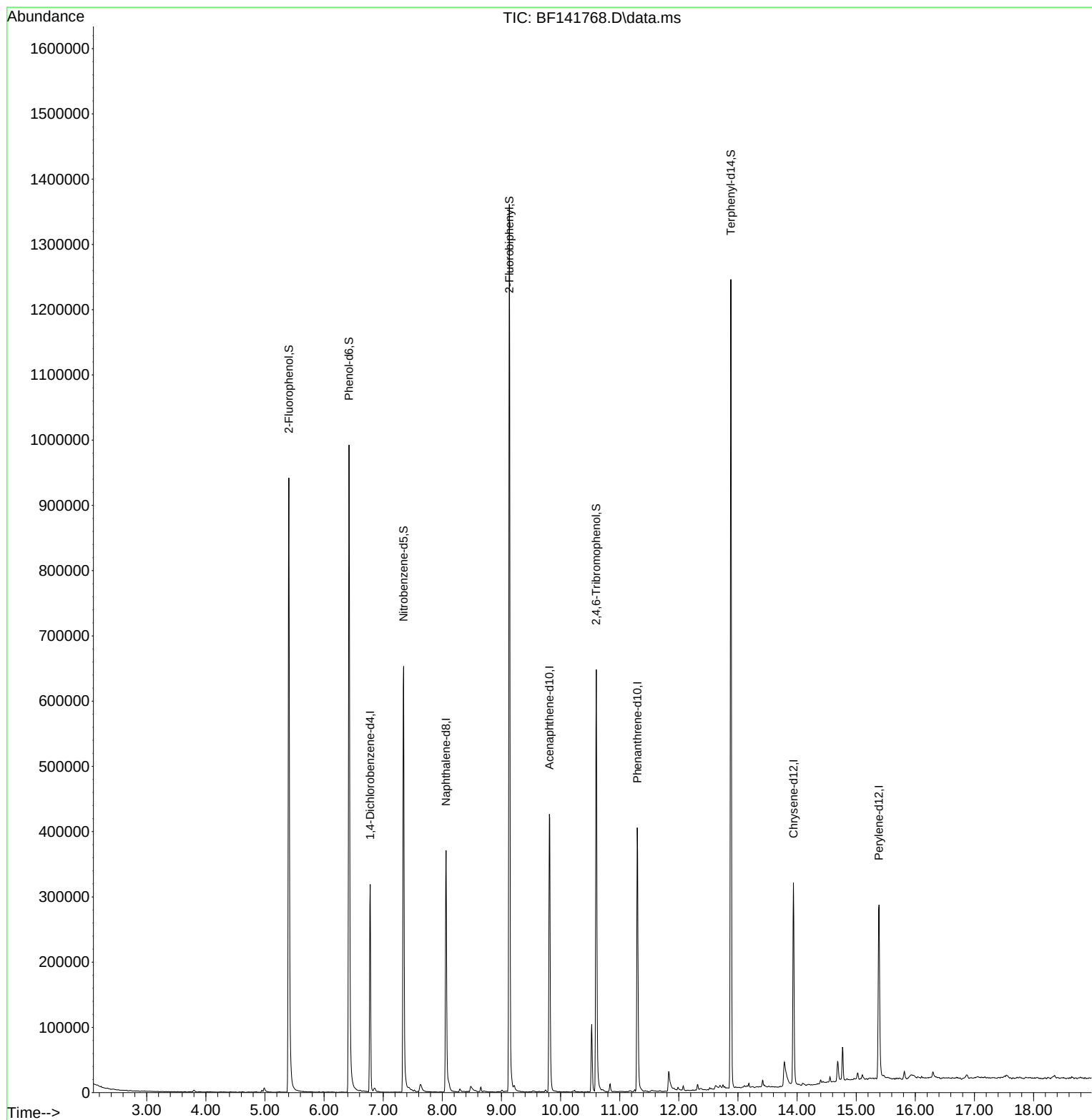
Target Compounds	Qvalue

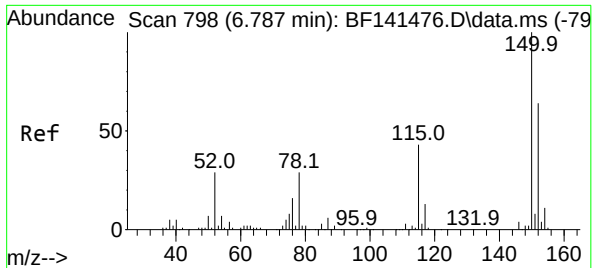
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Time: Feb 25 17:26:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

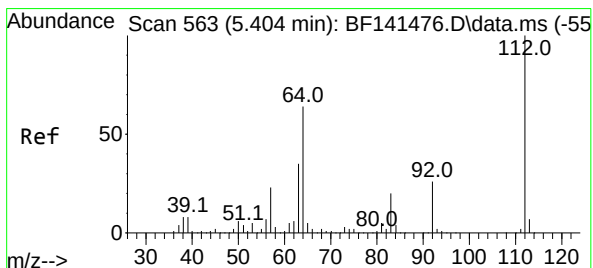
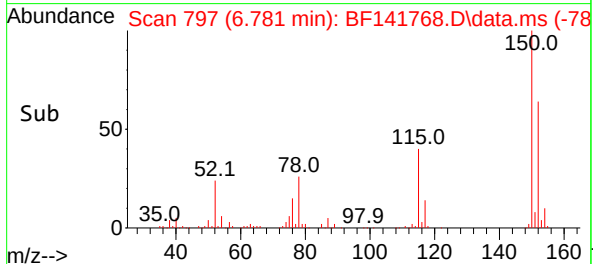
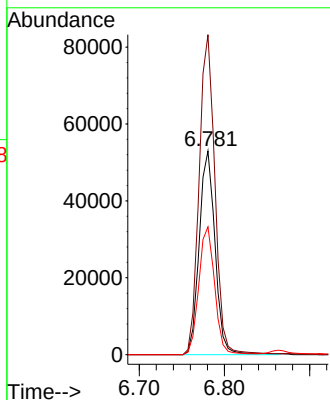
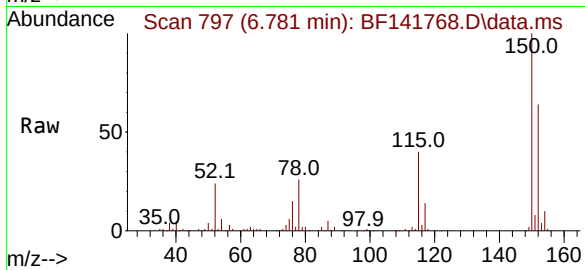




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

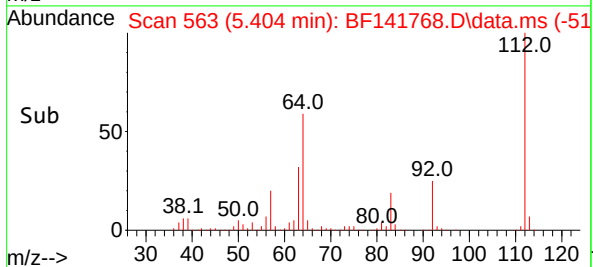
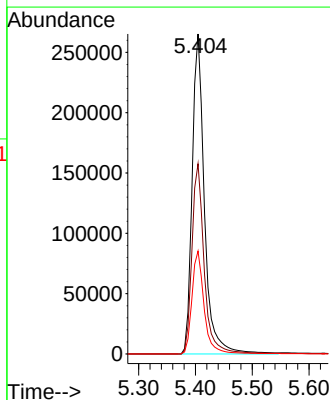
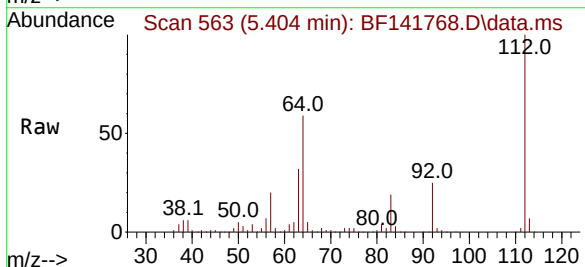
Instrument :
BNA_F
ClientSampleId :
B-172-SB01

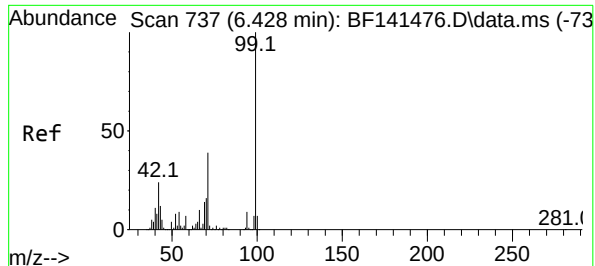
Tgt Ion:152 Resp: 68668
Ion Ratio Lower Upper
152 100
150 157.1 125.0 187.4
115 62.8 53.6 80.4



#5
2-Fluorophenol
Concen: 91.554 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:112 Resp: 401011
Ion Ratio Lower Upper
112 100
64 59.4 51.1 76.7
63 32.2 28.4 42.6

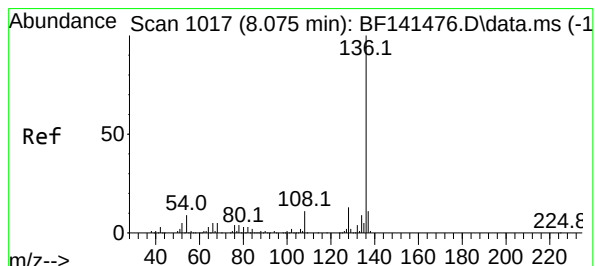
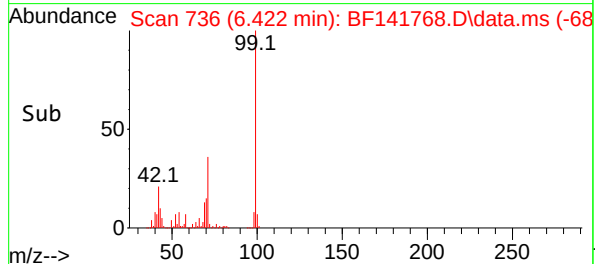
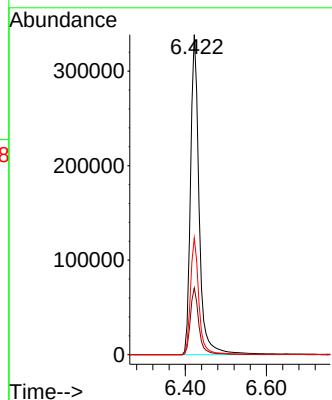
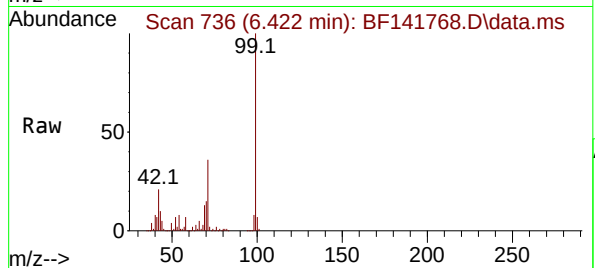




#7
Phenol-d6
Concen: 90.298 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

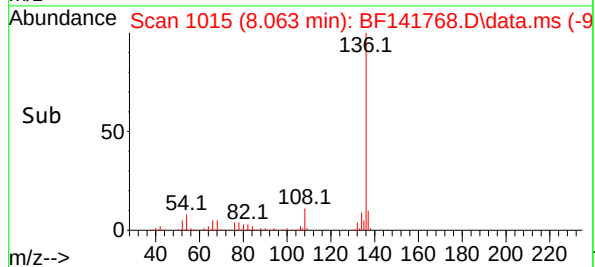
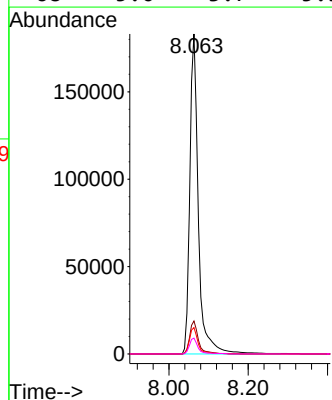
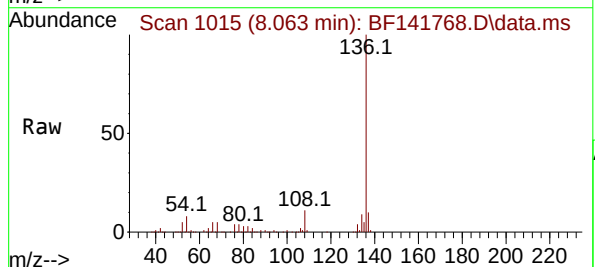
Instrument :
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ClientSampleId :
B-172-SB01

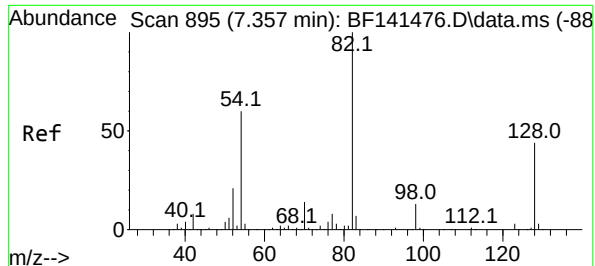
Tgt Ion: 99 Resp: 499893
Ion Ratio Lower Upper
99 100
42 20.9 19.1 28.7
71 36.5 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion: 136 Resp: 275032
Ion Ratio Lower Upper
136 100
137 10.3 8.6 13.0
54 8.2 7.2 10.8
68 5.0 3.7 5.5





#23

Nitrobenzene-d5

Concen: 61.881 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141768.D

Acq: 25 Feb 2025 17:05

Instrument :

BNA_F

ClientSampleId :

B-172-SB01

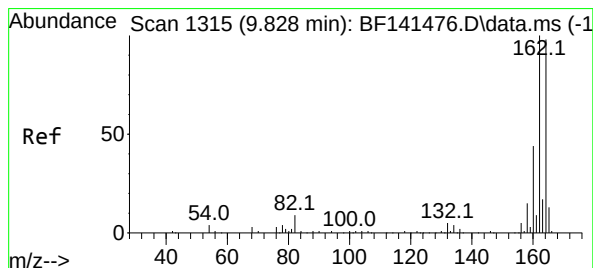
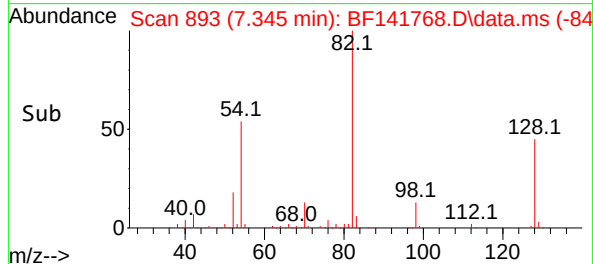
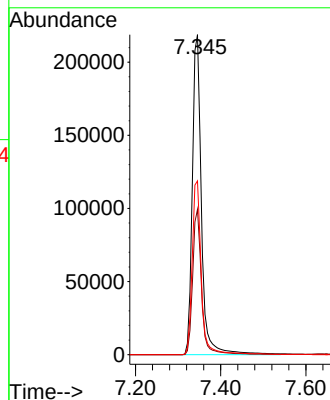
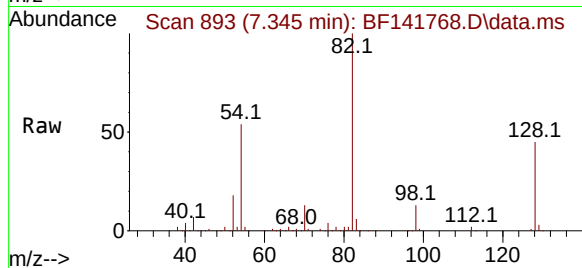
Tgt Ion: 82 Resp: 326302

Ion Ratio Lower Upper

82 100

128 45.4 34.8 52.2

54 54.3 48.2 72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 1312

Delta R.T. -0.023 min

Lab File: BF141768.D

Acq: 25 Feb 2025 17:05

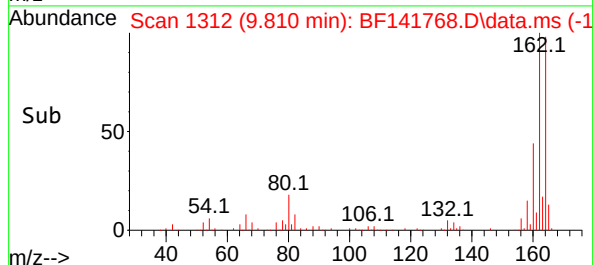
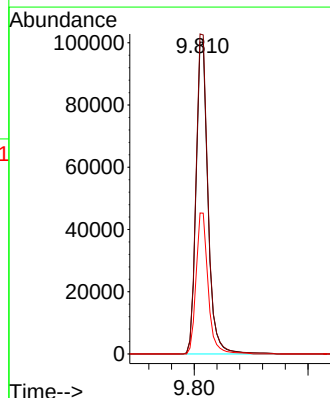
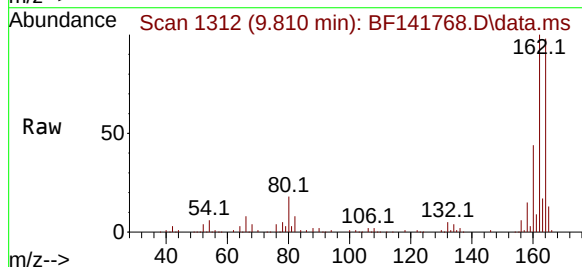
Tgt Ion:164 Resp: 146934

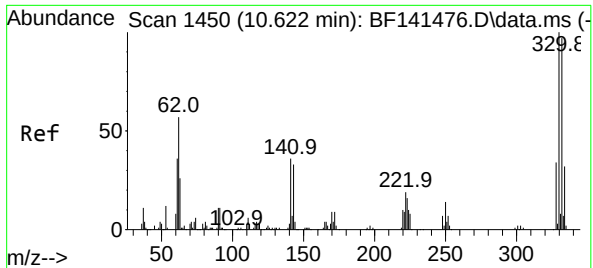
Ion Ratio Lower Upper

164 100

162 102.6 81.3 121.9

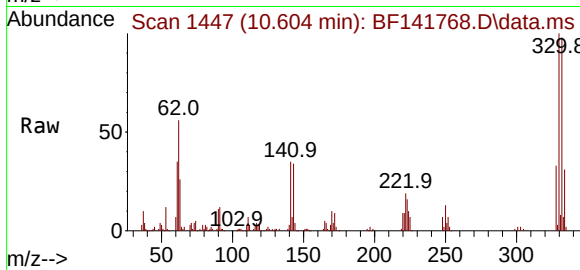
160 45.2 35.9 53.9



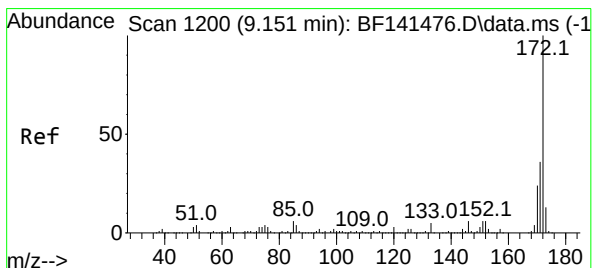
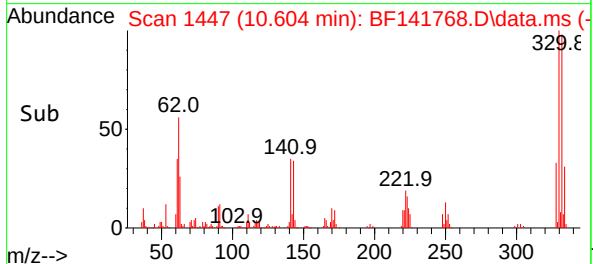
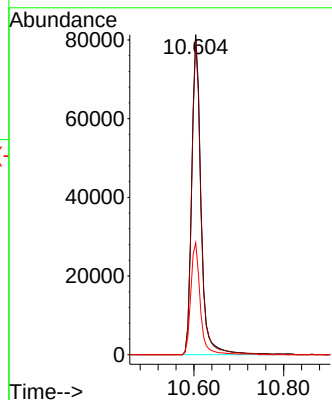


#42
2,4,6-Tribromophenol
Concen: 79.735 ng
RT: 10.604 min Scan# 1447
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

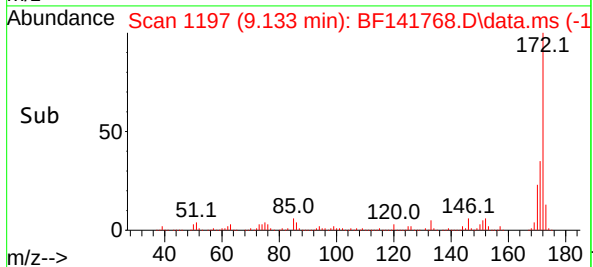
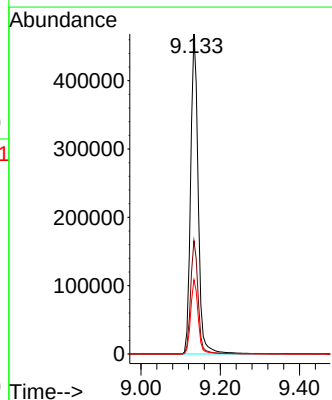
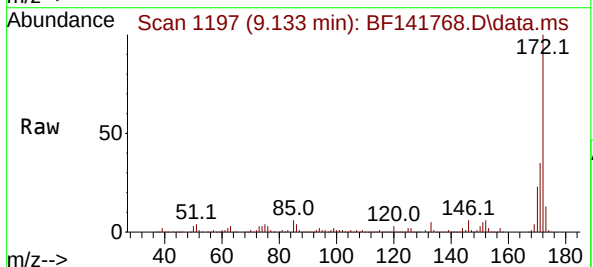


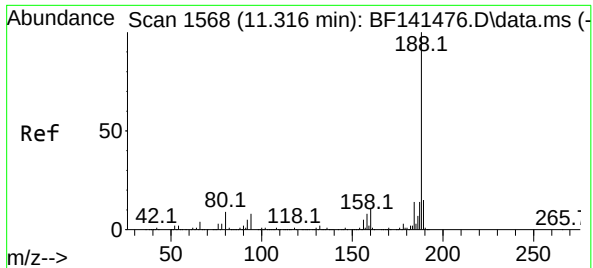
Tgt Ion: 330 Resp: 117690
Ion Ratio Lower Upper
330 100
332 97.1 78.5 117.7
141 35.2 31.0 46.4



#45
2-Fluorobiphenyl
Concen: 65.495 ng
RT: 9.133 min Scan# 1197
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion: 172 Resp: 624642
Ion Ratio Lower Upper
172 100
171 35.4 28.7 43.1
170 23.2 18.9 28.3

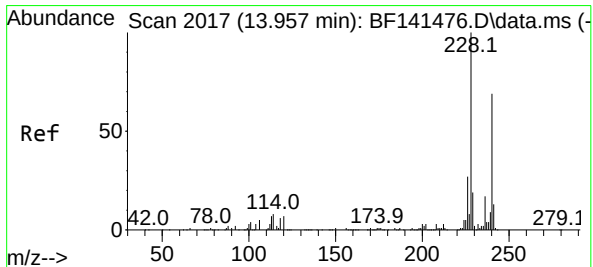
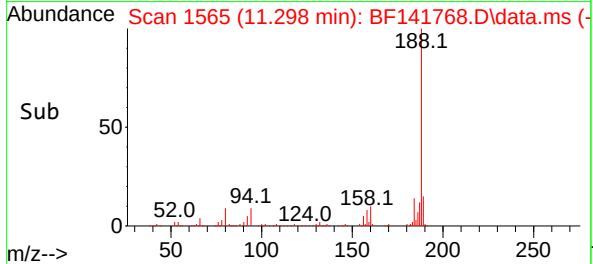
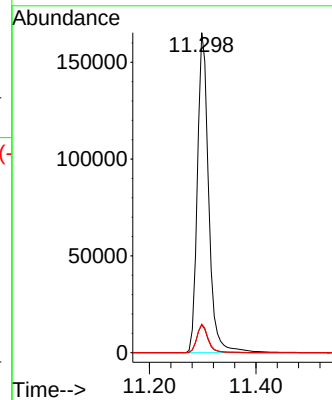
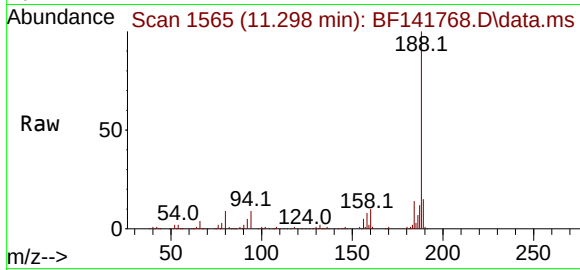




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

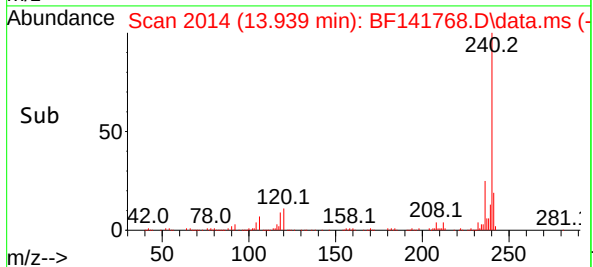
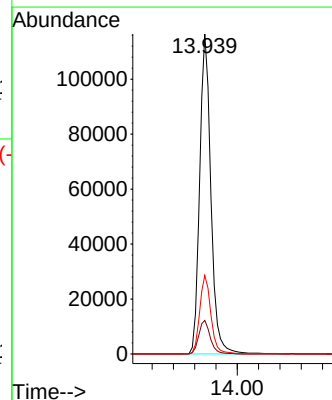
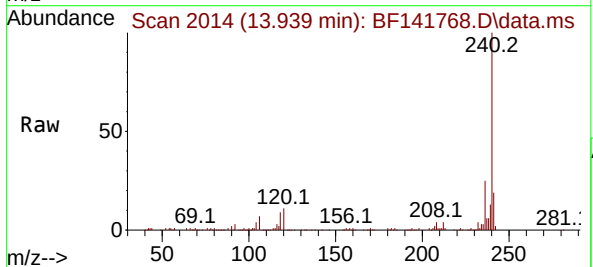
Instrument :
BNA_F
ClientSampleId :
B-172-SB01

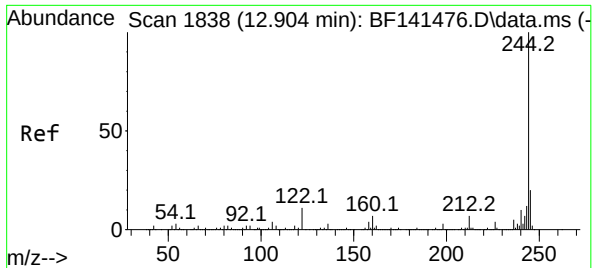
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.6	10.0
80	8.9	7.3	10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.0	12.0
236	24.6	19.8	29.8

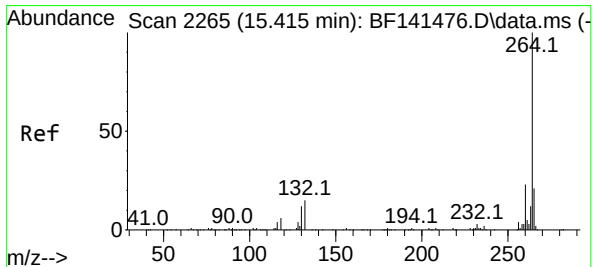
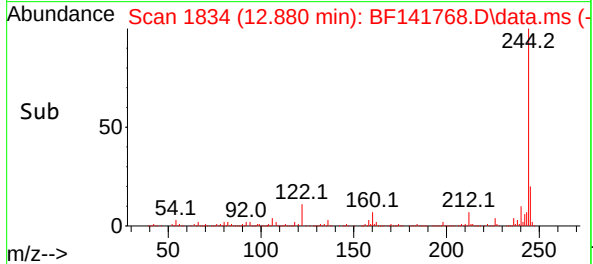
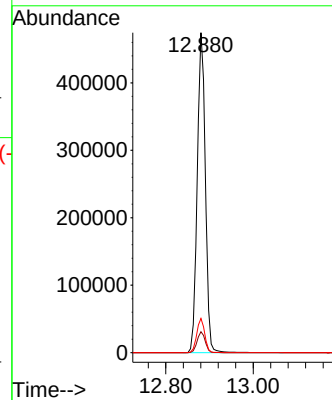
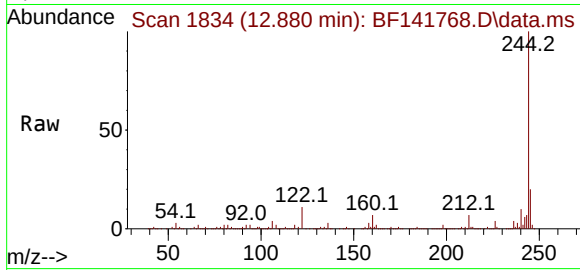




#79
Terphenyl-d14
Concen: 60.815 ng
RT: 12.880 min Scan# 1834
Delta R.T. -0.023 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

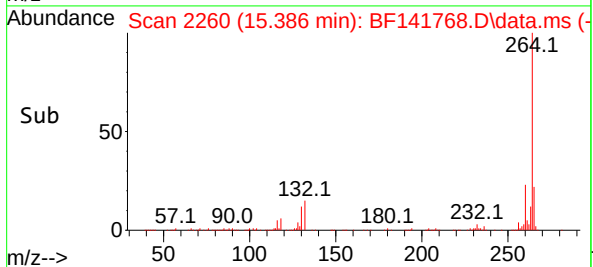
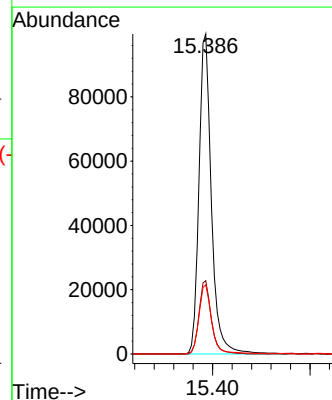
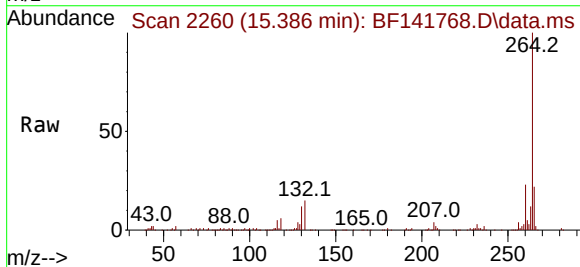
Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Tgt Ion:244 Resp: 613407
Ion Ratio Lower Upper
244 100
212 6.6 5.6 8.4
122 10.7 8.4 12.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141768.D
Acq: 25 Feb 2025 17:05

Tgt Ion:264 Resp: 176972
Ion Ratio Lower Upper
264 100
260 22.9 18.6 28.0
265 21.6 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141768.D
 Acq On : 25 Feb 2025 17:05
 Operator : RC/JU
 Sample : Q1415-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-172-SB01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141768.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.404	557	563	598	rBV	941337	1427427	80.63%	12.145%
2	6.422	731	736	764	rBV	991750	1471761	83.13%	12.523%
3	6.781	792	797	805	rBV	317735	405837	22.92%	3.453%
4	7.345	887	893	906	rBV	652805	946717	53.47%	8.055%
5	7.634	936	942	953	rBV3	11059	31933	1.80%	0.272%
6	8.063	1009	1015	1033	rBV	369801	550525	31.10%	4.684%
7	8.481	1082	1086	1098	rBV3	8399	24800	1.40%	0.211%
8	9.133	1192	1197	1208	rBV	1359640	1770410	100.00%	15.064%
9	9.810	1307	1312	1329	rBV	425601	617243	34.86%	5.252%
10	10.527	1429	1434	1442	rBV	103388	140017	7.91%	1.191%
11	10.604	1442	1447	1462	rVV	645977	917780	51.84%	7.809%
12	11.298	1560	1565	1580	rBV	403529	583845	32.98%	4.968%
13	11.827	1650	1655	1668	rBV3	30194	76759	4.34%	0.653%
14	12.880	1828	1834	1845	rBV	1239544	1593138	89.99%	13.555%
15	13.786	1982	1988	2007	rBV2	36371	125611	7.10%	1.069%
16	13.939	2009	2014	2024	rVB	309103	446567	25.22%	3.800%
17	14.686	2136	2141	2149	rBV2	30298	56704	3.20%	0.482%
18	14.768	2151	2155	2161	rVB	50506	68914	3.89%	0.586%
19	15.386	2253	2260	2272	rBV	266770	478589	27.03%	4.072%
20	15.815	2329	2333	2340	rVB3	11567	18335	1.04%	0.156%

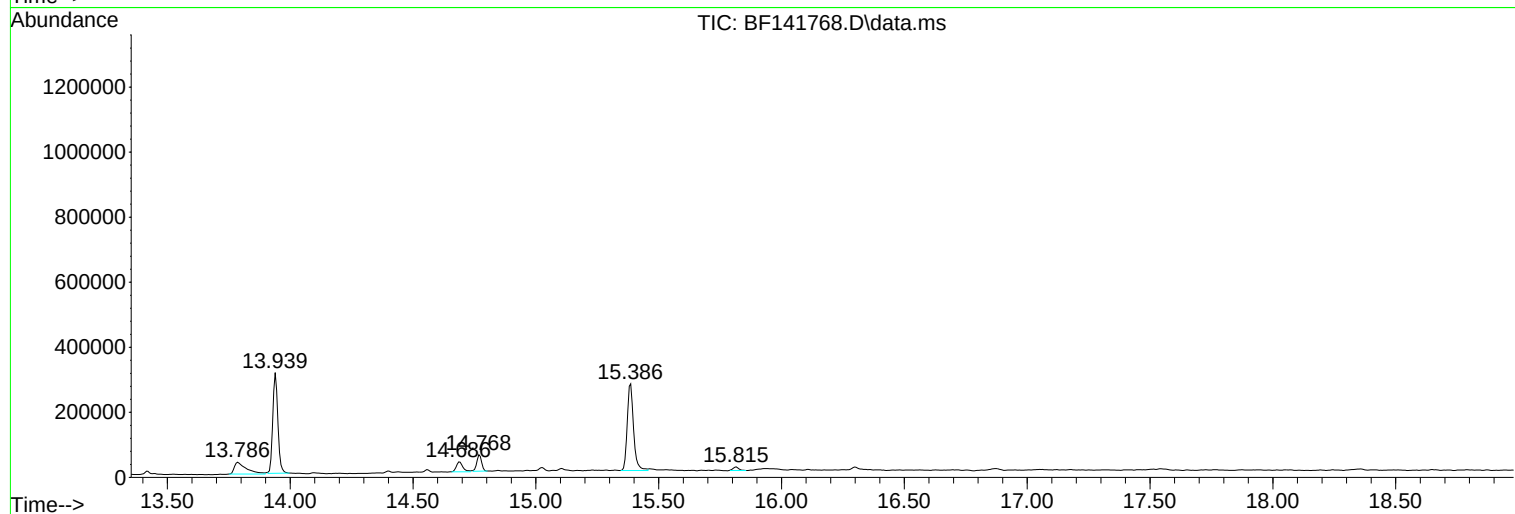
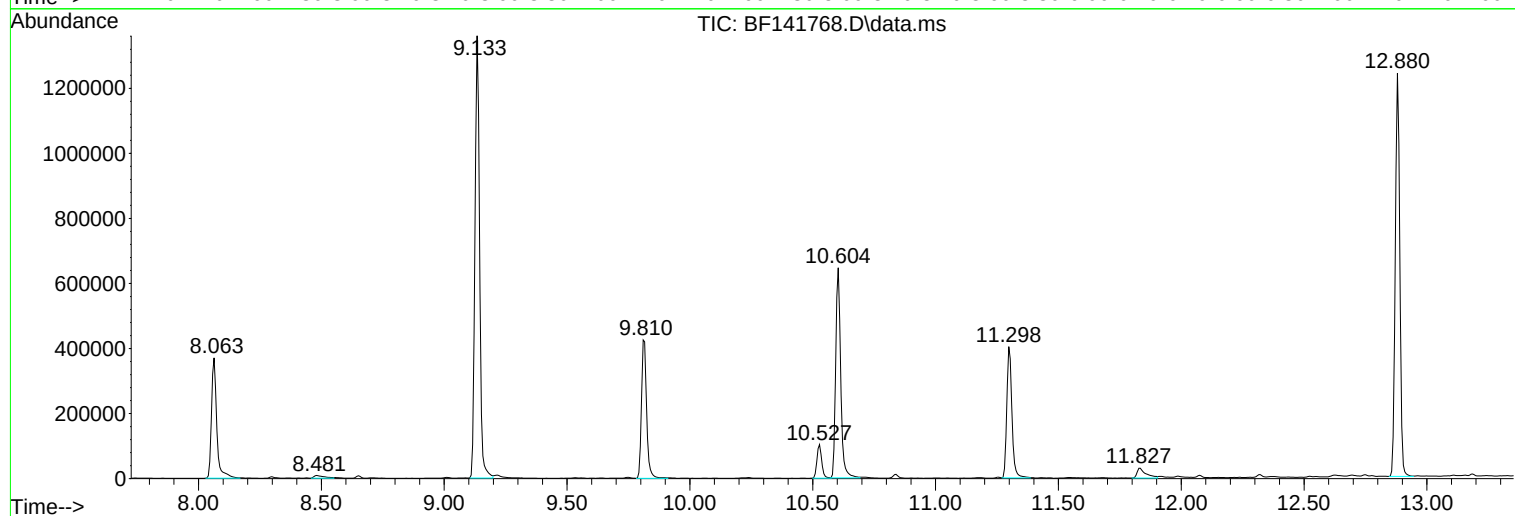
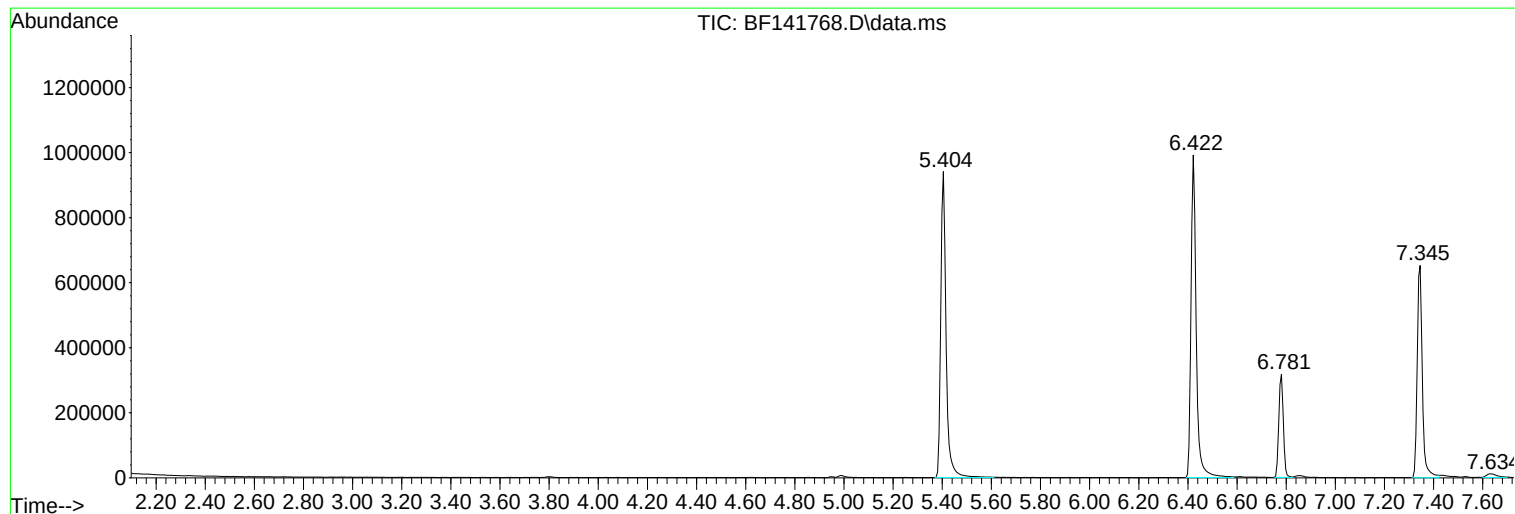
Sum of corrected areas: 11752912

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

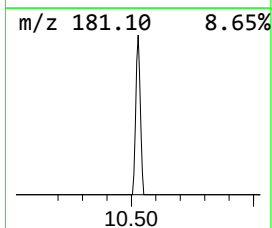
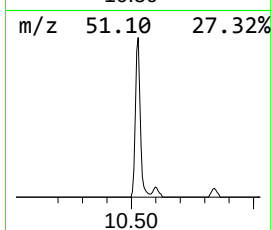
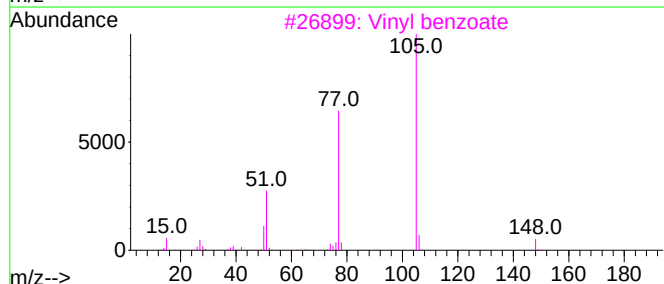
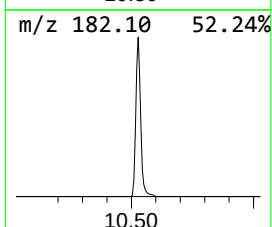
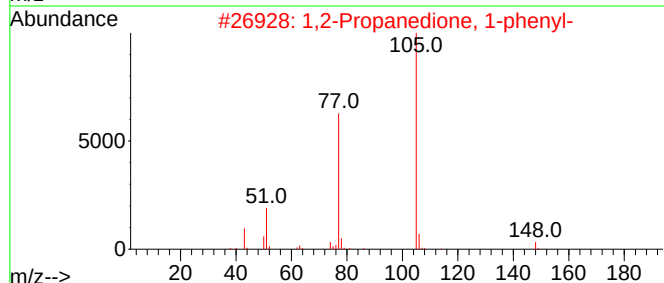
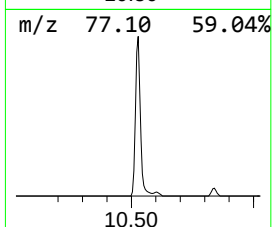
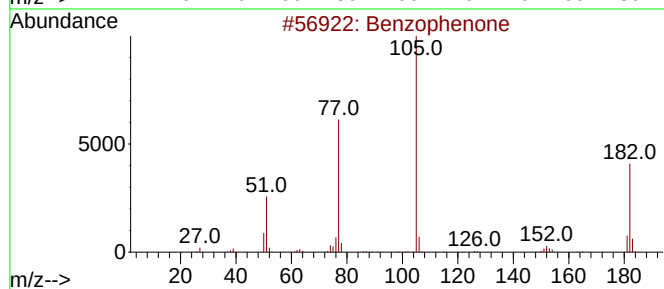
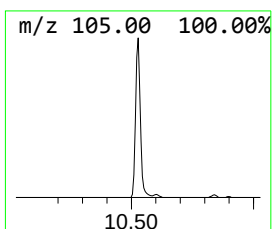
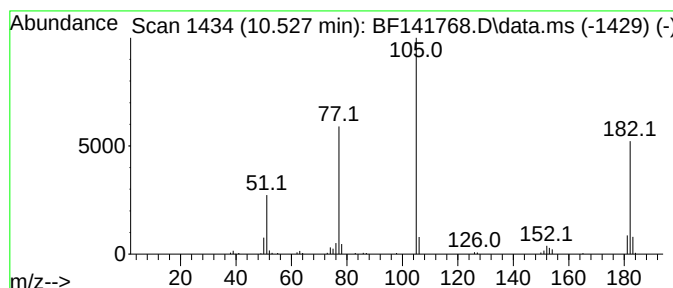
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	4.54 ng	140017	Acenaphthene-d10	9.810

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	97
2			1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
3			Vinyl benzoate	148	C9H8O2	000769-78-8	47
4			2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47
5			Ethanone, 2-bromo-1-phenyl-	198	C8H7BrO	000070-11-1	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

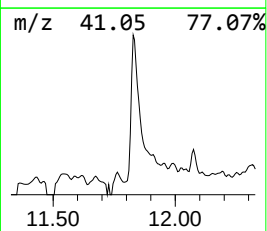
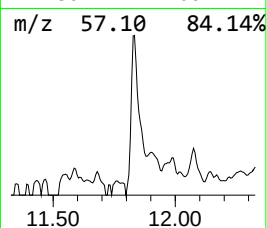
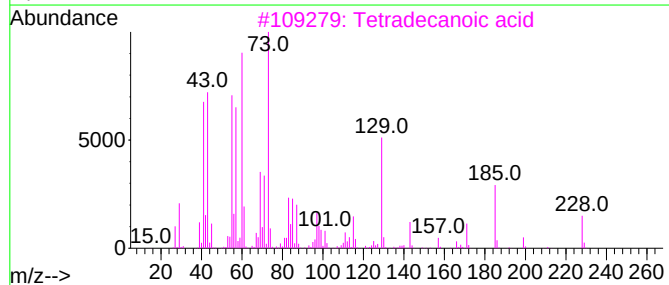
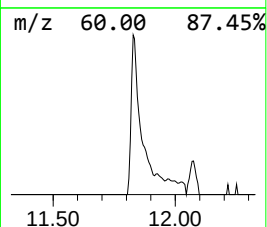
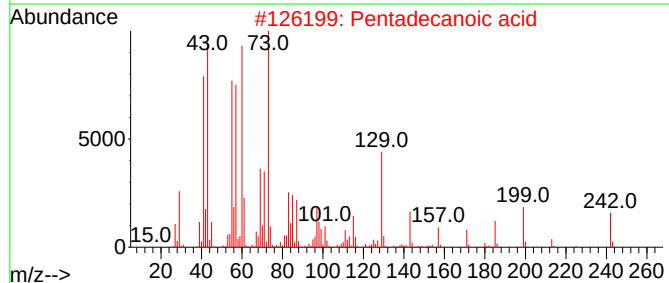
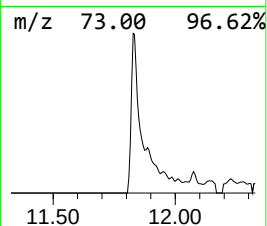
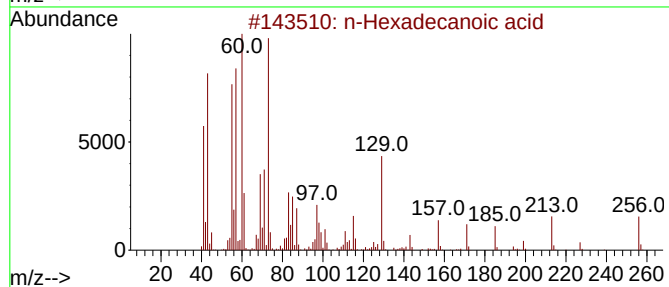
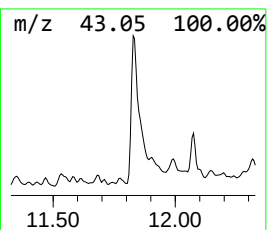
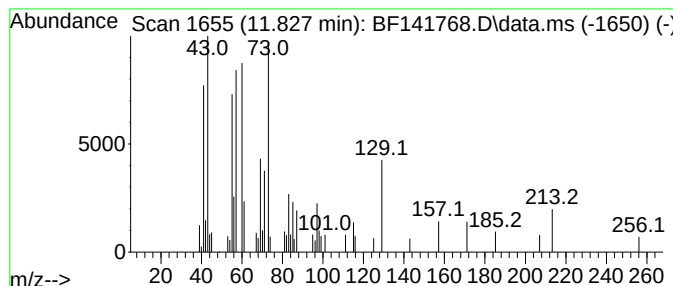
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.827	2.63 ng	76759	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	90
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	87
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	80
4			Tridecanoic acid	214	C13H26O2	000638-53-9	64
5			n-Decanoic acid	172	C10H20O2	000334-48-5	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

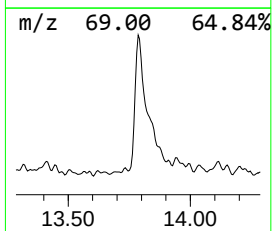
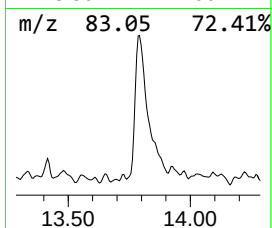
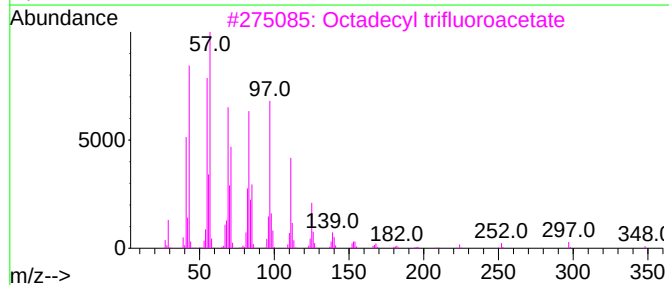
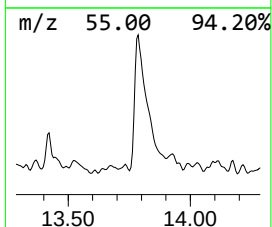
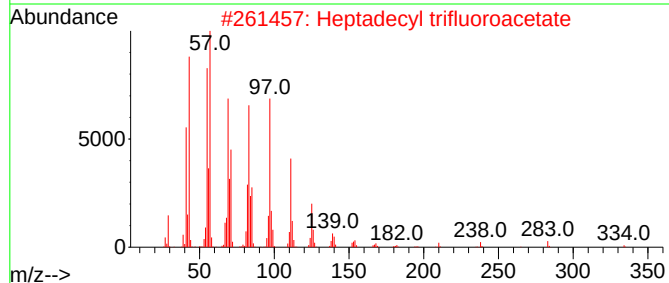
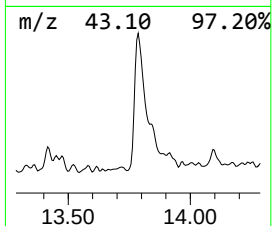
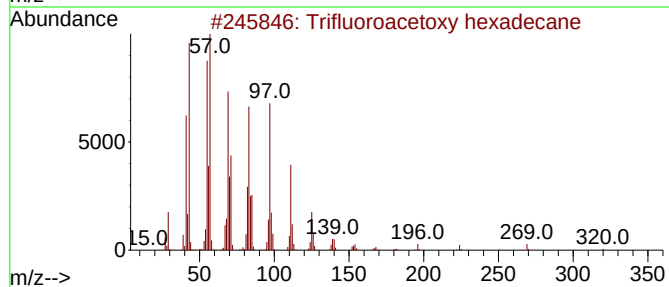
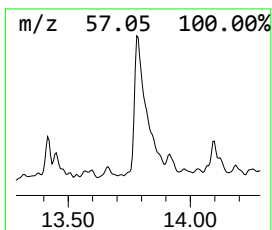
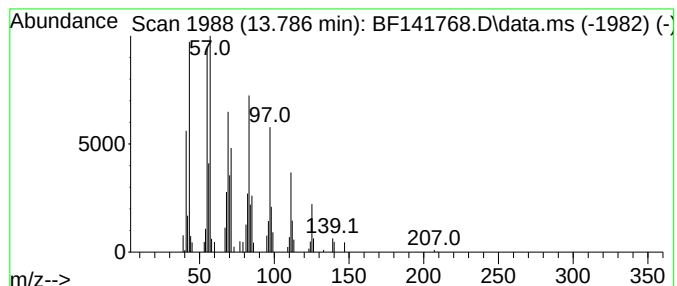
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	5.63 ng	125611	Chrysene-d12	13.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2			Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
3			Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
4			Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	91
5			Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

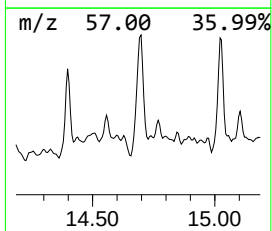
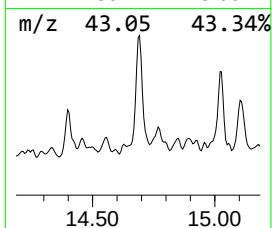
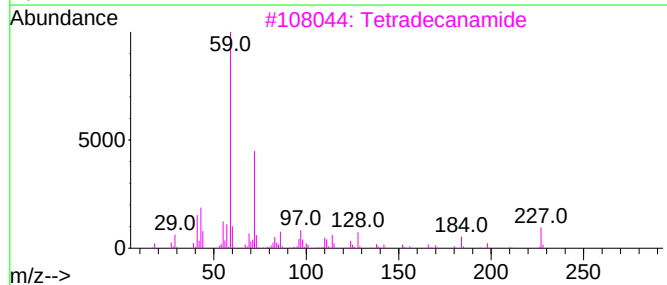
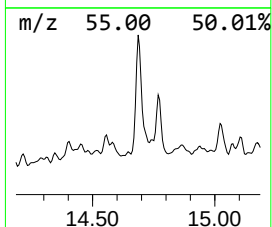
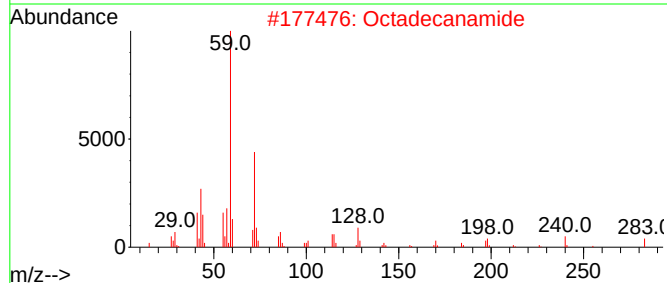
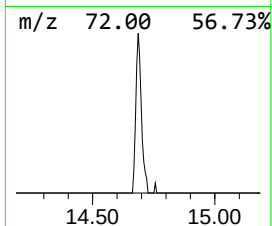
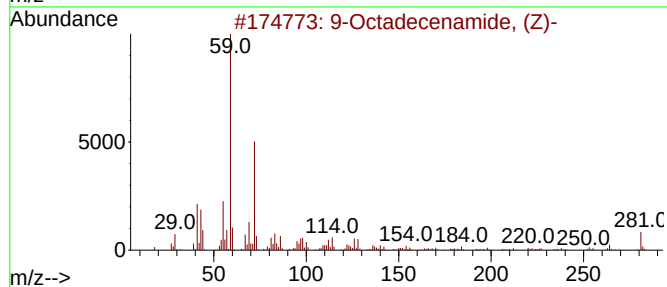
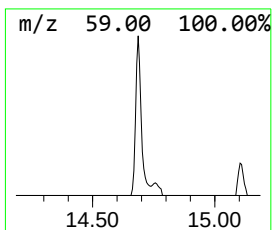
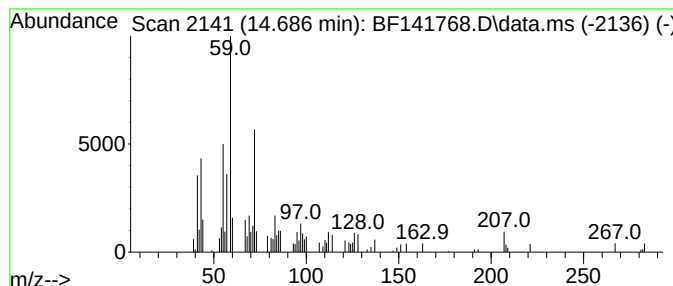
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 9-Octadecenamide, (Z)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.686	2.37 ng	56704	Perylene-d12	15.386

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	87
2		Octadecanamide	283	C18H37NO	000124-26-5	76
3		Tetradecanamide	227	C14H29NO	000638-58-4	64
4		Dodecanamide	199	C12H25NO	001120-16-7	53
5		Hexadecanamide	255	C16H33NO	000629-54-9	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

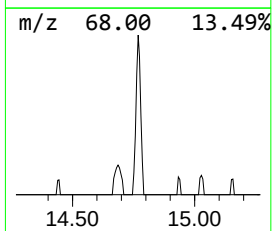
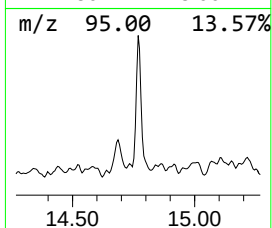
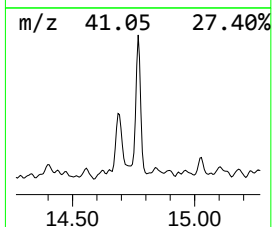
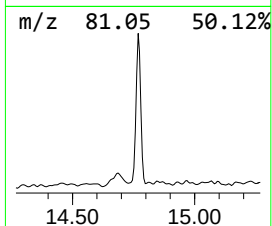
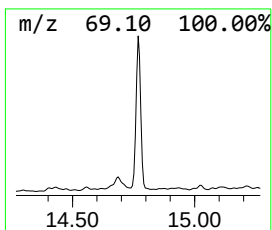
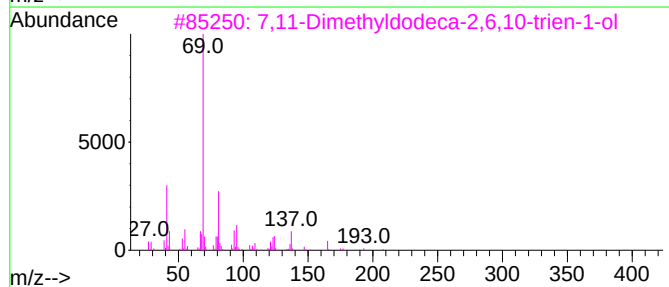
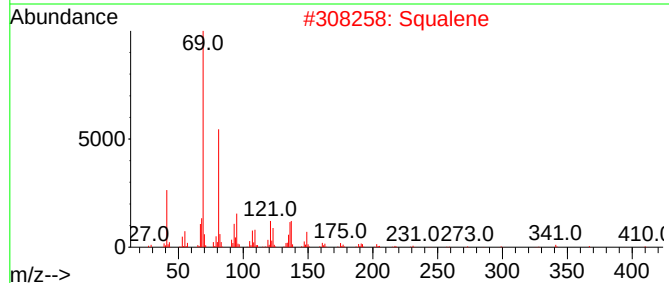
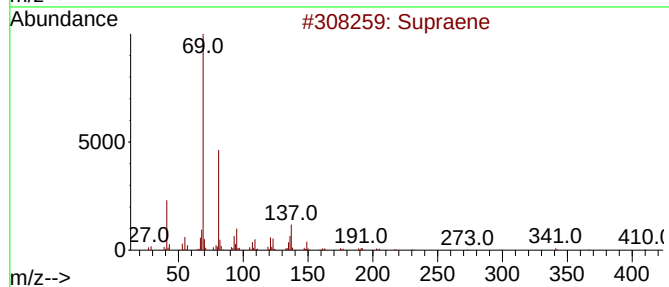
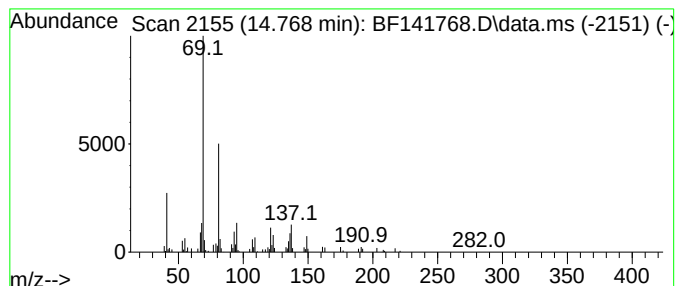
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Supraene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.768	2.88 ng	68914	Perylene-d12	15.386

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	91
2			Squalene	410	C30H50	000111-02-4	91
3			7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	83
4			1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	80
5			4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141768.D
Acq On : 25 Feb 2025 17:05
Operator : RC/JU
Sample : Q1415-02
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Benzophenone	10.528	4.5	ng	140017	3	9.810	617243	20.0
n-Hexadecanoic ...	11.827	2.6	ng	76759	4	11.298	583845	20.0
Trifluoroacetox...	13.786	5.6	ng	125611	5	13.939	446567	20.0
9-Octadecenamid...	14.686	2.4	ng	56704	6	15.386	478589	20.0
Supraene	14.768	2.9	ng	68914	6	15.386	478589	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	250	U	250	460	ug/Kg
108-95-2	Phenol	110	U	110	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	120	U	120	230	ug/Kg
95-57-8	2-Chlorophenol	120	U	120	230	ug/Kg
95-48-7	2-Methylphenol	110	U	110	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	130	230	ug/Kg
98-86-2	Acetophenone	120	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	460	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	55.6	U	55.6	110	ug/Kg
67-72-1	Hexachloroethane	110	U	110	230	ug/Kg
98-95-3	Nitrobenzene	130	U	130	230	ug/Kg
78-59-1	Isophorone	120	U	120	230	ug/Kg
88-75-5	2-Nitrophenol	130	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	130	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	120	U	120	230	ug/Kg
120-83-2	2,4-Dichlorophenol	100	U	100	230	ug/Kg
91-20-3	Naphthalene	110	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	110	UQ	110	230	ug/Kg
87-68-3	Hexachlorobutadiene	110	U	110	230	ug/Kg
105-60-2	Caprolactam	120	U	120	460	ug/Kg
59-50-7	4-Chloro-3-methylphenol	110	U	110	230	ug/Kg
91-57-6	2-Methylnaphthalene	110	U	110	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	220	U	220	460	ug/Kg
88-06-2	2,4,6-Trichlorophenol	98.6	U	98.6	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	100	U	100	230	ug/Kg
92-52-4	1,1-Biphenyl	120	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	110	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	130	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	110	U	110	230	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	120	U	120	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	110	U	110	230	ug/Kg
99-09-2	3-Nitroaniline	120	UQ	120	230	ug/Kg
83-32-9	Acenaphthene	110	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	340	U	340	460	ug/Kg
100-02-7	4-Nitrophenol	160	U	160	460	ug/Kg
132-64-9	Dibenzofuran	120	U	120	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	120	U	120	230	ug/Kg
84-66-2	Diethylphthalate	110	U	110	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	120	U	120	230	ug/Kg
86-73-7	Fluorene	120	U	120	230	ug/Kg
100-01-6	4-Nitroaniline	150	U	150	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	160	U	160	460	ug/Kg
86-30-6	n-Nitrosodiphenylamine	110	U	110	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	110	U	110	230	ug/Kg
118-74-1	Hexachlorobenzene	120	U	120	230	ug/Kg
1912-24-9	Atrazine	130	U	130	230	ug/Kg
87-86-5	Pentachlorophenol	110	U	110	460	ug/Kg
85-01-8	Phenanthrene	120	U	120	230	ug/Kg
120-12-7	Anthracene	120	U	120	230	ug/Kg
86-74-8	Carbazole	110	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	120	U	120	230	ug/Kg
206-44-0	Fluoranthene	110	U	110	230	ug/Kg
129-00-0	Pyrene	110	U	110	230	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	130	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	140	UQ	140	460	ug/Kg
56-55-3	Benzo(a)anthracene	110	U	110	230	ug/Kg
218-01-9	Chrysene	110	U	110	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	130	230	ug/Kg
117-84-0	Di-n-octyl phthalate	150	U	150	460	ug/Kg
205-99-2	Benzo(b)fluoranthene	110	U	110	230	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	110	U	110	230	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	130	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	230	ug/Kg
191-24-2	Benzo(g,h,i)perylene	110	U	110	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	120	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	150	U	150	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	100	U	100	230	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	83.6		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.5		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	54.3		30 (18) - 130 (107)	54%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	72.1		30 (10) - 130 (116)	48%	SPK: 150
1718-51-0	Terphenyl-d14	54.8		30 (10) - 130 (105)	55%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	74400	6.781
1146-65-2	Naphthalene-d8	293000	8.063
15067-26-2	Acenaphthene-d10	154000	9.81
1517-22-2	Phenanthrene-d10	249000	11.298
1719-03-5	Chrysene-d12	169000	13.939
1520-96-3	Perylene-d12	185000	15.386

TENTATIVE IDENTIFIED COMPOUNDS

000105-58-8	Diethyl carbonate	260	J	4.17	ug/Kg
000119-61-9	Benzophenone	180	J	10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	120	J	11.8	ug/Kg
088104-31-8	2- Chloropropionic acid, octadecyl	160	J	13.8	ug/Kg
007683-64-9	Supraene	100	J	14.8	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-163-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	72.4
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141767.D	1	02/25/25 09:30	02/25/25 16:35	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Time: Feb 25 16:56:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	74409	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	292573	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	153922	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	248859	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	169140	20.000	ng	-0.02
86) Perylene-d12	15.386	264	184984	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	396859	83.615	ng	0.00
7) Phenol-d6	6.422	99	488768	81.477	ng	-0.02
23) Nitrobenzene-d5	7.345	82	304374	54.262	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	111523	72.126	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	592893	59.344	ng	-0.02
79) Terphenyl-d14	12.880	244	548636	54.759	ng	-0.02

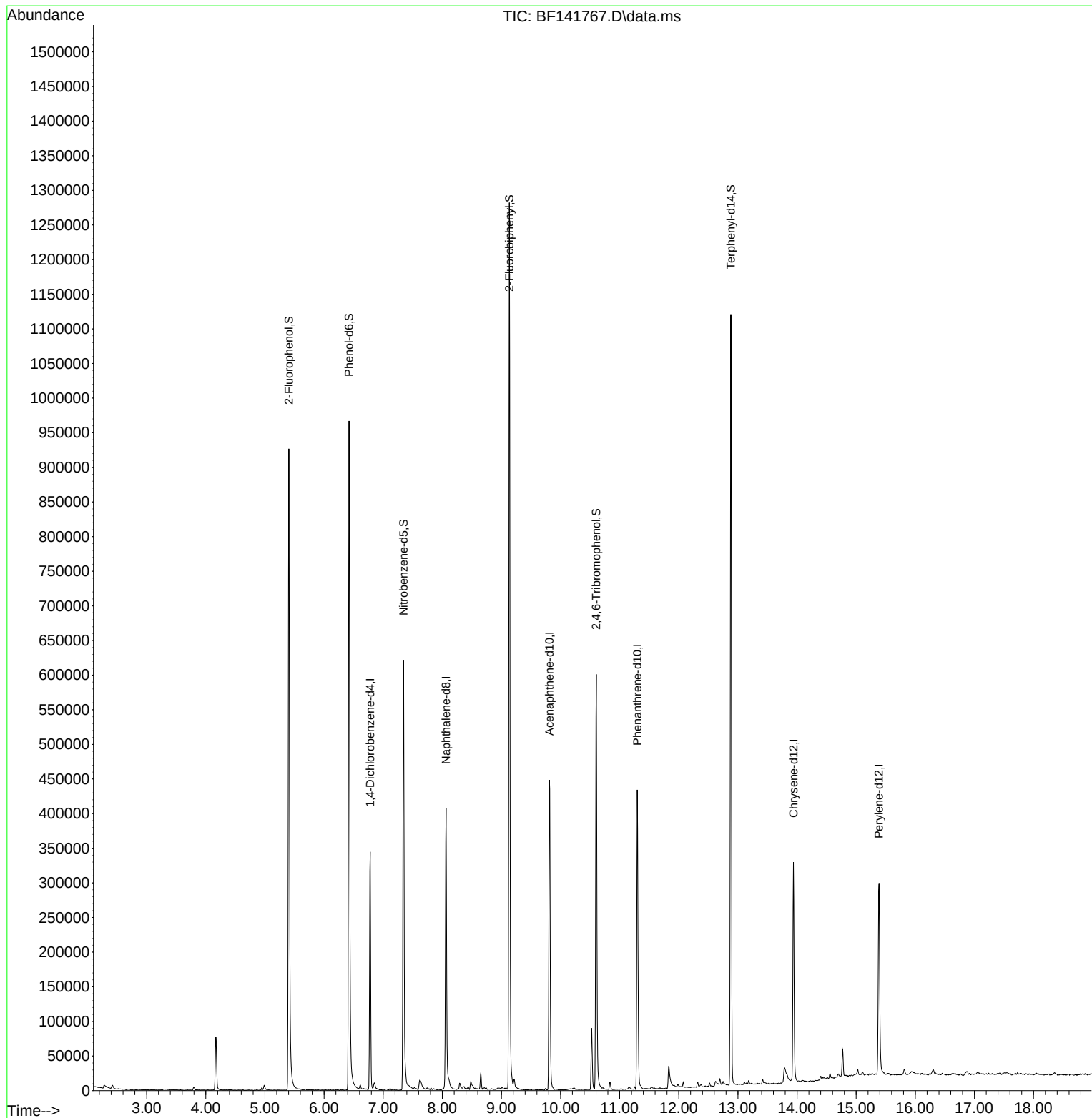
Target Compounds	Qvalue

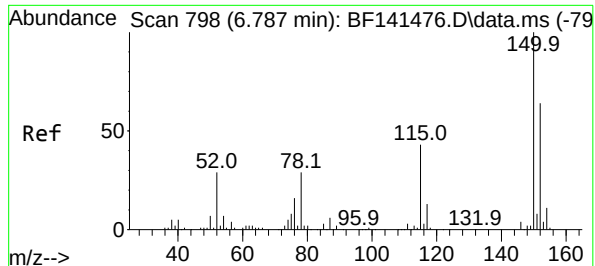
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Time: Feb 25 16:56:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

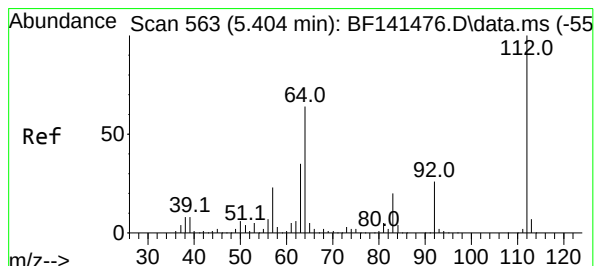
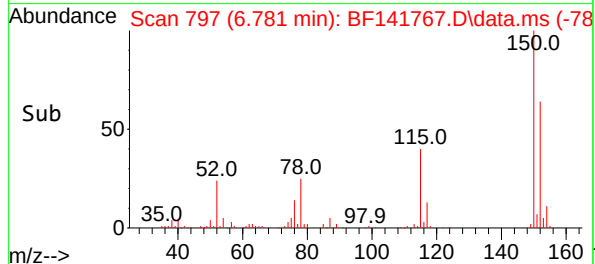
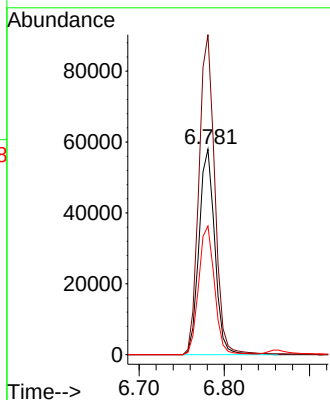
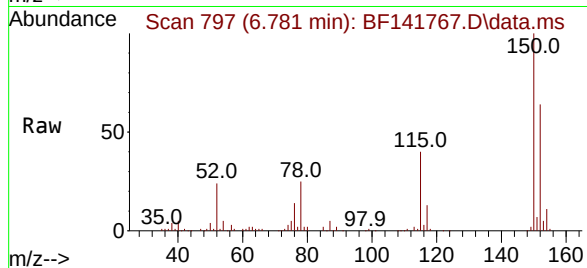




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

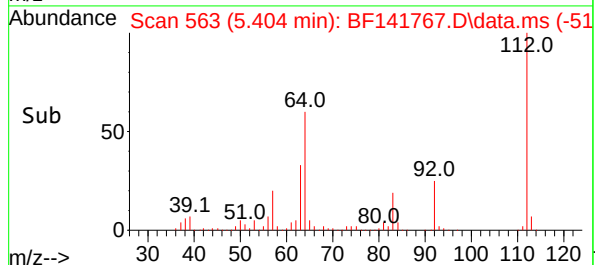
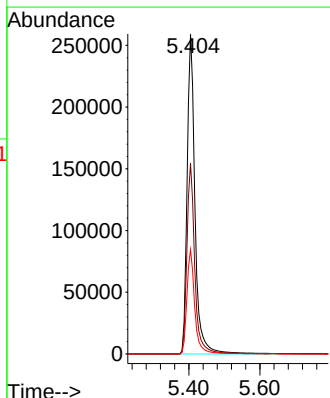
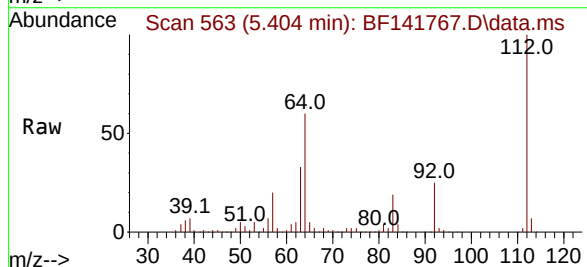
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

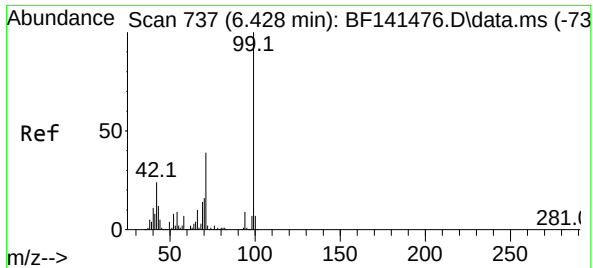
Tgt Ion:152 Resp: 74409
Ion Ratio Lower Upper
152 100
150 155.8 125.0 187.4
115 62.7 53.6 80.4



#5
2-Fluorophenol
Concen: 83.615 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion:112 Resp: 396859
Ion Ratio Lower Upper
112 100
64 59.7 51.1 76.7
63 32.6 28.4 42.6

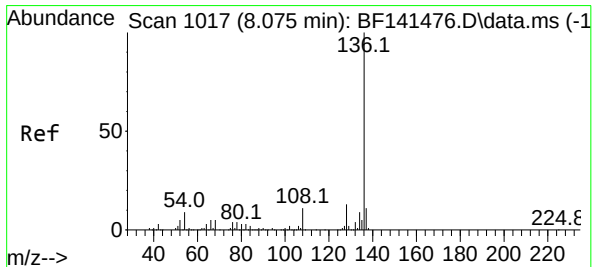
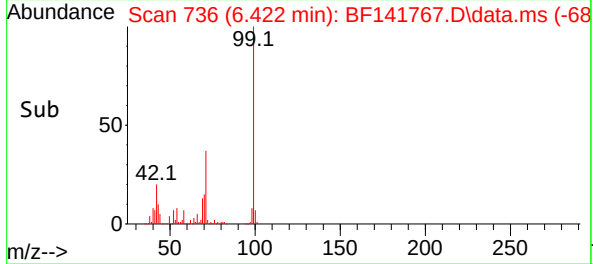
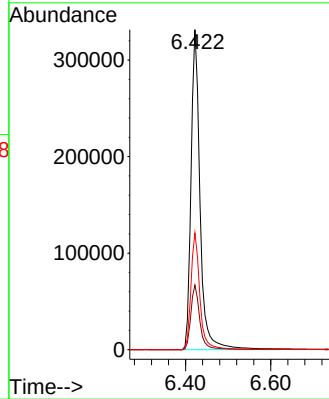
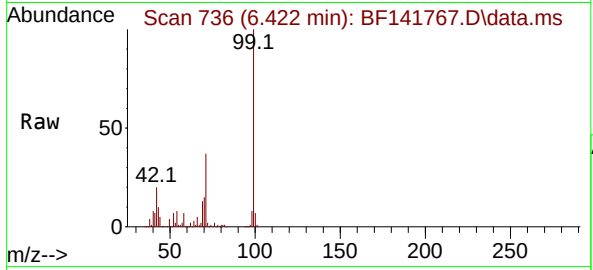




#7
Phenol-d6
Concen: 81.477 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

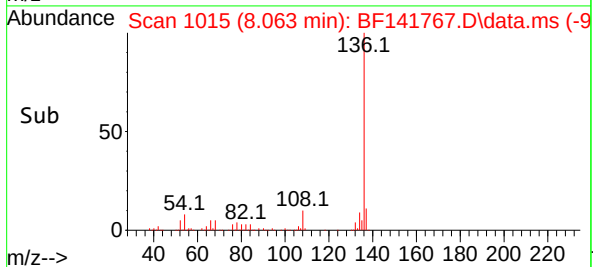
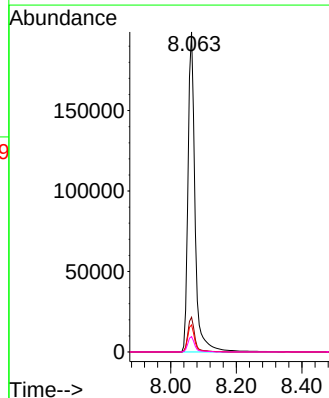
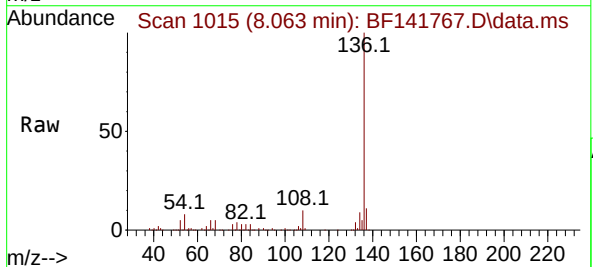
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

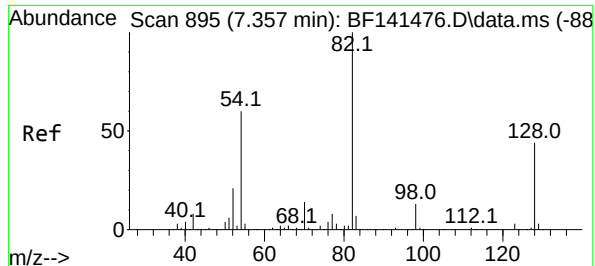
Tgt Ion: 99 Resp: 488768
Ion Ratio Lower Upper
99 100
42 20.2 19.1 28.7
71 36.5 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion: 136 Resp: 292573
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.4 7.2 10.8
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 54.262 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF141767.D

Acq: 25 Feb 2025 16:35

Instrument :

BNA_F

ClientSampleId :

B-163-SB02

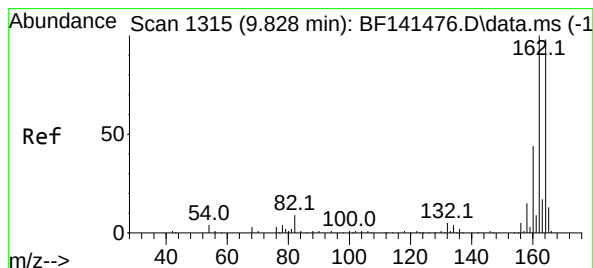
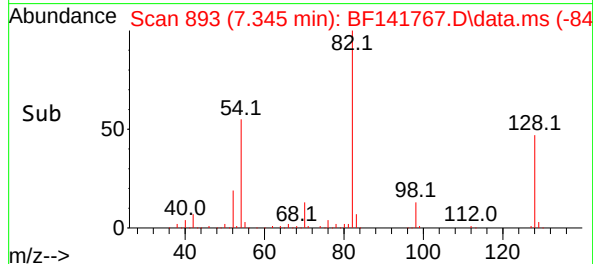
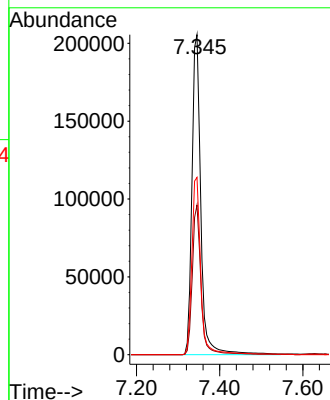
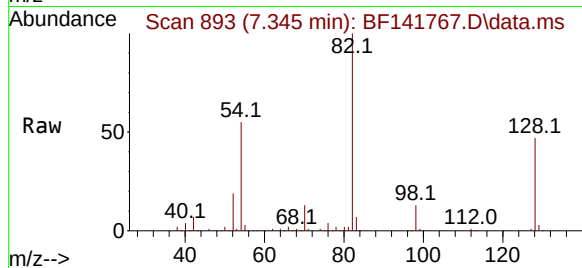
Tgt Ion: 82 Resp: 304374

Ion Ratio Lower Upper

82 100

128 46.8 34.8 52.2

54 55.4 48.2 72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 1312

Delta R.T. -0.023 min

Lab File: BF141767.D

Acq: 25 Feb 2025 16:35

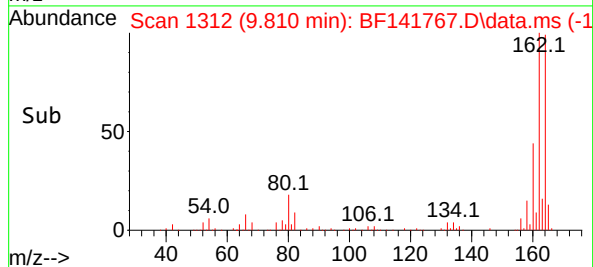
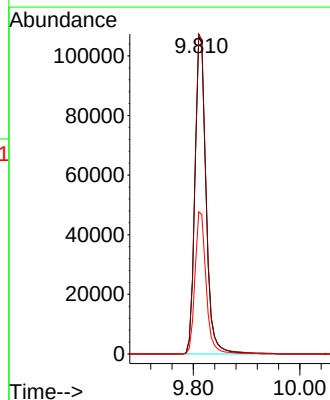
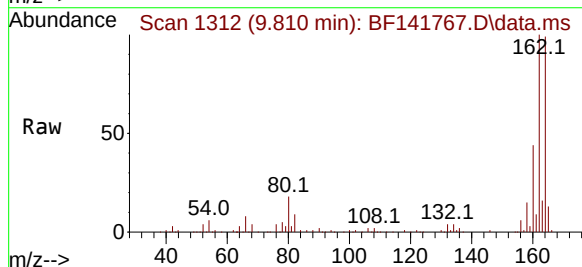
Tgt Ion:164 Resp: 153922

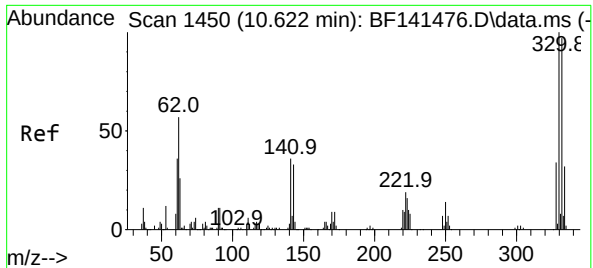
Ion Ratio Lower Upper

164 100

162 100.9 81.3 121.9

160 44.8 35.9 53.9

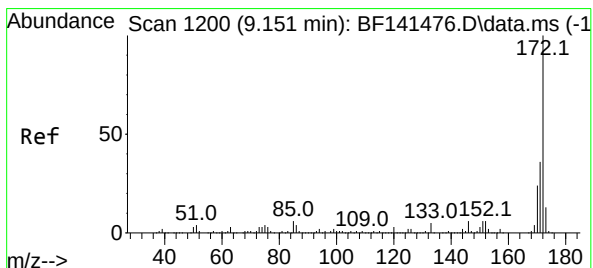
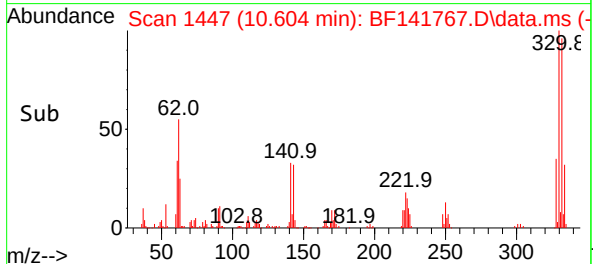
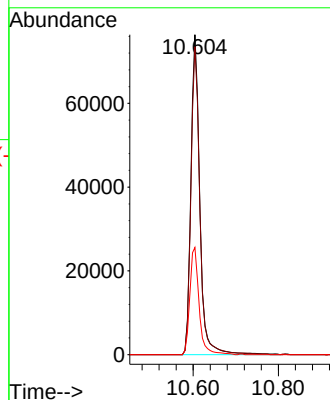
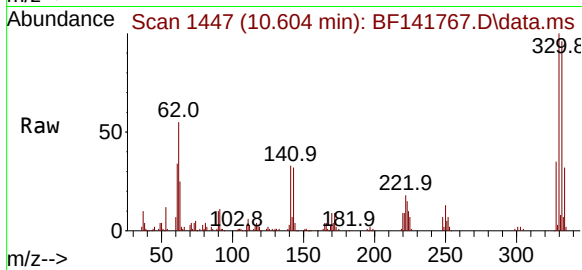




#42
2,4,6-Tribromophenol
Concen: 72.126 ng
RT: 10.604 min Scan# 1447
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

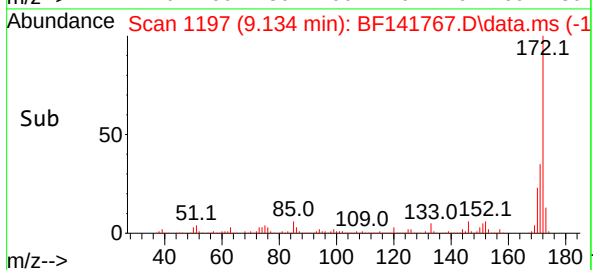
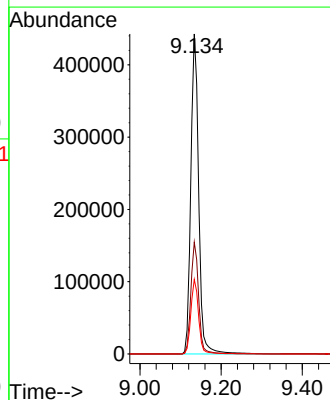
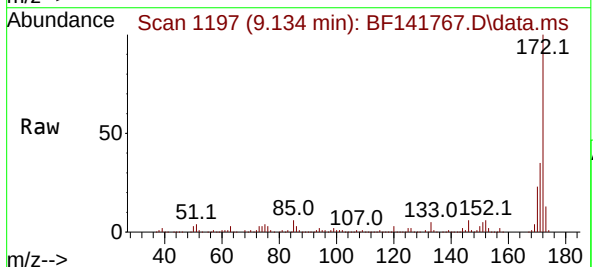
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

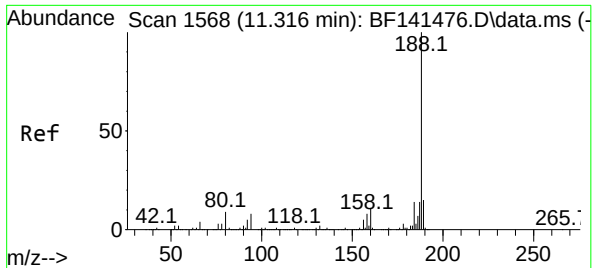
Tgt Ion: 330 Resp: 111523
Ion Ratio Lower Upper
330 100
332 96.4 78.5 117.7
141 34.7 31.0 46.4



#45
2-Fluorobiphenyl
Concen: 59.344 ng
RT: 9.134 min Scan# 1197
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion: 172 Resp: 592893
Ion Ratio Lower Upper
172 100
171 35.0 28.7 43.1
170 23.3 18.9 28.3

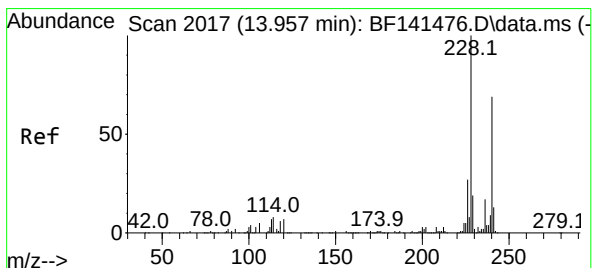
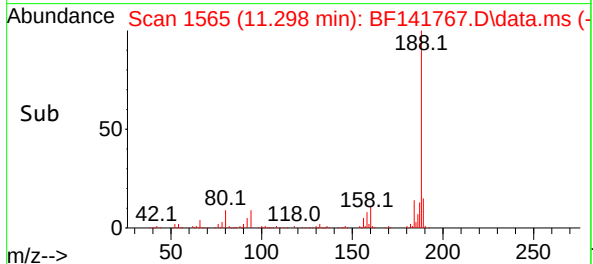
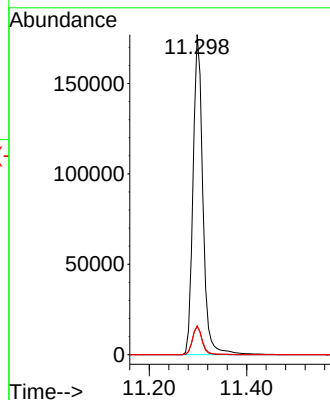
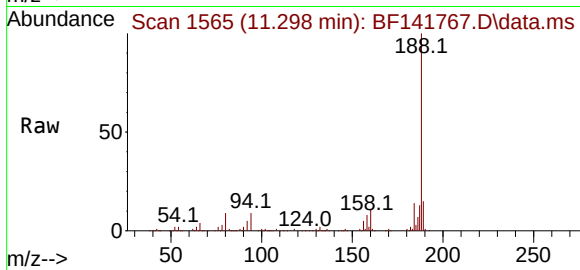




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

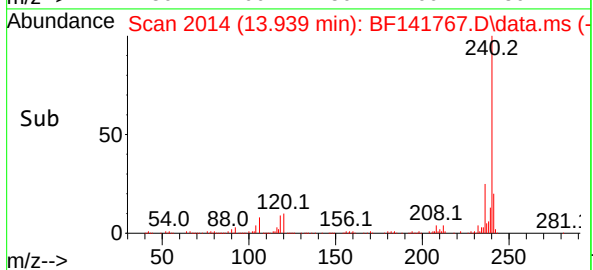
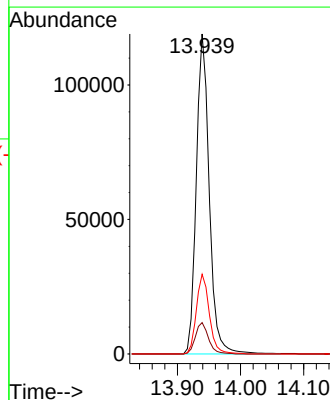
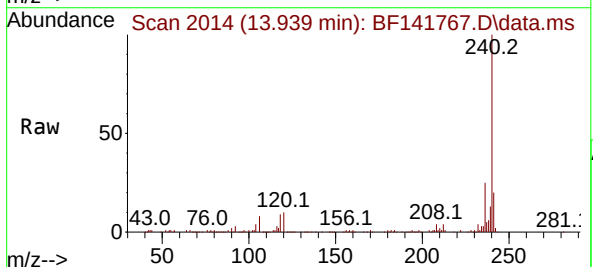
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

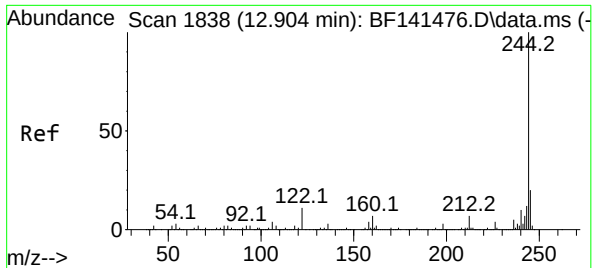
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	8.9	7.3	10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	24.9	19.8	29.8

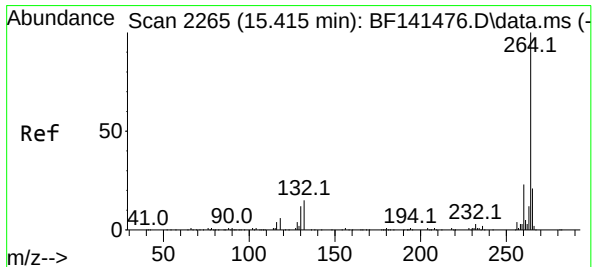
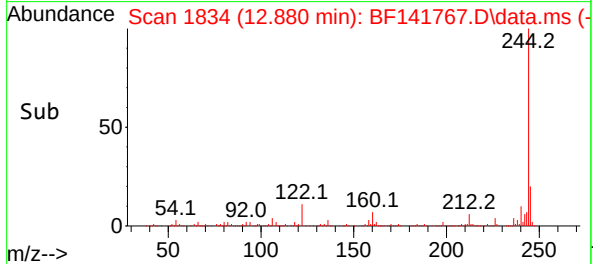
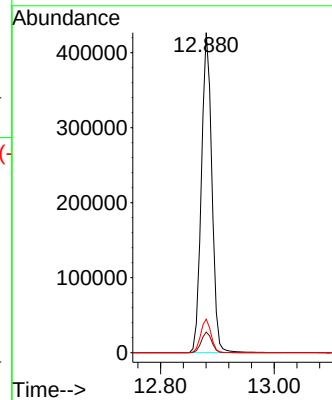
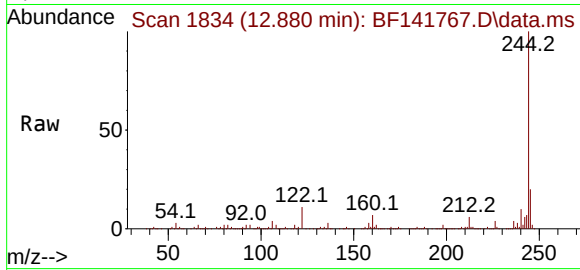




#79
Terphenyl-d14
Concen: 54.759 ng
RT: 12.880 min Scan# 1834
Delta R.T. -0.023 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

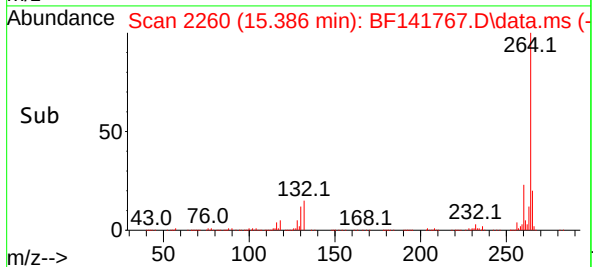
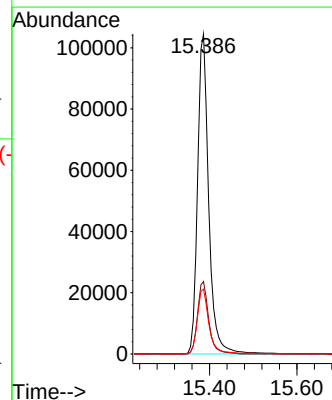
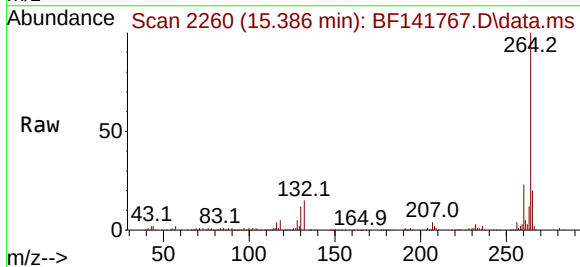
Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.5	8.4	12.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141767.D
Acq: 25 Feb 2025 16:35

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.6	28.0
265	20.3	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141767.D
 Acq On : 25 Feb 2025 16:35
 Operator : RC/JU
 Sample : Q1415-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-163-SB02

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141767.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.169	348	353	366	rBV	76540	123026	7.34%	1.065%
2	5.404	558	563	590	rBV	925693	1397247	83.34%	12.092%
3	6.422	731	736	763	rBV	965895	1440200	85.90%	12.464%
4	6.781	792	797	804	rBV	343020	439562	26.22%	3.804%
5	7.345	887	893	921	rBV	620622	929257	55.42%	8.042%
6	7.622	934	940	956	rBV2	13528	43909	2.62%	0.380%
7	8.063	1007	1015	1046	rVB	405670	612718	36.54%	5.303%
8	8.481	1082	1086	1097	rBV2	11430	28505	1.70%	0.247%
9	8.651	1110	1115	1119	rVB	23536	29162	1.74%	0.252%
10	9.134	1192	1197	1208	rBV	1279829	1676633	100.00%	14.510%
11	9.216	1208	1211	1222	rVB	13547	24203	1.44%	0.209%
12	9.810	1307	1312	1327	rBV	447409	638265	38.07%	5.524%
13	10.528	1429	1434	1442	rBV	88600	122353	7.30%	1.059%
14	10.604	1442	1447	1463	rVV	598616	870508	51.92%	7.534%
15	11.298	1560	1565	1582	rVB	431697	600720	35.83%	5.199%
16	11.833	1651	1656	1668	rBV2	32644	80572	4.81%	0.697%
17	12.622	1786	1790	1798	rBV5	6663	18026	1.08%	0.156%
18	12.880	1829	1834	1847	rBV	1112299	1423253	84.89%	12.317%
19	13.786	1983	1988	2005	rBV6	21109	77342	4.61%	0.669%
20	13.939	2009	2014	2026	rVB	316544	449213	26.79%	3.888%
21	14.769	2151	2155	2164	rBV	37677	52177	3.11%	0.452%
22	15.386	2254	2260	2274	rBV	274726	477917	28.50%	4.136%

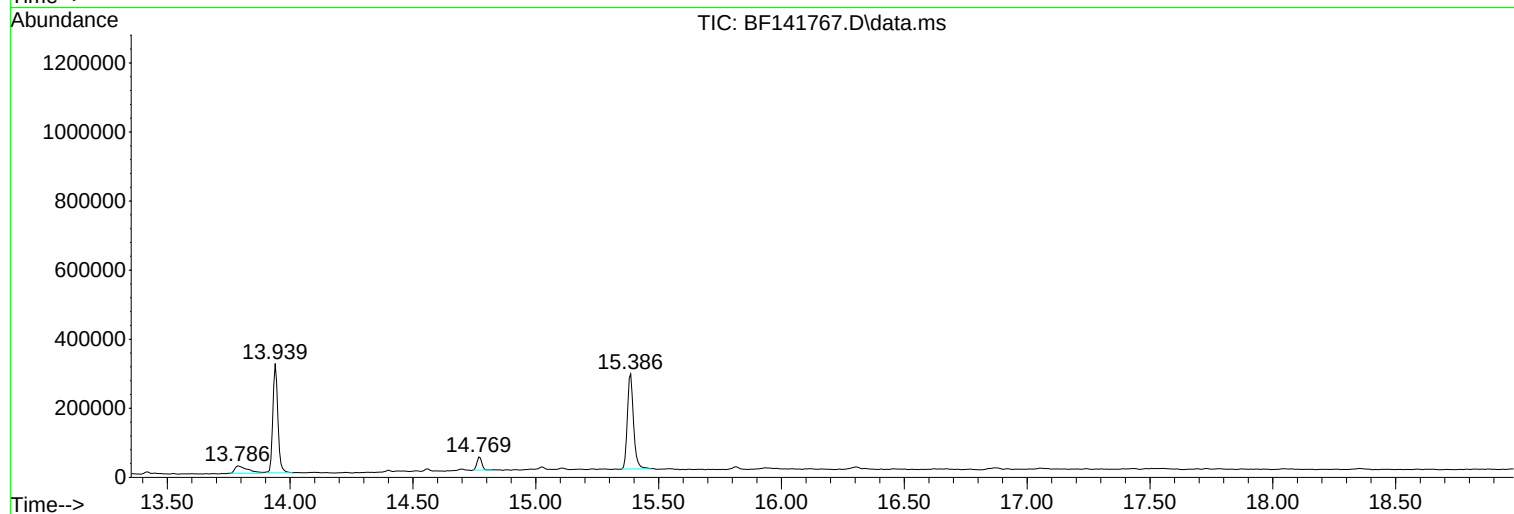
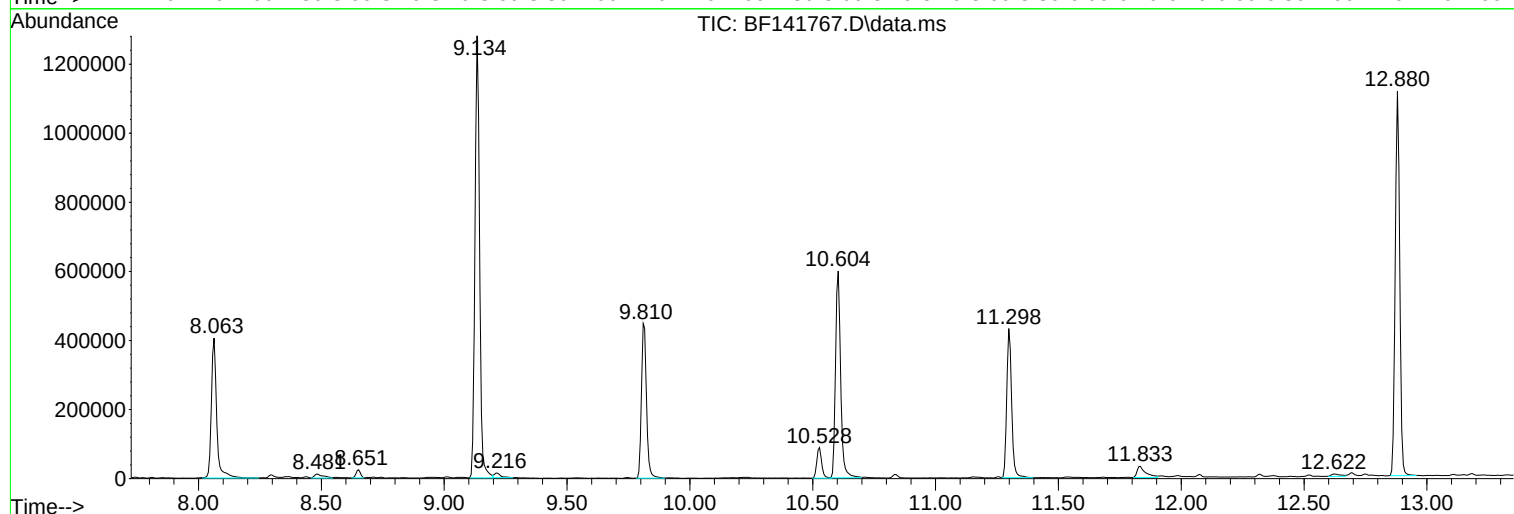
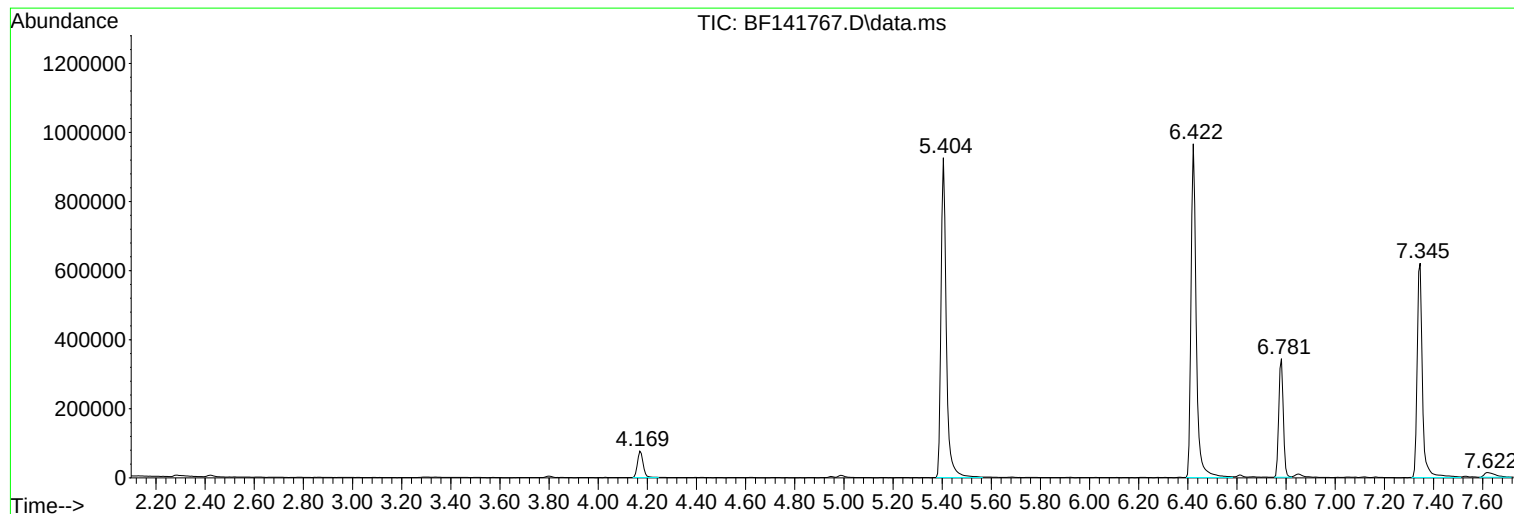
Sum of corrected areas: 11554768

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

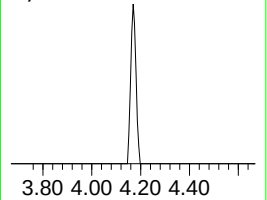
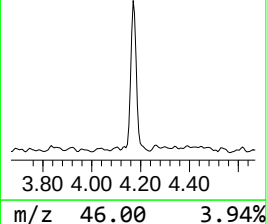
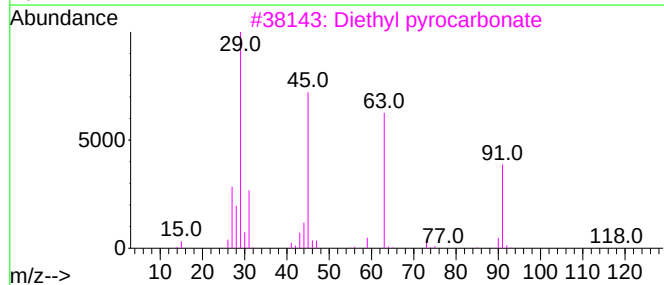
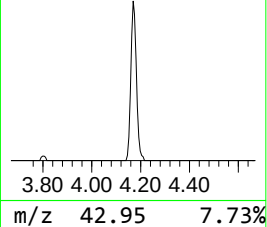
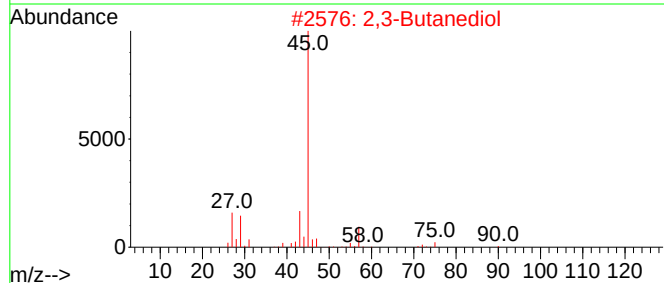
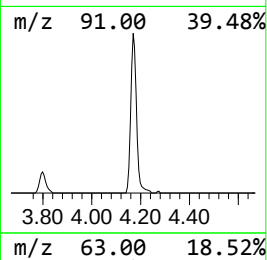
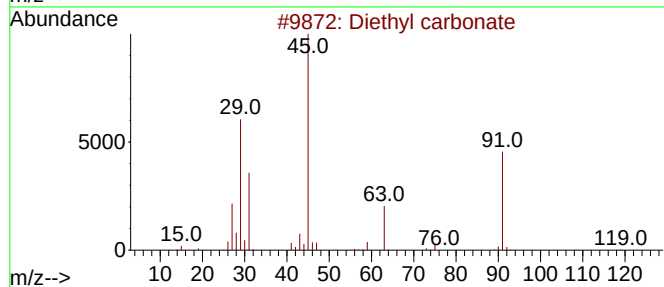
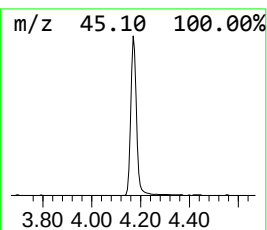
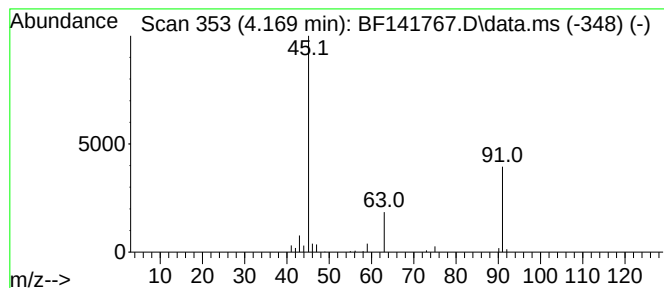
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Diethyl carbonate Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.169	5.60 ng	123026	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Diethyl carbonate	118	C5H10O3	000105-58-8	83
2			2,3-Butanediol	90	C4H10O2	000513-85-9	9
3			Diethyl pyrocarbonate	162	C6H10O5	001609-47-8	9
4			2-Propanol, 1-methoxy-	90	C4H10O2	000107-98-2	9
5			Propanoic acid, 2-hydroxy-, ethy...	118	C5H10O3	000097-64-3	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

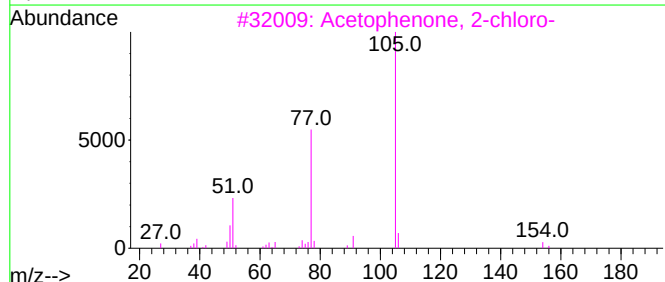
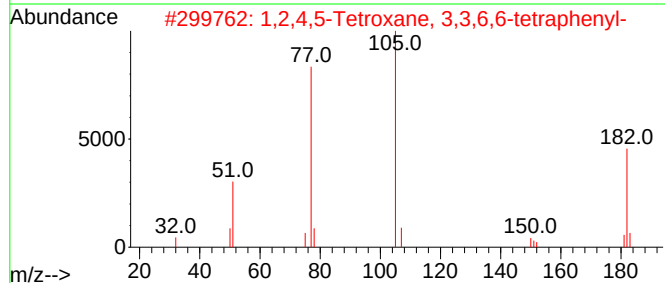
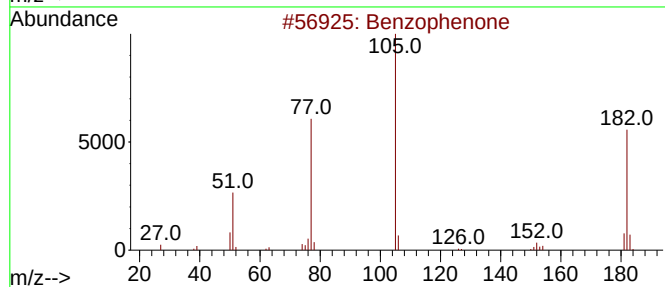
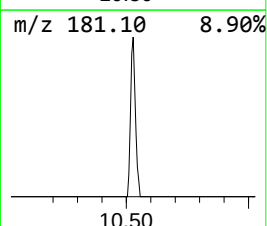
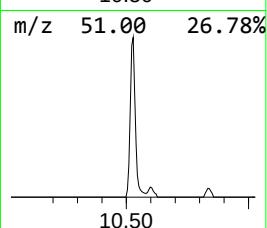
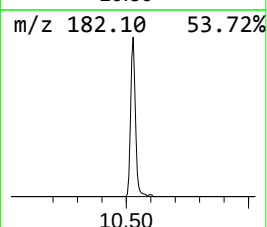
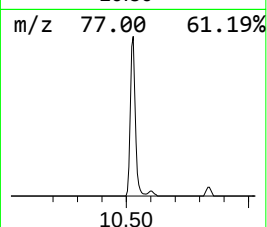
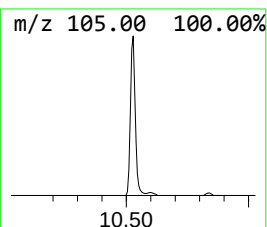
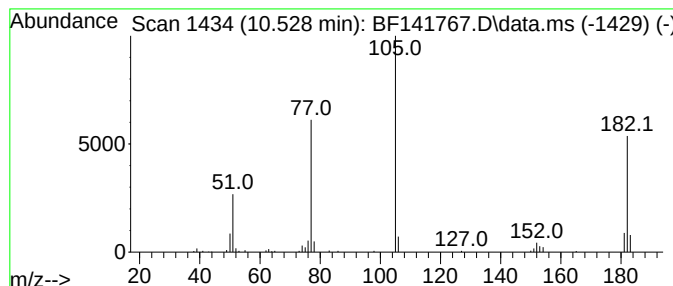
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	3.83 ng	122353	Acenaphthene-d10	9.810

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			1,2,4,5-Tetroxane, 3,3,6,6-tetra...	396	C26H20O4	016204-36-7	78
3			Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4			Vinyl benzoate	148	C9H8O2	000769-78-8	47
5			Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

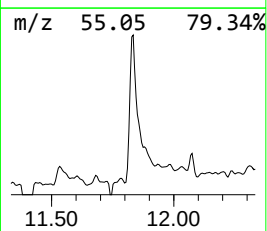
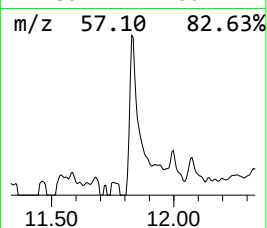
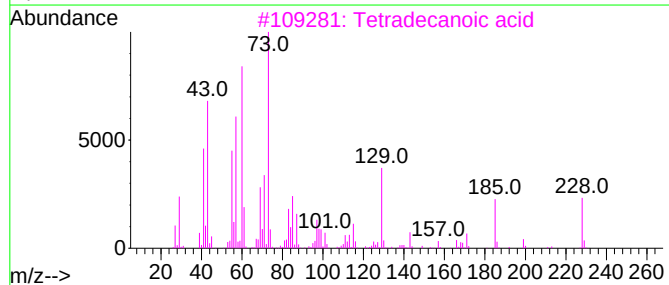
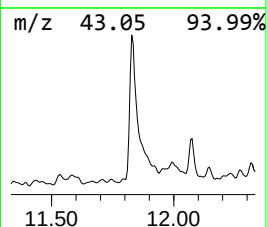
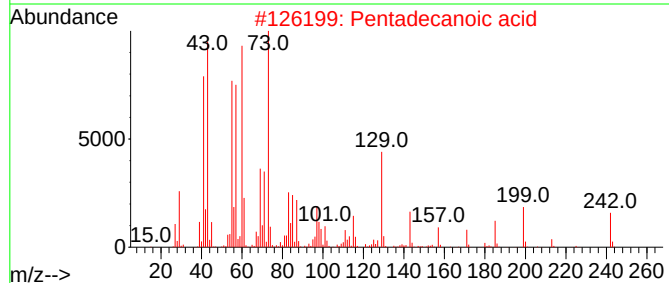
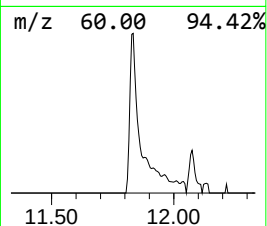
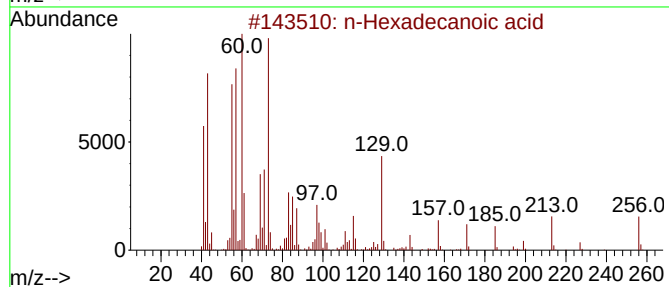
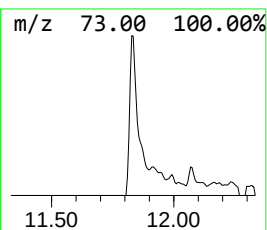
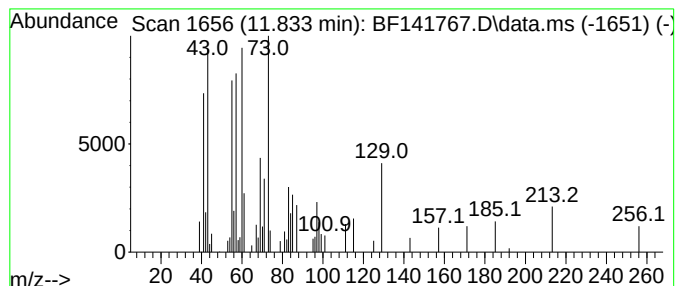
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	2.68 ng	80572	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	74
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4			Tridecanoic acid	214	C13H26O2	000638-53-9	64
5			Decanoic acid, silver(1+) salt	278	C10H19AgO2	013126-67-5	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

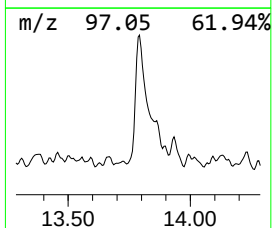
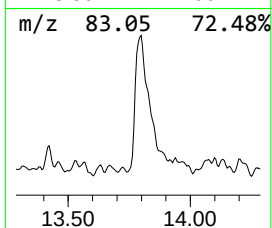
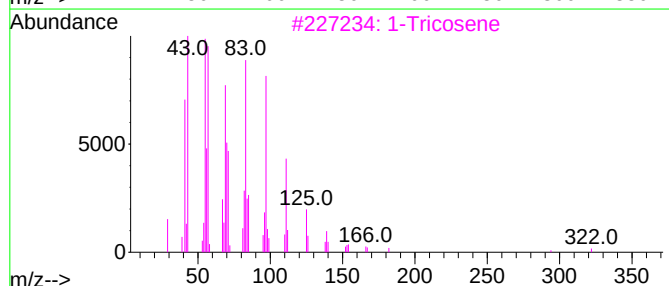
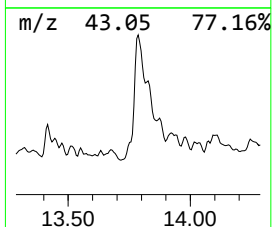
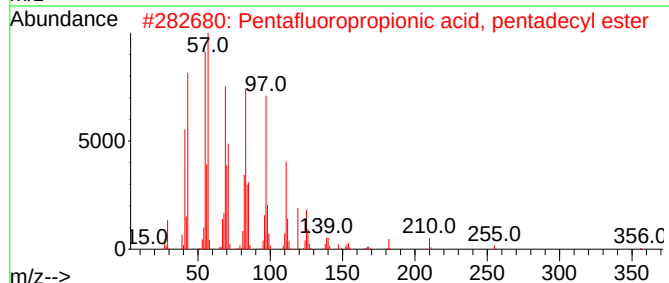
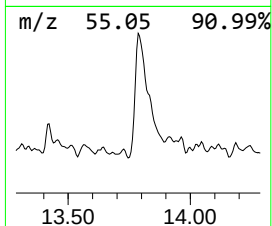
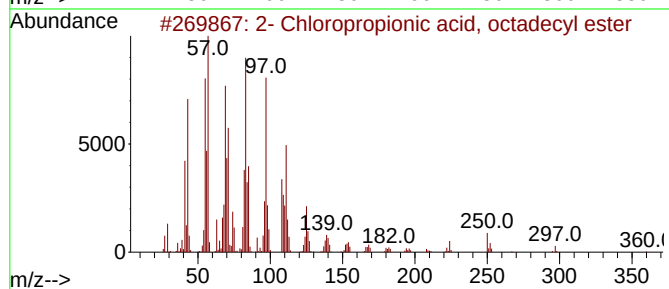
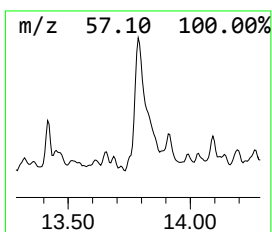
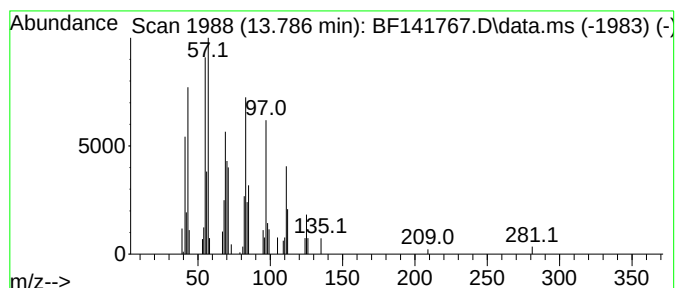
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 2- Chloropropionic acid, oc... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	3.44 ng	77342	Chrysene-d12	13.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-	Chloropropionic acid, octadec...	360	C21H41ClO2	088104-31-8	91	
2	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	91		
3	1-Tricosene	322	C23H46	018835-32-0	90		
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	87		
5	Trichloroacetic acid, tetradecyl...	358	C16H29Cl3O2	074339-52-9	87		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

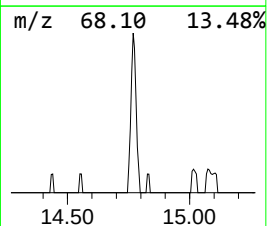
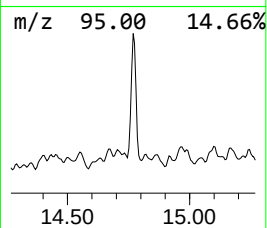
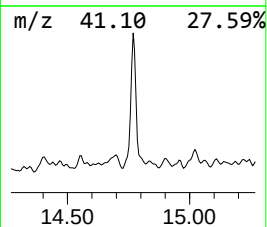
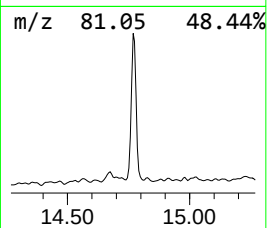
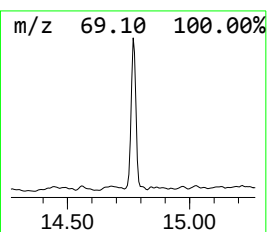
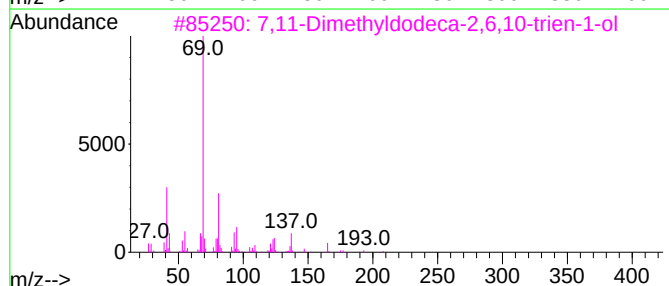
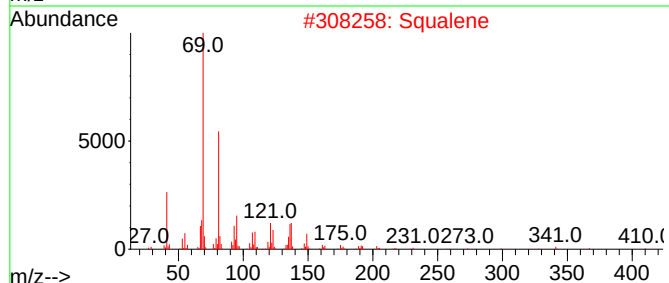
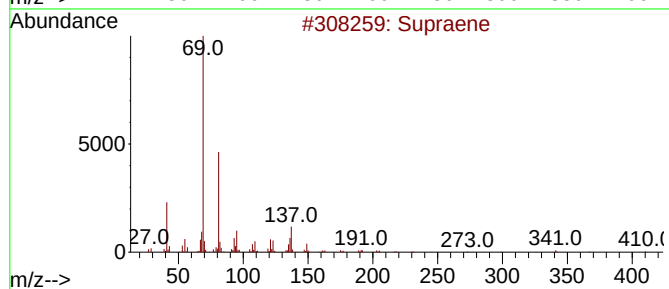
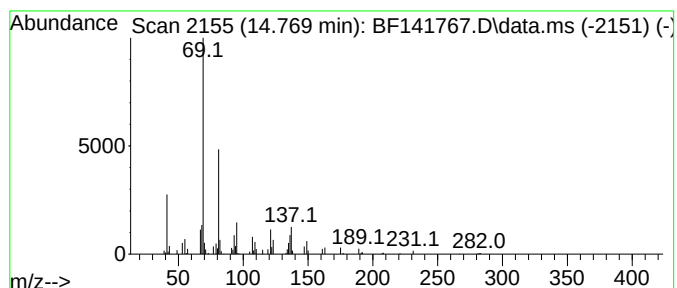
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Supraene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	2.18 ng	52177	Perylene-d12	15.386

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	91
2			Squalene	410	C30H50	000111-02-4	91
3			7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	80
4			(3E,7E)-4,8,12-Trimethyltrideca...	218	C16H26	062235-06-7	59
5			(2E,6E)-3,7,11-Trimethyldodeca-2...	404	C27H48O2	078368-58-8	56



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141767.D
Acq On : 25 Feb 2025 16:35
Operator : RC/JU
Sample : Q1415-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-163-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Diethyl carbonate	4.169	5.6	ng	123026	1	6.781	439562	20.0
Benzophenone	10.528	3.8	ng	122353	3	9.810	638265	20.0
n-Hexadecanoic ...	11.833	2.7	ng	80572	4	11.298	600720	20.0
2- Chloropropio...	13.786	3.4	ng	77342	5	13.939	449213	20.0
Supraene	14.769	2.2	ng	52177	6	15.386	477917	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	370	ug/Kg
108-95-2	Phenol	92.2	U	92.2	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	93.1	U	93.1	190	ug/Kg
95-57-8	2-Chlorophenol	92.9	U	92.9	190	ug/Kg
95-48-7	2-Methylphenol	89.6	U	89.6	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	96.7	U	96.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	88.8	U	88.8	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	44.8	U	44.8	89.0	ug/Kg
67-72-1	Hexachloroethane	92.3	U	92.3	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	94.1	U	94.1	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	95.4	U	95.4	190	ug/Kg
120-83-2	2,4-Dichlorophenol	84.0	U	84.0	190	ug/Kg
91-20-3	Naphthalene	91.9	U	91.9	190	ug/Kg
106-47-8	4-Chloroaniline	91.9	UQ	91.9	190	ug/Kg
87-68-3	Hexachlorobutadiene	92.6	U	92.6	190	ug/Kg
105-60-2	Caprolactam	96.5	U	96.5	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	86.2	U	86.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	91.8	U	91.8	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	79.4	U	79.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	82.3	U	82.3	190	ug/Kg
92-52-4	1,1-Biphenyl	97.2	U	97.2	190	ug/Kg
91-58-7	2-Chloronaphthalene	92.6	U	92.6	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	90.9	U	90.9	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	96.2	U	96.2	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	92.5	U	92.5	190	ug/Kg
99-09-2	3-Nitroaniline	99.2	UQ	99.2	190	ug/Kg
83-32-9	Acenaphthene	90.2	U	90.2	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	93.9	U	93.9	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	95.9	U	95.9	190	ug/Kg
84-66-2	Diethylphthalate	89.1	U	89.1	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	95.2	U	95.2	190	ug/Kg
86-73-7	Fluorene	95.1	U	95.1	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	90.8	U	90.8	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	87.8	U	87.8	190	ug/Kg
118-74-1	Hexachlorobenzene	94.5	U	94.5	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	86.0	U	86.0	370	ug/Kg
85-01-8	Phenanthrene	93.4	U	93.4	190	ug/Kg
120-12-7	Anthracene	93.9	U	93.9	190	ug/Kg
86-74-8	Carbazole	89.3	U	89.3	190	ug/Kg
84-74-2	Di-n-butylphthalate	93.8	U	93.8	190	ug/Kg
206-44-0	Fluoranthene	90.9	U	90.9	190	ug/Kg
129-00-0	Pyrene	92.3	U	92.3	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	89.8	U	89.8	190	ug/Kg
218-01-9	Chrysene	88.4	U	88.4	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	90.2	U	90.2	190	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	91.9	U	91.9	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.9	U	86.9	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	90.3	U	90.3	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	89.1	U	89.1	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	96.5	U	96.5	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	83.1	U	83.1	190	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	102		30 (18) - 130 (112)	68%	SPK: 150
13127-88-3	Phenol-d6	98.7		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.6		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.0		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	85.9		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	69.8		30 (10) - 130 (105)	70%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	71100	6.781
1146-65-2	Naphthalene-d8	280000	8.063
15067-26-2	Acenaphthene-d10	151000	9.81
1517-22-2	Phenanthrene-d10	244000	11.298
1719-03-5	Chrysene-d12	166000	13.939
1520-96-3	Perylene-d12	176000	15.386

TENTATIVE IDENTIFIED COMPOUNDS

	unknown2.340	230	J	2.34	ug/Kg
000119-61-9	Benzophenone	190	J	10.5	ug/Kg
000057-10-3	n-Hexadecanoic acid	140	J	11.8	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	270	J	13.8	ug/Kg
007683-64-9	Supraene	95.3	J	14.8	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-172-SB02	SDG No.:	Q1415
Lab Sample ID:	Q1415-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141766.D	1	02/25/25 09:30	02/25/25 16:05	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Time: Feb 25 16:27:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	71117	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	279572	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	151408	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	244202	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	165983	20.000	ng	-0.02
86) Perylene-d12	15.386	264	176431	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	462654	101.990	ng	0.00
7) Phenol-d6	6.428	99	566004	98.719	ng	-0.01
23) Nitrobenzene-d5	7.345	82	367579	68.577	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	130576	85.851	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	717455	73.004	ng	-0.02
79) Terphenyl-d14	12.880	244	686743	69.847	ng	-0.02

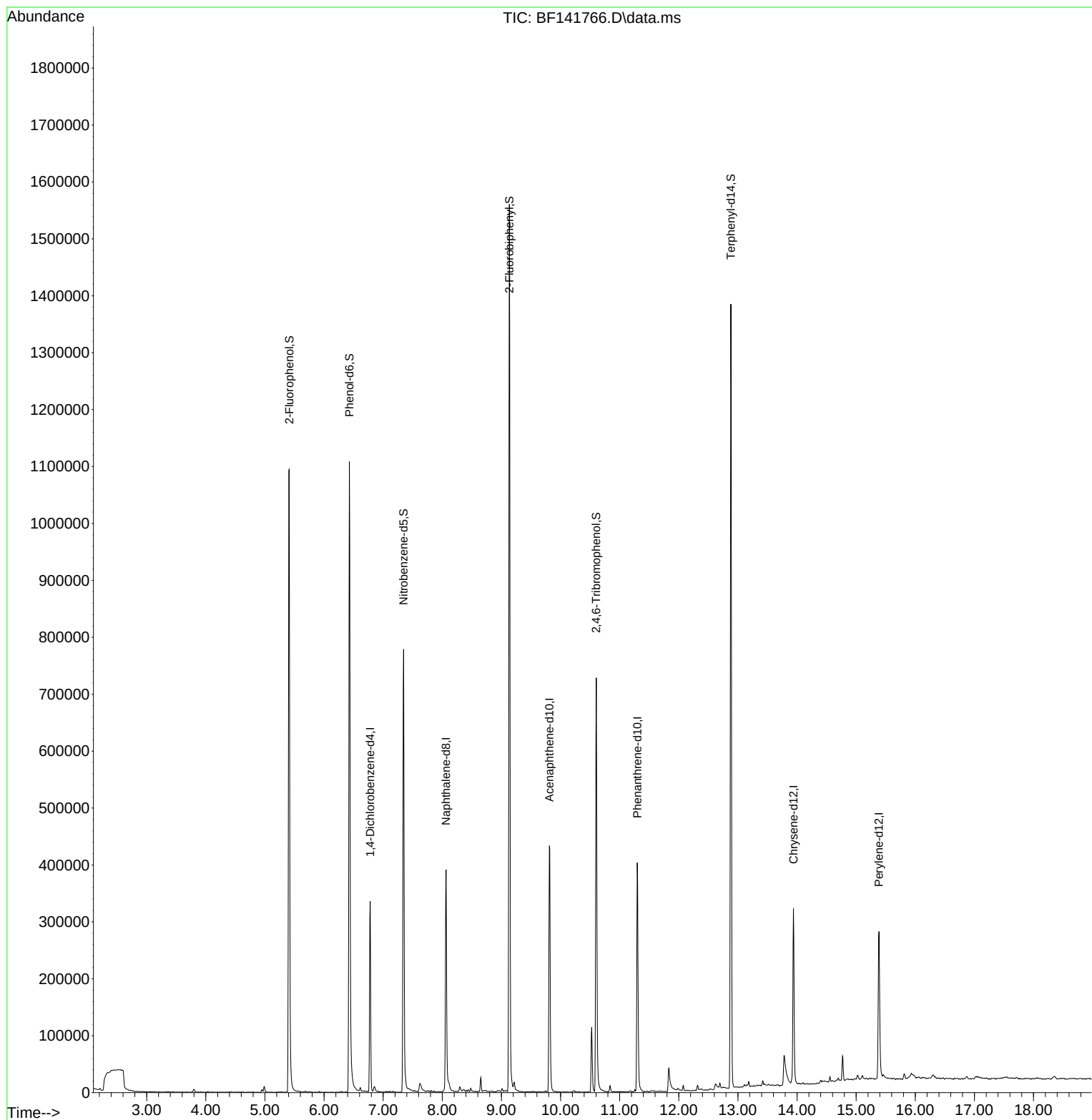
Target Compounds	Qvalue

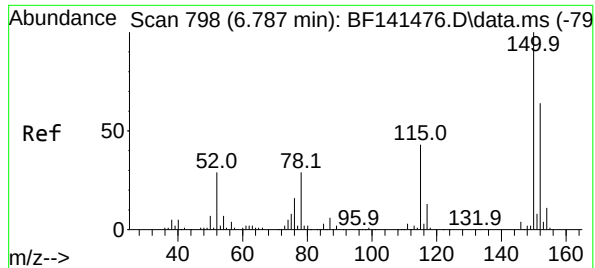
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Time: Feb 25 16:27:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

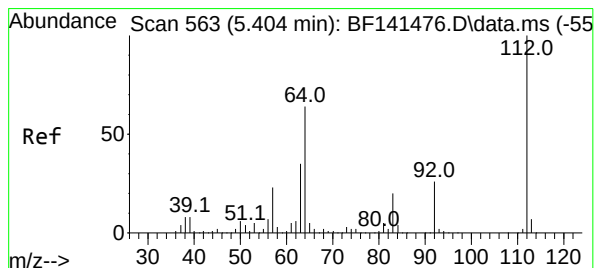
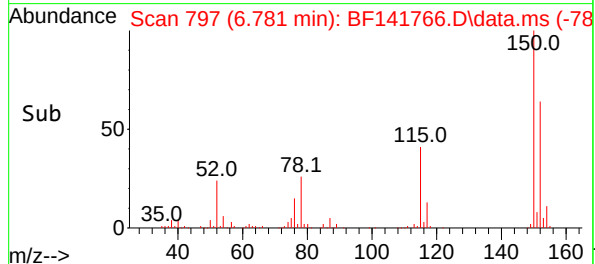
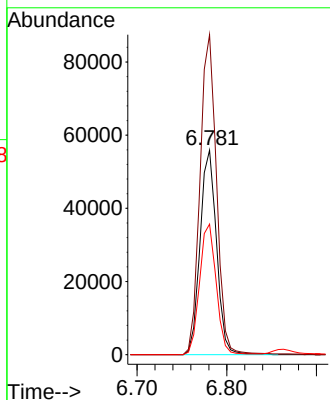
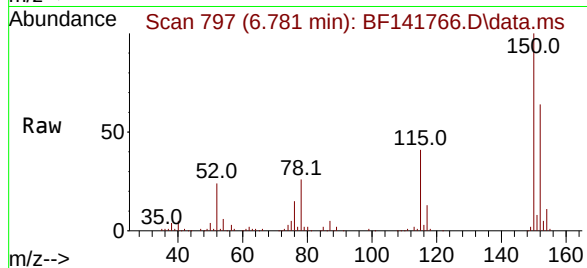




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

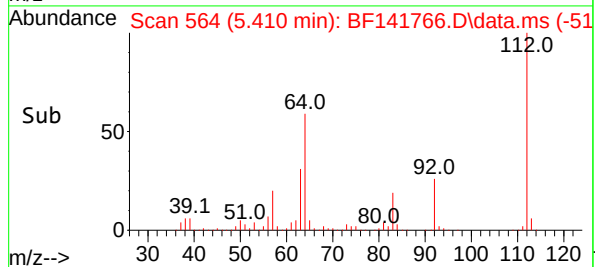
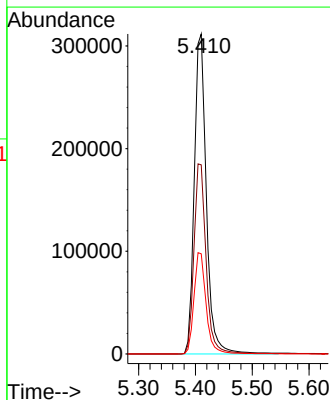
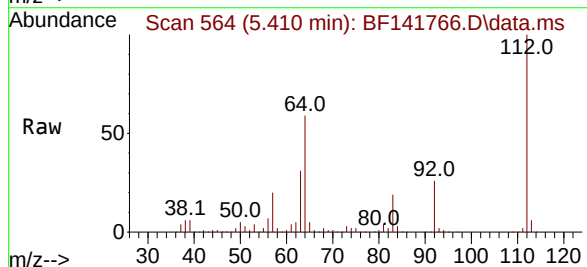
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

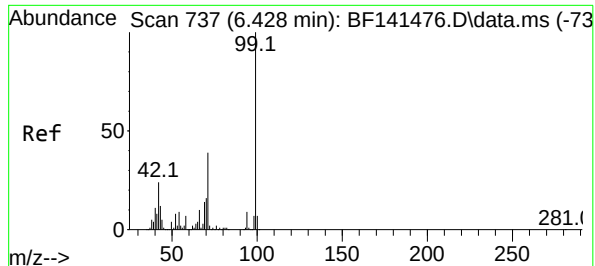
Tgt Ion:152 Resp: 71117
Ion Ratio Lower Upper
152 100
150 156.5 125.0 187.4
115 63.9 53.6 80.4



#5
2-Fluorophenol
Concen: 101.990 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:112 Resp: 462654
Ion Ratio Lower Upper
112 100
64 59.1 51.1 76.7
63 31.3 28.4 42.6

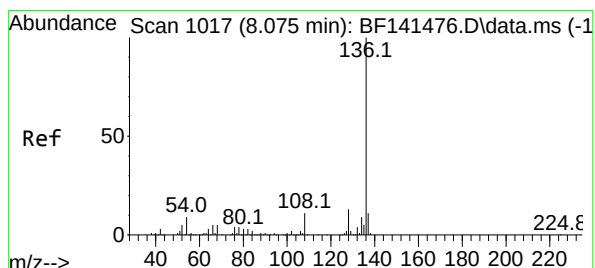
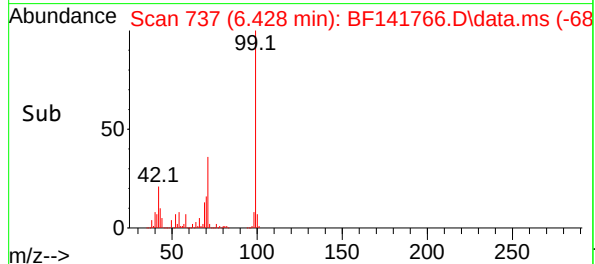
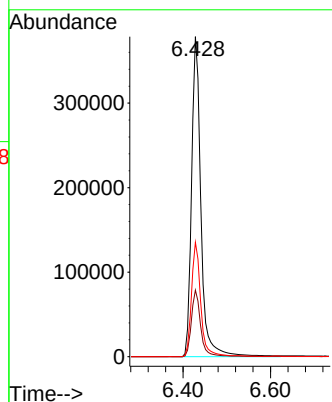
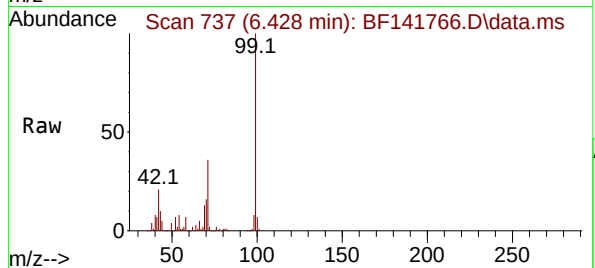




#7
Phenol-d6
Concen: 98.719 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

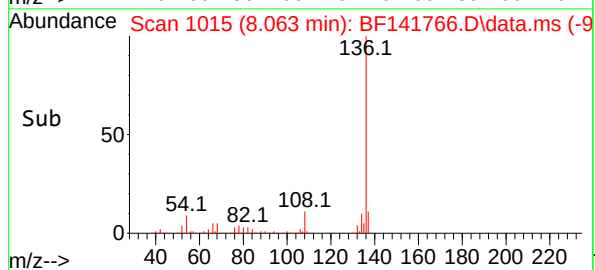
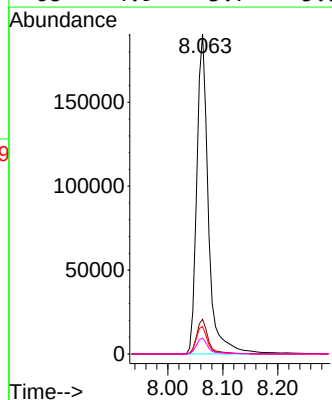
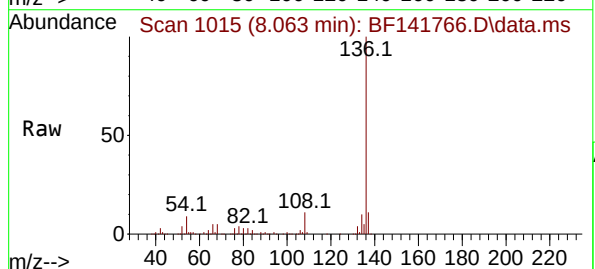
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

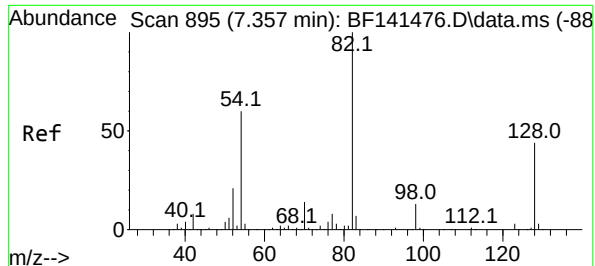
Tgt Ion: 99 Resp: 566004
Ion Ratio Lower Upper
99 100
42 20.8 19.1 28.7
71 35.8 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion: 136 Resp: 279572
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.5 7.2 10.8
68 4.9 3.7 5.5





#23

Nitrobenzene-d5

Concen: 68.577 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF141766.D

Acq: 25 Feb 2025 16:05

Instrument :

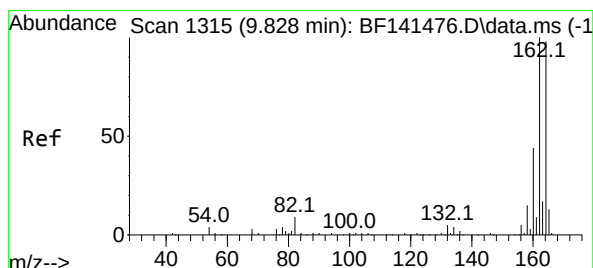
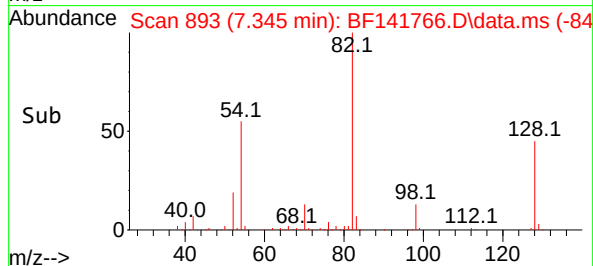
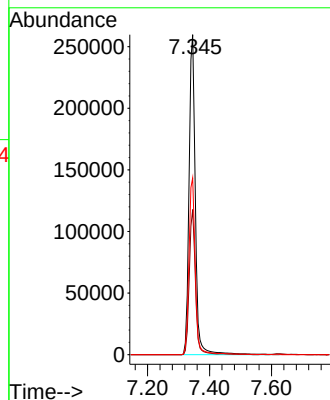
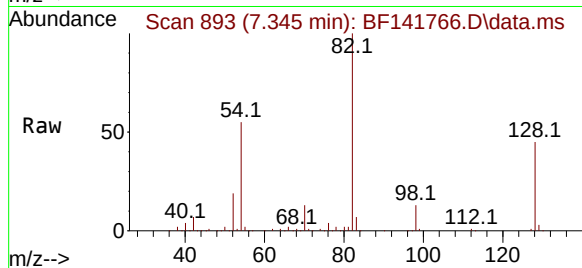
BNA_F

ClientSampleId :

B-172-SB02

Tgt Ion: 82 Resp: 367579

Ion	Ratio	Lower	Upper
82	100		
128	45.3	34.8	52.2
54	55.2	48.2	72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 1312

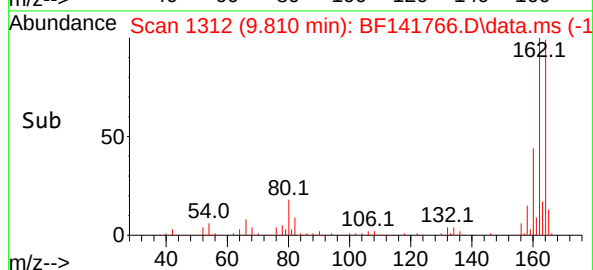
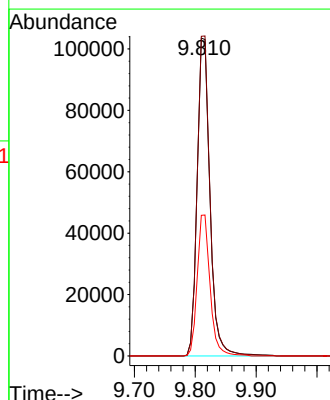
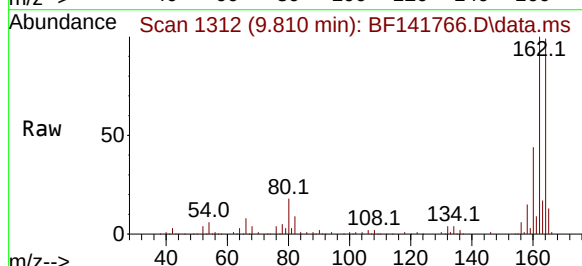
Delta R.T. -0.023 min

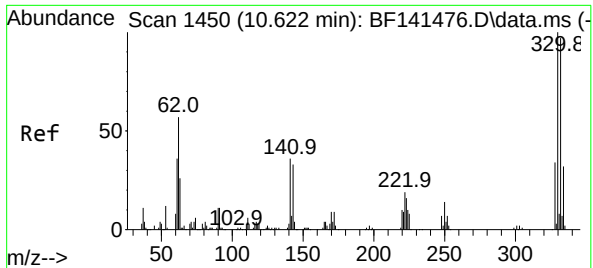
Lab File: BF141766.D

Acq: 25 Feb 2025 16:05

Tgt Ion:164 Resp: 151408

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.3	121.9
160	44.3	35.9	53.9





#42

2,4,6-Tribromophenol

Concen: 85.851 ng

RT: 10.604 min Scan# 1447

Delta R.T. -0.023 min

Lab File: BF141766.D

Acq: 25 Feb 2025 16:05

Instrument :

BNA_F

ClientSampleId :

B-172-SB02

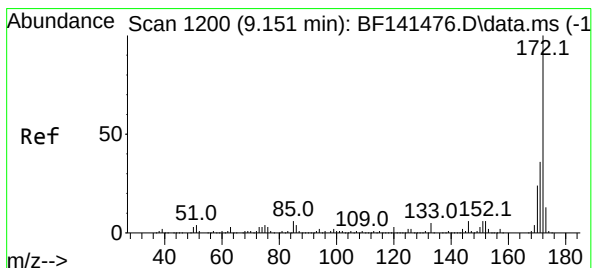
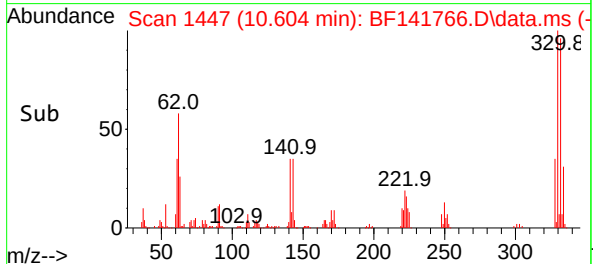
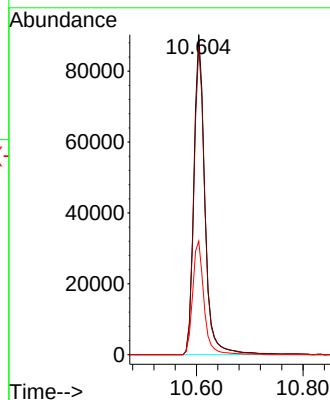
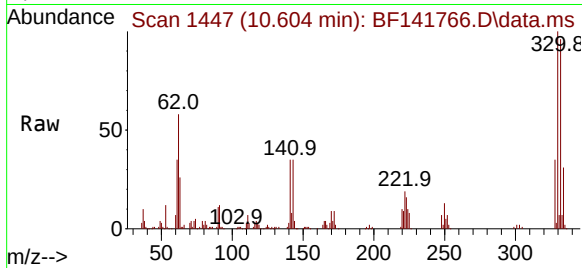
Tgt Ion:330 Resp: 130576

Ion Ratio Lower Upper

330 100

332 96.7 78.5 117.7

141 36.4 31.0 46.4



#45

2-Fluorobiphenyl

Concen: 73.004 ng

RT: 9.134 min Scan# 1197

Delta R.T. -0.017 min

Lab File: BF141766.D

Acq: 25 Feb 2025 16:05

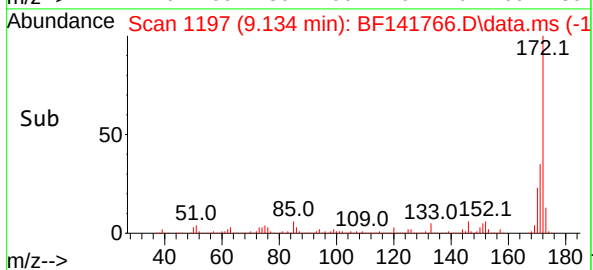
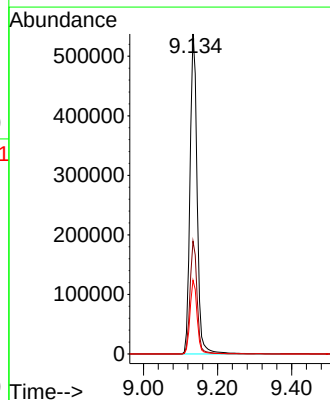
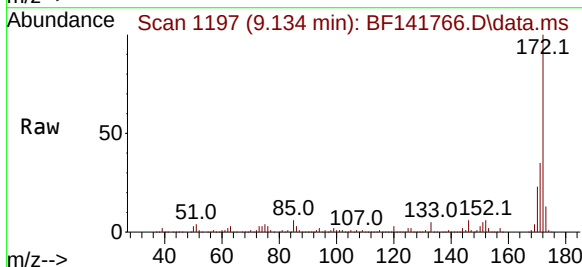
Tgt Ion:172 Resp: 717455

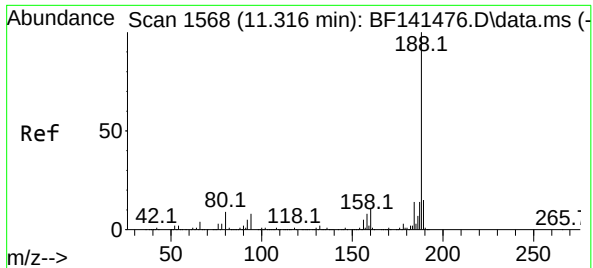
Ion Ratio Lower Upper

172 100

171 35.2 28.7 43.1

170 23.1 18.9 28.3

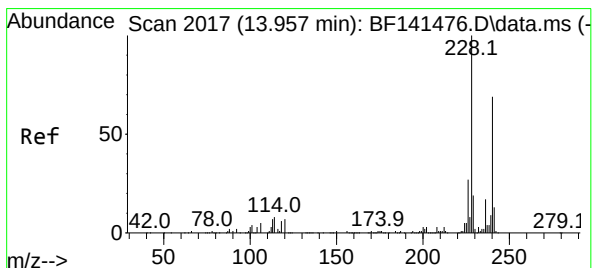
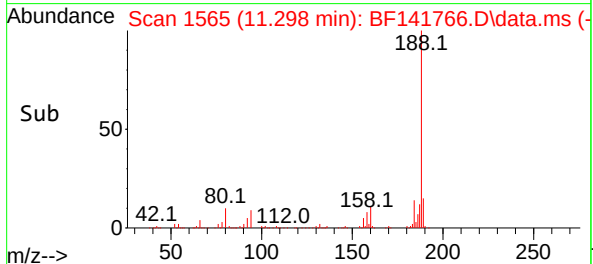
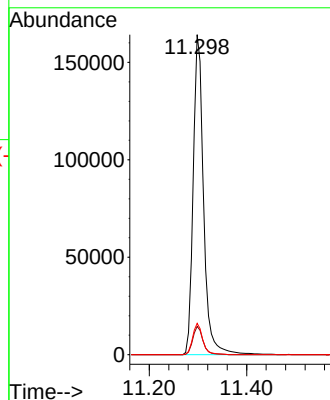
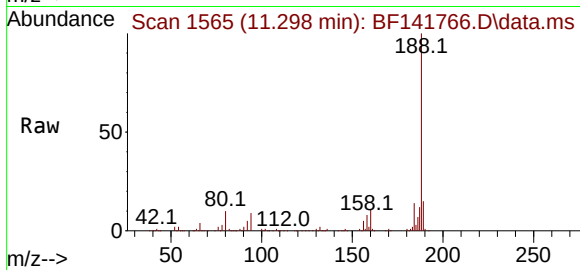




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

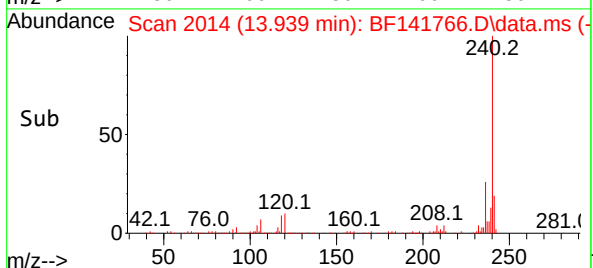
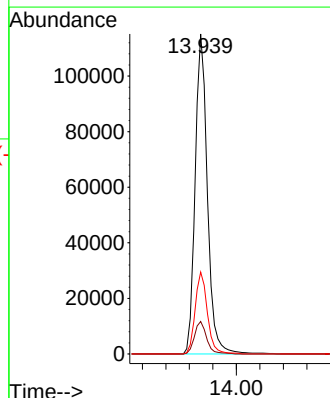
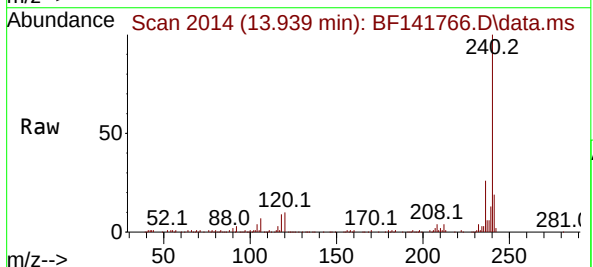
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

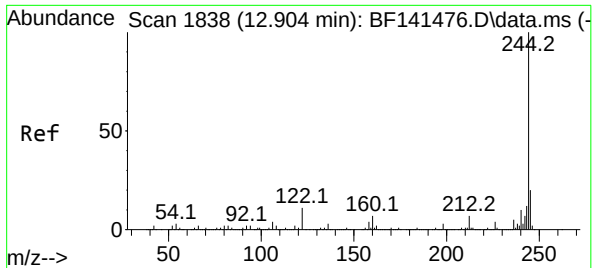
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.8	7.3	10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.0	12.0
236	25.6	19.8	29.8

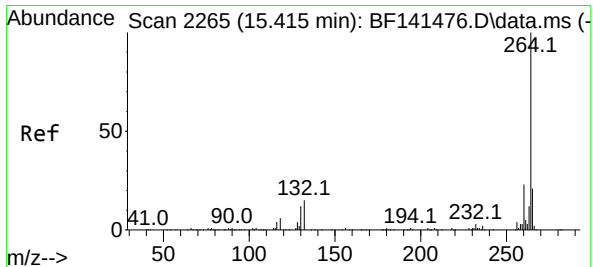
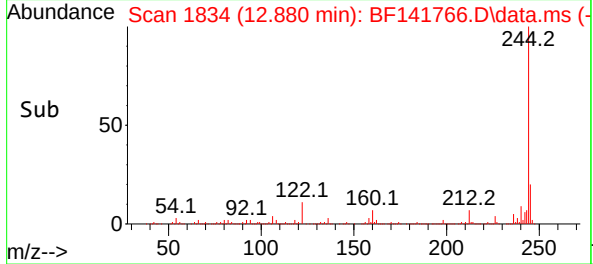
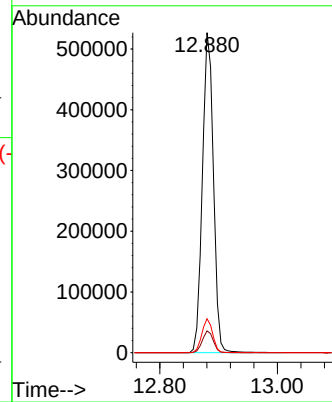
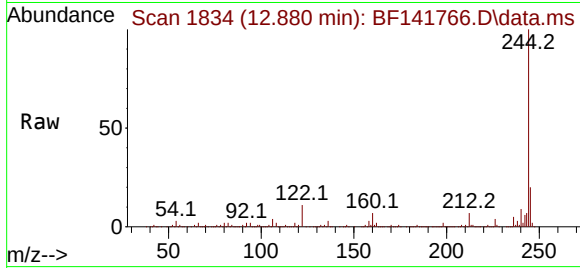




#79
Terphenyl-d14
Concen: 69.847 ng
RT: 12.880 min Scan# 1834
Delta R.T. -0.023 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

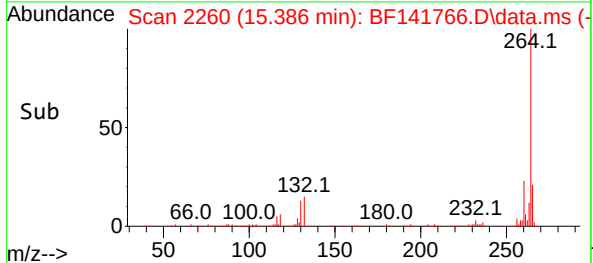
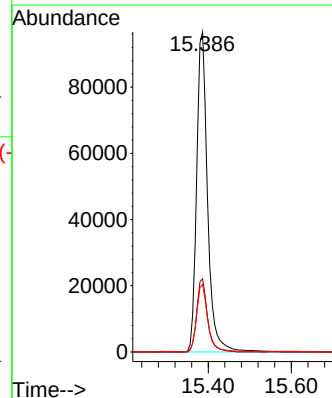
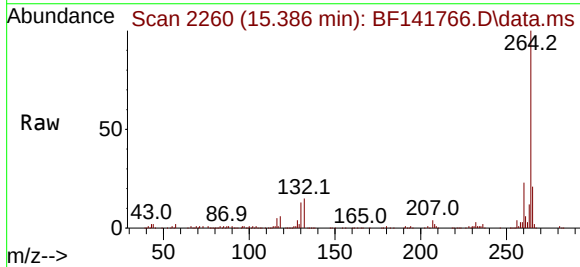
Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Tgt Ion:244 Resp: 686743
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 10.6 8.4 12.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141766.D
Acq: 25 Feb 2025 16:05

Tgt Ion:264 Resp: 176431
Ion Ratio Lower Upper
264 100
260 22.9 18.6 28.0
265 21.0 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141766.D
 Acq On : 25 Feb 2025 16:05
 Operator : RC/JU
 Sample : Q1415-04
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-172-SB02

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141766.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.340	28	42	44	rBV	31236	128873	6.32%	0.982%
2	5.410	558	564	586	rBV	1094751	1635295	80.21%	12.455%
3	6.428	732	737	764	rBV	1108126	1671376	81.98%	12.730%
4	6.781	792	797	804	rBV	334262	424685	20.83%	3.235%
5	7.345	887	893	906	rBV	777721	1087593	53.35%	8.284%
6	7.622	934	940	956	rBV	14620	45170	2.22%	0.344%
7	8.063	1002	1015	1034	rBV	390196	593890	29.13%	4.523%
8	8.651	1110	1115	1119	rBV	24145	29350	1.44%	0.224%
9	9.134	1192	1197	1208	rBV	1558902	2038701	100.00%	15.528%
10	9.810	1307	1312	1327	rBV	432528	622861	30.55%	4.744%
11	10.528	1429	1434	1442	rBV	114302	157215	7.71%	1.197%
12	10.604	1442	1447	1471	rVB	727269	1049440	51.48%	7.993%
13	11.298	1560	1565	1581	rVB	401888	585630	28.73%	4.461%
14	11.833	1650	1656	1674	rBV2	41156	108205	5.31%	0.824%
15	12.622	1785	1790	1799	rBV7	9460	26555	1.30%	0.202%
16	12.880	1829	1834	1845	rBV	1377181	1787256	87.67%	13.613%
17	13.780	1982	1987	2006	rBV2	51639	166360	8.16%	1.267%
18	13.939	2006	2014	2026	rVB	308480	453621	22.25%	3.455%
19	14.769	2151	2155	2161	rVB	42564	58922	2.89%	0.449%
20	15.386	2254	2260	2270	rBV	257415	458242	22.48%	3.490%

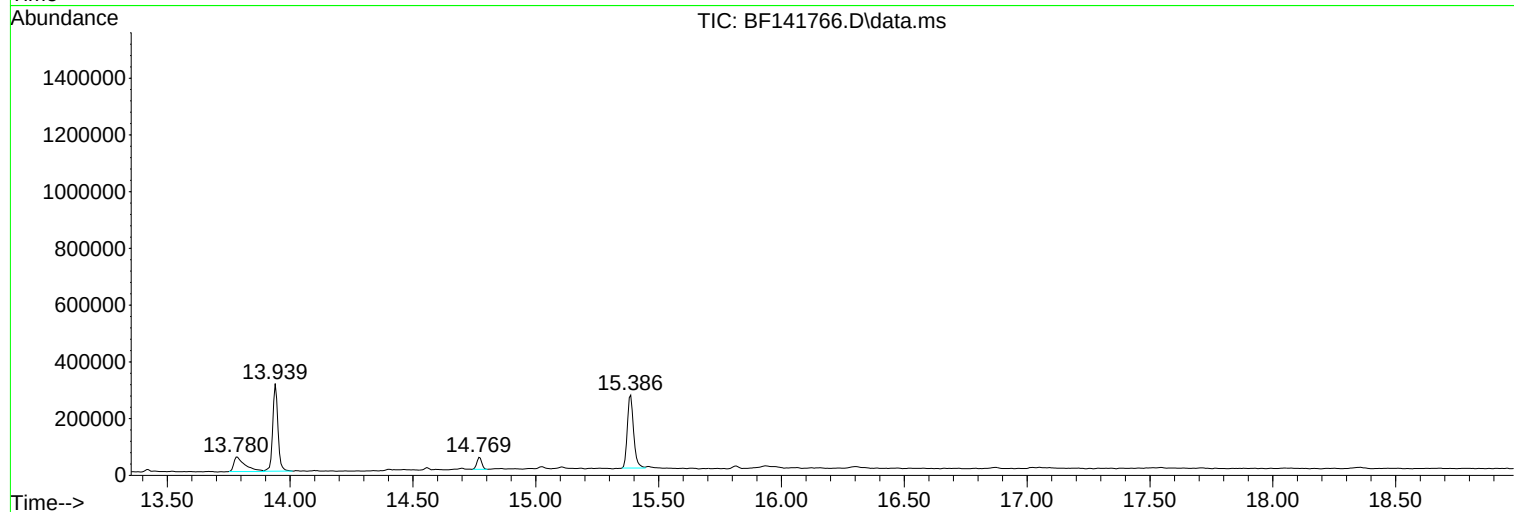
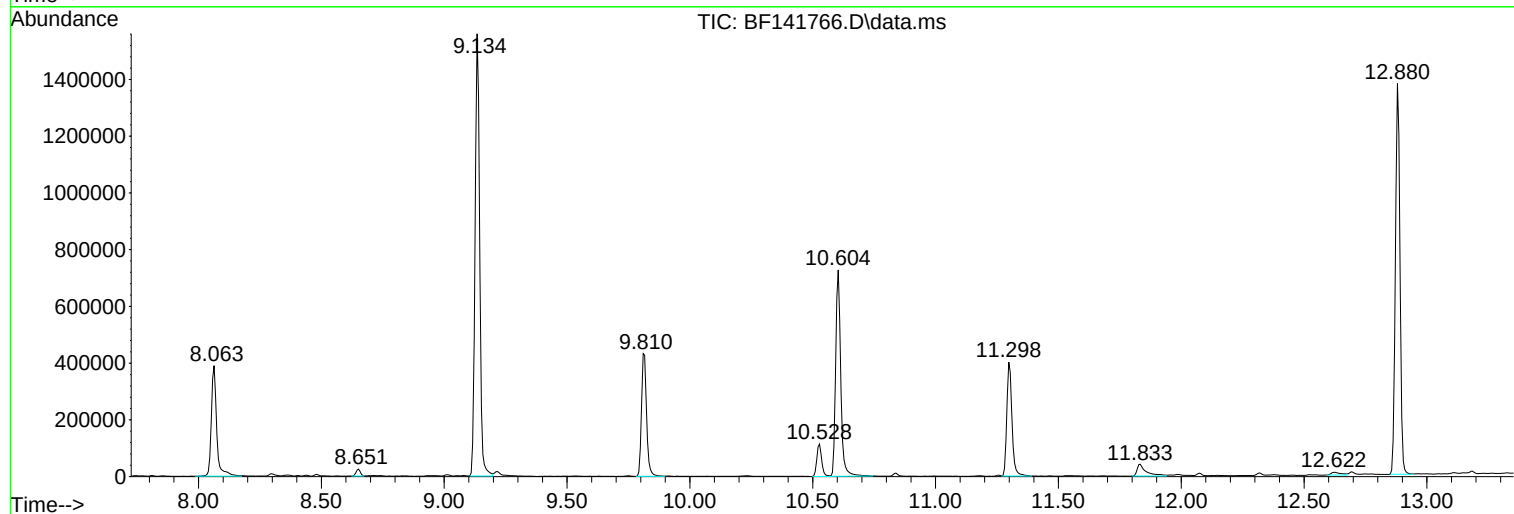
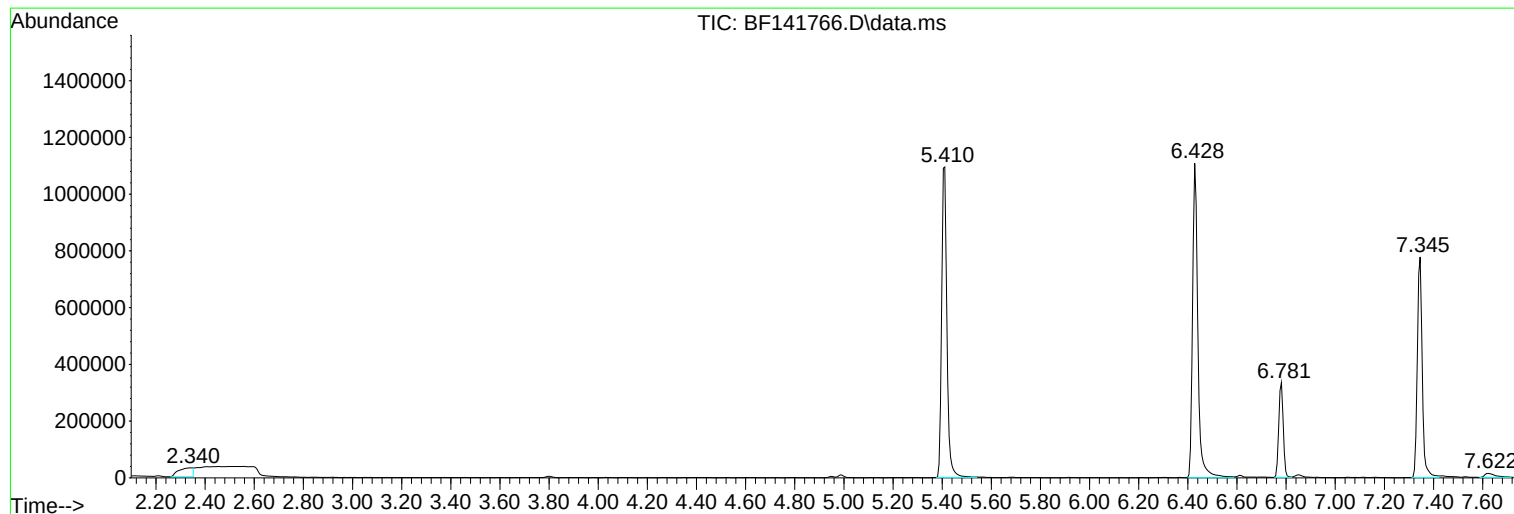
Sum of corrected areas: 13129240

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

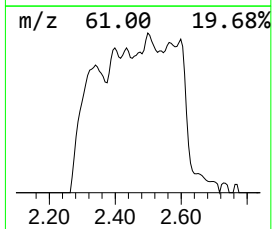
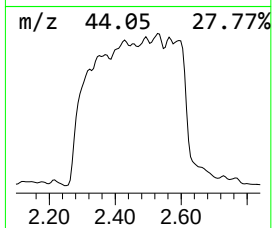
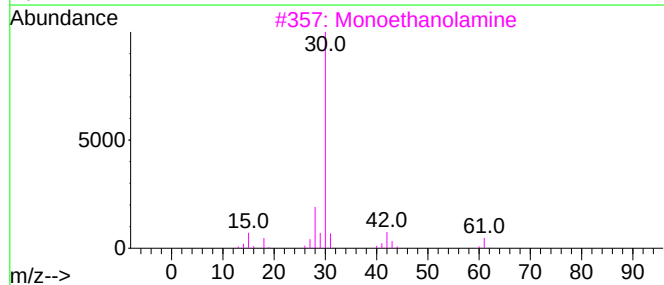
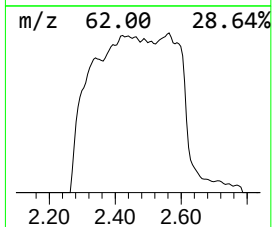
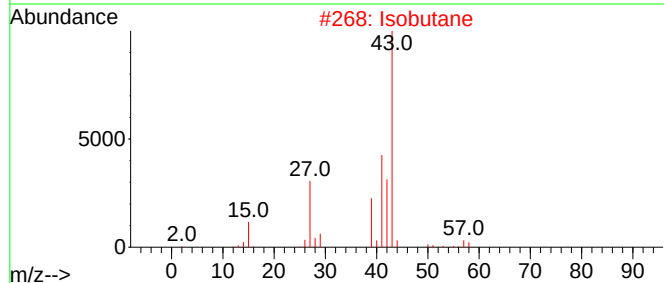
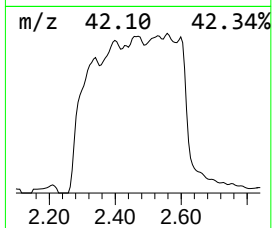
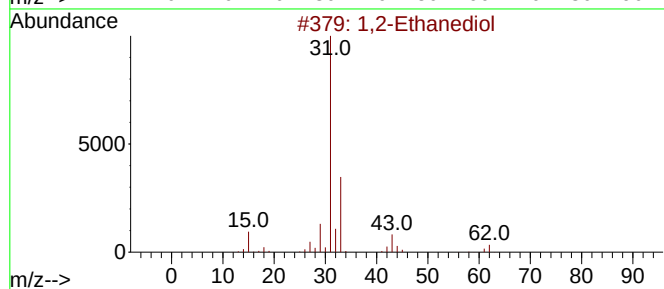
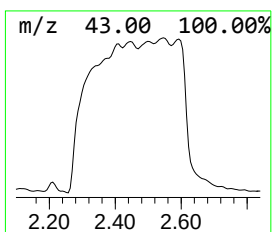
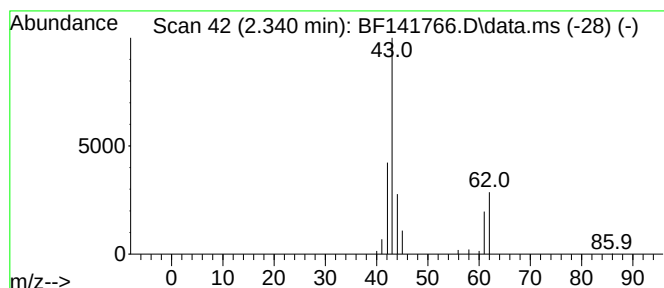
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown2.340 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.340	6.07 ng	128873	1,4-Dichlorobenzene-d4	6.781

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1,2-Ethanediol	62	C2H6O2	000107-21-1	9
2		Isobutane	58	C4H10	000075-28-5	4
3		Monoethanolamine	61	C2H7NO	000141-43-5	3
4		Peroxide, dimethyl	62	C2H6O2	000690-02-8	3
5		Diglycolamine	105	C4H11NO2	000929-06-6	2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

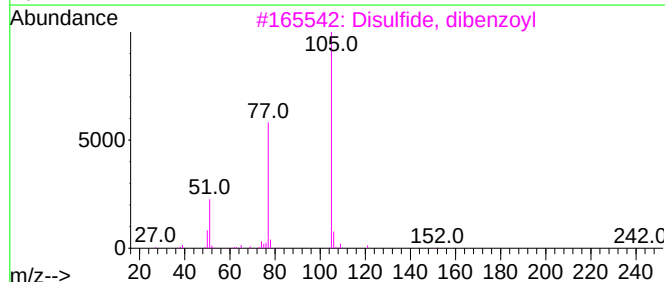
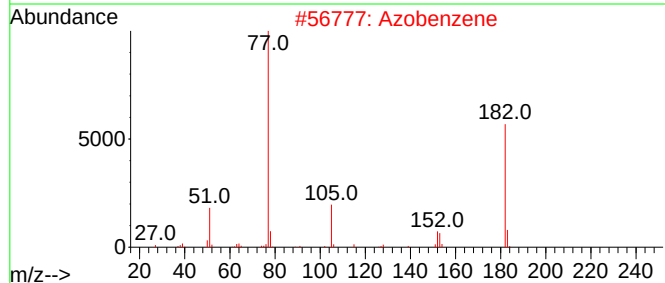
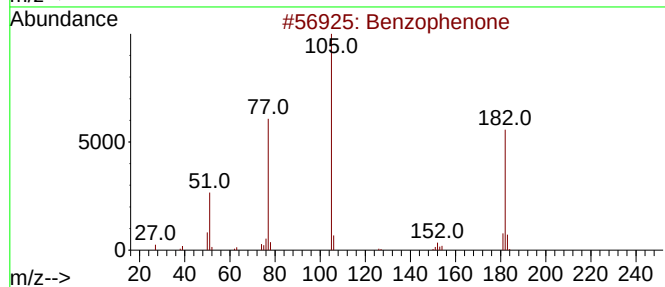
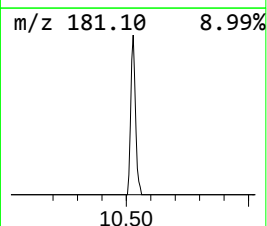
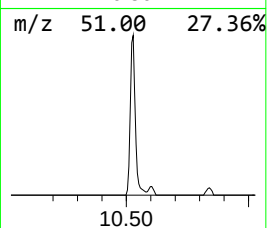
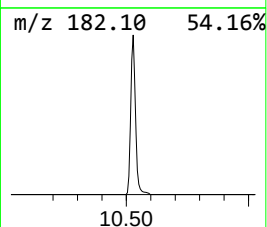
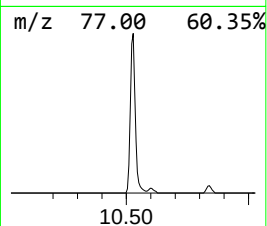
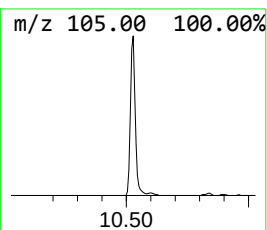
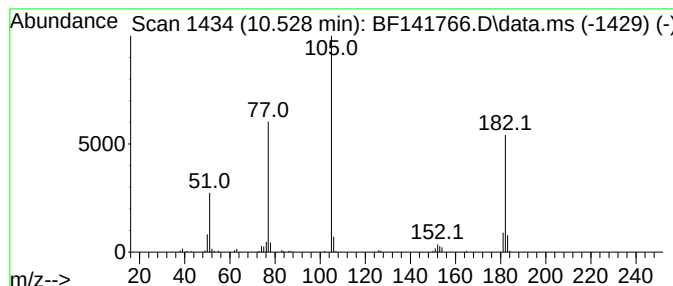
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	5.05 ng	157215	Acenaphthene-d10	9.810

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Azobenzene	182	C12H10N2	000103-33-3	59
3			Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4			Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	47
5			Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

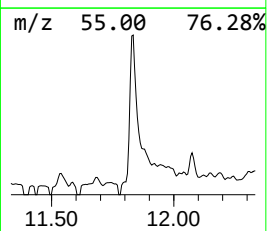
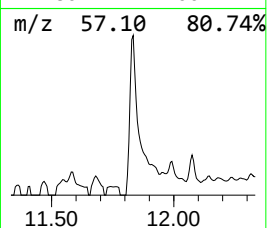
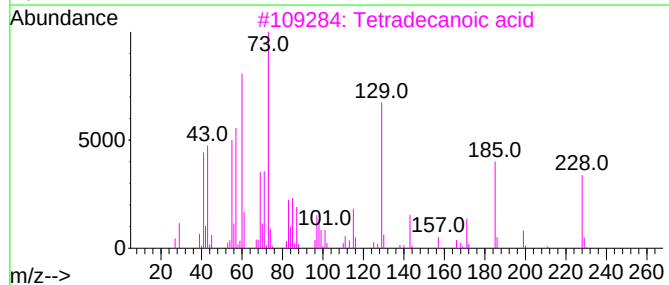
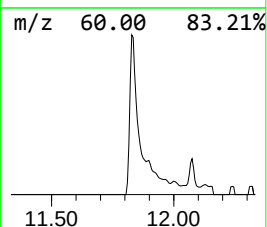
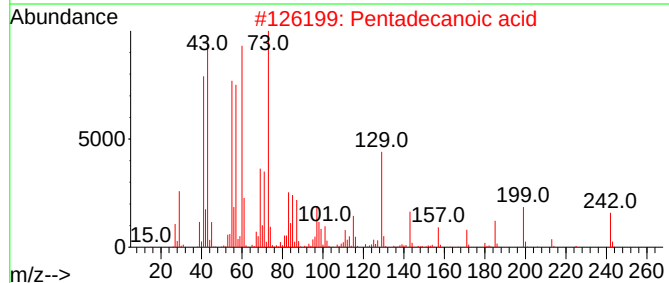
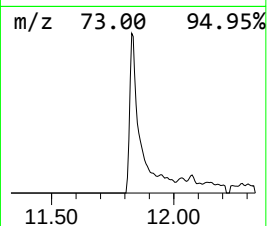
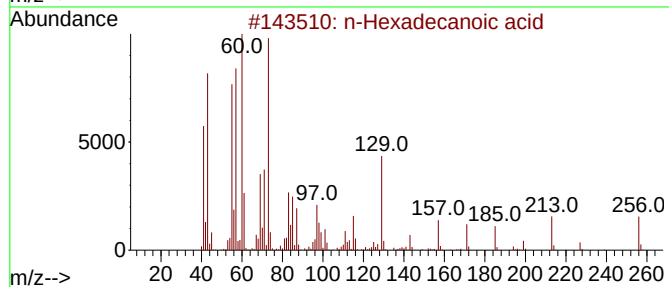
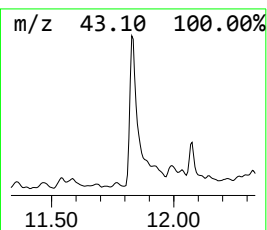
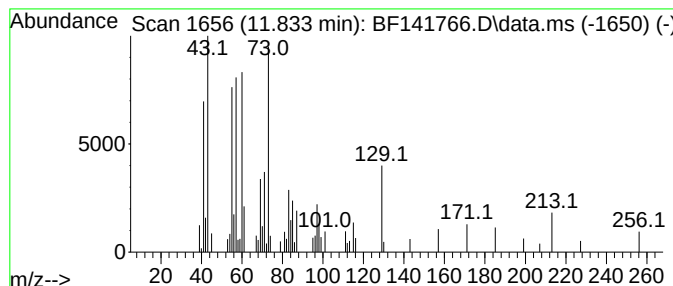
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.833	3.70 ng	108205	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2			Pentadecanoic acid	242	C15H30O2	001002-84-2	90
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4			n-Decanoic acid	172	C10H20O2	000334-48-5	53
5			Tridecanoic acid	214	C13H26O2	000638-53-9	53



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

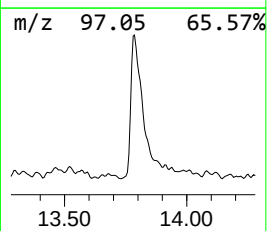
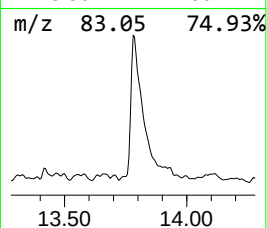
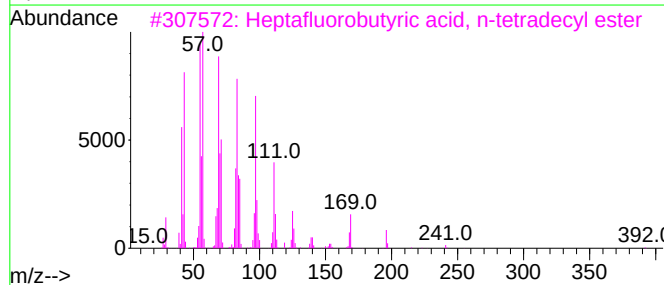
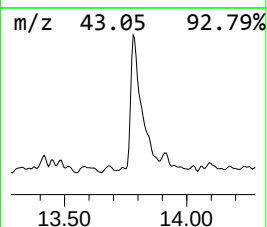
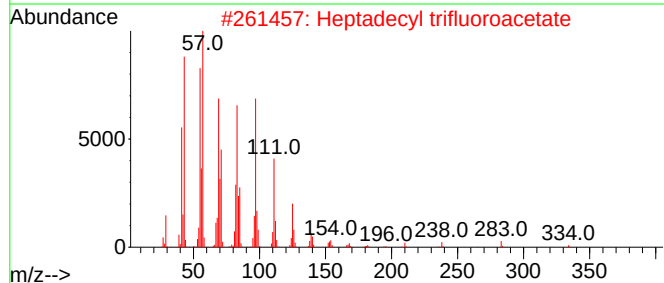
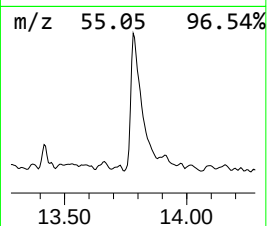
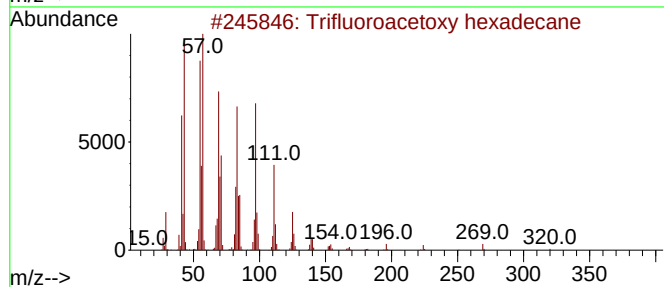
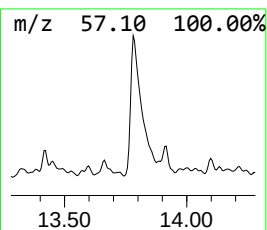
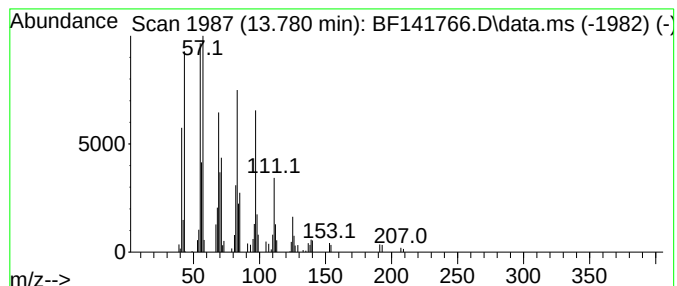
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Trifluoroacetoxy hexadecane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.780	7.33 ng	166360	Chrysene-d12	13.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2			Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	95
3			Heptafluorobutyric acid, n-tetra...	410	C18H29F7O2	007365-36-8	94
4			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
5			Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

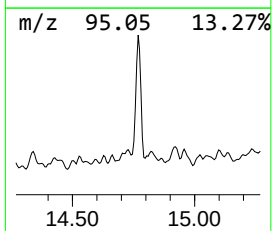
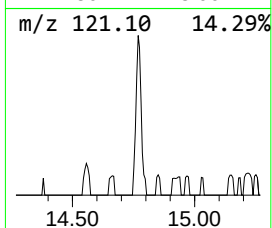
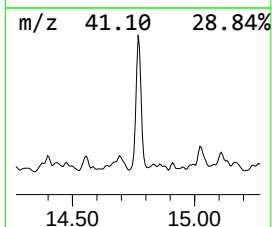
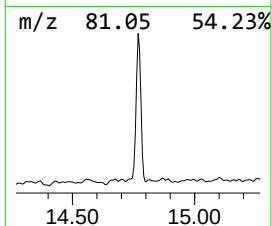
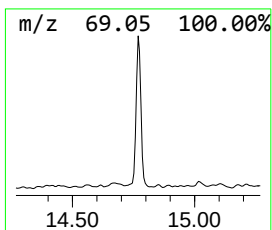
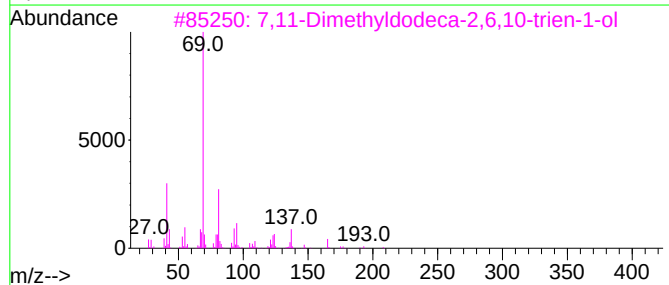
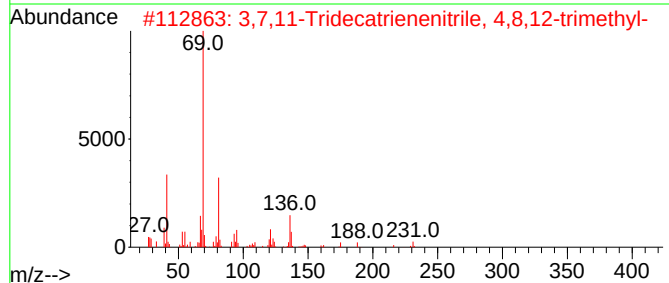
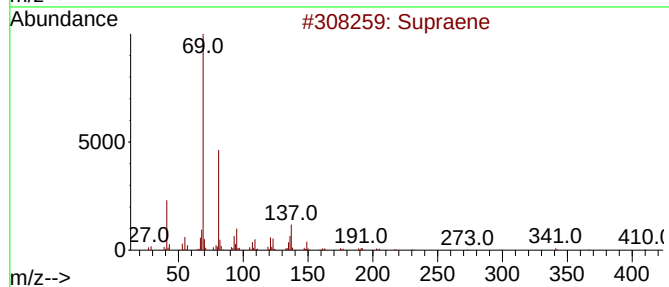
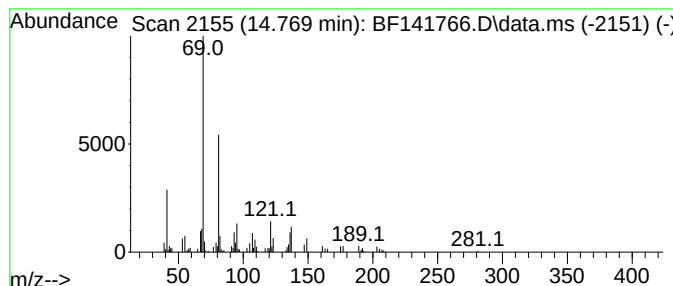
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Supraene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	2.57 ng	58922	Perylene-d12	15.386

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Supraene	410	C30H50	007683-64-9	87
2			3,7,11-Tridecatrienitrile, 4,8...	231	C16H25N	006006-01-5	72
3			7,11-Dimethyldodeca-2,6,10-trien...	208	C14H24O	125529-10-4	72
4			Umbelliprenin	366	C24H30O3	023838-17-7	72
5			4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141766.D
Acq On : 25 Feb 2025 16:05
Operator : RC/JU
Sample : Q1415-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-172-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown2.340	2.340	6.1	ng	128873	1	6.781	424685	20.0
Benzophenone	10.528	5.0	ng	157215	3	9.810	622861	20.0
n-Hexadecanoic ...	11.833	3.7	ng	108205	4	11.298	585630	20.0
Trifluoroacetox...	13.780	7.3	ng	166360	5	13.939	453621	20.0
Supraene	14.769	2.6	ng	58922	6	15.386	458242	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
108-95-2	Phenol	0.97	U	0.97	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.74	U	0.74	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.92	U	0.92	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.4	ug/L
59-50-7	4-Chloro-3-methylphenol	0.88	U	0.88	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	U	5.20	10.4	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
92-52-4	1,1-Biphenyl	0.95	U	0.95	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.97	U	0.97	5.20	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.70	U	6.70	10.4	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.4	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	U	3.20	10.4	ug/L
86-30-6	n-Nitrosodiphenylamine	0.93	U	0.93	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.99	U	0.99	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.4	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.4	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.82	U	0.82	5.20	ug/L

SURROGATES

367-12-4	2-Fluorophenol	23.3		15 (10) - 110 (139)	31%	SPK: 75
13127-88-3	Phenol-d6	13.1		15 (10) - 110 (134)	18%	SPK: 75
4165-60-0	Nitrobenzene-d5	38.6		30 (49) - 130 (133)	77%	SPK: 50
321-60-8	2-Fluorobiphenyl	39.7		30 (52) - 130 (132)	79%	SPK: 50
118-79-6	2,4,6-Tribromophenol	57.7		15 (44) - 110 (137)	77%	SPK: 75
1718-51-0	Terphenyl-d14	39.6		30 (48) - 130 (125)	79%	SPK: 50

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	78200	6.781
1146-65-2	Naphthalene-d8	312000	8.063
15067-26-2	Acenaphthene-d10	173000	9.816
1517-22-2	Phenanthrene-d10	307000	11.298
1719-03-5	Chrysene-d12	235000	13.939
1520-96-3	Perylene-d12	196000	15.386

TENTATIVE IDENTIFIED COMPOUNDS

132739-31-2	1-(1-tert-Butoxypropan-2-yloxy)pro	2.30	J	8.31	ug/L
000057-10-3	n-Hexadecanoic acid	3.40	J	11.8	ug/L
000112-80-1	Oleic Acid	5.10	J	12.5	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	FB02222025	SDG No.:	Q1415
Lab Sample ID:	Q1415-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	480 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141788.D	1	02/26/25 08:45	02/26/25 17:56	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Time: Feb 27 00:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	78152	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	311819	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	173235	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	306559	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	234571	20.000	ng	-0.02
86) Perylene-d12	15.386	264	196458	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	232019	46.543	ng	0.00
7) Phenol-d6	6.428	99	165420	26.255	ng	-0.01
23) Nitrobenzene-d5	7.345	82	461089	77.127	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	200755	115.362	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	892377	79.362	ng	-0.02
79) Terphenyl-d14	12.886	244	1101084	79.243	ng	-0.02

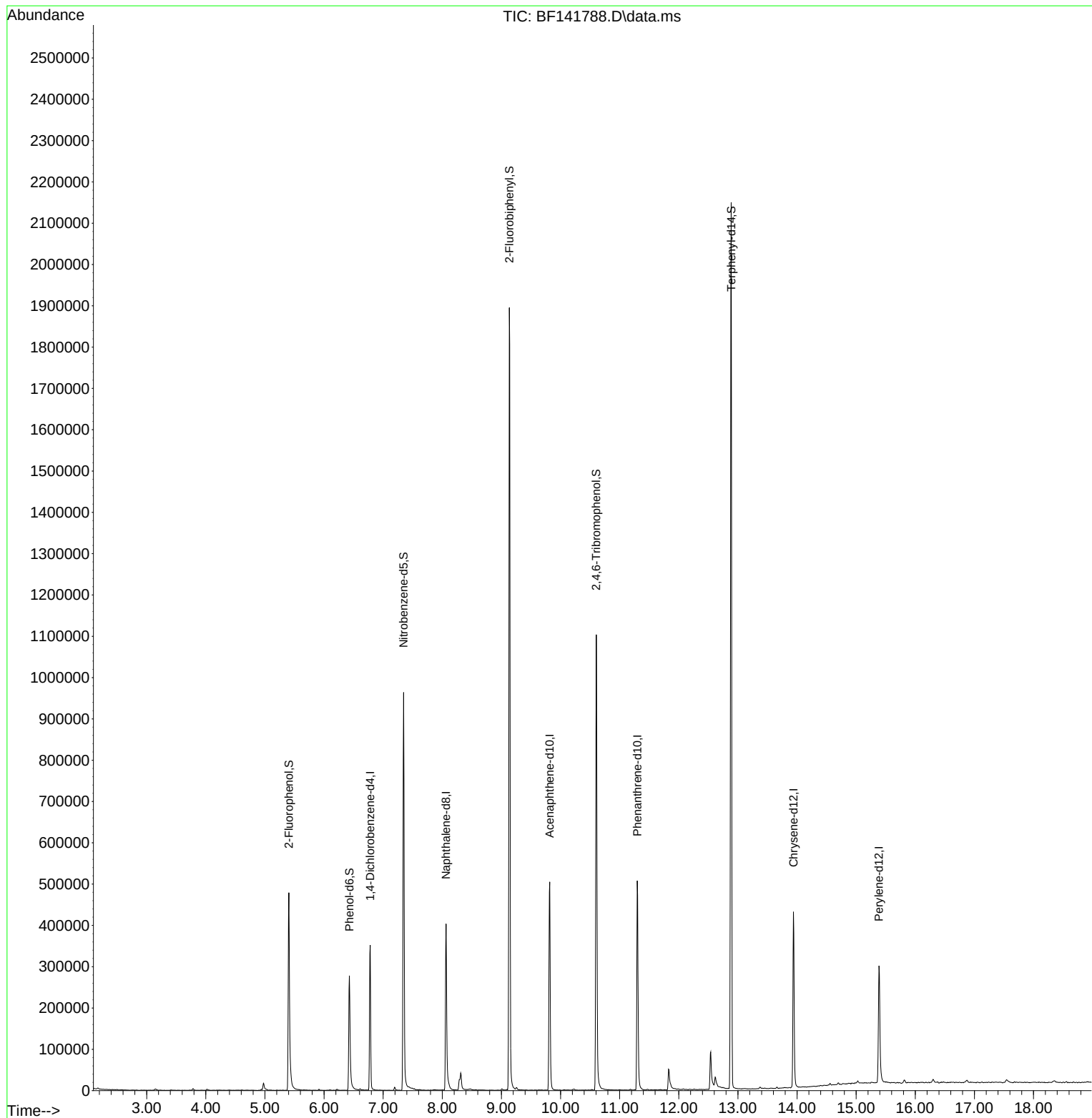
Target Compounds	Qvalue

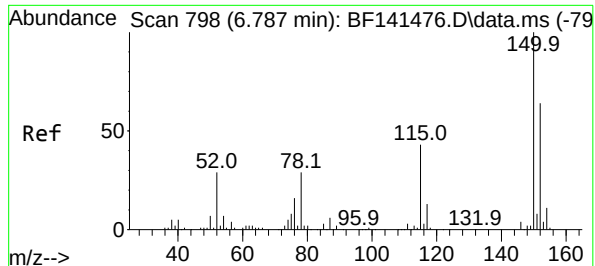
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Time: Feb 27 00:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

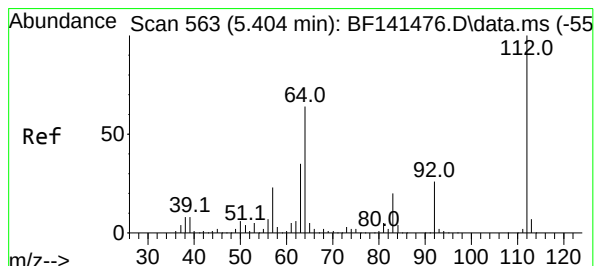
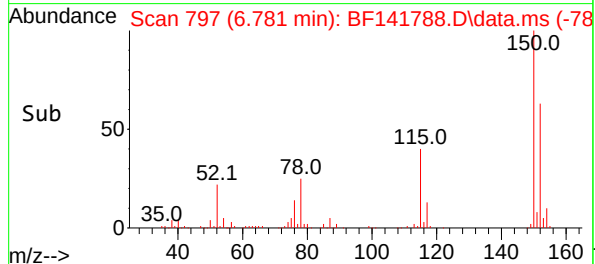
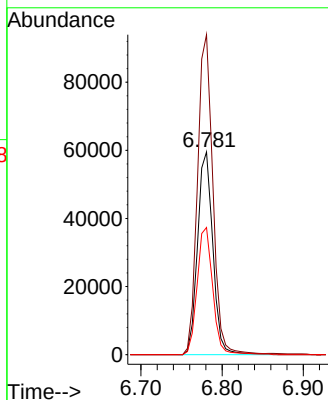
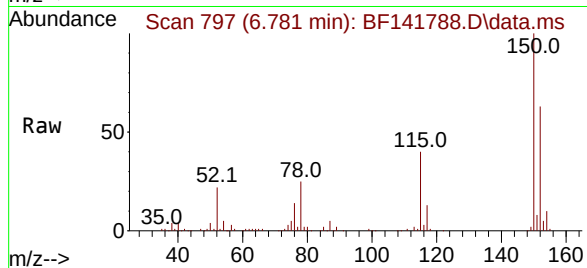




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

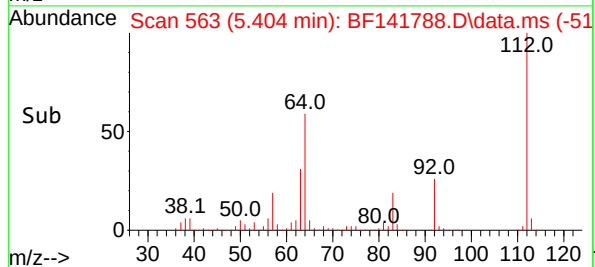
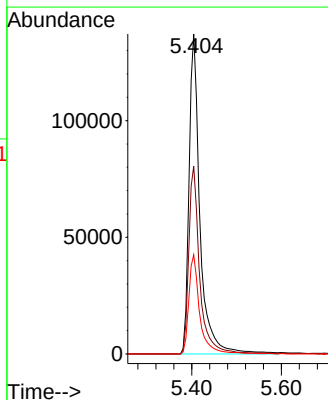
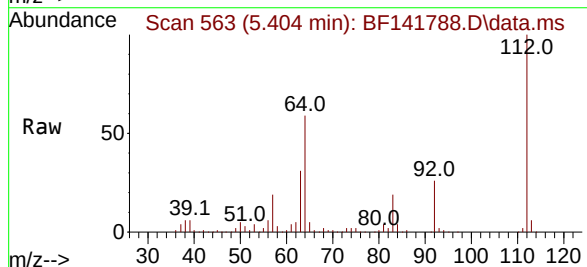
Instrument :
BNA_F
ClientSampleId :
FB02222025

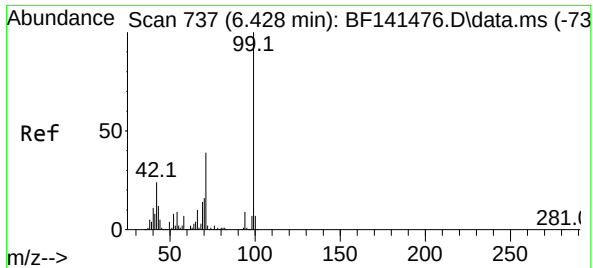
Tgt Ion:152 Resp: 78152
Ion Ratio Lower Upper
152 100
150 157.8 125.0 187.4
115 62.7 53.6 80.4



#5
2-Fluorophenol
Concen: 46.543 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion:112 Resp: 232019
Ion Ratio Lower Upper
112 100
64 58.7 51.1 76.7
63 31.0 28.4 42.6

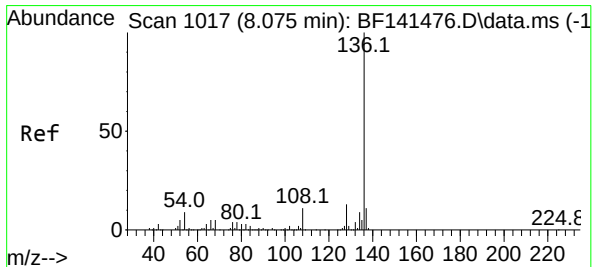
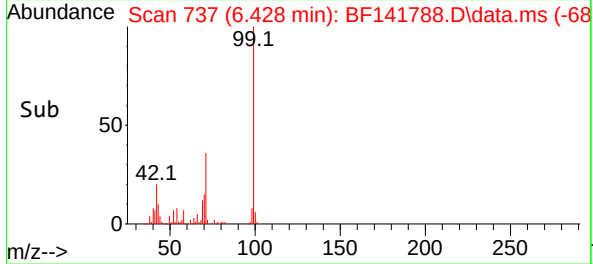
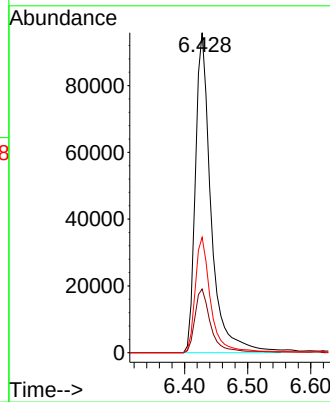
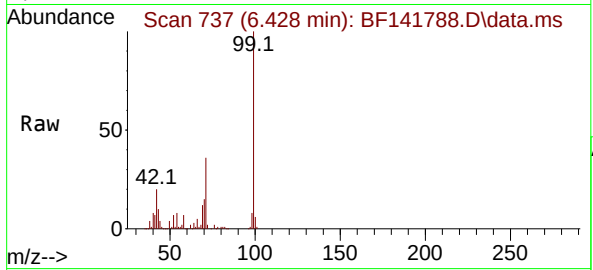




#7
Phenol-d6
Concen: 26.255 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

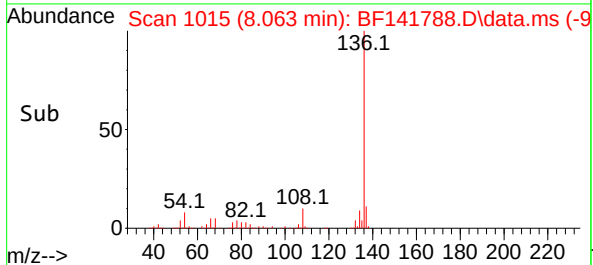
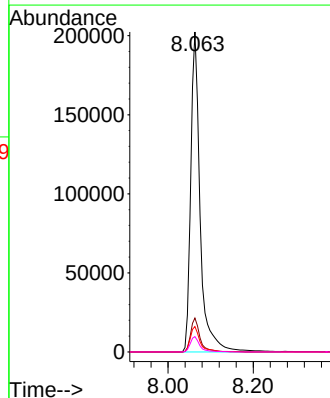
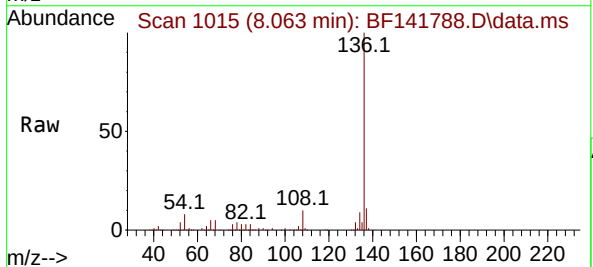
Instrument :
BNA_F
ClientSampleId :
FB02222025

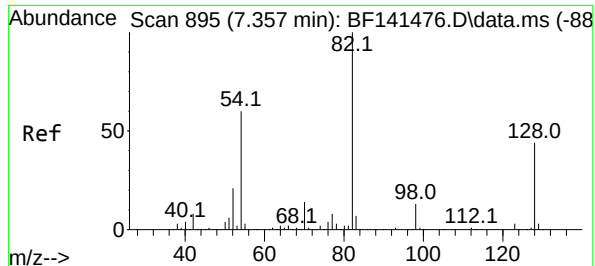
Tgt Ion: 99 Resp: 165420
Ion Ratio Lower Upper
99 100
42 19.9 19.1 28.7
71 36.1 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141788.D
Acq: 26 Feb 2025 17:56

Tgt Ion: 136 Resp: 311819
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 7.9 7.2 10.8
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 77.127 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

Instrument :

BNA_F

ClientSampleId :

FB02222025

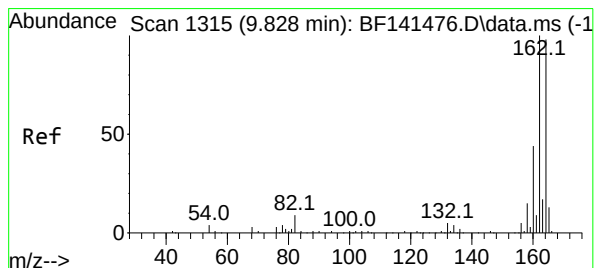
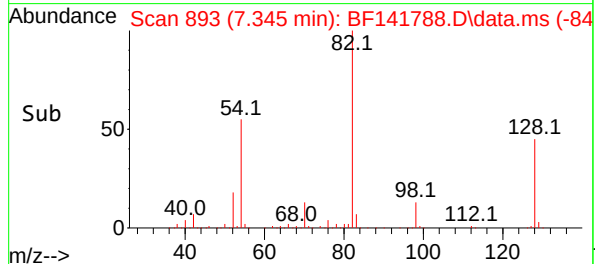
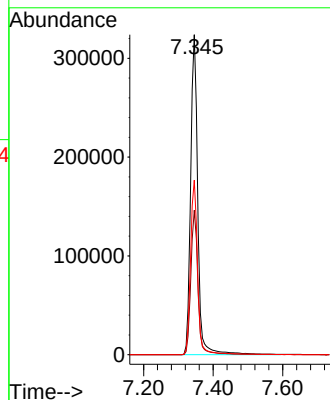
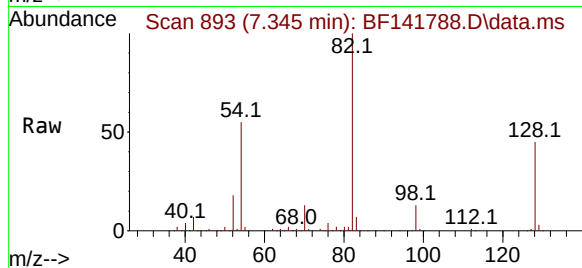
Tgt Ion: 82 Resp: 461089

Ion Ratio Lower Upper

82 100

128 45.1 34.8 52.2

54 54.6 48.2 72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1313

Delta R.T. -0.017 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

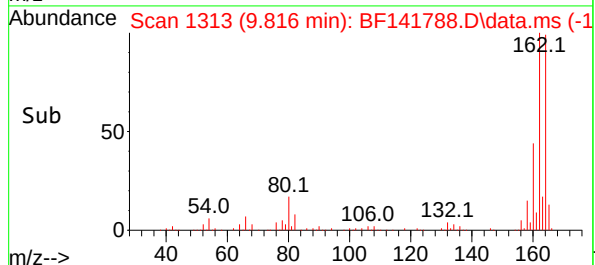
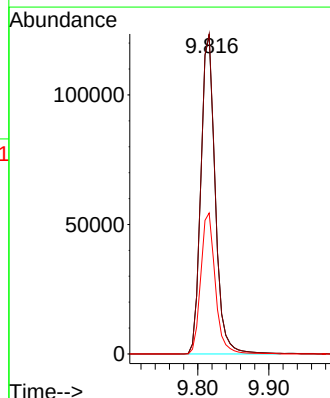
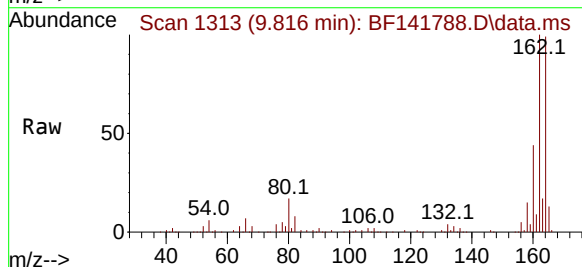
Tgt Ion:164 Resp: 173235

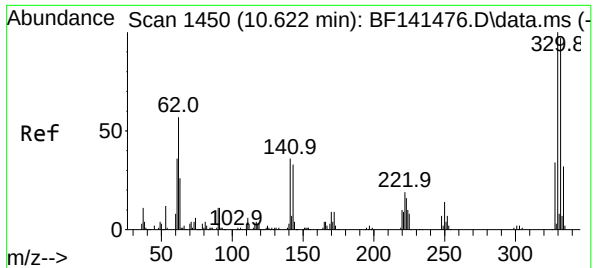
Ion Ratio Lower Upper

164 100

162 100.6 81.3 121.9

160 44.3 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 115.362 ng

RT: 10.604 min Scan# 1450

Delta R.T. -0.023 min

Lab File: BF141788.D

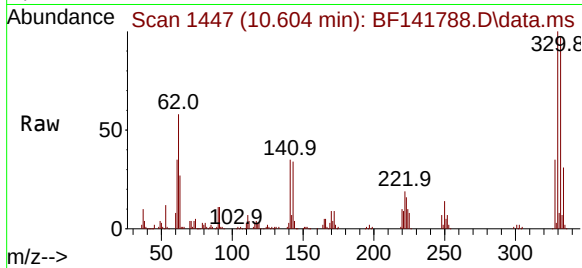
Acq: 26 Feb 2025 17:56

Instrument :

BNA_F

ClientSampleId :

FB02222025



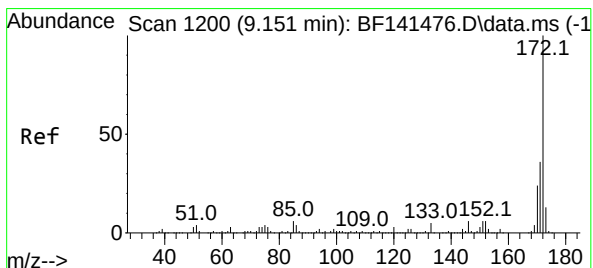
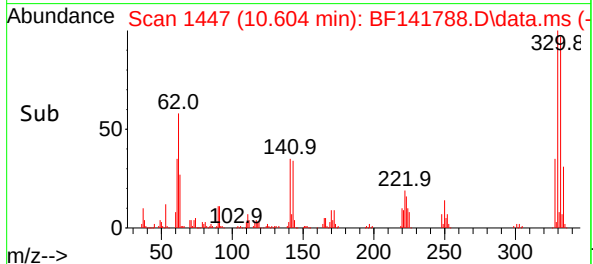
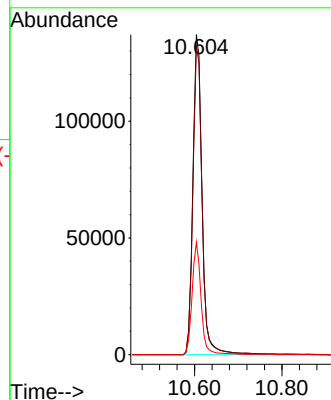
Tgt Ion:330 Resp: 200755

Ion Ratio Lower Upper

330 100

332 96.7 78.5 117.7

141 34.2 31.0 46.4



#45

2-Fluorobiphenyl

Concen: 79.362 ng

RT: 9.134 min Scan# 1197

Delta R.T. -0.017 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

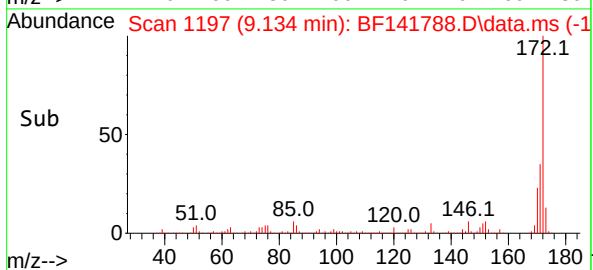
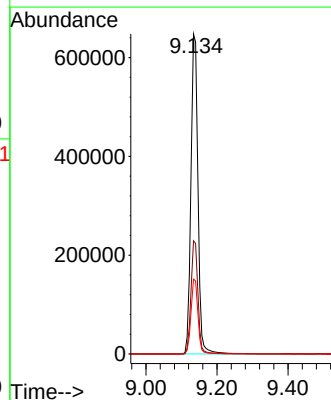
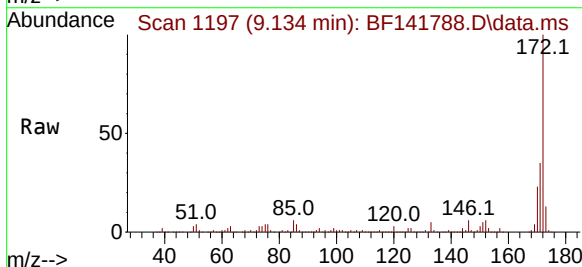
Tgt Ion:172 Resp: 892377

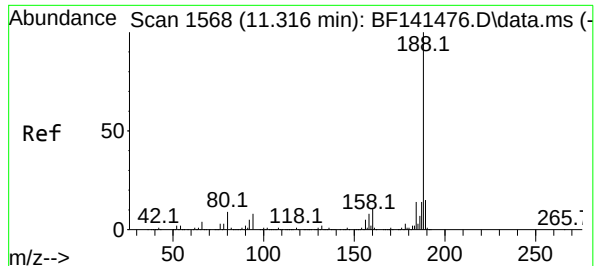
Ion Ratio Lower Upper

172 100

171 35.3 28.7 43.1

170 23.4 18.9 28.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1

Delta R.T. -0.017 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

Instrument :

BNA_F

ClientSampleId :

FB02222025

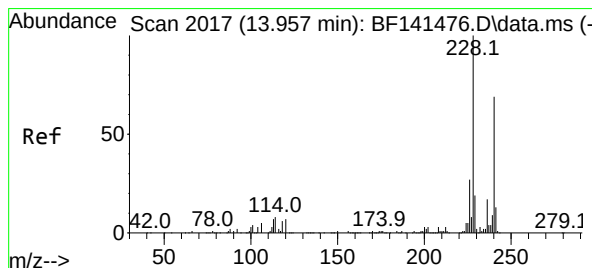
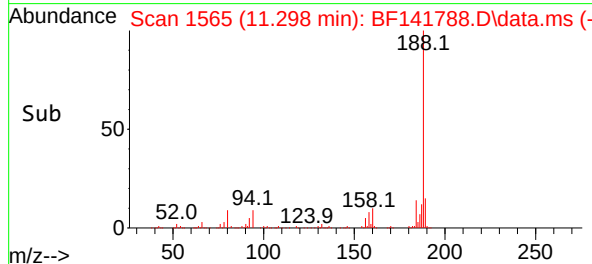
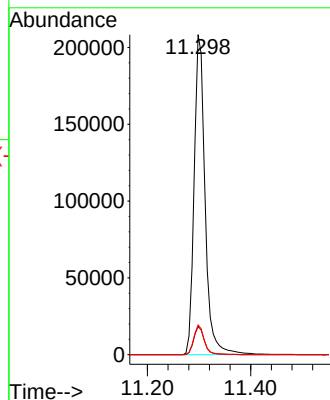
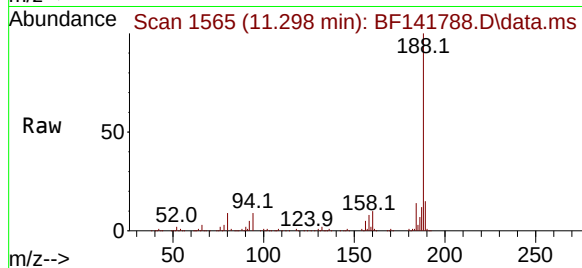
Tgt Ion:188 Resp: 306559

Ion Ratio Lower Upper

188 100

94 8.8 6.6 10.0

80 9.3 7.3 10.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2014

Delta R.T. -0.023 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

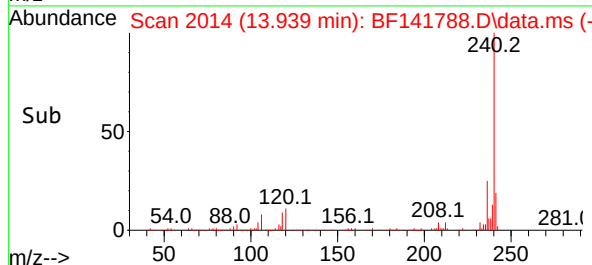
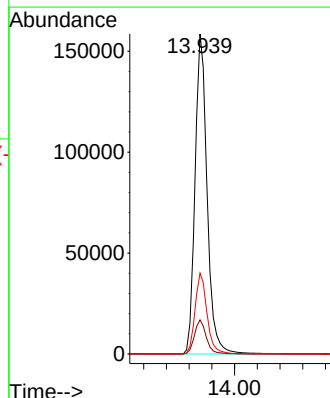
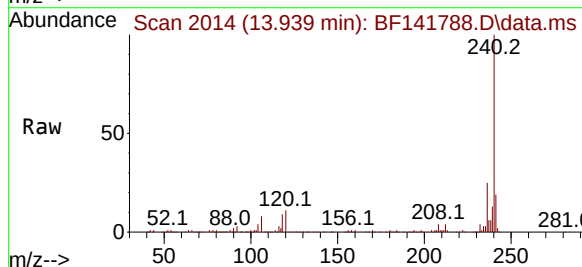
Tgt Ion:240 Resp: 234571

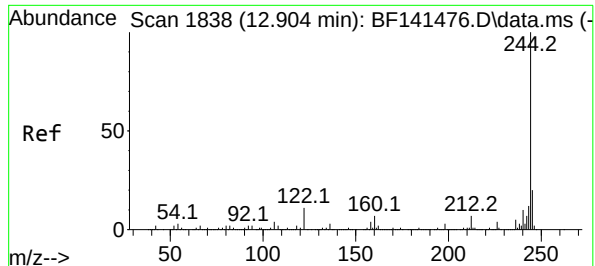
Ion Ratio Lower Upper

240 100

120 10.7 8.0 12.0

236 25.3 19.8 29.8





#79

Terphenyl-d14

Concen: 79.243 ng

RT: 12.886 min Scan# 11

Delta R.T. -0.017 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

Instrument :

BNA_F

ClientSampleId :

FB02222025

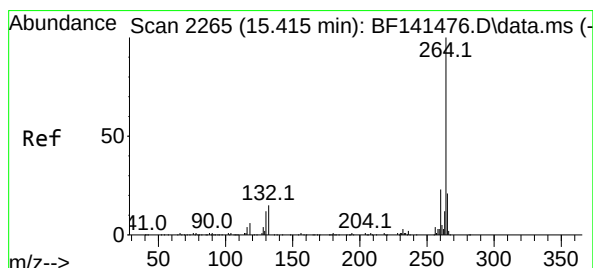
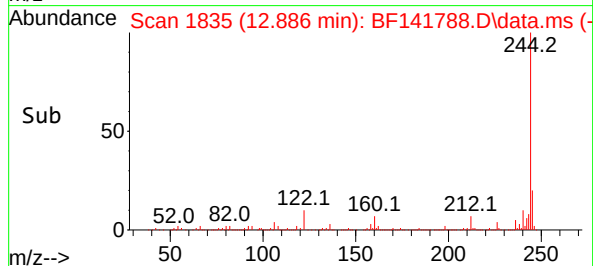
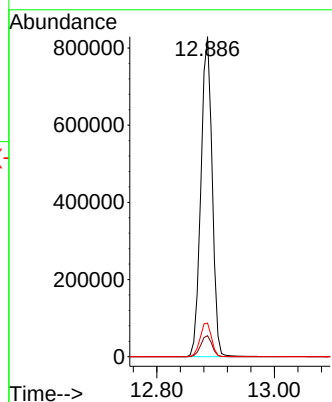
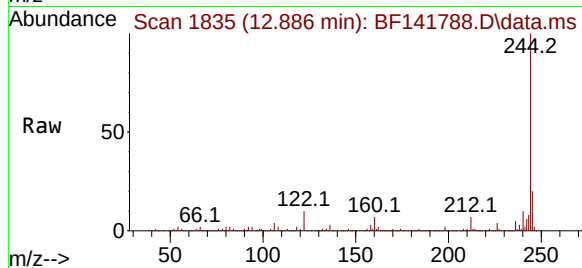
Tgt Ion:244 Resp: 1101084

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

122 10.5 8.4 12.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.386 min Scan# 2260

Delta R.T. -0.029 min

Lab File: BF141788.D

Acq: 26 Feb 2025 17:56

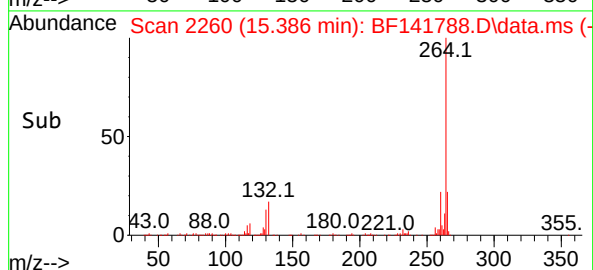
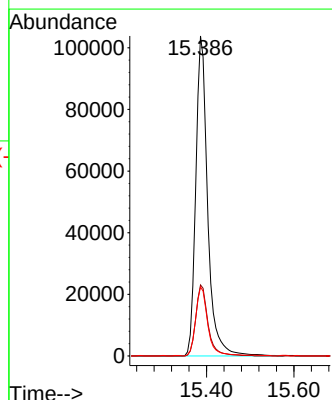
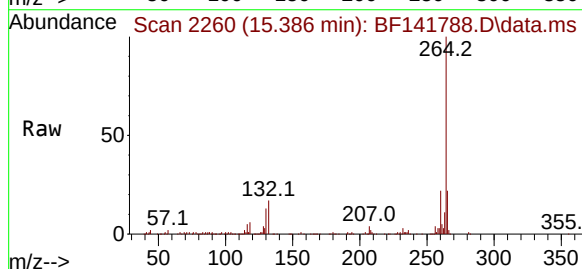
Tgt Ion:264 Resp: 196458

Ion Ratio Lower Upper

264 100

260 22.2 18.6 28.0

265 21.5 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141788.D
 Acq On : 26 Feb 2025 17:56
 Operator : RC/JU
 Sample : Q1415-05
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FB02222025

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141788.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.975	486	490	505	rVB	16929	33106	1.16%	0.241%
2	5.404	558	563	589	rBV	478236	799345	28.07%	5.831%
3	6.428	732	737	763	rBV	276821	474851	16.67%	3.464%
4	6.781	792	797	814	rBV	350934	462079	16.22%	3.371%
5	7.345	887	893	906	rBV	963157	1338827	47.01%	9.766%
6	8.063	1010	1015	1040	rBV	402458	615736	21.62%	4.491%
7	8.310	1054	1057	1070	rVB	39914	67560	2.37%	0.493%
8	9.134	1192	1197	1214	rBV	1893343	2552022	89.61%	18.615%
9	9.816	1307	1313	1327	rBV	503972	712203	25.01%	5.195%
10	10.604	1441	1447	1463	rBV	1102615	1565766	54.98%	11.421%
11	11.298	1560	1565	1585	rVB	506269	731240	25.68%	5.334%
12	11.828	1650	1655	1678	rBV2	50153	120146	4.22%	0.876%
13	12.539	1770	1776	1785	rBV	90552	177689	6.24%	1.296%
14	12.616	1785	1789	1801	rVB2	25254	56572	1.99%	0.413%
15	12.886	1829	1835	1840	rBV	2144470	2848049	100.00%	20.774%
16	13.939	2006	2014	2029	rBV	426092	630298	22.13%	4.598%
17	15.386	2254	2260	2274	rBV	282525	524004	18.40%	3.822%

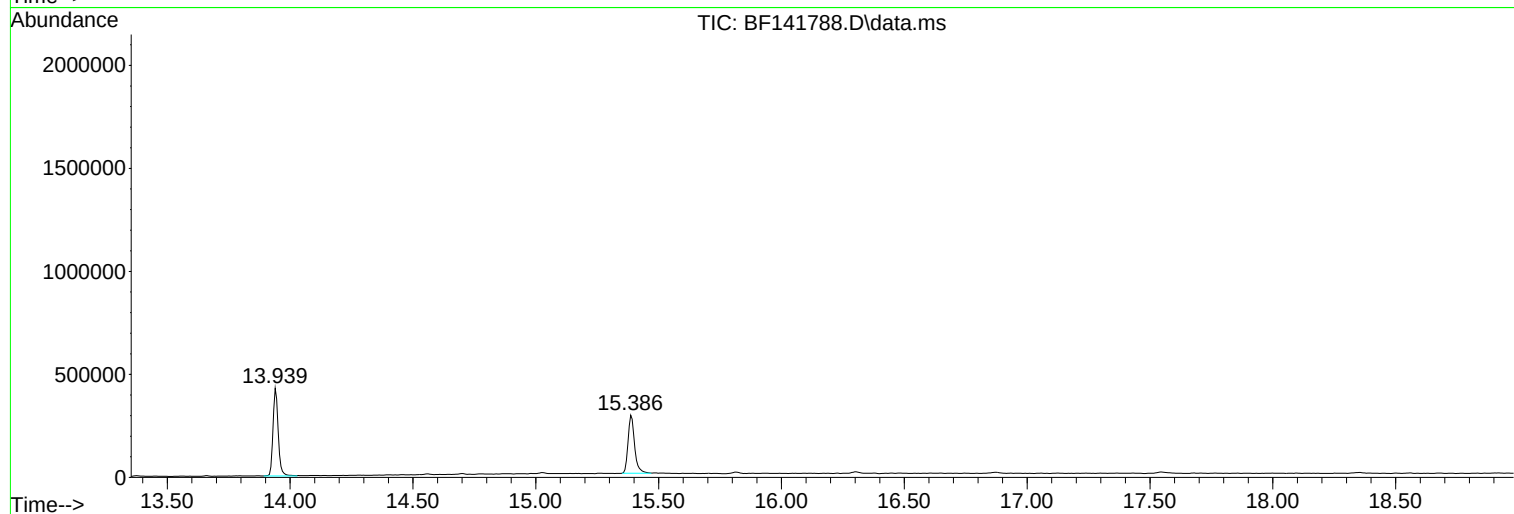
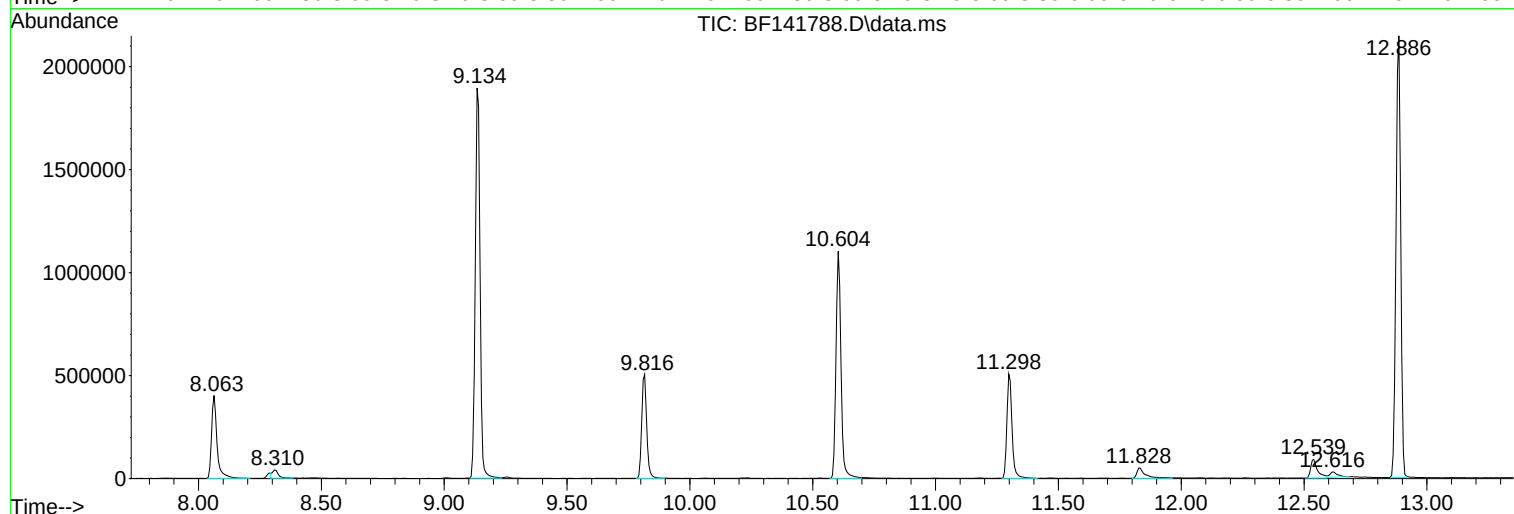
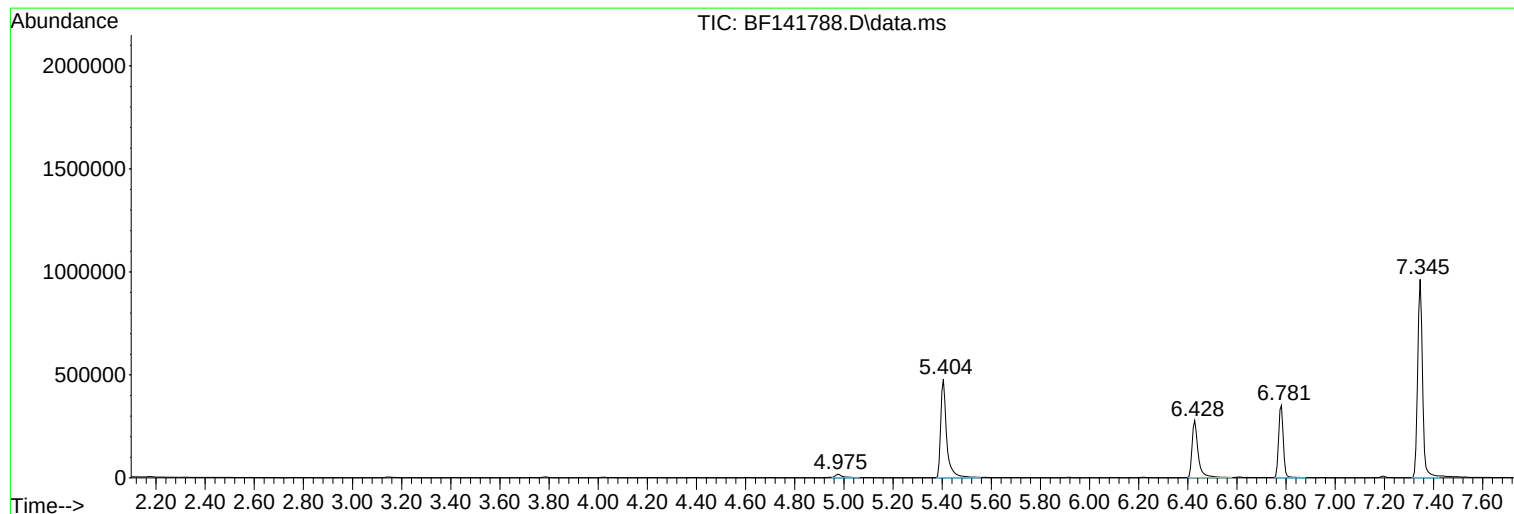
Sum of corrected areas: 13709493

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Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

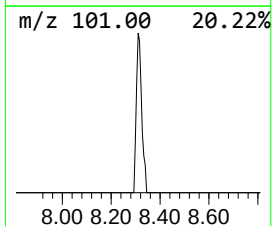
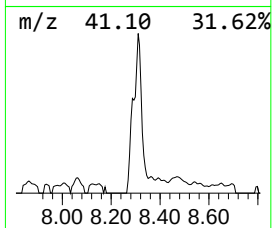
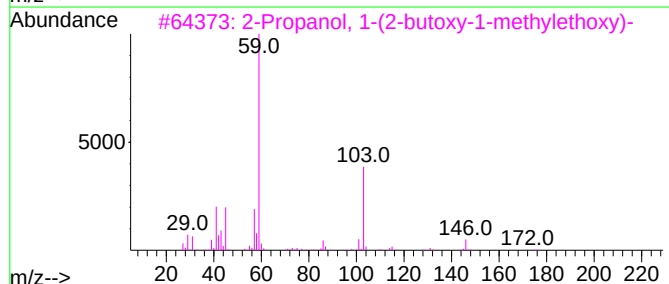
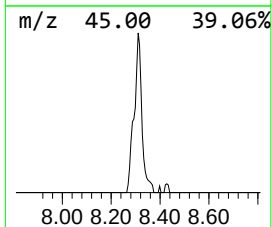
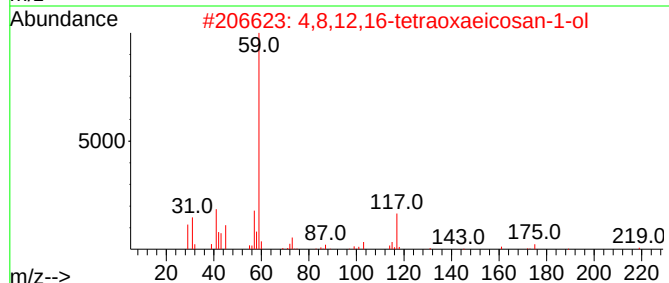
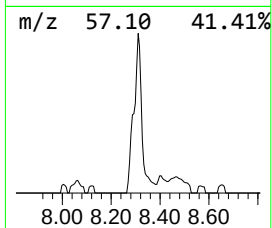
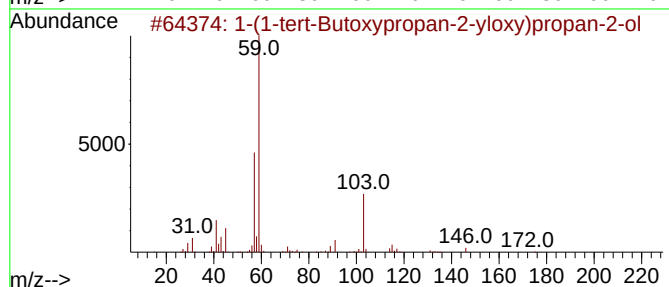
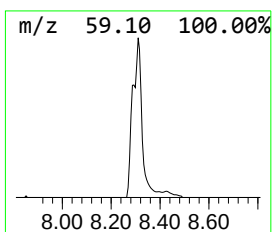
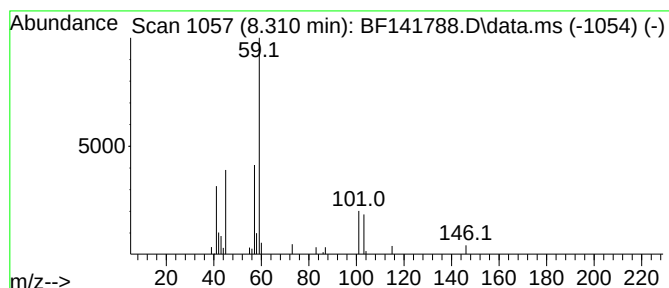
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 1-(1-tert-Butoxypropan-2-yl... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.310	2.19 ng	67560	Naphthalene-d8	8.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(1-tert-Butoxypropan-2-yloxy)p...	190	C10H22O3	132739-31-2	50		
2	4,8,12,16-tetraoxaeicosan-1-ol	306	C16H34O5	1010397-63-6	50		
3	2-Propanol, 1-(2-butoxy-1-methyl...	190	C10H22O3	029911-28-2	45		
4	Butanamide, 3,3-dimethyl-	115	C6H13NO	000926-04-5	43		
5	1-Propanol, 2,2'-oxybis-	134	C6H14O3	000108-61-2	42		



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

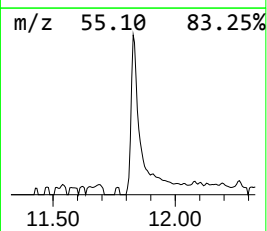
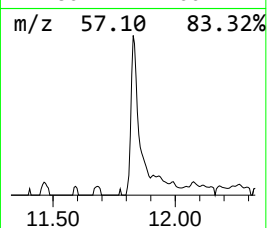
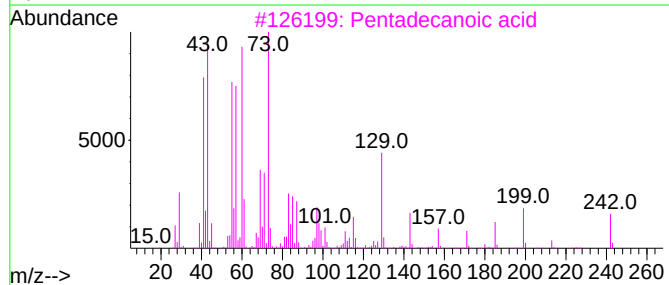
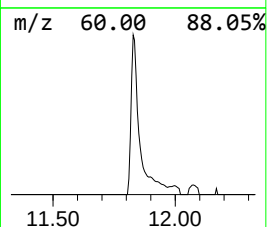
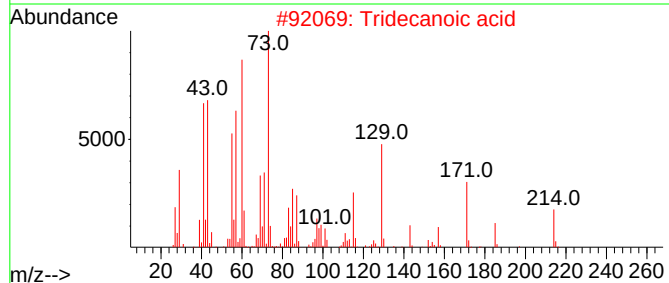
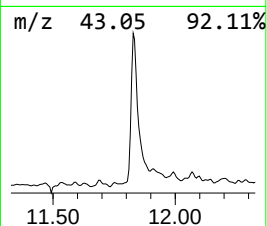
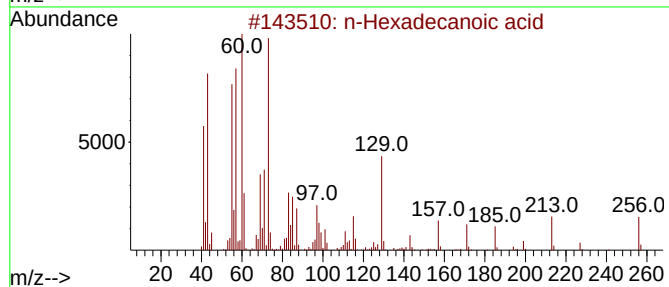
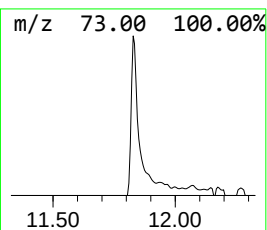
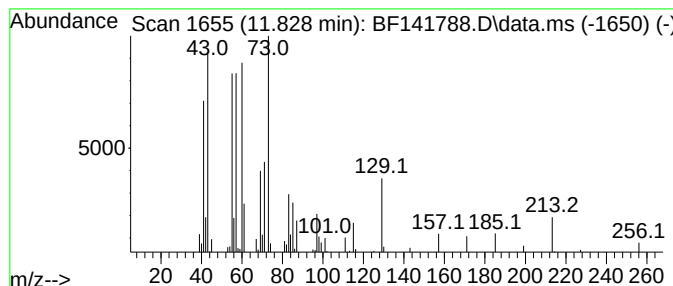
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.828	3.29 ng	120146	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2			Tridecanoic acid	214	C13H26O2	000638-53-9	94
3			Pentadecanoic acid	242	C15H30O2	001002-84-2	81
4			Tetradecanoic acid	228	C14H28O2	000544-63-8	72
5			n-Decanoic acid	172	C10H20O2	000334-48-5	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

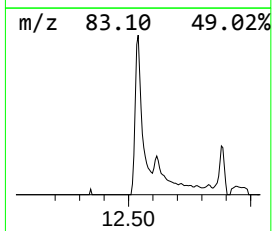
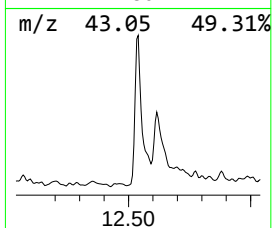
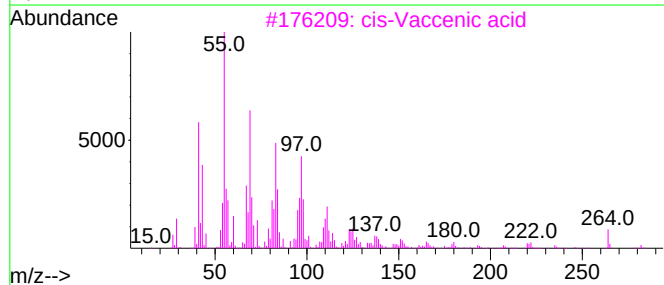
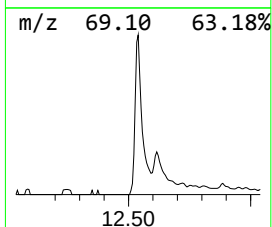
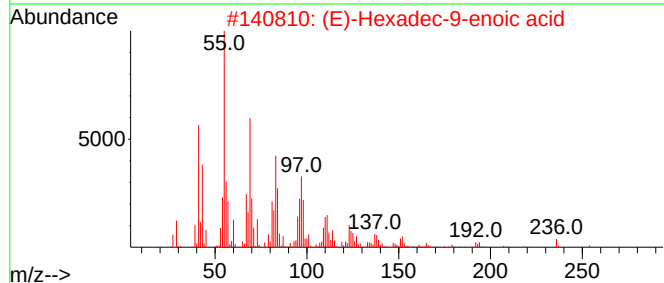
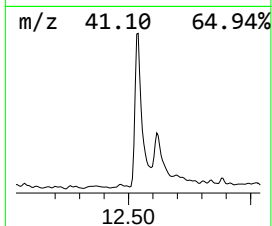
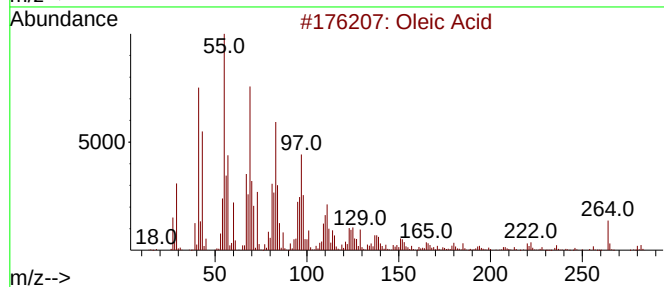
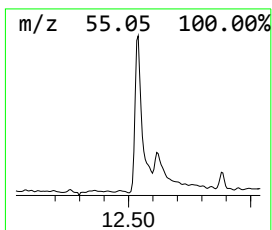
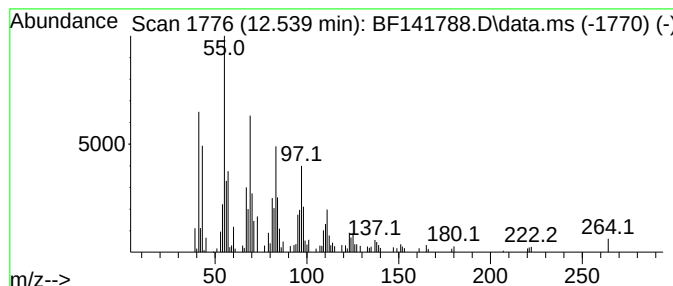
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Oleic Acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.539	4.86 ng	177689	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Oleic Acid	282	C18H34O2	000112-80-1	91
2			(E)-Hexadec-9-enoic acid	254	C16H30O2	010030-73-6	90
3			cis-Vaccenic acid	282	C18H34O2	000506-17-2	90
4			trans-13-Octadecenoic acid	282	C18H34O2	000693-71-0	87
5			14-Pentadecenoic acid	240	C15H28O2	017351-34-7	86



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141788.D
Acq On : 26 Feb 2025 17:56
Operator : RC/JU
Sample : Q1415-05
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
FB02222025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
1-(1-tert-Butox...	8.310	2.2	ng	67560	2	8.063	615736	20.0
n-Hexadecanoic ...	11.828	3.3	ng	120146	4	11.298	731240	20.0
Oleic Acid	12.539	4.9	ng	177689	4	11.298	731240	20.0

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.40	U	4.40	11.1	ug/L
108-95-2	Phenol	1.00	U	1.00	5.60	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.30	U	1.30	5.60	ug/L
95-57-8	2-Chlorophenol	0.79	U	0.79	5.60	ug/L
95-48-7	2-Methylphenol	1.30	U	1.30	5.60	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.50	U	1.50	5.60	ug/L
98-86-2	Acetophenone	1.20	U	1.20	5.60	ug/L
65794-96-9	3+4-Methylphenols	1.30	U	1.30	11.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.60	U	1.60	2.80	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.60	ug/L
98-95-3	Nitrobenzene	1.40	U	1.40	5.60	ug/L
78-59-1	Isophorone	1.30	U	1.30	5.60	ug/L
88-75-5	2-Nitrophenol	2.20	U	2.20	5.60	ug/L
105-67-9	2,4-Dimethylphenol	1.70	U	1.70	5.60	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.60	ug/L
120-83-2	2,4-Dichlorophenol	0.98	U	0.98	5.60	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.60	ug/L
106-47-8	4-Chloroaniline	1.40	UQ	1.40	5.60	ug/L
87-68-3	Hexachlorobutadiene	1.40	U	1.40	5.60	ug/L
105-60-2	Caprolactam	1.80	U	1.80	11.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.93	U	0.93	5.60	ug/L
91-57-6	2-Methylnaphthalene	1.30	U	1.30	5.60	ug/L
77-47-4	Hexachlorocyclopentadiene	5.60	U	5.60	11.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.99	U	0.99	5.60	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.60	ug/L
92-52-4	1,1-Biphenyl	1.00	U	1.00	5.60	ug/L
91-58-7	2-Chloronaphthalene	1.10	U	1.10	5.60	ug/L
88-74-4	2-Nitroaniline	1.60	U	1.60	5.60	ug/L
131-11-3	Dimethylphthalate	1.00	U	1.00	5.60	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.20	U	1.20	5.60	ug/L
606-20-2	2,6-Dinitrotoluene	1.40	U	1.40	5.60	ug/L
99-09-2	3-Nitroaniline	1.50	UQ	1.50	5.60	ug/L
83-32-9	Acenaphthene	0.90	U	0.90	5.60	ug/L
51-28-5	2,4-Dinitrophenol	7.10	U	7.10	11.1	ug/L
100-02-7	4-Nitrophenol	2.20	U	2.20	11.1	ug/L
132-64-9	Dibenzofuran	1.00	U	1.00	5.60	ug/L
121-14-2	2,4-Dinitrotoluene	1.70	U	1.70	5.60	ug/L
84-66-2	Diethylphthalate	5.40	J	1.20	5.60	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.10	U	1.10	5.60	ug/L
86-73-7	Fluorene	1.10	U	1.10	5.60	ug/L
100-01-6	4-Nitroaniline	2.30	U	2.30	5.60	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.40	U	3.40	11.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.99	U	0.99	5.60	ug/L
101-55-3	4-Bromophenyl-phenylether	1.10	U	1.10	5.60	ug/L
118-74-1	Hexachlorobenzene	1.30	U	1.30	5.60	ug/L
1912-24-9	Atrazine	1.40	U	1.40	5.60	ug/L
87-86-5	Pentachlorophenol	2.10	U	2.10	11.1	ug/L
85-01-8	Phenanthrene	0.99	U	0.99	5.60	ug/L
120-12-7	Anthracene	1.20	U	1.20	5.60	ug/L
86-74-8	Carbazole	1.30	U	1.30	5.60	ug/L
84-74-2	Di-n-butylphthalate	3.10	J	1.60	5.60	ug/L
206-44-0	Fluoranthene	1.40	U	1.40	5.60	ug/L
129-00-0	Pyrene	1.20	U	1.20	5.60	ug/L
85-68-7	Butylbenzylphthalate	2.30	U	2.30	5.60	ug/L
91-94-1	3,3-Dichlorobenzidine	1.40	UQ	1.40	11.1	ug/L
56-55-3	Benzo(a)anthracene	1.00	U	1.00	5.60	ug/L
218-01-9	Chrysene	0.96	U	0.96	5.60	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.10	U	2.10	5.60	ug/L
117-84-0	Di-n-octyl phthalate	2.80	U	2.80	11.1	ug/L
205-99-2	Benzo(b)fluoranthene	1.30	U	1.30	5.60	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.30	U	1.30	5.60	ug/L
50-32-8	Benzo(a)pyrene	1.90	U	1.90	5.60	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.60	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.30	U	1.30	5.60	ug/L
191-24-2	Benzo(g,h,i)perylene	1.30	U	1.30	5.60	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.20	U	1.20	5.60	ug/L
123-91-1	1,4-Dioxane	3.90	J	1.40	5.60	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.88	U	0.88	5.60	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	57.4		15 (10) - 110 (139)	38%	SPK: 150
13127-88-3	Phenol-d6	37.3		15 (10) - 110 (134)	25%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.2		30 (49) - 130 (133)	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.7		30 (52) - 130 (132)	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	122		15 (44) - 110 (137)	81%	SPK: 150
1718-51-0	Terphenyl-d14	88.2		30 (48) - 130 (125)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70100	6.781			
1146-65-2	Naphthalene-d8	282000	8.063			
15067-26-2	Acenaphthene-d10	154000	9.81			
1517-22-2	Phenanthrene-d10	263000	11.298			
1719-03-5	Chrysene-d12	181000	13.939			
1520-96-3	Perylene-d12	167000	15.386			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown2.263	2.30	J		2.26	ug/L
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.50	A		4.97	ug/L
000111-76-2	Ethanol, 2-butoxy-	3.30	J		5.73	ug/L
000124-18-5	Decane	4.90	J		6.61	ug/L
1000139-90-3	1-Isobutoxy-2-ethylhexane	8.80	J		6.84	ug/L
000493-02-7	Naphthalene, decahydro-, trans-	3.20	J		7.17	ug/L
	unknown8.357	3.60	J		8.36	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/22/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	B-173-GW01	SDG No.:	Q1415
Lab Sample ID:	Q1415-06	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141787.D	1	02/26/25 08:45	02/26/25 17:27	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1000309-19-3	Sulfurous acid, decyl 2-ethylhexyl	4.50	J		8.48	ug/L
000629-50-5	Tridecane	10.2	J		8.65	ug/L
000629-59-4	Tetradecane	8.20	J		9.22	ug/L
	unknown9.739	2.50	J		9.74	ug/L
029878-31-7	1H-Benzotriazole, 4-methyl-	10.1	J		9.99	ug/L
000119-61-9	Benzophenone	21.0	J		10.5	ug/L
000947-19-3	Methanone, (1-hydroxycyclohexyl)ph	4.70	J		10.8	ug/L
000084-78-6	1,2-Benzenedicarboxylic acid, buty	5.30	J		11.7	ug/L
000077-94-1	Butyl citrate	3.60	J		12.5	ug/L
000057-11-4	Octadecanoic acid	8.70	J		12.6	ug/L
1010353-55-8	Adipic acid, butyl 2-methylpent-3-	49.7	J		12.7	ug/L
959085-66-6	Heptadecyl heptafluorobutyrate	5.40	J		13.8	ug/L
000111-02-4	Squalene	3.20	J		14.8	ug/L

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141787.D
 Acq On : 26 Feb 2025 17:27
 Operator : RC/JU
 Sample : Q1415-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-173-GW01

Quant Time: Feb 26 17:55:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

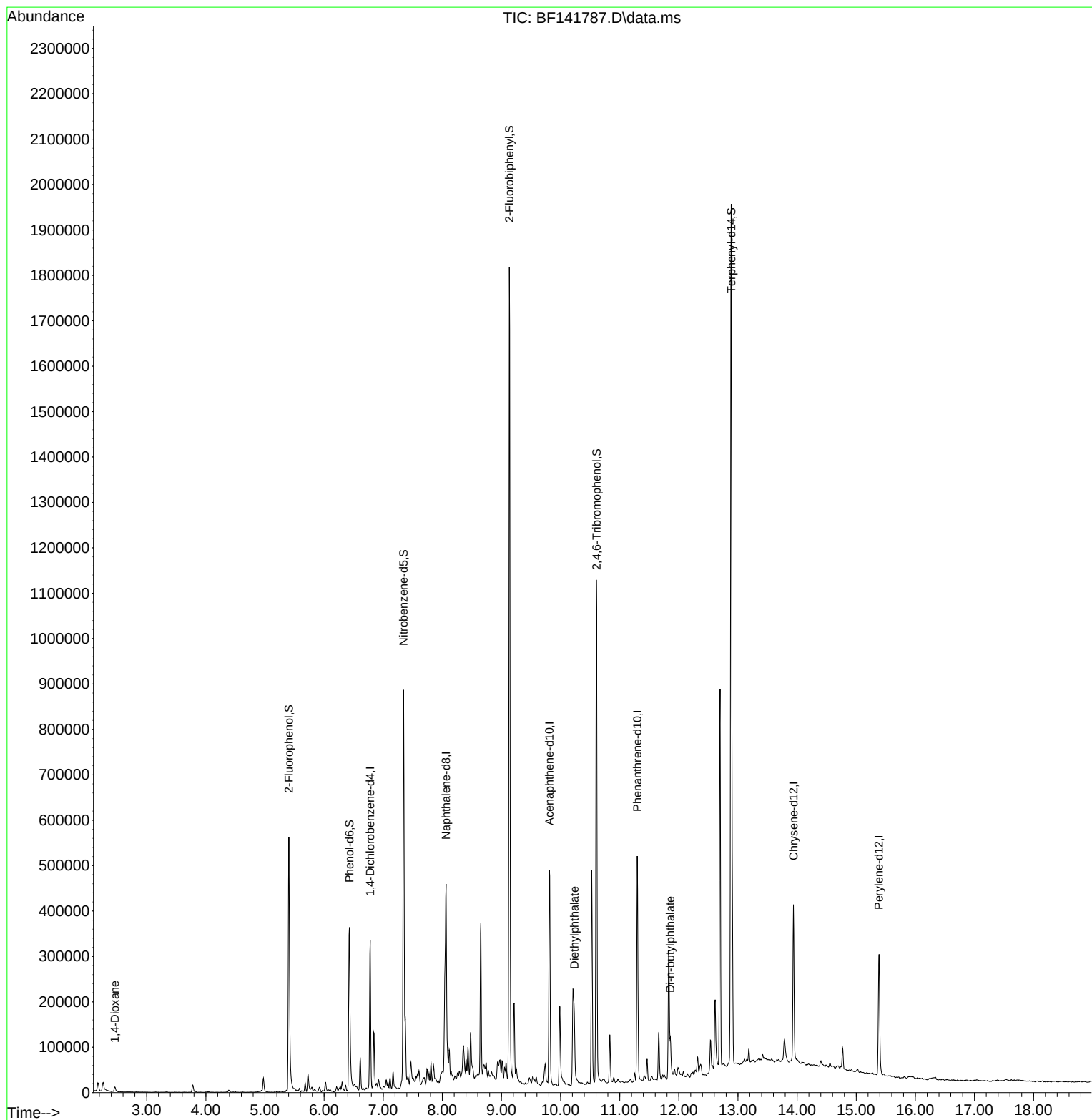
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	70131	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	281804	20.000	ng	-0.01
39) Acenaphthene-d10	9.810	164	154242	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	262674	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	181385	20.000	ng	-0.02
86) Perylene-d12	15.386	264	166658	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	256729	57.390	ng	0.00
7) Phenol-d6	6.428	99	210736	37.272	ng	-0.01
23) Nitrobenzene-d5	7.345	82	400696	74.164	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	188302	121.530	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	807667	80.674	ng	-0.02
79) Terphenyl-d14	12.886	244	947562	88.191	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.463	88	6291	3.494	ng	99
60) Diethylphthalate	10.233	149	50289	4.881	ng	100
74) Di-n-butylphthalate	11.857	149	42344	2.804	ng	100

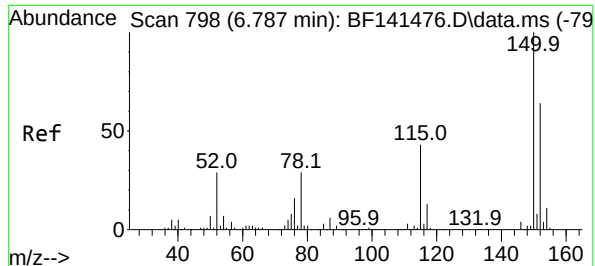
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Time: Feb 26 17:55:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

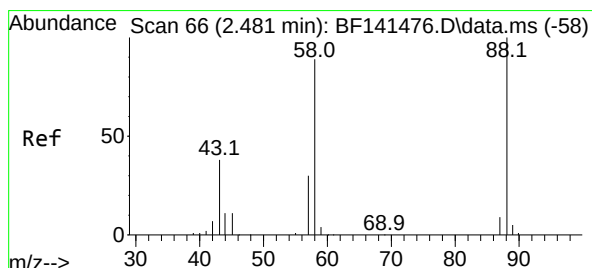
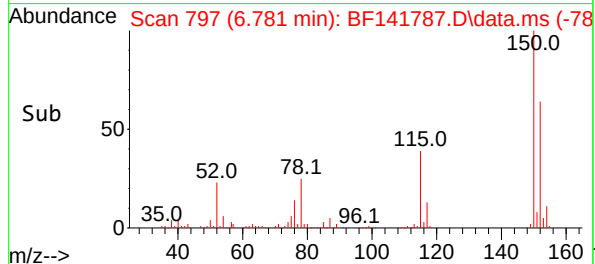
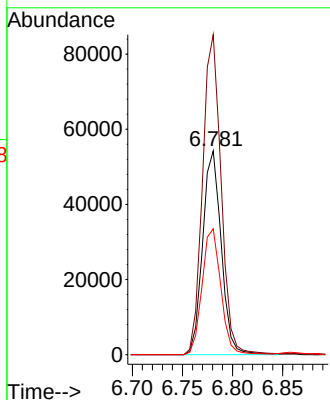
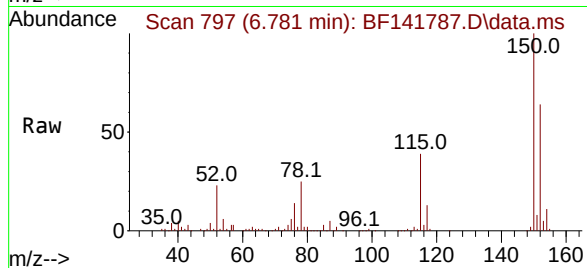




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

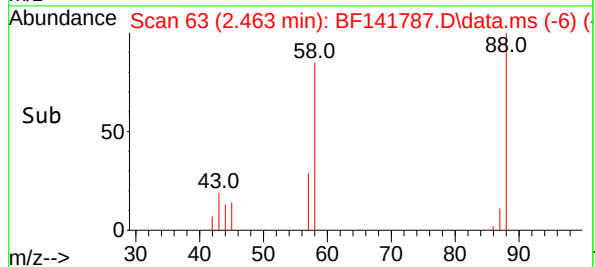
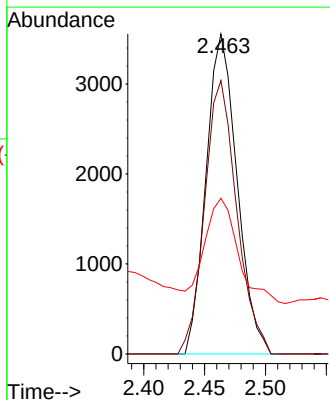
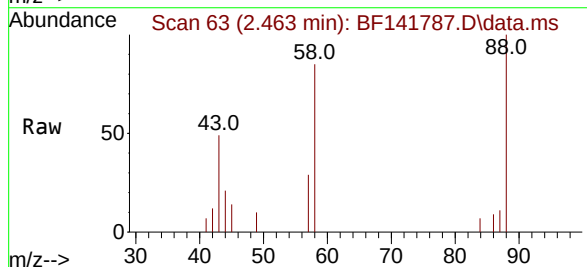
Instrument :
BNA_F
ClientSampleId :
B-173-GW01

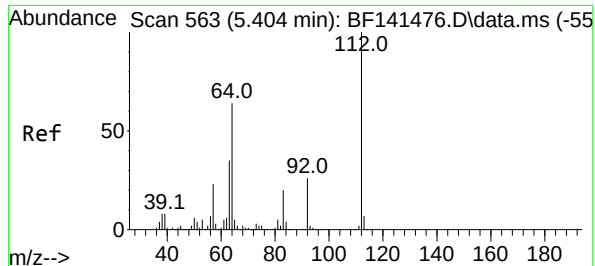
Tgt Ion:152 Resp: 70131
Ion Ratio Lower Upper
152 100
150 157.0 125.0 187.4
115 61.8 53.6 80.4



#2
1,4-Dioxane
Concen: 3.494 ng
RT: 2.463 min Scan# 63
Delta R.T. -0.018 min
Lab File: BF141787.D
Acq: 26 Feb 2025 17:27

Tgt Ion: 88 Resp: 6291
Ion Ratio Lower Upper
88 100
58 88.7 71.1 106.7
43 35.7 30.6 46.0





#5

2-Fluorophenol

Concen: 57.390 ng

RT: 5.404 min Scan# 5

Delta R.T. -0.006 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01

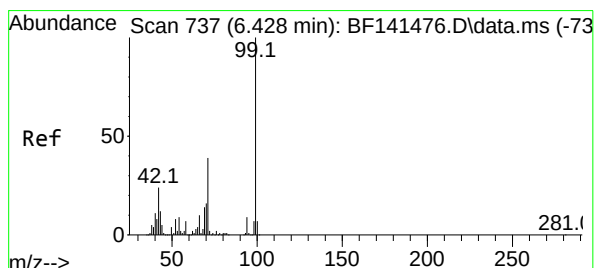
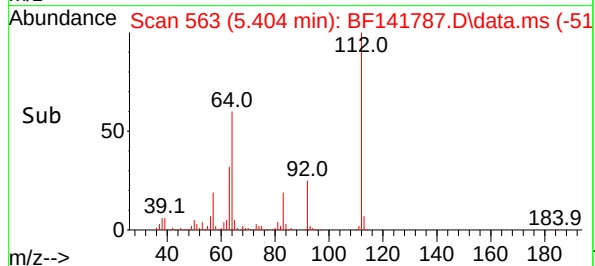
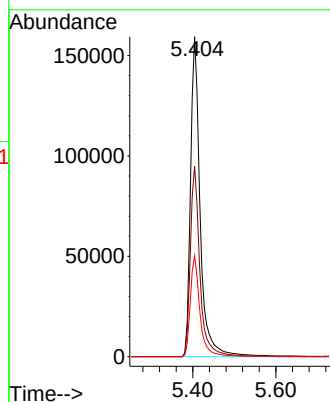
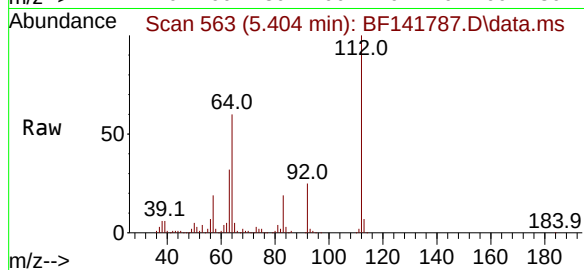
Tgt Ion:112 Resp: 256729

Ion Ratio Lower Upper

112 100

64 59.6 51.1 76.7

63 31.5 28.4 42.6



#7

Phenol-d6

Concen: 37.272 ng

RT: 6.428 min Scan# 737

Delta R.T. -0.012 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

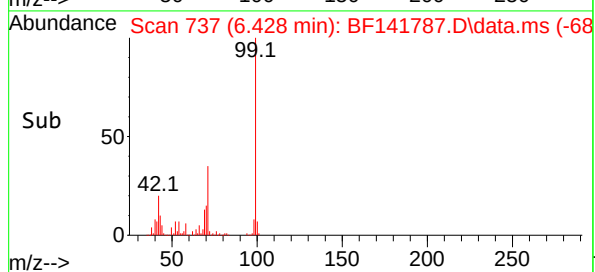
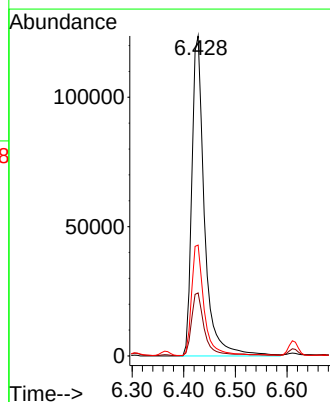
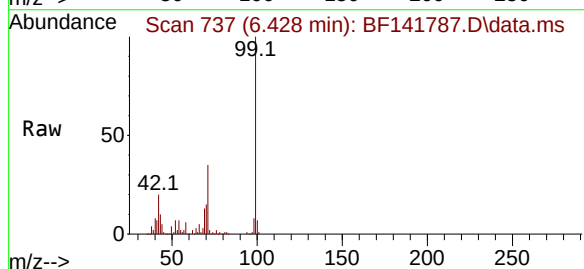
Tgt Ion: 99 Resp: 210736

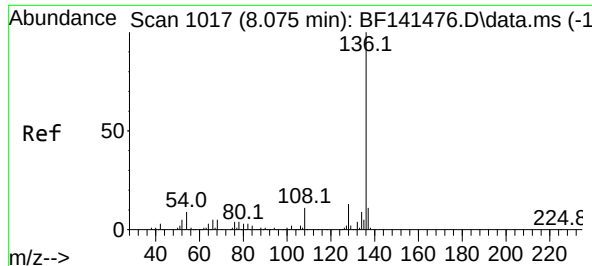
Ion Ratio Lower Upper

99 100

42 19.7 19.1 28.7

71 34.7 31.1 46.7





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01

Tgt Ion:136 Resp: 281804

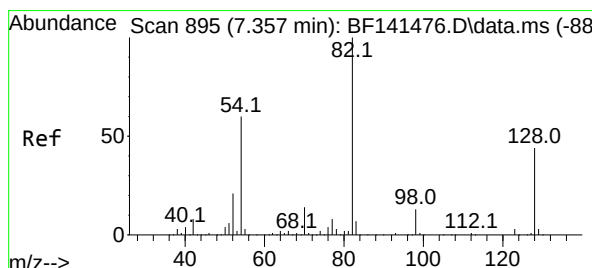
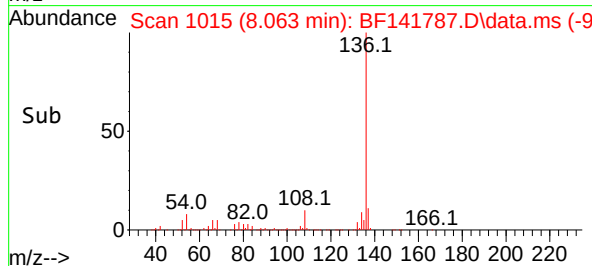
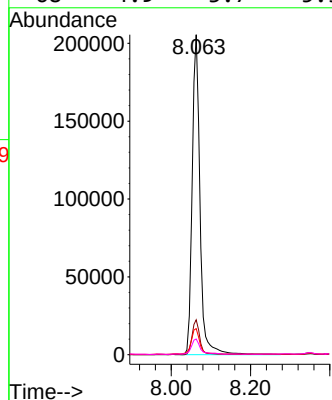
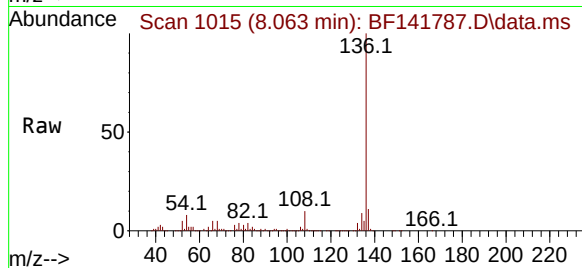
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.2 7.2 10.8

68 4.9 3.7 5.5



#23

Nitrobenzene-d5

Concen: 74.164 ng

RT: 7.345 min Scan# 893

Delta R.T. -0.018 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

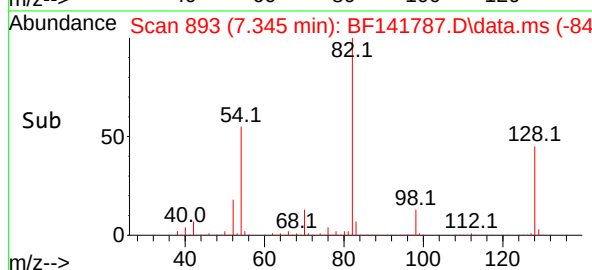
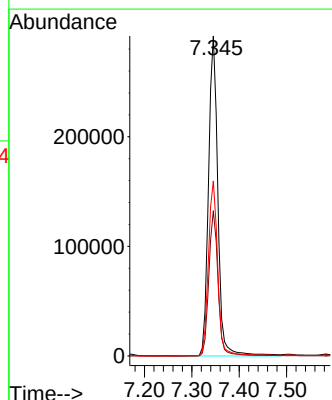
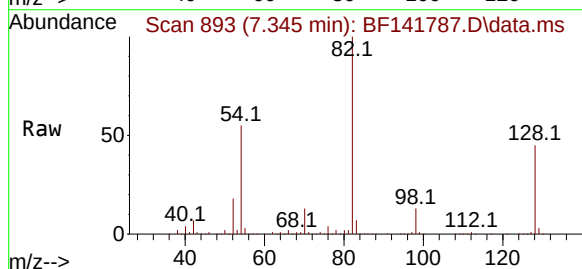
Tgt Ion: 82 Resp: 400696

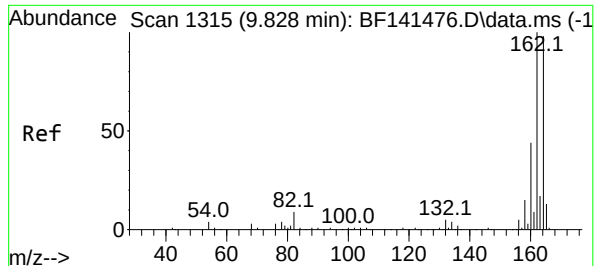
Ion Ratio Lower Upper

82 100

128 45.4 34.8 52.2

54 54.7 48.2 72.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 1

Delta R.T. -0.023 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01

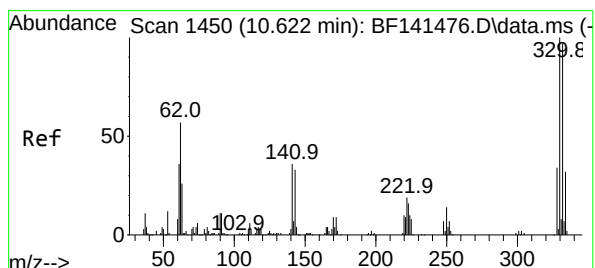
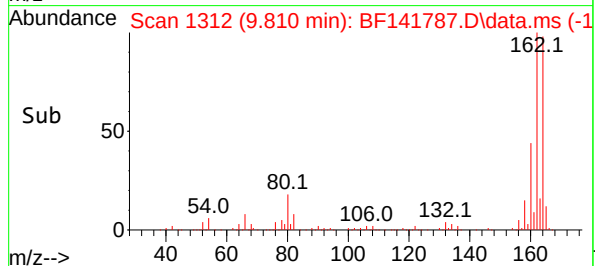
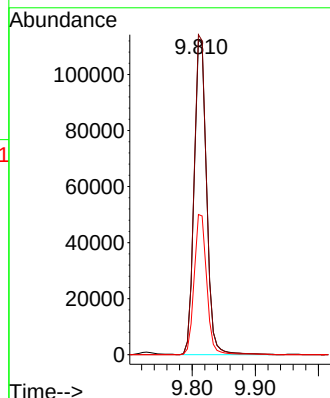
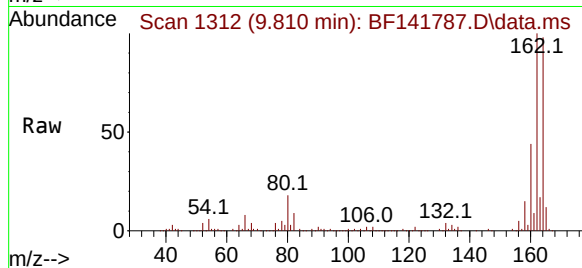
Tgt Ion:164 Resp: 154242

Ion Ratio Lower Upper

164 100

162 101.6 81.3 121.9

160 44.5 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 121.530 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.017 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

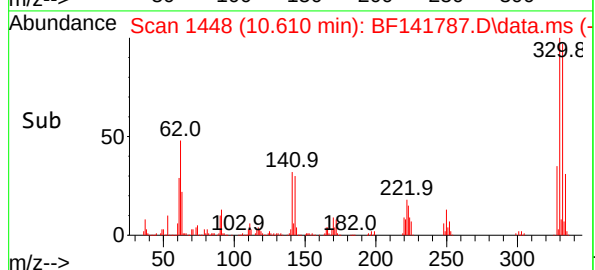
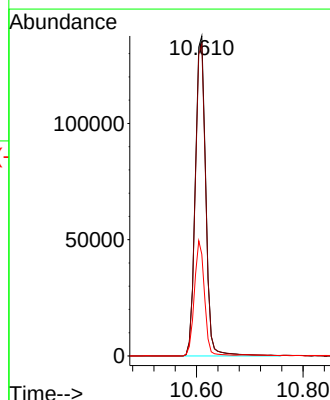
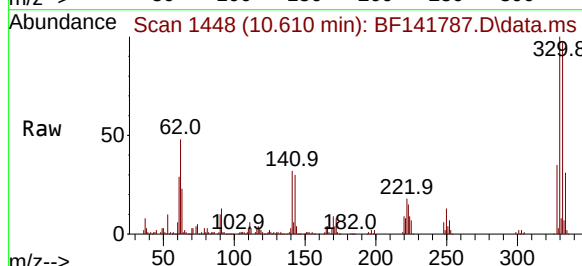
Tgt Ion:330 Resp: 188302

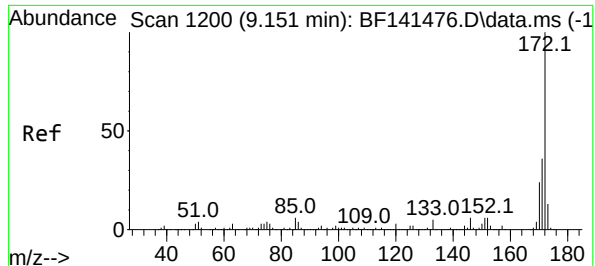
Ion Ratio Lower Upper

330 100

332 97.7 78.5 117.7

141 34.8 31.0 46.4





#45

2-Fluorobiphenyl

Concen: 80.674 ng

RT: 9.134 min Scan# 1197

Delta R.T. -0.017 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01

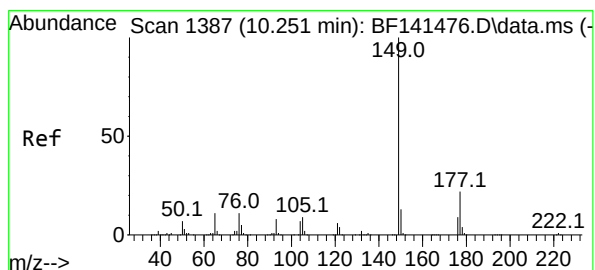
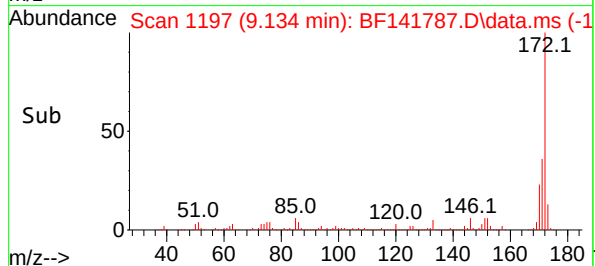
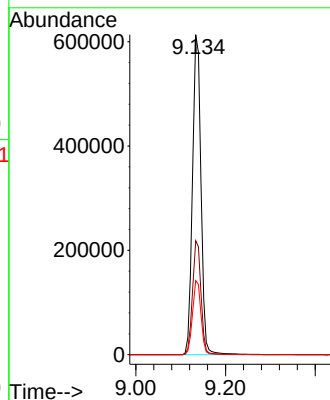
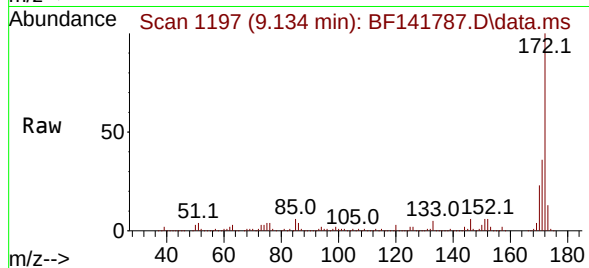
Tgt Ion:172 Resp: 807667

Ion Ratio Lower Upper

172 100

171 35.6 28.7 43.1

170 23.2 18.9 28.3



#60

Diethylphthalate

Concen: 4.881 ng

RT: 10.233 min Scan# 1384

Delta R.T. -0.023 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

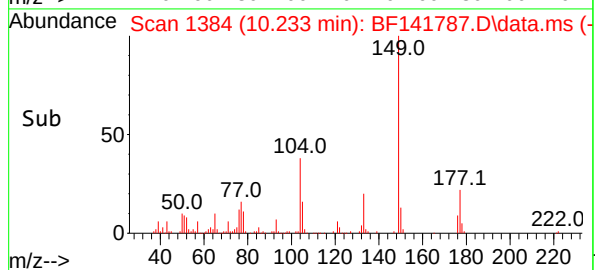
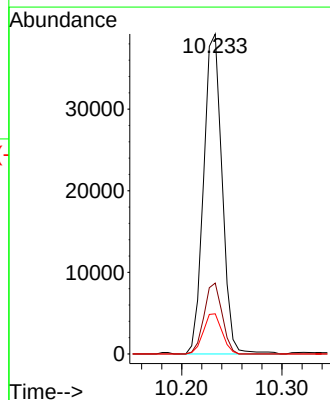
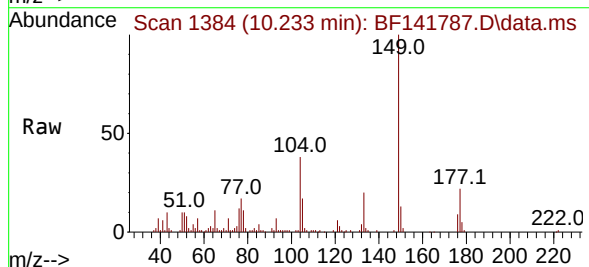
Tgt Ion:149 Resp: 50289

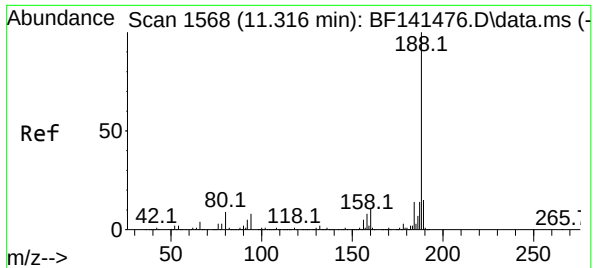
Ion Ratio Lower Upper

149 100

177 22.2 17.8 26.6

150 12.6 10.1 15.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01

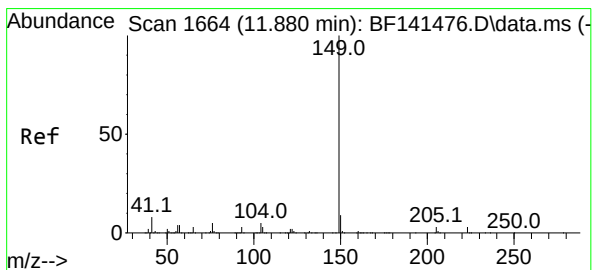
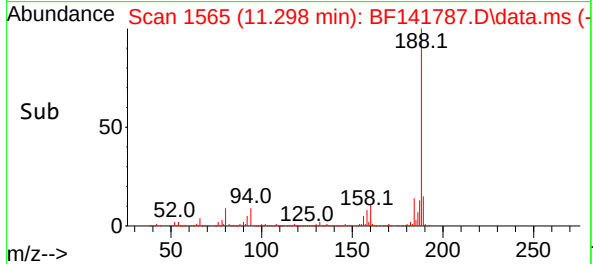
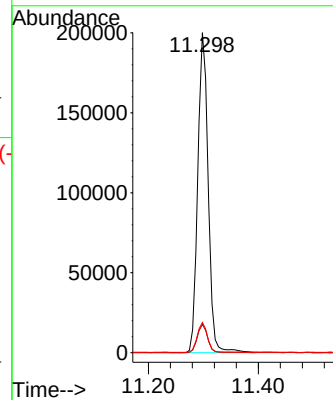
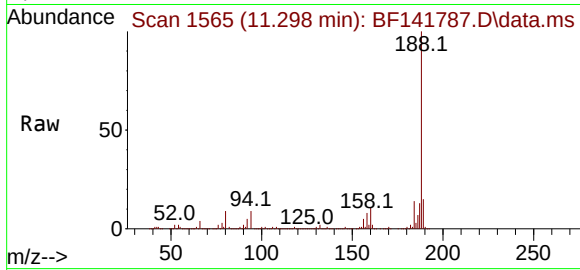
Tgt Ion:188 Resp: 262674

Ion Ratio Lower Upper

188 100

94 8.9 6.6 10.0

80 9.4 7.3 10.9



#74

Di-n-butylphthalate

Concen: 2.804 ng

RT: 11.857 min Scan# 1660

Delta R.T. -0.023 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

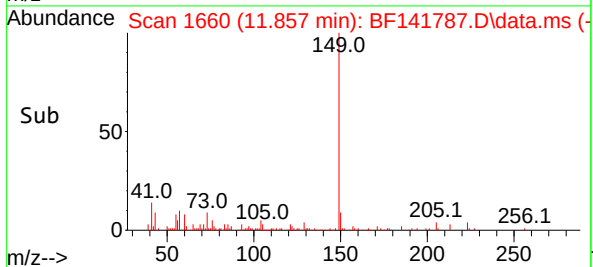
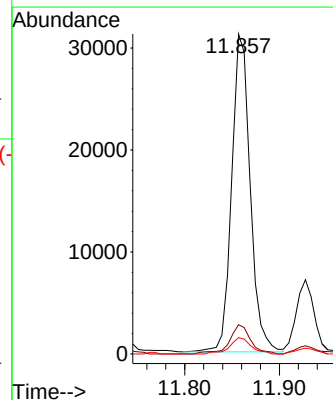
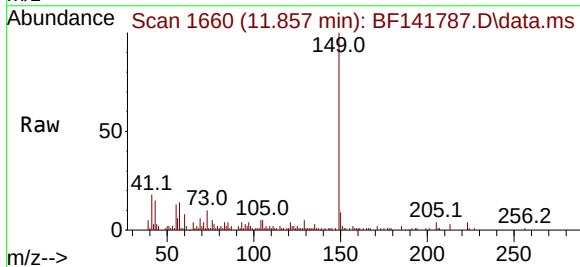
Tgt Ion:149 Resp: 42344

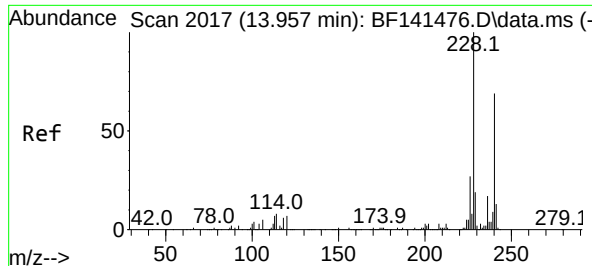
Ion Ratio Lower Upper

149 100

150 9.2 7.4 11.0

104 5.1 4.2 6.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 20

Delta R.T. -0.023 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01

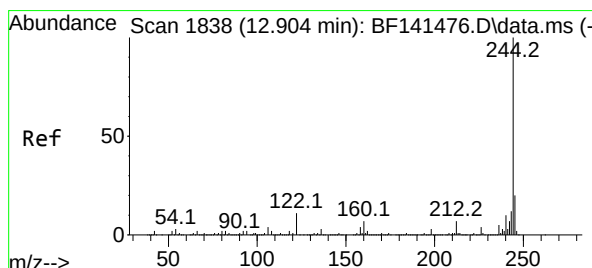
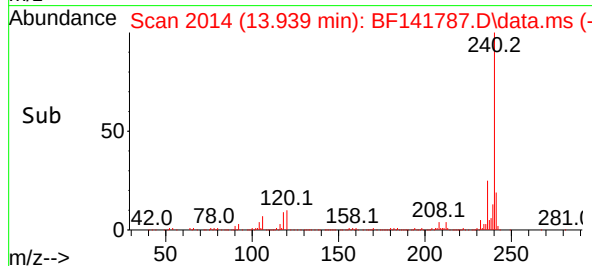
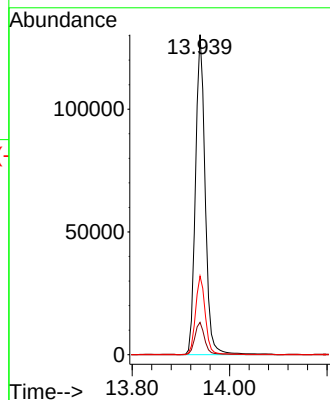
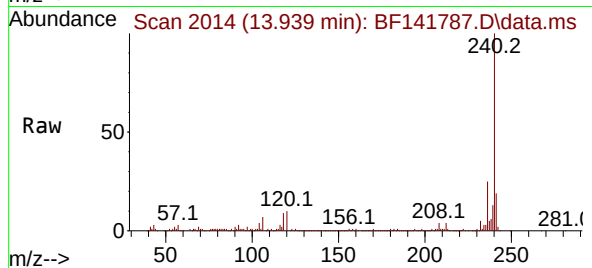
Tgt Ion:240 Resp: 181385

Ion Ratio Lower Upper

240 100

120 10.1 8.0 12.0

236 24.5 19.8 29.8



#79

Terphenyl-d14

Concen: 88.191 ng

RT: 12.886 min Scan# 1835

Delta R.T. -0.018 min

Lab File: BF141787.D

Acq: 26 Feb 2025 17:27

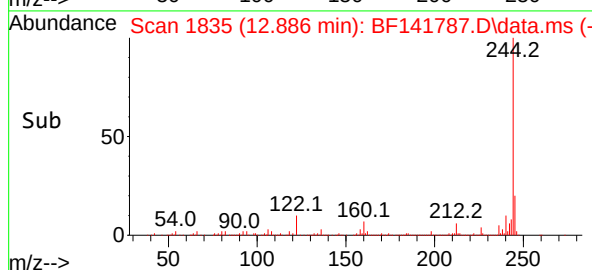
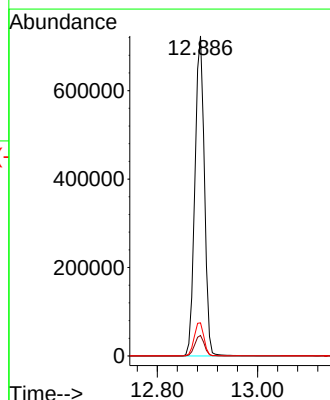
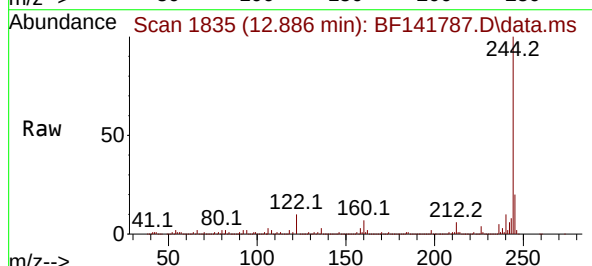
Tgt Ion:244 Resp: 947562

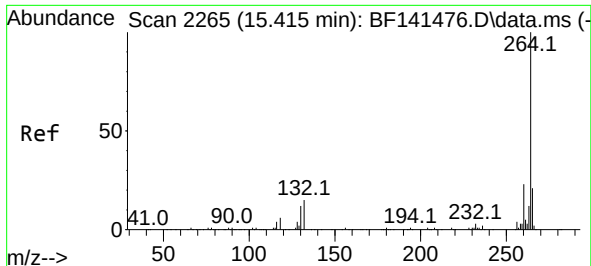
Ion Ratio Lower Upper

244 100

212 6.4 5.6 8.4

122 10.4 8.4 12.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.386 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF141787.D

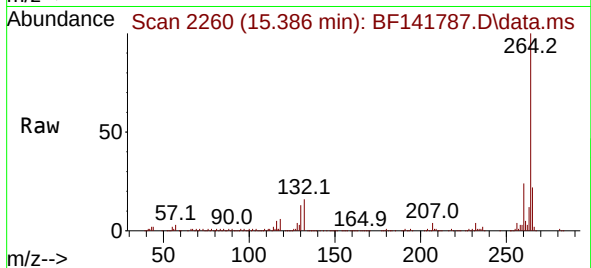
Acq: 26 Feb 2025 17:27

Instrument :

BNA_F

ClientSampleId :

B-173-GW01



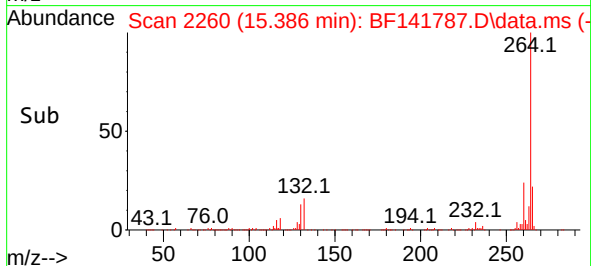
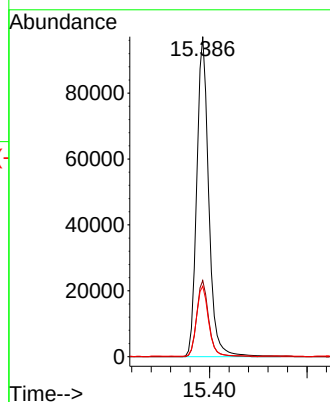
Tgt Ion:264 Resp: 166658

Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 22.0 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141787.D
 Acq On : 26 Feb 2025 17:27
 Operator : RC/JU
 Sample : Q1415-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-173-GW01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141787.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.175	9	14	23	rVB	18075	30894	1.06%	0.158%
2	2.263	23	29	46	rBV	18835	44840	1.54%	0.229%
3	4.975	486	490	501	rVB	30704	47552	1.63%	0.243%
4	5.404	558	563	578	rBV	558883	879045	30.19%	4.486%
5	5.728	614	618	625	rBV	38331	63864	2.19%	0.326%
6	6.022	664	668	674	rBV	19817	30006	1.03%	0.153%
7	6.428	732	737	748	rBV	359483	615873	21.15%	3.143%
8	6.610	764	768	774	rBV	71973	94784	3.25%	0.484%
9	6.781	789	797	802	rBV	326548	426482	14.64%	2.176%
10	6.840	802	807	813	rBV	122331	169520	5.82%	0.865%
11	7.169	858	863	874	rVB2	36150	61645	2.12%	0.315%
12	7.345	882	893	897	rBV	876611	1243225	42.69%	6.344%
13	7.469	909	914	919	rBV2	47157	84189	2.89%	0.430%
14	7.604	934	937	943	rVB2	30780	45347	1.56%	0.231%
15	7.739	956	960	963	rBV	33600	47099	1.62%	0.240%
16	7.810	968	972	975	rVB3	38487	45202	1.55%	0.231%
17	7.851	975	979	983	rBV2	33564	44423	1.53%	0.227%
18	8.004	995	1005	1007	rBV5	25776	75240	2.58%	0.384%
19	8.063	1007	1015	1022	rVV2	425748	895547	30.75%	4.570%
20	8.116	1022	1024	1028	rVB	54787	64289	2.21%	0.328%
21	8.357	1057	1065	1070	rBV4	68071	144734	4.97%	0.739%
22	8.404	1070	1073	1075	rVV2	38372	49101	1.69%	0.251%
23	8.434	1075	1078	1082	rVV	67168	90171	3.10%	0.460%
24	8.481	1082	1086	1096	rVB	101231	183078	6.29%	0.934%
25	8.651	1110	1115	1119	rBV	333454	412546	14.17%	2.105%
26	8.704	1119	1124	1127	rVV4	23393	47990	1.65%	0.245%
27	8.739	1128	1130	1134	rVB	29833	34945	1.20%	0.178%
28	8.934	1159	1163	1166	rBV2	36963	64932	2.23%	0.331%
29	9.010	1173	1176	1180	rVB2	38106	50524	1.73%	0.258%
30	9.051	1180	1183	1185	rVV	24325	29939	1.03%	0.153%
31	9.075	1185	1187	1191	rVV	35790	44810	1.54%	0.229%
32	9.134	1192	1197	1206	rVV	1790856	2332749	80.10%	11.904%
33	9.216	1206	1211	1215	rVV	170701	238575	8.19%	1.217%
34	9.251	1215	1217	1227	rVB3	29453	48297	1.66%	0.246%
35	9.533	1260	1265	1271	rVV3	16727	38515	1.32%	0.197%
36	9.739	1294	1300	1304	rBV2	40863	73229	2.51%	0.374%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	9.810	1308	1312	1323	rVB	474408	646496	22.20%	3.299%
38	9.986	1336	1342	1352	rBV	174727	293293	10.07%	1.497%
39	10.210	1375	1380	1397	rBV3	211765	545156	18.72%	2.782%
40	10.528	1429	1434	1442	rBV	471623	610172	20.95%	3.114%
41	10.604	1442	1447	1462	rVV	1106924	1506849	51.74%	7.689%
42	10.833	1481	1486	1494	rBV	104871	135954	4.67%	0.694%
43	11.298	1560	1565	1573	rVV	493344	640740	22.00%	3.270%
44	11.463	1589	1593	1600	rVB	48465	64104	2.20%	0.327%
45	11.663	1622	1627	1634	rBV2	105195	153238	5.26%	0.782%
46	11.827	1650	1655	1668	rBV2	284696	551003	18.92%	2.812%
47	11.986	1679	1682	1689	rVB4	15729	32464	1.11%	0.166%
48	12.316	1735	1738	1742	rVV	32688	42286	1.45%	0.216%
49	12.369	1742	1747	1753	rVB5	22933	50381	1.73%	0.257%
50	12.533	1771	1775	1779	rBV	69657	103121	3.54%	0.526%
51	12.616	1784	1789	1797	rVV	152233	252253	8.66%	1.287%
52	12.698	1798	1803	1808	rVB	827963	1038932	35.68%	5.302%
53	12.886	1829	1835	1846	rVB	1892552	2912141	100.00%	14.860%
54	13.186	1883	1886	1890	rVB2	29439	34228	1.18%	0.175%
55	13.786	1984	1988	2001	rVB	50049	112401	3.86%	0.574%
56	13.939	2009	2014	2022	rVB	340973	464694	15.96%	2.371%
57	14.768	2152	2155	2162	rVB	47082	64364	2.21%	0.328%
58	15.386	2254	2260	2271	rBV	265227	449071	15.42%	2.292%

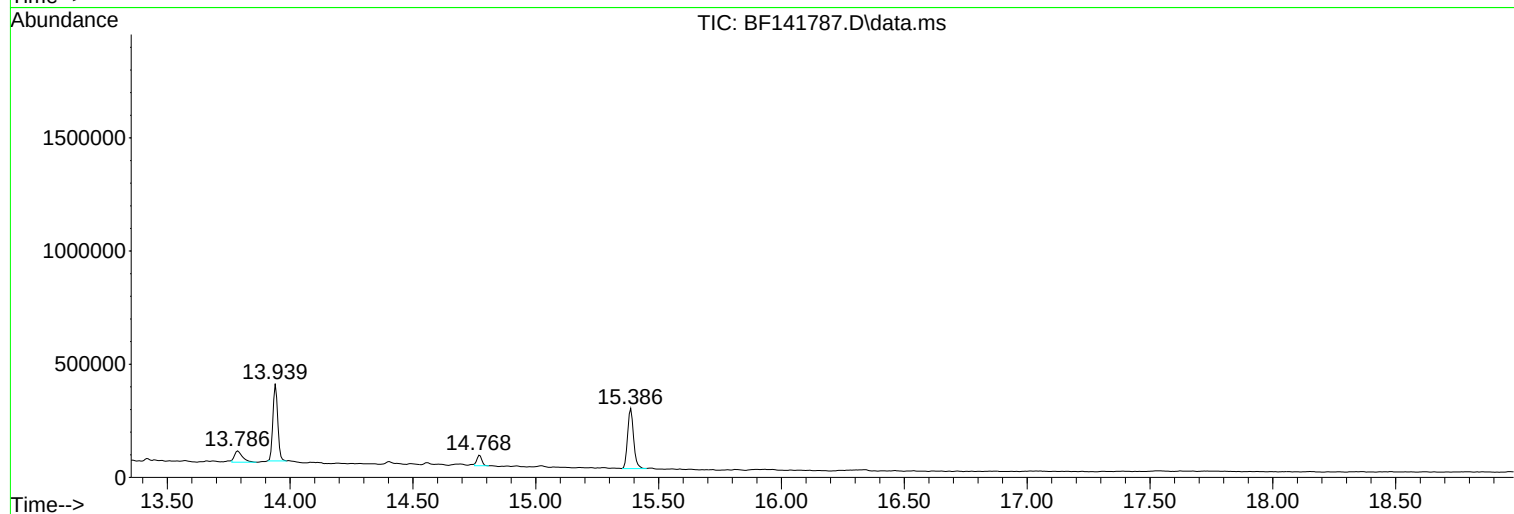
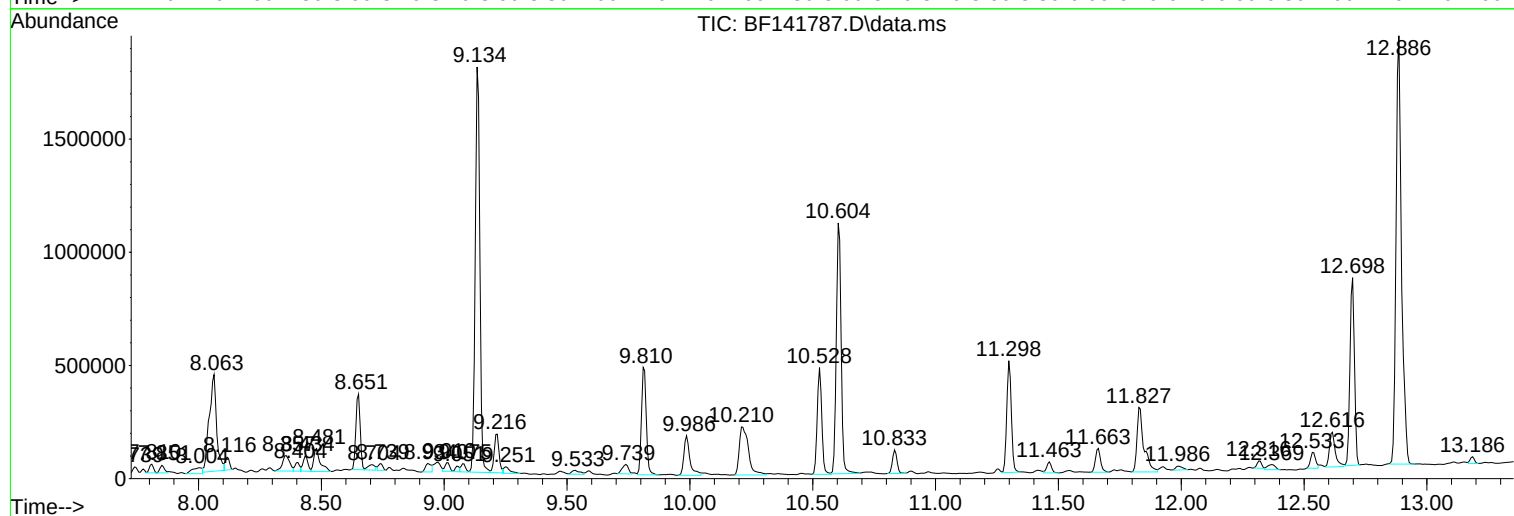
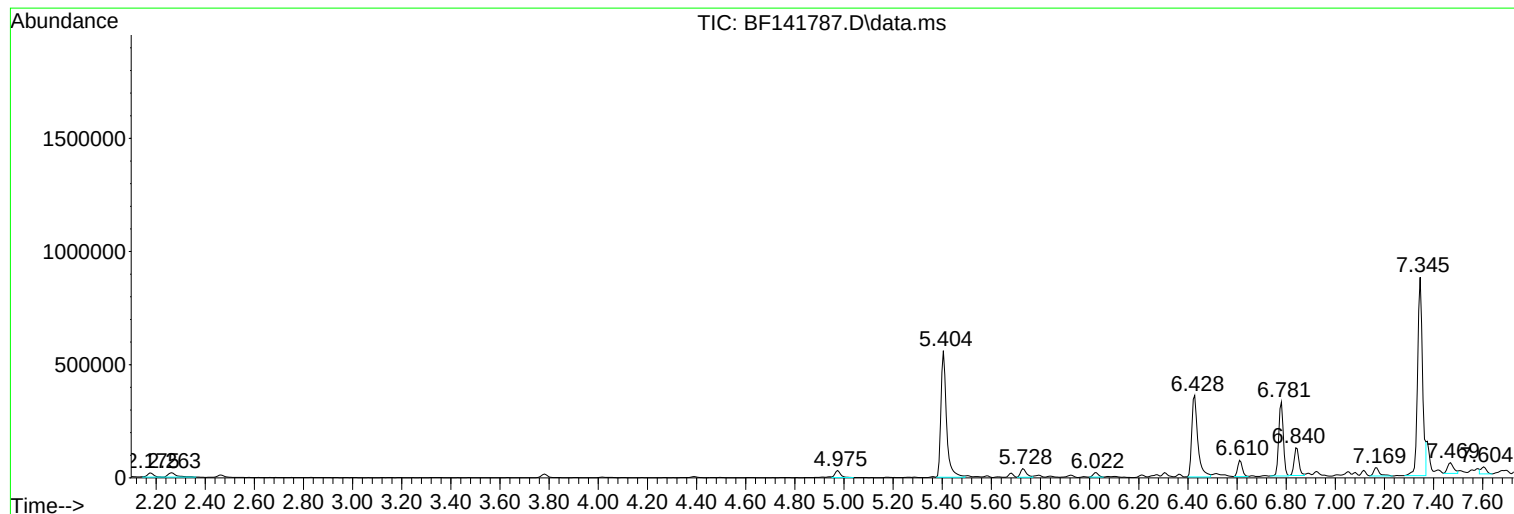
Sum of corrected areas: 19596542

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

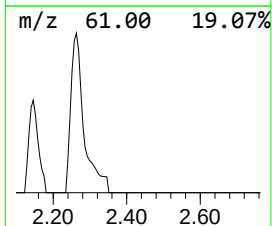
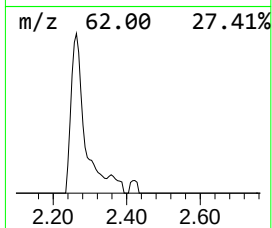
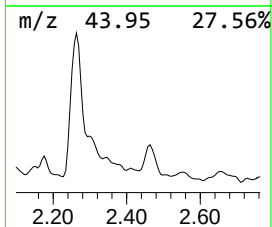
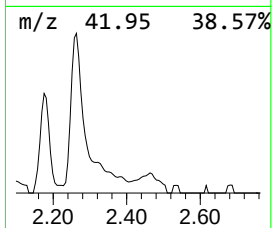
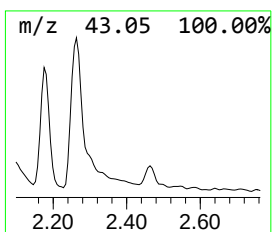
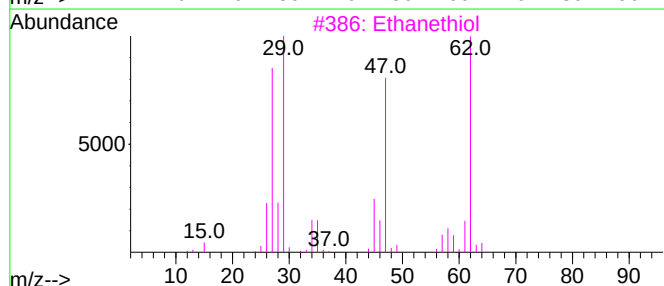
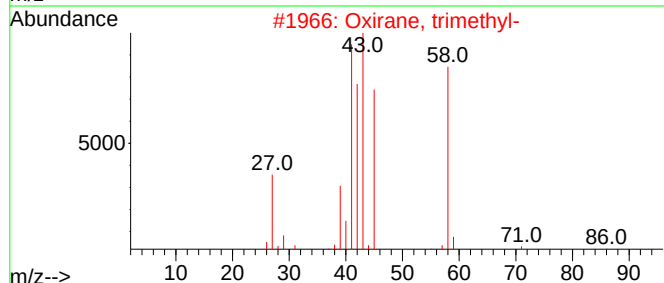
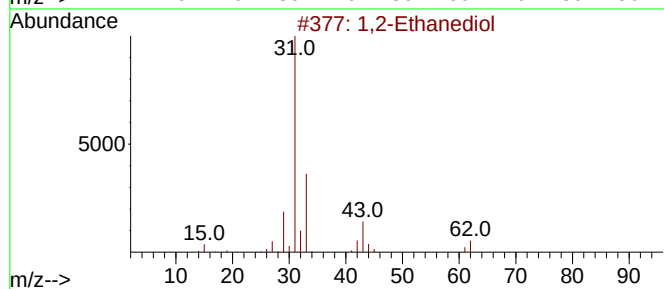
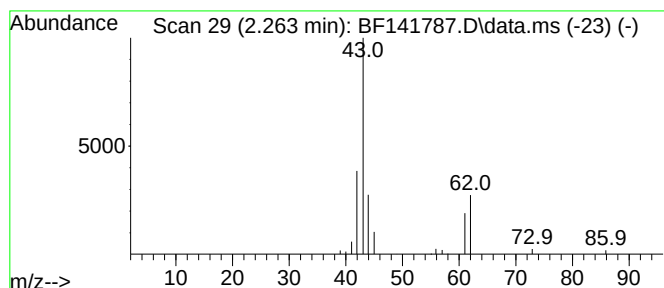
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown2.263 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.263	2.10 ng	44840	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,2-Ethanediol	62	C2H6O2	000107-21-1	7
2			Oxirane, trimethyl-	86	C5H10O	005076-19-7	5
3			Ethanethiol	62	C2H6S	000075-08-1	4
4			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	4
5			5-Methyloxazolidine	87	C4H9NO	058328-22-6	4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

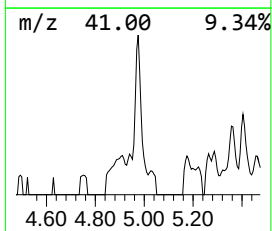
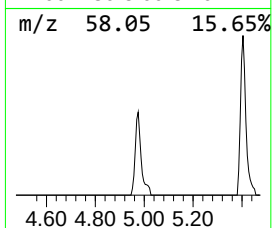
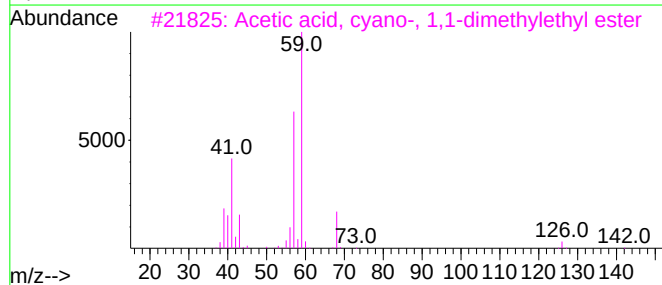
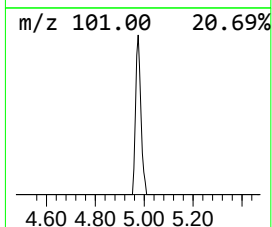
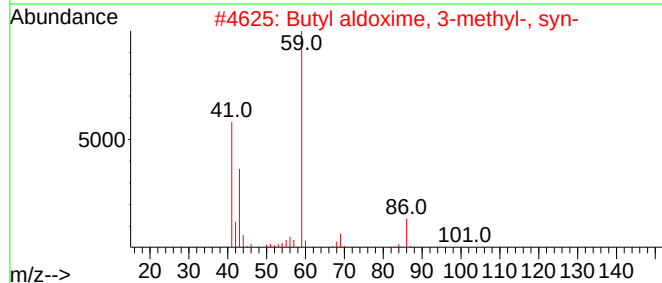
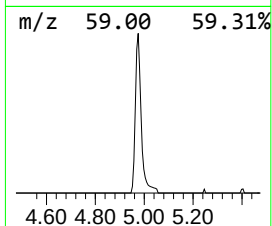
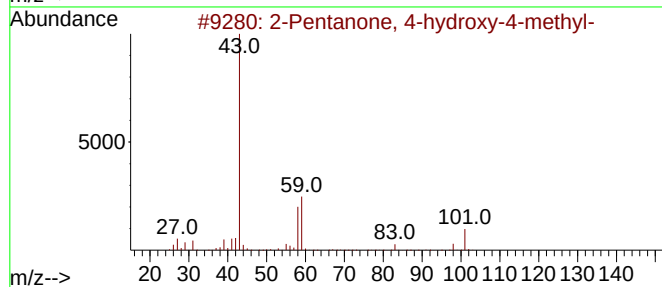
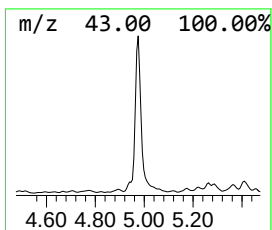
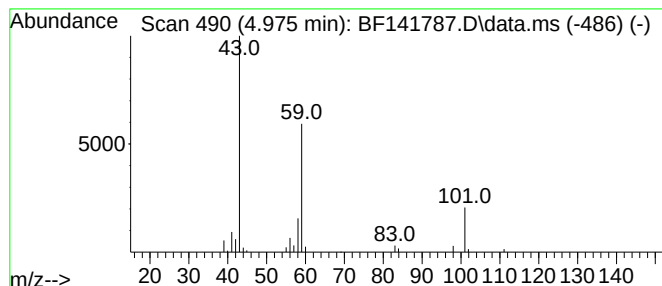
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.975	2.23 ng	47552	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2			Butyl aldoxime, 3-methyl-, syn-	101	C5H11NO	005780-40-5	17
3			Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
4			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5			Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

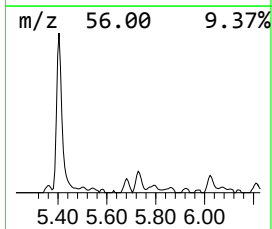
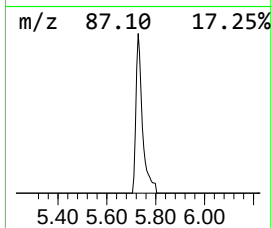
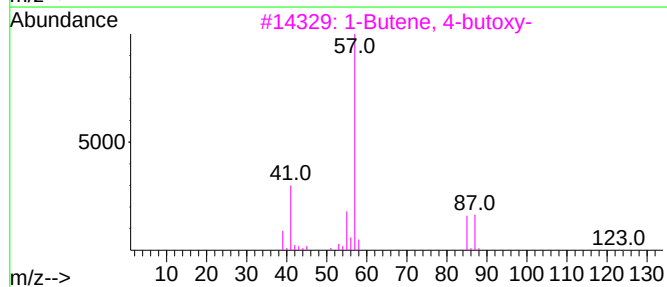
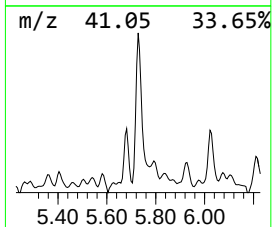
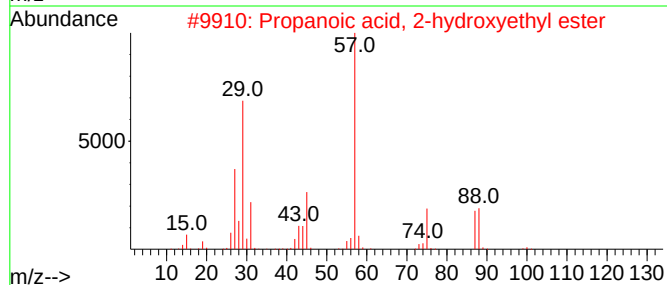
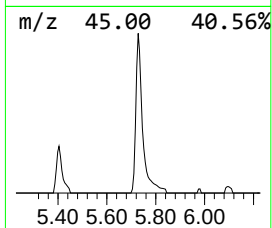
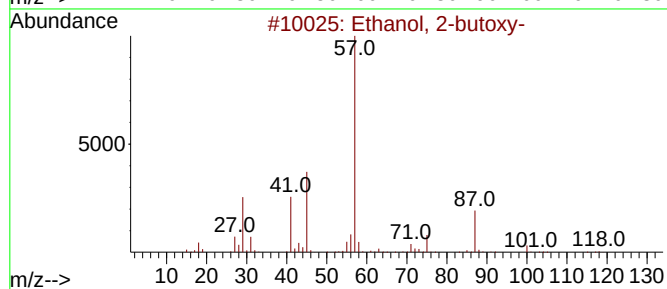
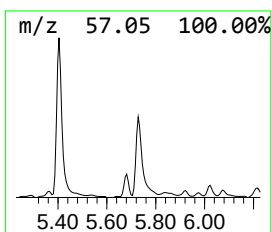
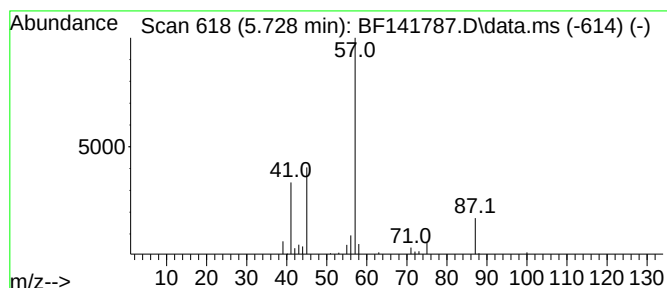
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Ethanol, 2-butoxy- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.728	2.99 ng	63864	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Ethanol, 2-butoxy-	118	C6H14O2	000111-76-2	83
2			Propanoic acid, 2-hydroxyethyl e...	118	C5H10O3	024567-27-9	17
3			1-Butene, 4-butoxy-	128	C8H16O	034061-76-2	17
4			Isobutyl ether	130	C8H18O	000628-55-7	16
5			Propanoic acid, 2,2-dimethyl-, s...	208	C5H9AgO2	007324-58-5	16



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ClientSampleId :
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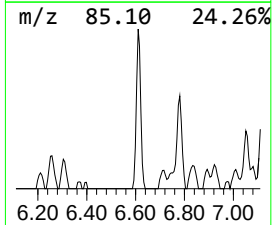
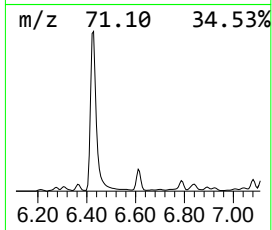
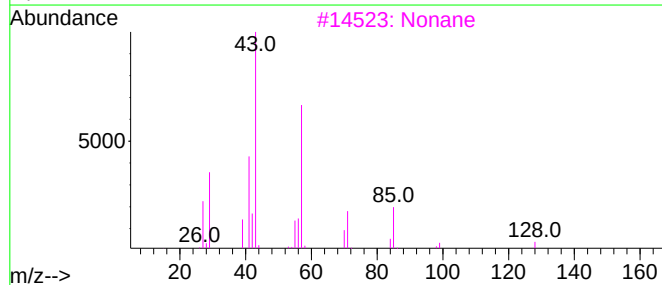
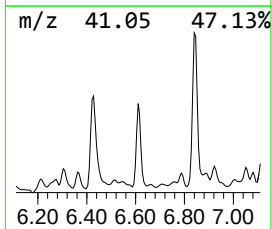
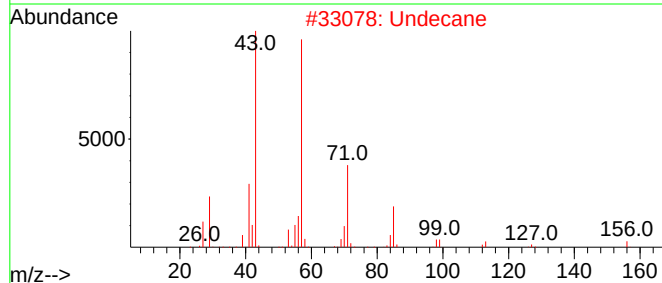
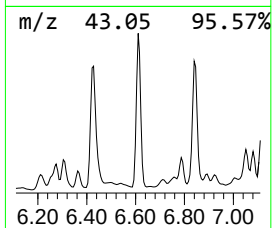
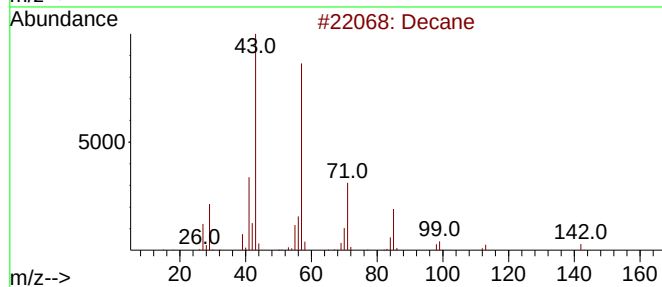
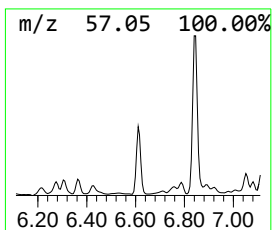
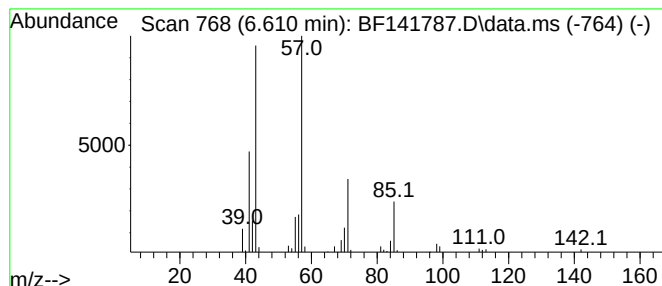
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Decane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.610	4.44 ng	94784	1,4-Dichlorobenzene-d4	6.781

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Decane	142	C10H22	000124-18-5	90
2		Undecane	156	C11H24	001120-21-4	83
3		Nonane	128	C9H20	000111-84-2	64
4		Decane, 2,3,6-trimethyl-	184	C13H28	062238-12-4	64
5		Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
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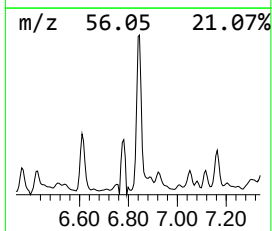
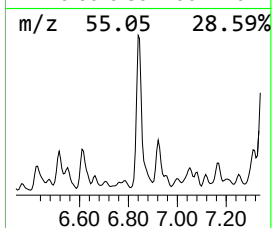
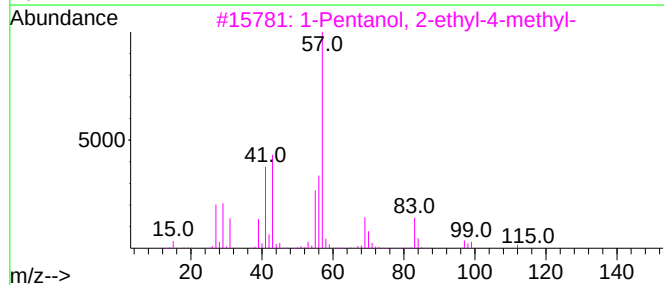
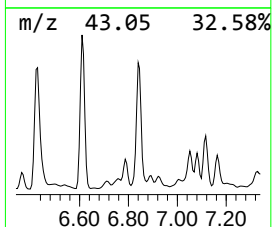
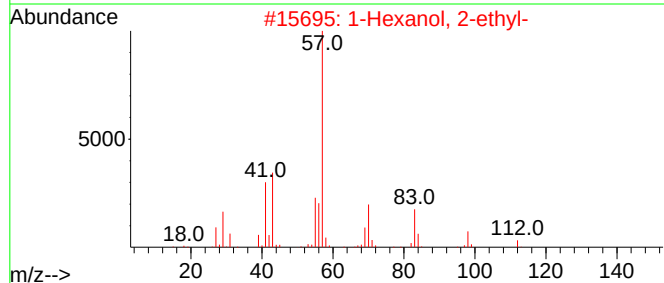
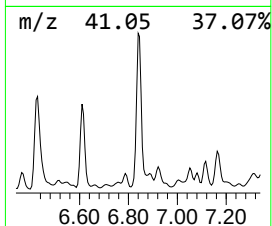
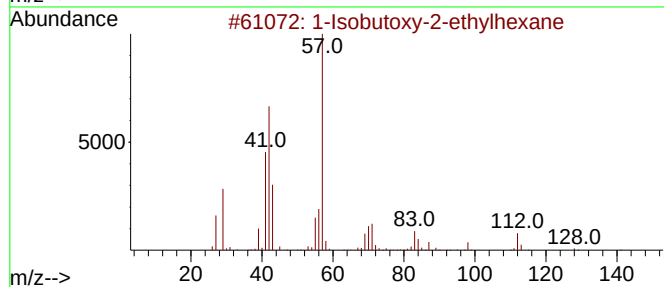
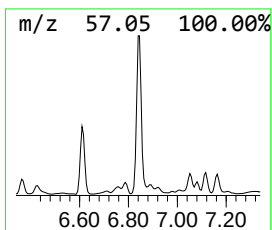
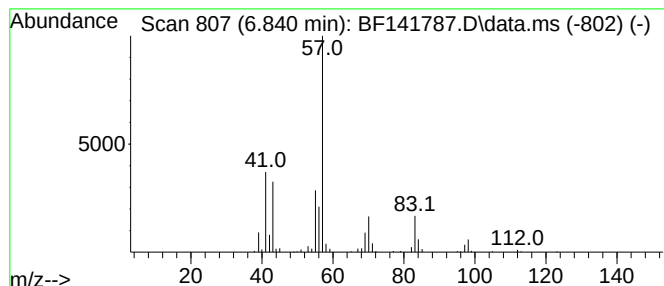
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 1-Isobutoxy-2-ethylhexane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.840	7.95 ng	169520	1,4-Dichlorobenzene-d4	6.781

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	78
2		1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	72
3		1-Pentanol, 2-ethyl-4-methyl-	130	C8H18O	000106-67-2	59
4		Oxalic acid, isobutyl octyl ester	258	C14H26O4	1000309-37-3	59
5		Heptane, 1,1'-oxybis-	214	C14H30O	000629-64-1	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
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Sample : Q1415-06
Misc :
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ClientSampleId :
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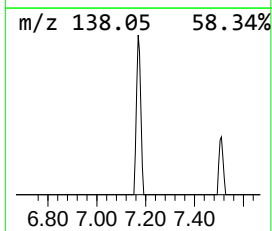
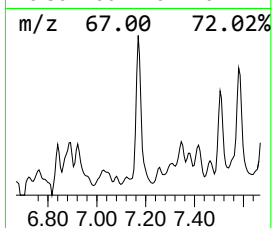
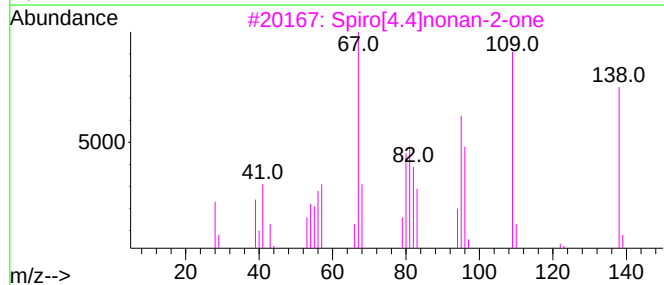
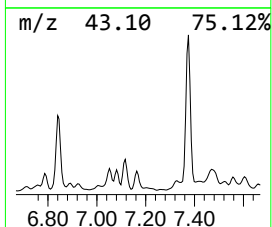
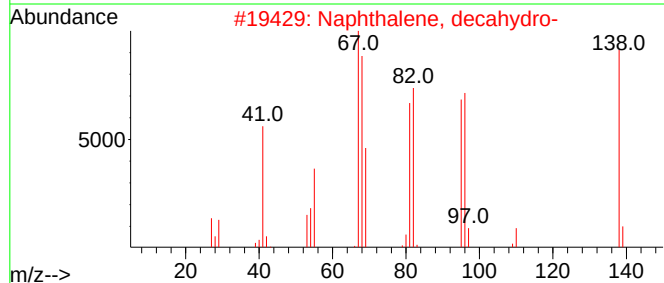
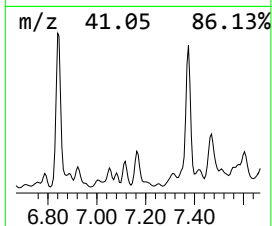
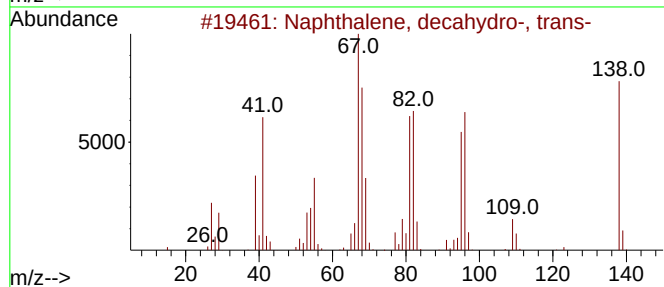
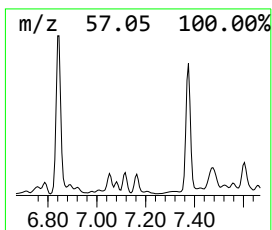
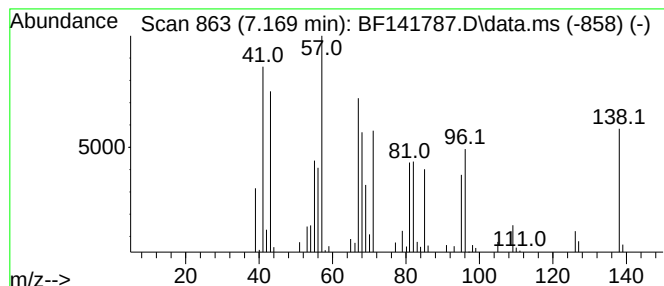
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Naphthalene, decahydro-, tr... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.169	2.89 ng	61645	1,4-Dichlorobenzene-d4	6.781

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	90
2			Naphthalene, decahydro-	138	C10H18	000091-17-8	90
3			Spiro[4.4]nonan-2-one	138	C9H14O	034177-18-9	38
4			1,1'-Bicyclopentyl	138	C10H18	001636-39-1	38
5			Cyclopentene, 1-(3-methylbutyl)-	138	C10H18	037689-15-9	30



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
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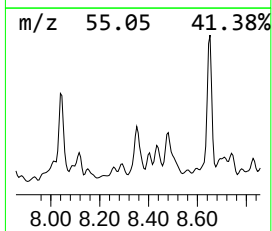
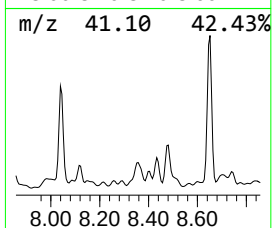
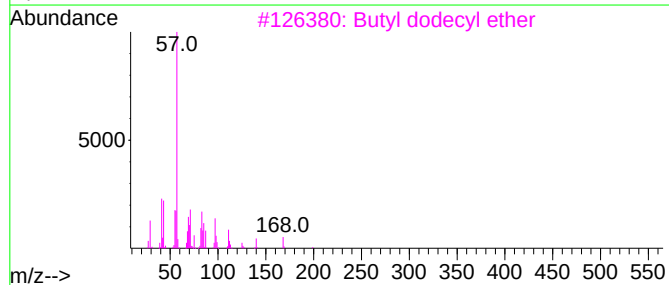
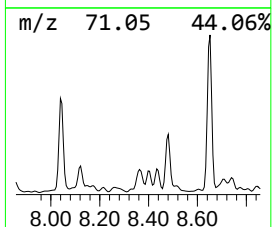
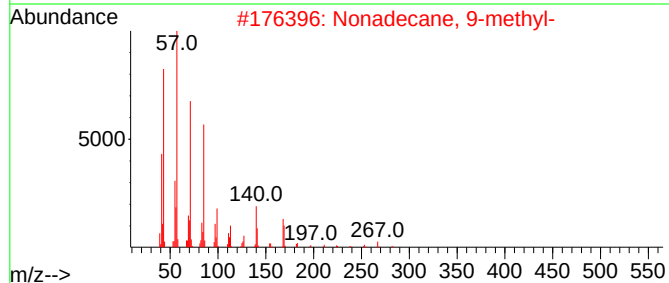
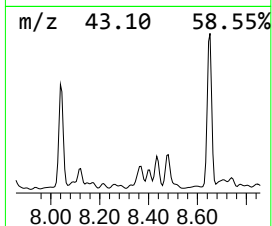
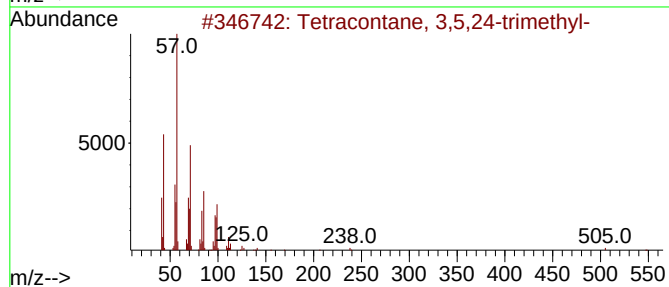
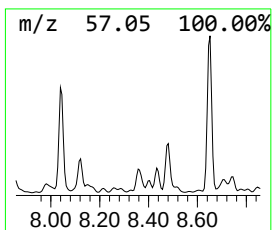
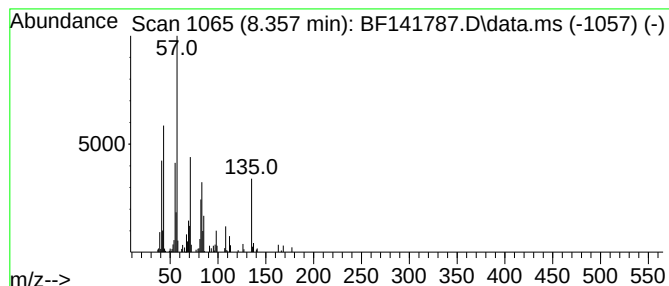
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 unknown8.357 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.357	3.23 ng	144734	Naphthalene-d8	8.063

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetracontane, 3,5,24-trimethyl-	605	C43H88	055162-61-3	38
2		Nonadecane, 9-methyl-	282	C20H42	013287-24-6	35
3		Butyl dodecyl ether	242	C16H34O	1000406-40-3	35
4		10-Methylnonadecane	282	C20H42	056862-62-5	35
5		Dodecyl isobutyl carbonate	286	C17H34O3	959067-22-2	27



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
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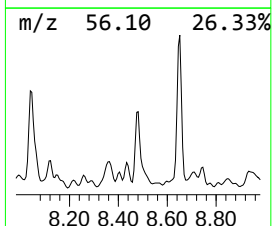
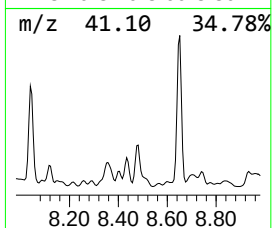
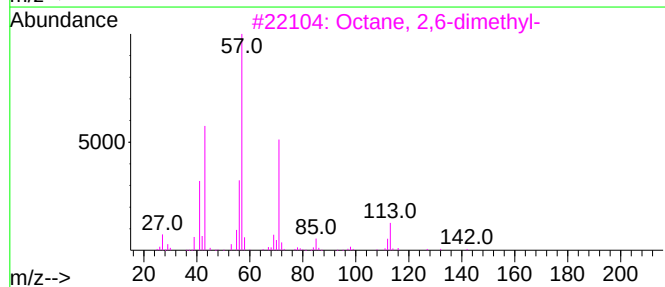
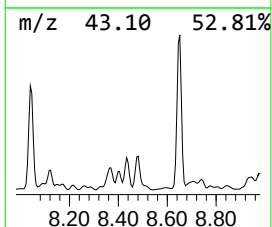
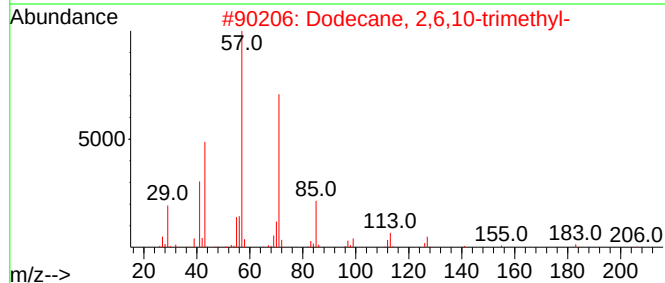
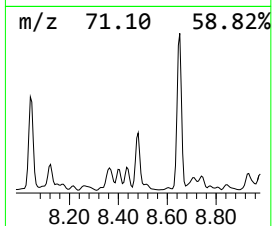
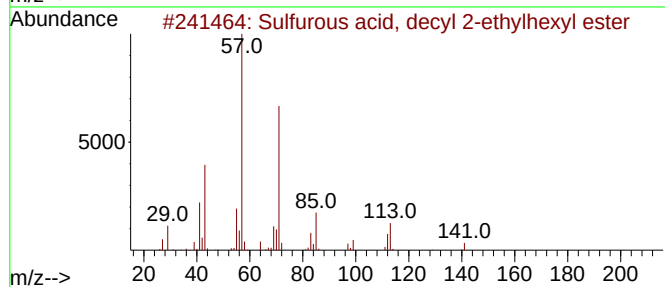
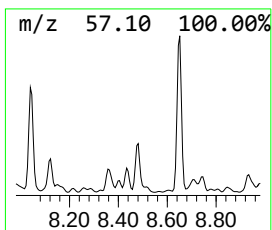
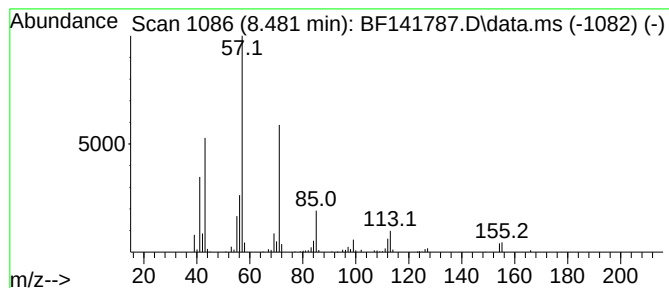
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Sulfurous acid, decyl 2-eth... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.481	4.09 ng	183078	Naphthalene-d8	8.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	72
2			Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	64
3			Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	59
4			Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	59
5			Nonane, 3-methyl-	142	C10H22	005911-04-6	59



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
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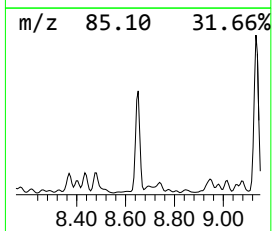
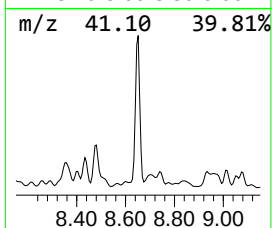
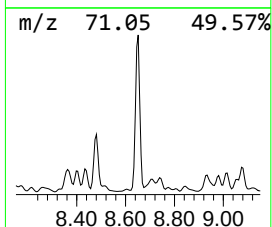
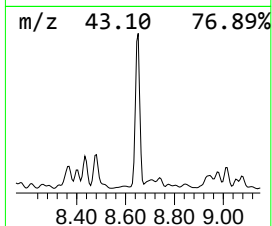
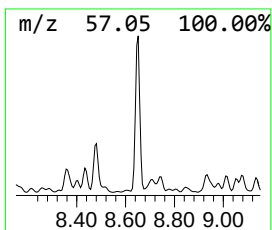
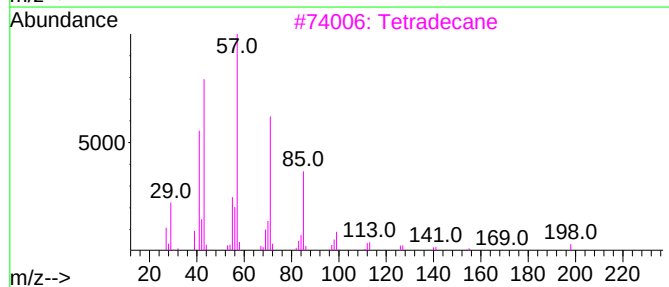
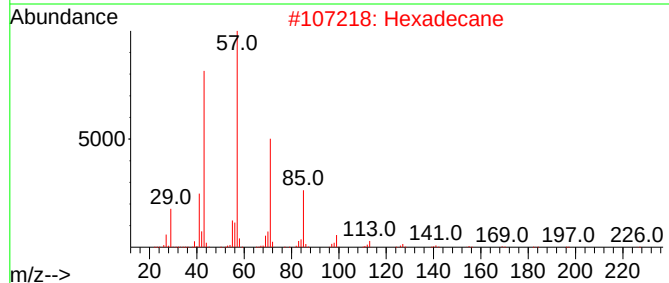
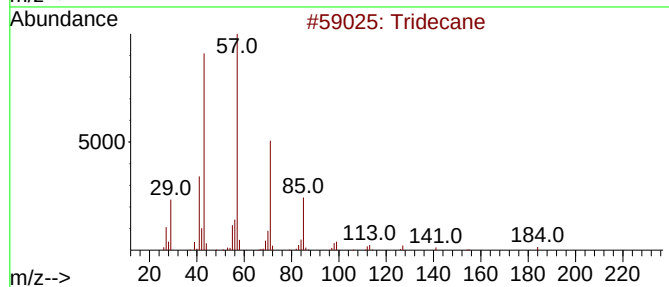
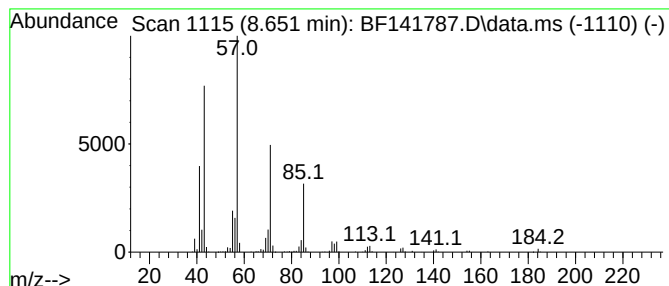
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Tridecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.651	9.21 ng	412546	Naphthalene-d8	8.063

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Tridecane	184	C13H28	000629-50-5	93
2			Hexadecane	226	C16H34	000544-76-3	90
3			Tetradecane	198	C14H30	000629-59-4	86
4			Dodecane	170	C12H26	000112-40-3	86
5			Pentadecane	212	C15H32	000629-62-9	86



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
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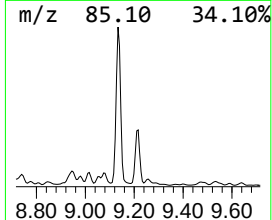
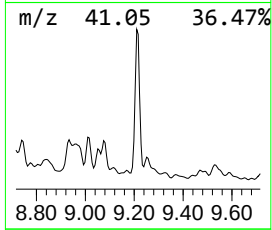
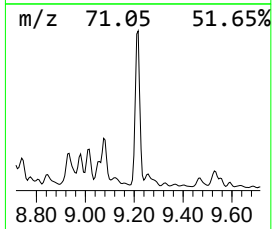
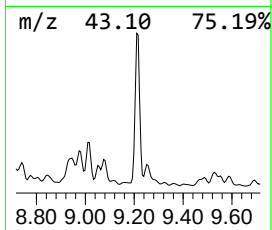
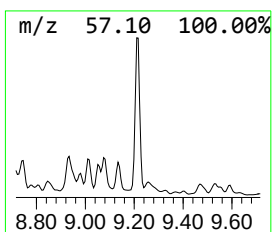
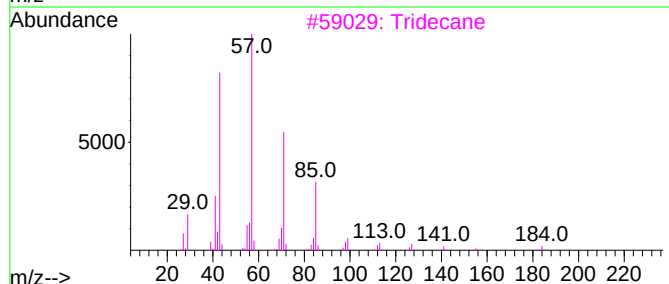
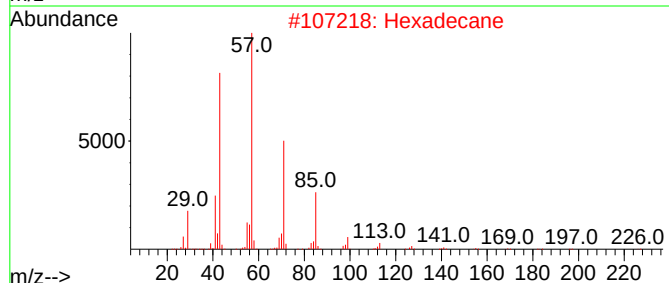
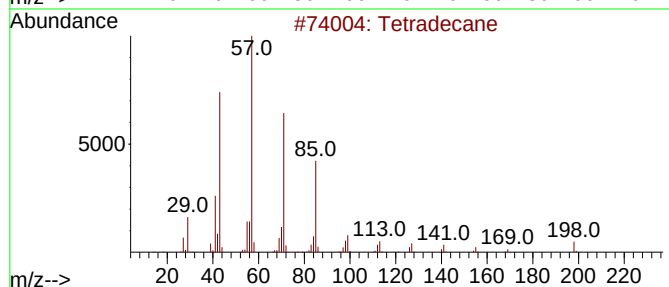
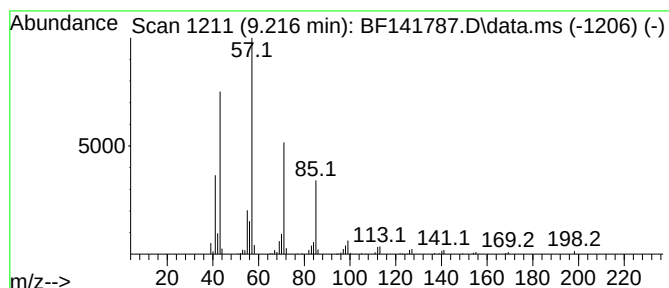
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Tetradecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.216	7.38 ng	238575	Acenaphthene-d10	9.810

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetradecane	198	C14H30	000629-59-4	95
2		Hexadecane	226	C16H34	000544-76-3	91
3		Tridecane	184	C13H28	000629-50-5	90
4		Pentadecane	212	C15H32	000629-62-9	90
5		Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	86



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Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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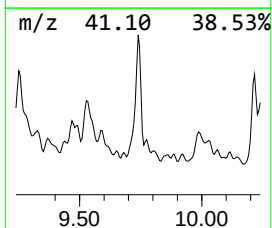
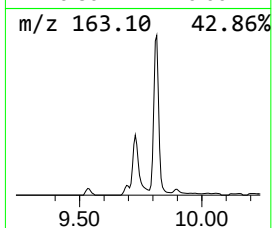
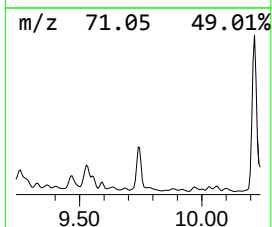
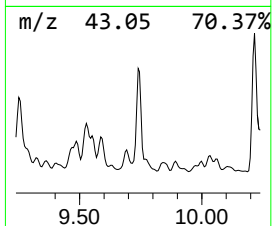
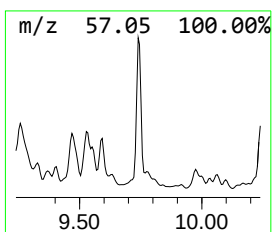
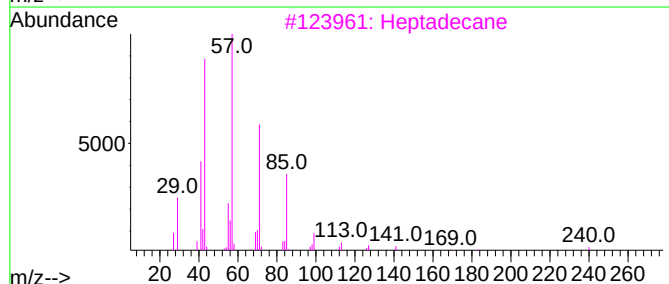
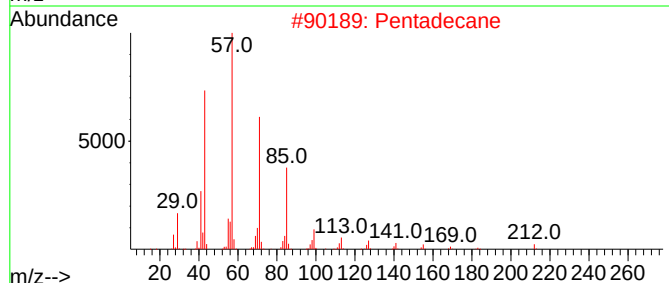
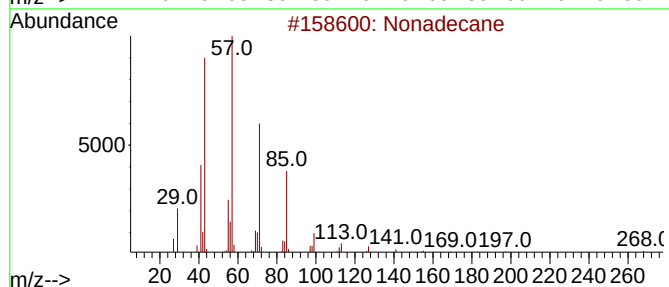
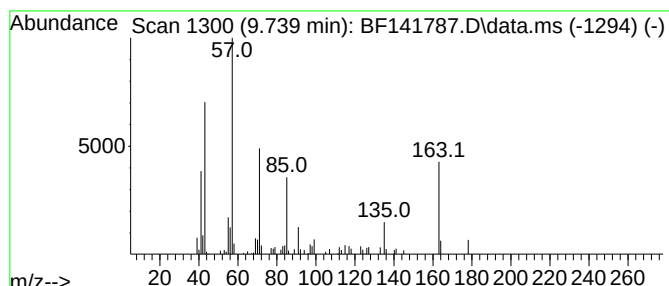
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 unknown9.739 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.739	2.27 ng	73229	Acenaphthene-d10	9.810

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Nonadecane	268	C19H40	000629-92-5	49
2		Pentadecane	212	C15H32	000629-62-9	46
3		Heptadecane	240	C17H36	000629-78-7	43
4		Tetradecane	198	C14H30	000629-59-4	43
5		Hexadecane	226	C16H34	000544-76-3	43



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ClientSampleId :
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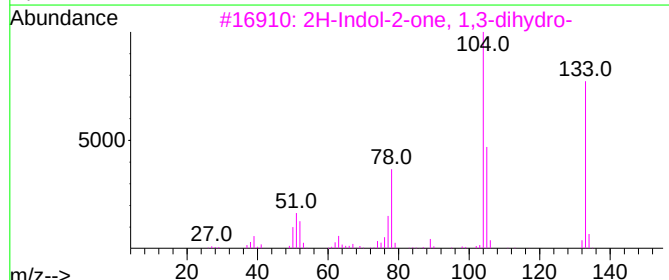
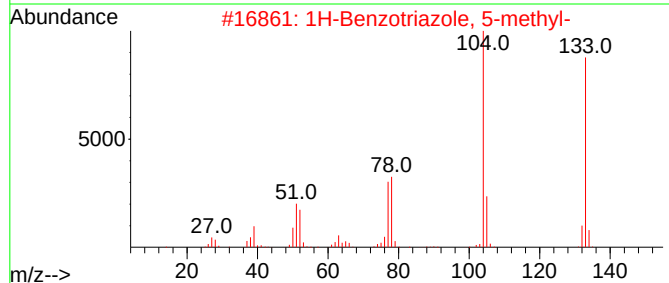
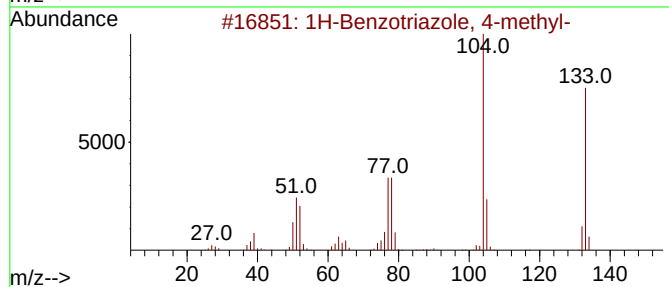
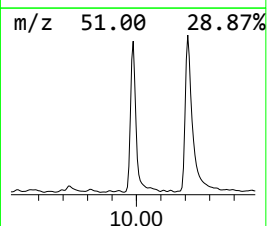
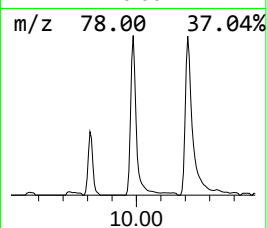
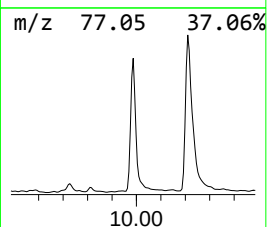
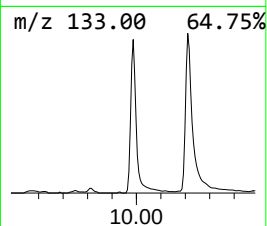
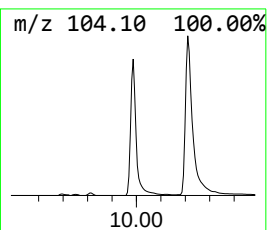
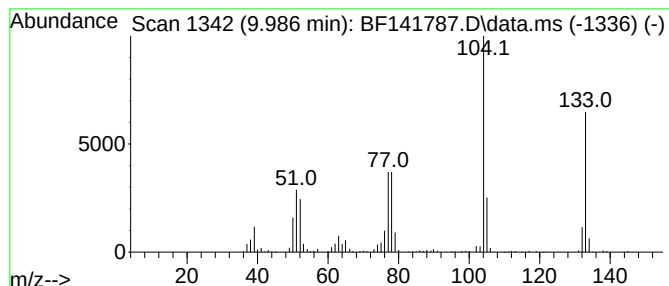
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 1H-Benzotriazole, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.986	9.07 ng	293293	Acenaphthene-d10	9.810

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1H-Benzotriazole, 4-methyl-	133	C7H7N3	029878-31-7	98
2		1H-Benzotriazole, 5-methyl-	133	C7H7N3	000136-85-6	97
3		2H-Indol-2-one, 1,3-dihydro-	133	C8H7NO	000059-48-3	80
4		Benzene, 1-isocyanato-2-methyl-	133	C8H7NO	000614-68-6	62
5		1H-Indol-4-ol	133	C8H7NO	002380-94-1	49



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
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Misc :
ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
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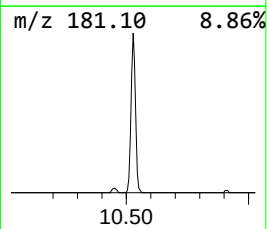
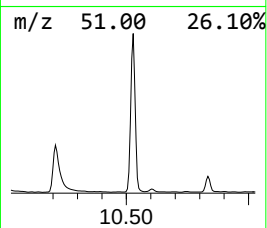
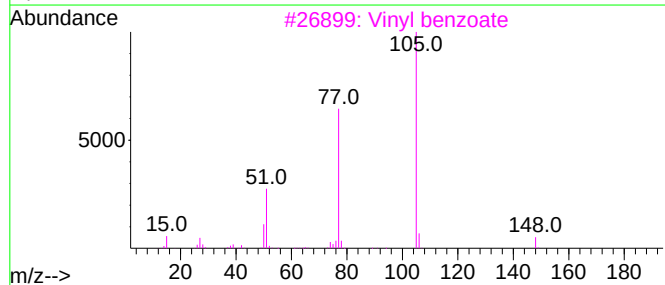
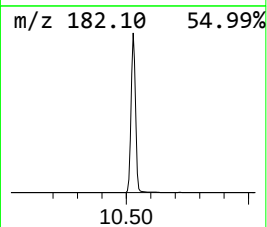
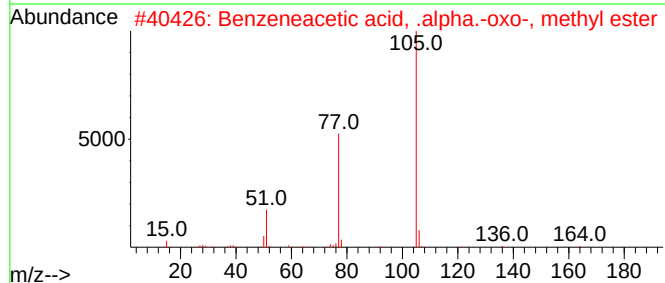
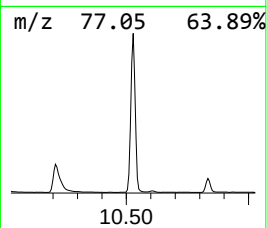
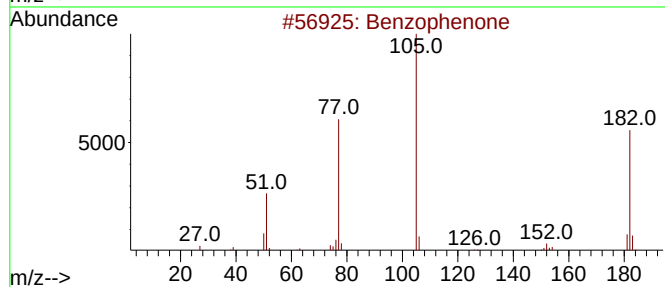
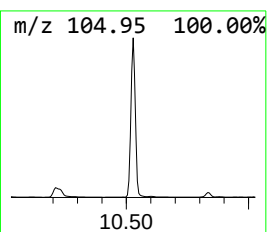
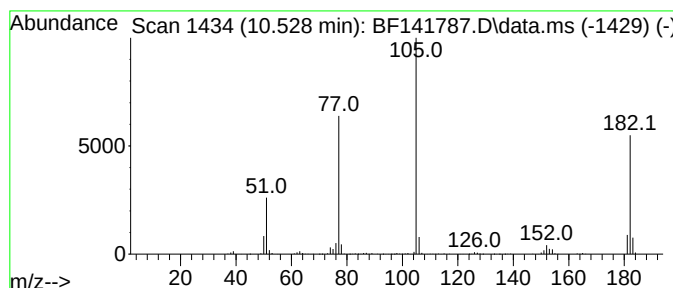
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.528	18.88 ng	610172	Acenaphthene-d10	9.810

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzophenone	182	C13H10O	000119-61-9	96
2			Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
3			Vinyl benzoate	148	C9H8O2	000769-78-8	47
4			N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
5			5-Oxo-5-phenylpentanenitrile	173	C11H11NO	1000486-83-7	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
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ClientSampleId :
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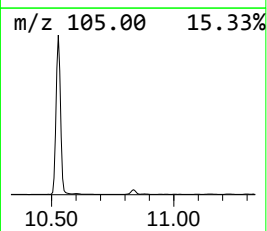
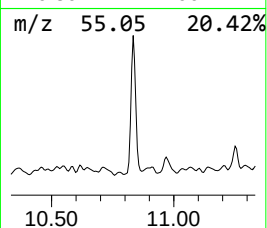
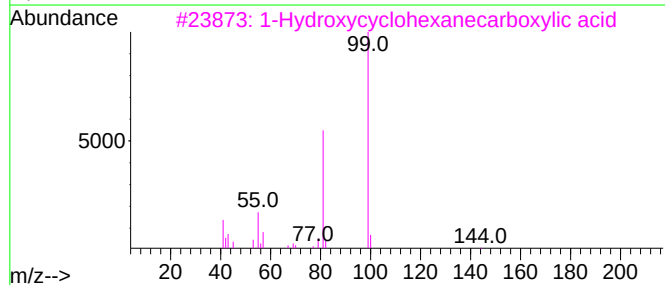
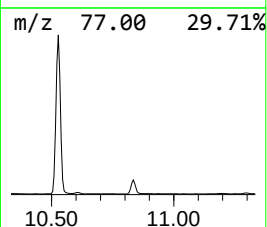
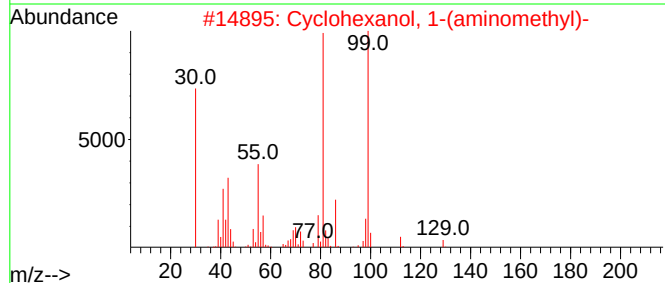
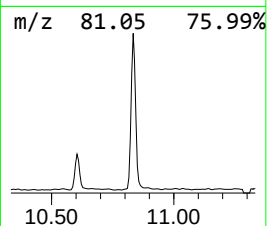
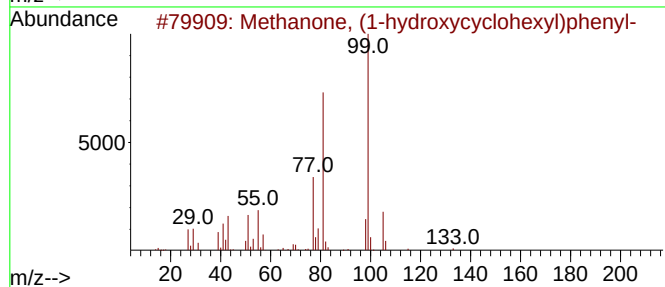
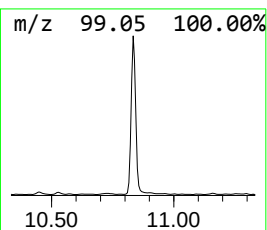
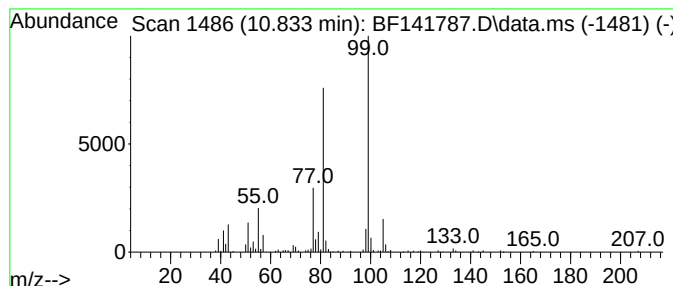
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Methanone, (1-hydroxycyclohexyl) Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.833	4.24 ng	135954	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Methanone, (1-hydroxycyclohexyl)...	204	C13H16O2	000947-19-3	91
2			Cyclohexanol, 1-(aminomethyl)-	129	C7H15NO	004000-72-0	50
3			1-Hydroxycyclohexanecarboxylic acid	144	C7H12O3	001123-28-0	45
4			2-Methylcyclosarin	194	C8H16FO2P	085473-32-1	42
5			3-Methylcyclohexyl methylphospho...	194	C8H16FO2P	113548-86-0	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
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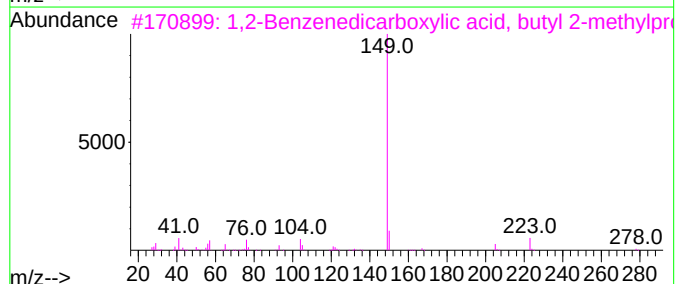
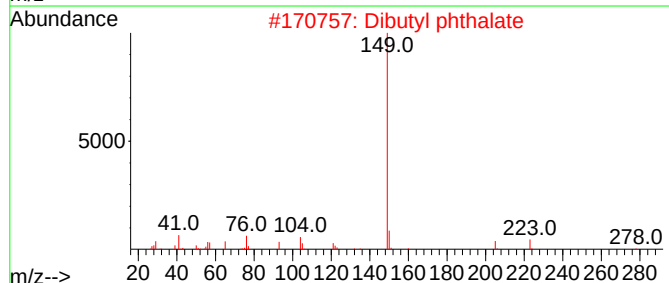
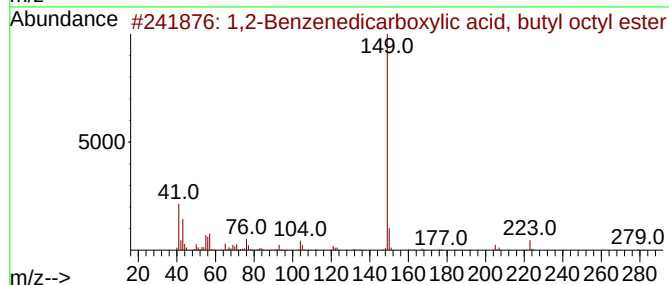
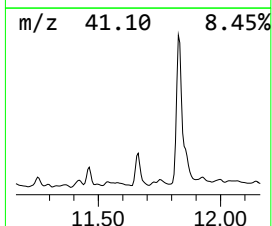
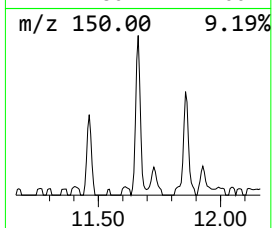
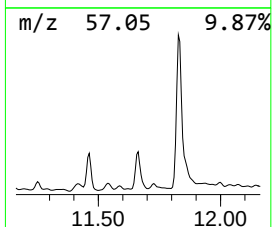
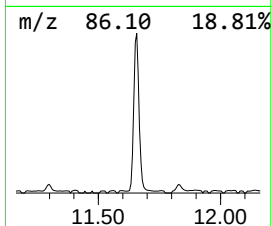
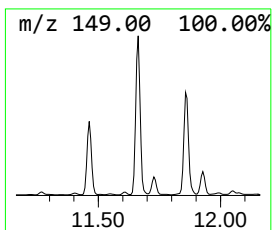
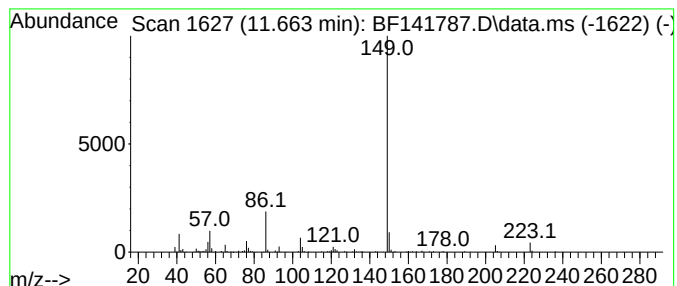
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 1,2-Benzenedicarboxylic aci... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.663	4.78 ng	153238	Phenanthrene-d10	11.298

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1,2-Benzenedicarboxylic acid, bu...	334	C20H30O4	000084-78-6	86
2		Dibutyl phthalate	278	C16H22O4	000084-74-2	83
3		1,2-Benzenedicarboxylic acid, bu...	278	C16H22O4	017851-53-5	80
4		Phthalic acid, cycloheptyl isobu...	318	C19H26O4	1000322-82-8	72
5		Phthalic acid, butyl hexyl ester	306	C18H26O4	1010308-99-5	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
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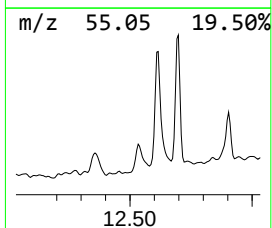
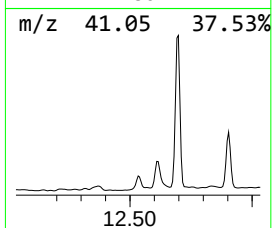
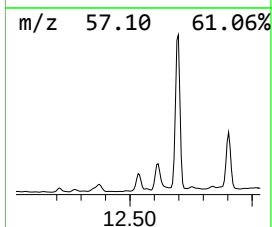
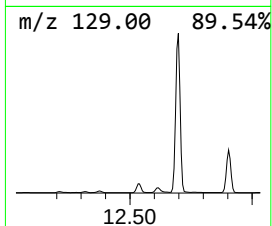
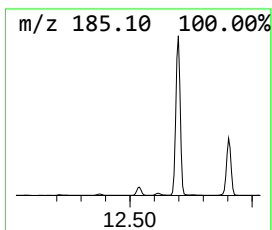
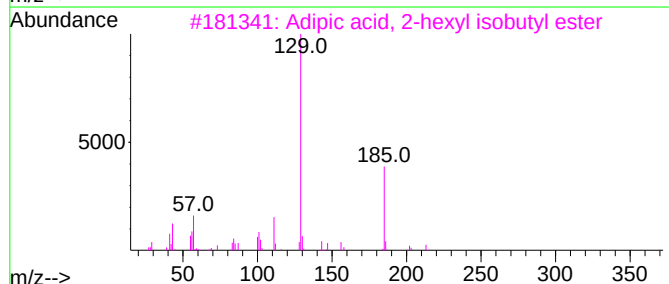
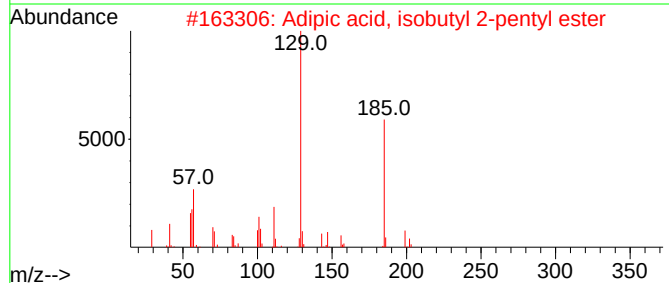
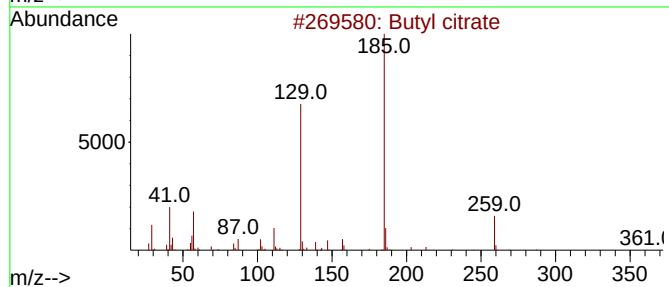
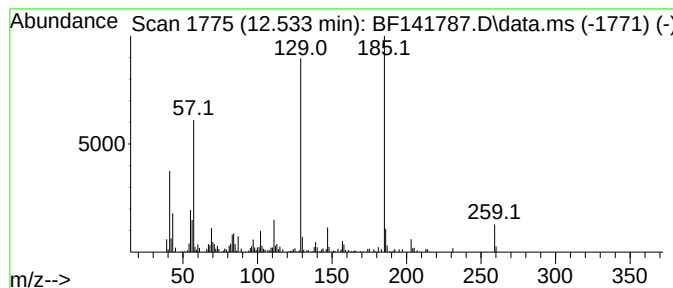
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Butyl citrate Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.533	3.22 ng	103121	Phenanthrene-d10	11.298

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butyl citrate	360	C18H32O7	000077-94-1	86
2			Adipic acid, isobutyl 2-pentyl e...	272	C15H28O4	1000324-15-6	78
3			Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	78
4			Adipic acid, 2-decyl isobutyl ester	342	C20H38O4	1000353-59-6	53
5			Adipic acid, isobutyl 2-methylpe...	286	C16H30O4	1000353-55-7	43



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
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Sample : Q1415-06
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ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :
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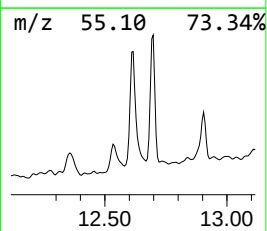
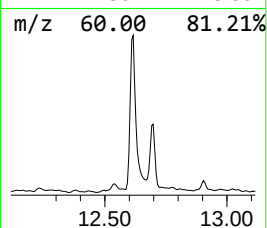
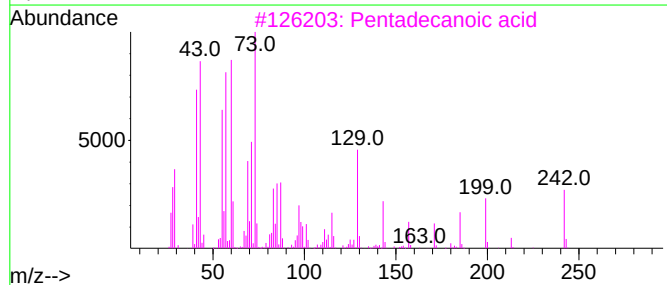
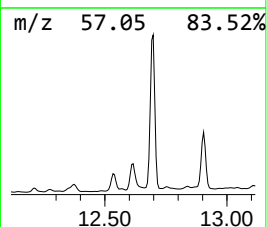
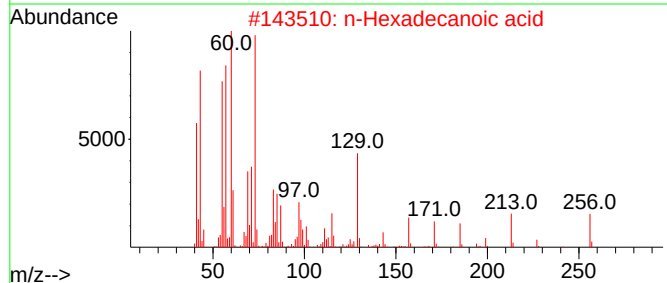
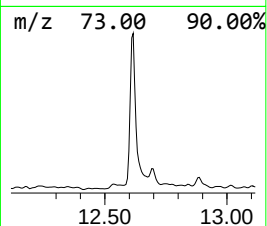
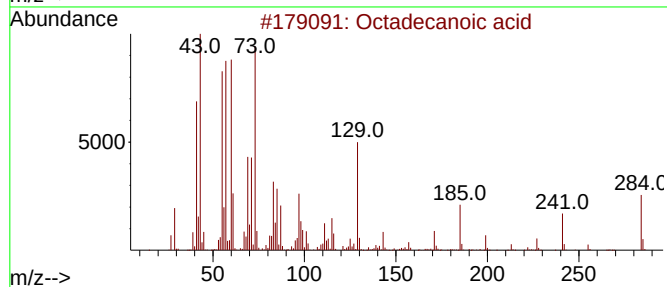
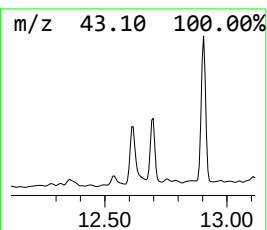
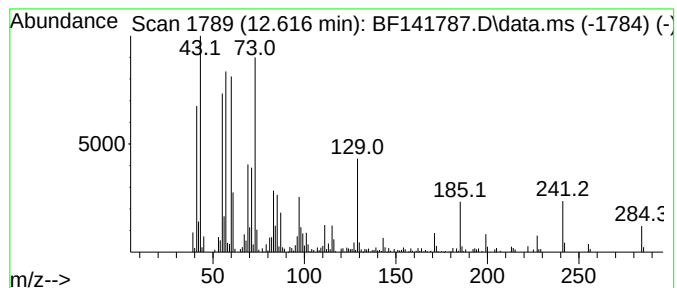
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Octadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.616	7.87 ng	252253	Phenanthrene-d10	11.298

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Octadecanoic acid	284	C18H36O2	000057-11-4	99
2		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	94
3		Pentadecanoic acid	242	C15H30O2	001002-84-2	86
4		Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5		Tridecanoic acid	214	C13H26O2	000638-53-9	70



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
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Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

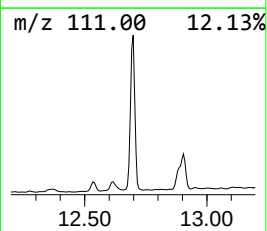
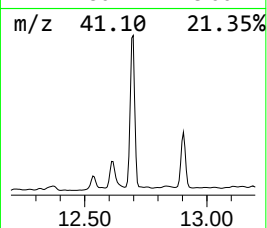
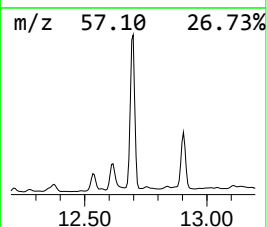
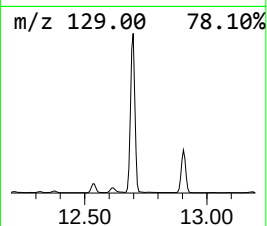
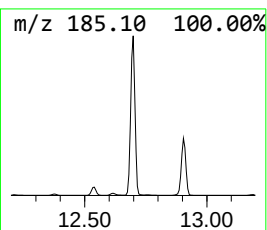
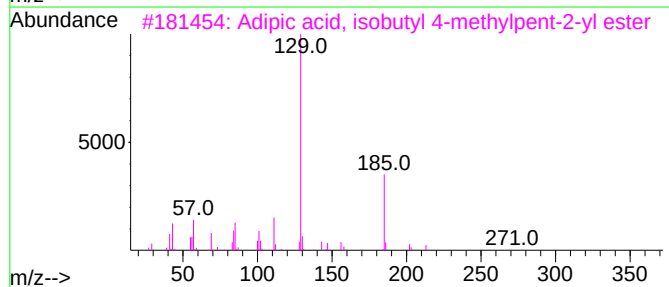
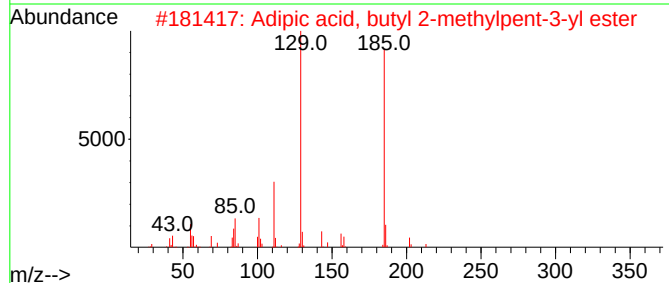
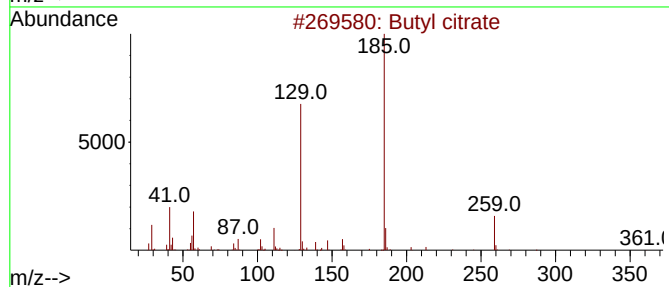
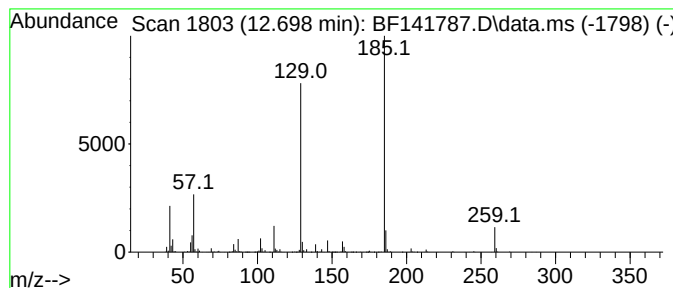
Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Adipic acid, butyl 2-methyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.698	44.71 ng	1038930	Chrysene-d12	13.939
Hit#	of 5	Tentative ID	MW MolForm	CAS# Qual
1		Butyl citrate	360 C18H32O7	000077-94-1 81
2		Adipic acid, butyl 2-methylpent-...	286 C16H30O4	1010353-55-8 72
3		Adipic acid, isobutyl 4-methylpe...	286 C16H30O4	1000353-50-1 64
4		O-Methyl-DL-serine, N-dimethylam...	230 C11H22N2O3	1000375-99-5 64
5		Adipic acid, isobutyl 3-pentyl e...	272 C15H28O4	1000324-60-4 64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

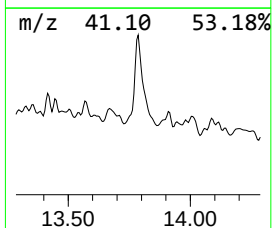
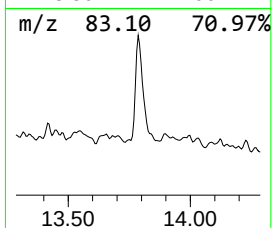
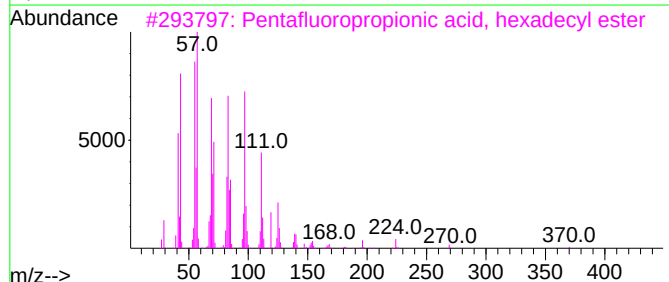
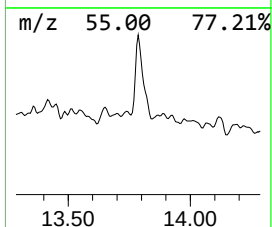
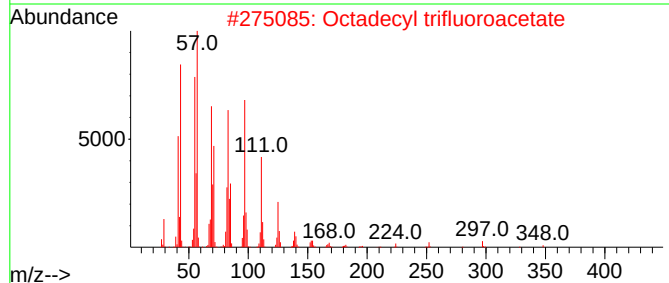
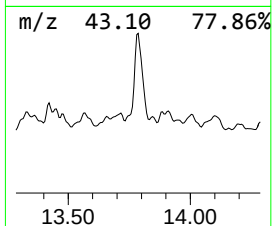
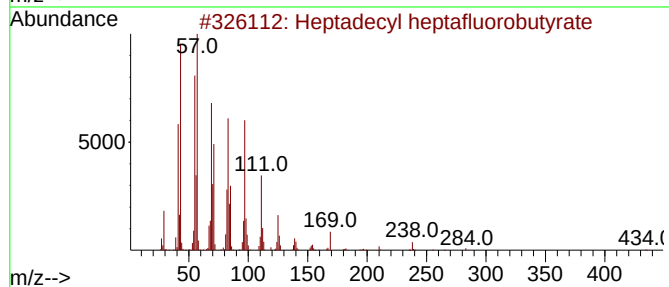
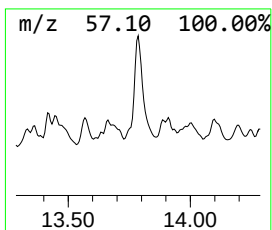
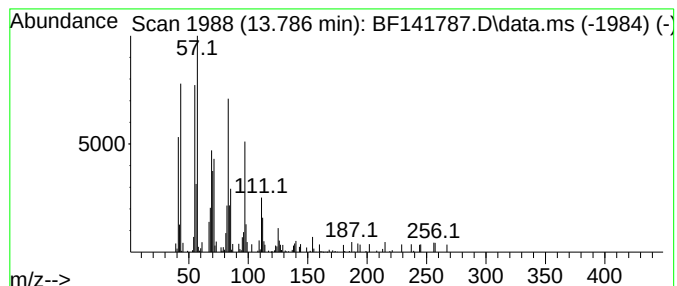
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 Heptadecyl heptafluorobutyrate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.786	4.84 ng	112401	Chrysene-d12	13.939

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	90
2			Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	87
3			Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	87
4			Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	87
5			Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

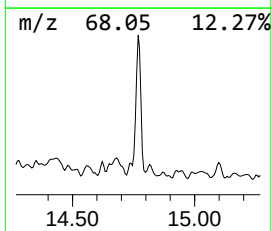
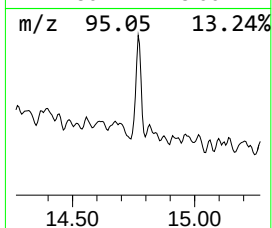
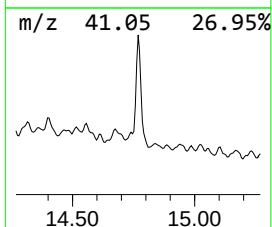
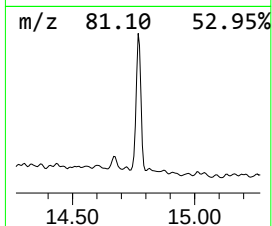
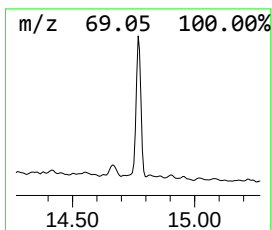
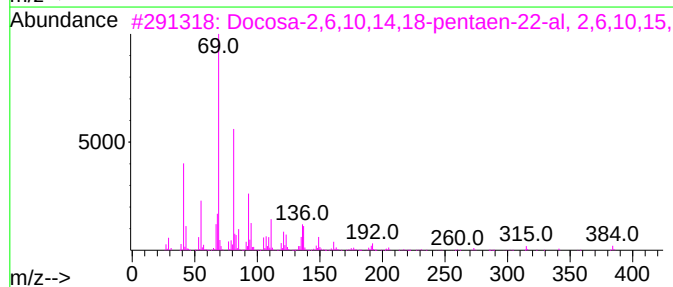
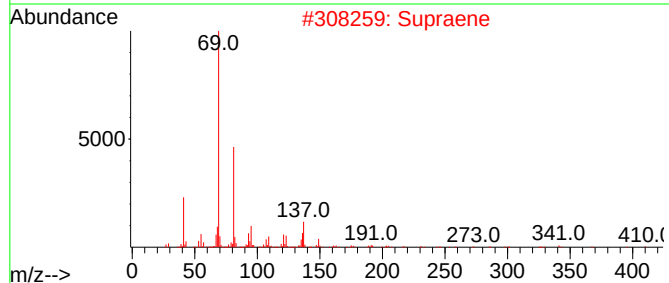
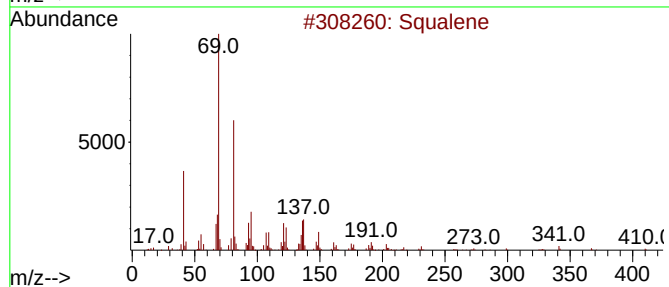
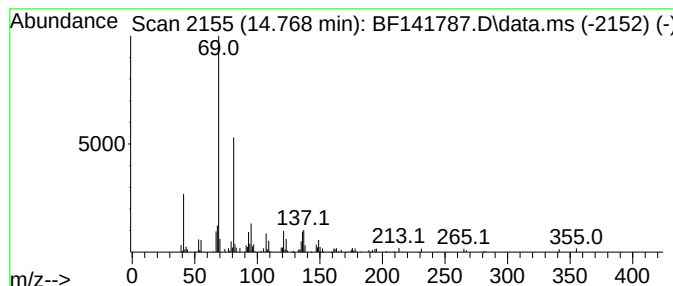
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 Squalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.768	2.87 ng	64364	Perylene-d12	15.386

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Squalene	410	C30H50	000111-02-4	90
2			Supraene	410	C30H50	007683-64-9	80
3			Docosa-2,6,10,14,18-pentaen-22-a...	384	C27H44O	1000163-04-7	78
4			2,6,10,14-Hexadecatetraenoic aci...	332	C22H36O2	024035-35-6	72
5			1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141787.D
Acq On : 26 Feb 2025 17:27
Operator : RC/JU
Sample : Q1415-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-173-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown2.263	2.263	2.1	ng	44840	1	6.781	426482	20.0
2-Pentanone, 4-...	4.975	2.2	ng	47552	1	6.781	426482	20.0
Ethanol, 2-butoxy-	5.728	3.0	ng	63864	1	6.781	426482	20.0
Decane	6.610	4.4	ng	94784	1	6.781	426482	20.0
1-Isobutoxy-2-e...	6.840	8.0	ng	169520	1	6.781	426482	20.0
Naphthalene, de...	7.169	2.9	ng	61645	1	6.781	426482	20.0
unknown8.357	8.357	3.2	ng	144734	2	8.063	895547	20.0
Sulfurous acid,...	8.481	4.1	ng	183078	2	8.063	895547	20.0
Tridecane	8.651	9.2	ng	412546	2	8.063	895547	20.0
Tetradecane	9.216	7.4	ng	238575	3	9.810	646496	20.0
unknown9.739	9.739	2.3	ng	73229	3	9.810	646496	20.0
1H-Benzotriazol...	9.986	9.1	ng	293293	3	9.810	646496	20.0
Benzophenone	10.528	18.9	ng	610172	3	9.810	646496	20.0
Methanone, (1-h...	10.833	4.2	ng	135954	4	11.298	640740	20.0
1,2-Benzenedica...	11.663	4.8	ng	153238	4	11.298	640740	20.0
Butyl citrate	12.533	3.2	ng	103121	4	11.298	640740	20.0
Octadecanoic acid	12.616	7.9	ng	252253	4	11.298	640740	20.0
Adipic acid, bu...	12.698	44.7	ng	1038930	5	13.939	464694	20.0
Heptadecyl hept...	13.786	4.8	ng	112401	5	13.939	464694	20.0
Squalene	14.768	2.9	ng	64364	6	15.386	449071	20.0



CALIBRATION SUMMARY

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06
 Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415
 Instrument ID: BNA_F Calibration Date(s): 02/06/2025 02/06/2025
 Calibration Time(s): 11:07 14:14

LAB FILE ID:		RRF2.5 = BF141472.D			RRF005 = BF141473.D		RRF010 = BF141474.D	
		RRF020 = BF141475.D			RRF040 = BF141476.D		RRF050 = BF141477.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.276	3.8
Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.857	13.9
Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.612	3.1
Phenol		1.693	1.681	1.817	1.685	1.659	1.678	4.4
bis(2-Chloroethyl) ether		1.262	1.229	1.296	1.266	1.252	1.261	1.6
2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.378	3.4
2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.079	3.1
2,2-oxybis(1-Chloropropane)		2.222	2.245	2.313	2.165	2.119	2.158	5.5
Acetophenone		0.517	0.502	0.521	0.493	0.483	0.498	3.4
3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.371	5.5
n-Nitroso-di-n-propylamine	0.950	0.978	0.985	1.039	0.969	0.947	0.964	4.0
Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.383	1.6
Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.550	3.6
Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.374	1.3
Isophorone		0.611	0.594	0.633	0.611	0.601	0.611	2.0
2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.186	4.9
2,4-Dimethylphenol		0.208	0.212	0.221	0.223	0.218	0.217	2.5
bis(2-Chloroethoxy) methane		0.384	0.390	0.408	0.394	0.387	0.392	2.0
2,4-Dichlorophenol		0.286	0.287	0.312	0.296	0.290	0.294	2.9
Naphthalene		1.067	1.041	1.096	1.037	1.012	1.041	3.0
4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.363	2.8
Hexachlorobutadiene		0.193	0.191	0.200	0.192	0.188	0.192	2.0
Caprolactam		0.083	0.085	0.094	0.093	0.088	0.089	4.8
4-Chloro-3-methylphenol		0.310	0.324	0.342	0.329	0.324	0.325	2.9
2-Methylnaphthalene		0.688	0.689	0.719	0.669	0.659	0.677	3.4
Hexachlorocyclopentadiene			0.138	0.180	0.204	0.205	0.192	15.4
2,4,6-Trichlorophenol		0.364	0.365	0.389	0.377	0.373	0.374	2.3
2-Fluorobiphenyl		1.373	1.360	1.385	1.269	1.241	1.298	5.6
2,4,5-Trichlorophenol		0.385	0.407	0.430	0.410	0.394	0.405	3.5
1,1-Biphenyl		1.582	1.564	1.632	1.545	1.517	1.551	3.2
2-Chloronaphthalene		1.167	1.161	1.211	1.135	1.114	1.147	3.2
2-Nitroaniline		0.371	0.371	0.394	0.390	0.382	0.385	2.9
Dimethylphthalate		1.382	1.359	1.408	1.345	1.324	1.358	2.1
Acenaphthylene		1.739	1.736	1.791	1.696	1.660	1.705	3.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date(s): 02/06/2025 02/06/2025

Calibration Time(s): 11:07 14:14

LAB FILE ID:		RRF2.5 = BF141472.D			RRF005 = BF141473.D		RRF010 = BF141474.D	
		RRF020 = BF141475.D			RRF040 = BF141476.D		RRF050 = BF141477.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.289	0.290	0.314	0.301	0.295	0.297	3.1
3-Nitroaniline		0.312	0.313	0.335	0.319	0.320	0.319	2.4
Acenaphthene		1.186	1.164	1.188	1.152	1.108	1.147	3.1
2,4-Dinitrophenol			0.133	0.167	0.177	0.185	0.176	13.8
4-Nitrophenol		0.190	0.216	0.247	0.249	0.249	0.237	10.4
Dibenzofuran		1.768	1.722	1.774	1.673	1.633	1.683	4.4
2,4-Dinitrotoluene		0.383	0.403	0.414	0.398	0.390	0.395	2.8
Diethylphthalate		1.400	1.346	1.398	1.330	1.300	1.336	3.7
4-Chlorophenyl-phenylether		0.661	0.643	0.659	0.622	0.602	0.626	4.7
Fluorene		1.359	1.361	1.377	1.290	1.239	1.301	4.9
4-Nitroaniline		0.315	0.319	0.333	0.335	0.319	0.324	2.3
4,6-Dinitro-2-methylphenol			0.116	0.140	0.142	0.142	0.139	8.5
n-Nitrosodiphenylamine		0.650	0.653	0.674	0.627	0.625	0.640	3.0
2,4,6-Tribromophenol		0.201	0.200	0.210	0.200	0.199	0.201	2.1
4-Bromophenyl-phenylether		0.228	0.220	0.234	0.221	0.220	0.224	2.5
Hexachlorobenzene		0.229	0.234	0.241	0.227	0.224	0.230	2.5
Atrazine		0.200	0.203	0.214	0.185	0.185	0.192	7.1
Pentachlorophenol		0.116	0.131	0.151	0.154	0.158	0.147	11.7
Phenanthrene		1.141	1.132	1.161	1.084	1.071	1.101	3.9
Anthracene		1.168	1.126	1.158	1.082	1.084	1.107	4.0
Carbazole		1.022	1.026	1.076	0.986	0.966	0.996	4.9
Di-n-butylphthalate		1.165	1.156	1.223	1.141	1.132	1.150	3.3
Fluoranthene		1.251	1.239	1.243	1.151	1.129	1.167	6.6
Pyrene		1.528	1.557	1.717	1.745	1.774	1.703	6.7
Terphenyl-d14		1.129	1.104	1.211	1.198	1.209	1.185	4.1
Butylbenzylphthalate		0.525	0.540	0.605	0.609	0.603	0.590	6.8
3,3-Dichlorobenzidine		0.397	0.411	0.407	0.377	0.363	0.381	6.3
Benzo (a) anthracene		1.381	1.332	1.350	1.345	1.309	1.329	2.5
Chrysene		1.187	1.223	1.314	1.201	1.215	1.228	3.3
Bis (2-ethylhexyl) phthalate		0.593	0.610	0.685	0.689	0.680	0.665	6.7
Di-n-octyl phthalate		0.802	0.814	0.910	0.965	1.010	0.949	11.8
Benzo (b) fluoranthene		1.286	1.407	1.398	1.336	1.350	1.343	3.9
Benzo (k) fluoranthene		1.113	1.216	1.247	1.142	1.074	1.147	5.5
Benzo (a) pyrene		1.085	1.074	1.115	1.080	1.069	1.087	1.4
Indeno (1,2,3-cd) pyrene		0.987	1.029	1.186	1.288	1.341	1.236	14.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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Fax : 908 789 8922

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date(s): 02/06/2025 02/06/2025

Calibration Time(s): 11:07 14:14

LAB FILE ID:		RRF2.5 = BF141472.D		RRF005 = BF141473.D		RRF010 = BF141474.D		
		RRF020 = BF141475.D		RRF040 = BF141476.D		RRF050 = BF141477.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		0.796	0.828	0.970	1.051	1.092	1.001	14.1
Benzo (g,h,i) perylene		0.805	0.864	1.001	1.100	1.144	1.048	15.6
1,2,4,5-Tetrachlorobenzene		0.582	0.588	0.600	0.584	0.560	0.579	2.5
1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.513	1.7
2,3,4,6-Tetrachlorophenol		0.332	0.361	0.359	0.348	0.348	0.349	3.0

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF020625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Feb 06 16:58:59 2025
 Response Via : Initial Calibration

Calibration Files

2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF141479.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.511	0.519	0.523	0.517	0.502	0.521	0.501	0.513	1.73	
3)	Pyridine	1.053	1.205	1.311	1.263	1.256	1.261	1.204	1.222	6.79	
4)	n-Nitrosodimet...	0.737	0.774	0.820	0.818	0.835	0.846	0.833	0.809	4.83	
5) S	2-Fluorophenol	1.235	1.290	1.365	1.289	1.273	1.264	1.214	1.276	3.77	
6)	Aniline	1.476	1.545	1.650	1.538	1.506	1.494	1.379	1.513	5.42	
7) S	Phenol-d6	1.619	1.629	1.704	1.613	1.599	1.585	1.538	1.612	3.13	
8)	2-Chlorophenol	1.399	1.410	1.446	1.379	1.368	1.345	1.302	1.378	3.38	
9)	Benzaldehyde	0.892	0.993	0.981	0.821	0.747	0.706		0.857	13.92	
10) C	Phenol	1.693	1.681	1.817	1.685	1.659	1.644	1.569	1.678	4.42	
11)	bis(2-Chloroet...	1.262	1.229	1.296	1.266	1.252	1.262	1.256	1.261	1.59	
12)	1,3-Dichlorobe...	1.473	1.482	1.554	1.441	1.441	1.430	1.366	1.455	3.95	
13) C	1,4-Dichlorobe...	1.546	1.538	1.571	1.471	1.465	1.439	1.379	1.487	4.59	
14)	1,2-Dichlorobe...	1.393	1.439	1.473	1.374	1.351	1.345	1.285	1.380	4.55	
15)	Benzyl Alcohol	1.191	1.251	1.322	1.262	1.248	1.218	1.163	1.236	4.19	
16)	2,2'-oxybis(1-...	2.222	2.245	2.313	2.165	2.119	2.082	1.959	2.158	5.45	
17)	2-Methylphenol	1.116	1.089	1.121	1.077	1.059	1.066	1.024	1.079	3.15	
18)	Hexachloroethane	0.539	0.545	0.589	0.553	0.556	0.544	0.526	0.550	3.59	
19) P	n-Nitroso-di-n...	0.950	0.978	0.985	1.039	0.969	0.947	0.941	0.907	0.964	4.03
20)	3+4-Methylphenols	1.442	1.417	1.459	1.372	1.344	1.319	1.244	1.371	5.52	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.517	0.502	0.521	0.493	0.483	0.488	0.478	0.498	3.35	
23) S	Nitrobenzene-d5	0.380	0.379	0.396	0.385	0.378	0.381	0.384	0.383	1.58	
24)	Nitrobenzene	0.370	0.371	0.383	0.374	0.369	0.375	0.376	0.374	1.29	
25)	Isophorone	0.611	0.594	0.633	0.611	0.601	0.617	0.614	0.611	2.04	
26) C	2-Nitrophenol	0.171	0.175	0.190	0.193	0.190	0.193	0.191	0.186	4.91	
27)	2,4-Dimethylph...	0.208	0.212	0.221	0.223	0.218	0.220	0.220	0.217	2.46	
28)	bis(2-Chloroet...	0.384	0.390	0.408	0.394	0.387	0.391	0.388	0.392	2.03	
29) C	2,4-Dichloroph...	0.286	0.287	0.312	0.296	0.290	0.292	0.292	0.294	2.95	
30)	1,2,4-Trichlor...	0.327	0.321	0.331	0.317	0.312	0.317	0.314	0.320	2.12	
31)	Naphthalene	1.067	1.041	1.096	1.037	1.012	1.022	1.012	1.041	2.98	
32)	Benzoic acid		0.186	0.217	0.229	0.233	0.243	0.246	0.226	9.70	
33)	4-Chloroaniline	0.354	0.352	0.382	0.364	0.360	0.364	0.370	0.363	2.82	
34) C	Hexachlorobuta...	0.193	0.191	0.200	0.192	0.188	0.191	0.189	0.192	2.01	
35)	Caprolactam	0.083	0.085	0.094	0.093	0.088	0.091	0.092	0.089	4.75	
36) C	4-Chloro-3-met...	0.310	0.324	0.342	0.329	0.324	0.325	0.324	0.325	2.91	
37)	2-Methylnaphth...	0.688	0.689	0.719	0.669	0.659	0.666	0.652	0.677	3.42	
38)	1-Methylnaphth...	0.680	0.657	0.691	0.656	0.637	0.640	0.631	0.656	3.40	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF020625.M

39) I	Acenaphthene-d10	-----ISTD-----								
40)	1,2,4,5-Tetrac...	0.582	0.588	0.600	0.584	0.560	0.574	0.562	0.579	2.50
41) P	Hexachlorocycl...	0.138	0.180	0.204	0.205	0.214	0.214	0.192		15.36
42) S	2,4,6-Tribromo...	0.201	0.200	0.210	0.200	0.199	0.201	0.196	0.201	2.08
43) C	2,4,6-Trichlor...	0.364	0.365	0.389	0.377	0.373	0.378	0.372	0.374	2.28
44)	2,4,5-Trichlor...	0.385	0.407	0.430	0.410	0.394	0.409	0.401	0.405	3.51
45) S	2-Fluorobiphenyl	1.373	1.360	1.385	1.269	1.241	1.259	1.201	1.298	5.62
46)	1,1'-Biphenyl	1.582	1.564	1.632	1.545	1.517	1.537	1.478	1.551	3.16
47)	2-Chloronaphth...	1.167	1.161	1.211	1.135	1.114	1.136	1.103	1.147	3.18
48)	2-Nitroaniline	0.371	0.371	0.394	0.390	0.382	0.401	0.385	0.385	2.92
49)	Acenaphthylene	1.739	1.736	1.791	1.696	1.660	1.689	1.626	1.705	3.21
50)	Dimethylphthalate	1.382	1.359	1.408	1.345	1.324	1.341	1.345	1.358	2.09
51)	2,6-Dinitrotol...	0.289	0.290	0.314	0.301	0.295	0.299	0.290	0.297	3.06
52) C	Acenaphthene	1.186	1.164	1.188	1.152	1.108	1.127	1.101	1.147	3.10
53)	3-Nitroaniline	0.312	0.313	0.335	0.319	0.320	0.321	0.316	0.319	2.35
54) P	2,4-Dinitrophenol	0.133	0.167	0.177	0.185	0.198	0.198	0.176		13.83
55)	Dibenzofuran	1.768	1.722	1.774	1.673	1.633	1.634	1.576	1.683	4.44
56) P	4-Nitrophenol	0.190	0.216	0.247	0.249	0.249	0.257	0.251	0.237	10.43
57)	2,4-Dinitrotol...	0.383	0.403	0.414	0.398	0.390	0.396	0.383	0.395	2.83
58)	Fluorene	1.359	1.361	1.377	1.290	1.239	1.263	1.221	1.301	4.90
59)	2,3,4,6-Tetrac...	0.332	0.361	0.359	0.348	0.348	0.355	0.340	0.349	2.95
60)	Diethylphthalate	1.400	1.346	1.398	1.330	1.300	1.308	1.269	1.336	3.71
61)	4-Chlorophenyl...	0.661	0.643	0.659	0.622	0.602	0.611	0.585	0.626	4.66
62)	4-Nitroaniline	0.315	0.319	0.333	0.335	0.319	0.327	0.324	0.324	2.28
63)	Azobenzene	1.348	1.329	1.385	1.326	1.295	1.320	1.294	1.328	2.38
64) I	Phenanthrene-d10	-----ISTD-----								
65)	4,6-Dinitro-2-...	0.116	0.140	0.142	0.142	0.146	0.148	0.139		8.48
66) c	n-Nitrosodiphe...	0.650	0.653	0.674	0.627	0.625	0.625	0.627	0.640	2.97
67)	4-Bromophenyl-...	0.228	0.220	0.234	0.221	0.220	0.221	0.221	0.224	2.46
68)	Hexachlorobenzene	0.229	0.234	0.241	0.227	0.224	0.228	0.228	0.230	2.46
69)	Atrazine	0.200	0.203	0.214	0.185	0.185	0.182	0.176	0.192	7.12
70) C	Pentachlorophenol	0.116	0.131	0.151	0.154	0.158	0.159	0.160	0.147	11.68
71)	Phenanthrene	1.141	1.132	1.161	1.084	1.071	1.069	1.049	1.101	3.91
72)	Anthracene	1.168	1.126	1.158	1.082	1.084	1.071	1.057	1.107	3.99
73)	Carbazole	1.022	1.026	1.076	0.986	0.966	0.961	0.933	0.996	4.87
74)	Di-n-butylphth...	1.165	1.156	1.223	1.141	1.132	1.126	1.105	1.150	3.29
75) C	Fluoranthene	1.251	1.239	1.243	1.151	1.129	1.091	1.065	1.167	6.63
76) I	Chrysene-d12	-----ISTD-----								
77)	Benzidine	0.474	0.487	0.334	0.528	0.432	0.351	0.481	0.441	16.58
78)	Pyrene	1.528	1.557	1.717	1.745	1.774	1.807	1.789	1.703	6.67
79) S	Terphenyl-d14	1.129	1.104	1.211	1.198	1.209	1.234	1.208	1.185	4.07
80)	Butylbenzylpht...	0.525	0.540	0.605	0.609	0.603	0.623	0.624	0.590	6.83
81)	Benzo(a)anthra...	1.381	1.332	1.350	1.345	1.309	1.309	1.279	1.329	2.51
82)	3,3'-Dichlorob...	0.397	0.411	0.407	0.377	0.363	0.353	0.358	0.381	6.31
83)	Chrysene	1.187	1.223	1.314	1.201	1.215	1.224	1.229	1.228	3.34
84)	Bis(2-ethylhex...	0.593	0.610	0.685	0.689	0.680	0.697	0.702	0.665	6.68
85) c	Di-n-octyl pht...	0.802	0.814	0.910	0.965	1.010	1.051	1.090	0.949	11.82

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF020625.M

86) I	Perylene-d12	-----ISTD-----									
87)	Indeno(1,2,3-c...	0.987	1.029	1.186	1.288	1.341	1.410	1.408	1.236	14.06	
88)	Benzo(b)fluora...	1.286	1.407	1.398	1.336	1.350	1.356	1.268	1.343	3.88	
89)	Benzo(k)fluora...	1.113	1.216	1.247	1.142	1.074	1.098	1.138	1.147	5.49	
90) C	Benzo(a)pyrene	1.085	1.074	1.115	1.080	1.069	1.094	1.089	1.087	1.41	
91)	Dibenzo(a,h)an...	0.796	0.828	0.970	1.051	1.092	1.138	1.134	1.001	14.13	
92)	Benzo(g,h,i)pe...	0.805	0.864	1.001	1.100	1.144	1.203	1.218	1.048	15.60	

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141472.D
Acq On : 06 Feb 2025 11:07
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 06 16:00:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

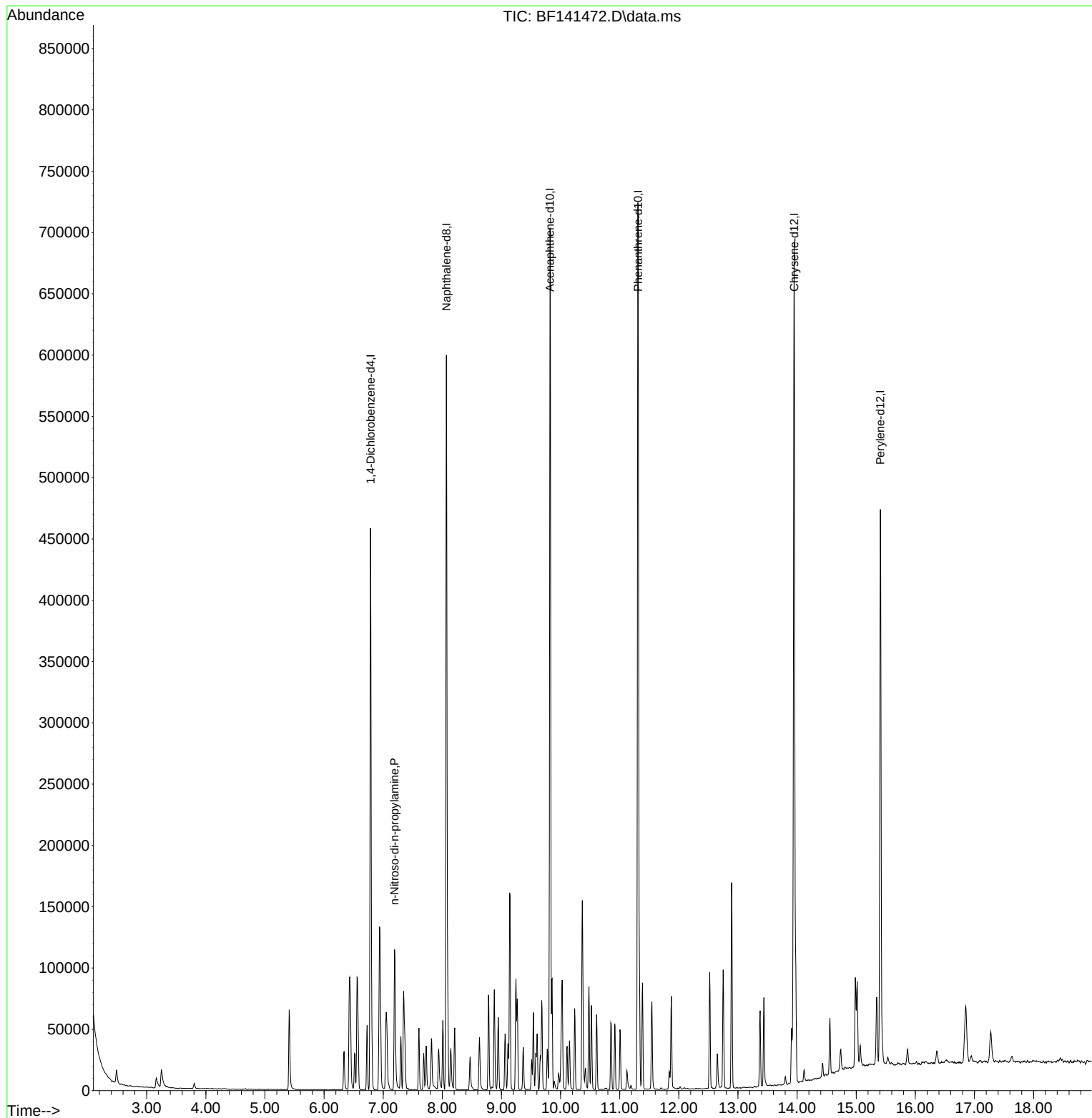
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	91402	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	372084	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	206500	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	361595	20.000	ng	0.00
76) Chrysene-d12	13.951	240	309941	20.000	ng	-0.01
86) Perylene-d12	15.410	264	259363	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
19) n-Nitroso-di-n-propyla...	7.192	70	10850	2.462	ng	Qvalue 92

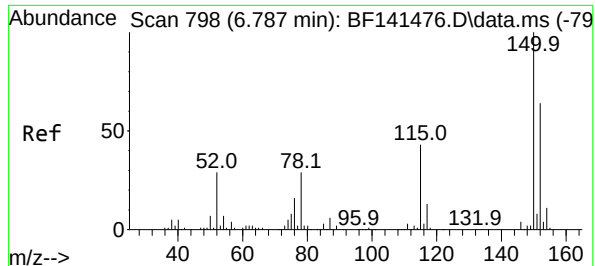
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BF141472.D
Acq On : 06 Feb 2025 11:07
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

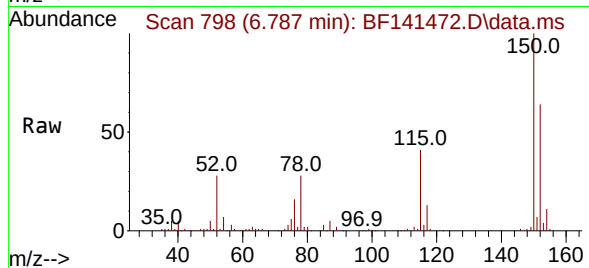
Quant Time: Feb 06 16:00:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



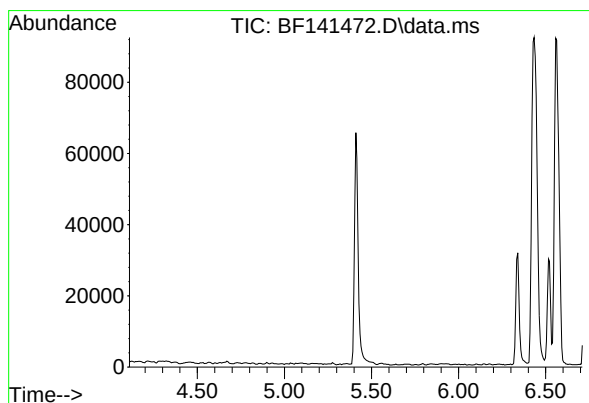
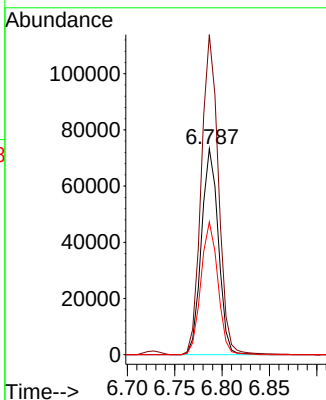
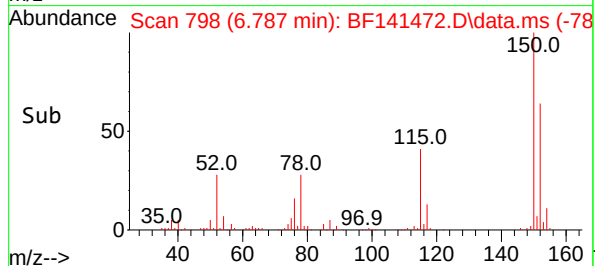


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5



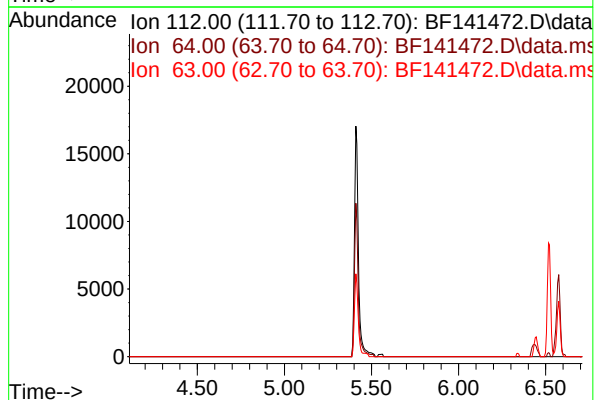
Tgt Ion:152 Resp: 91402
Ion Ratio Lower Upper
152 100
150 155.4 125.0 187.4
115 64.4 53.6 80.4

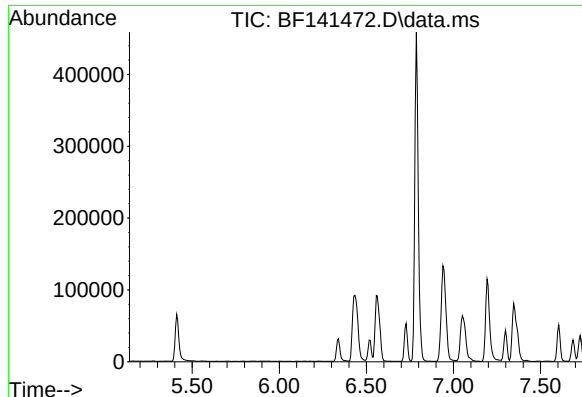


#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.41 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 112
Sig Exp Ratio
112 100
64 63.9
63 35.5





#7

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.44 min

Lab File: BF141472.D

Acq: 06 Feb 2025 11:07

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5

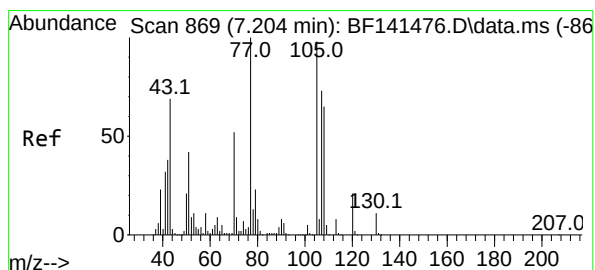
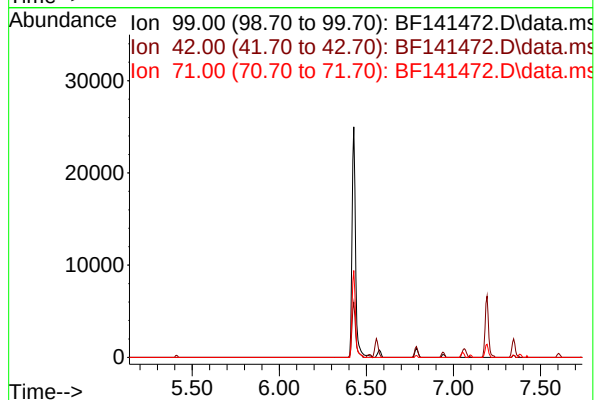
Tgt Ion: 99

Sig Exp Ratio

99 100

42 23.9

71 38.9



#19

n-Nitroso-di-n-propylamine

Concen: 2.462 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.023 min

Lab File: BF141472.D

Acq: 06 Feb 2025 11:07

Tgt Ion: 70 Resp: 10850

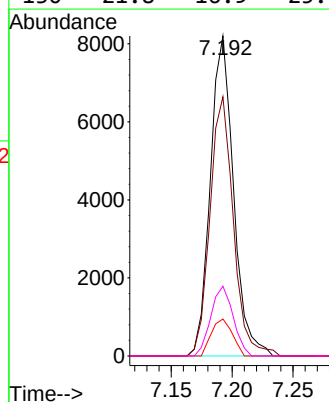
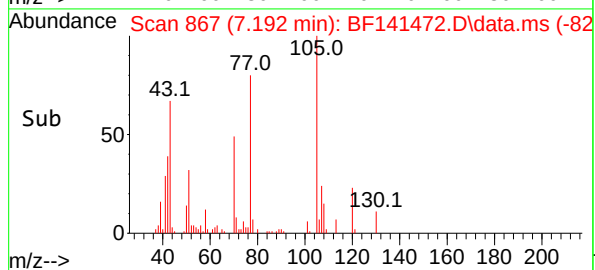
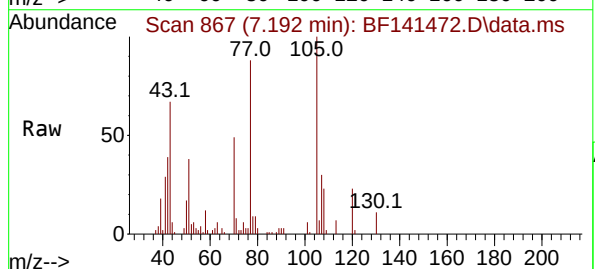
Ion Ratio Lower Upper

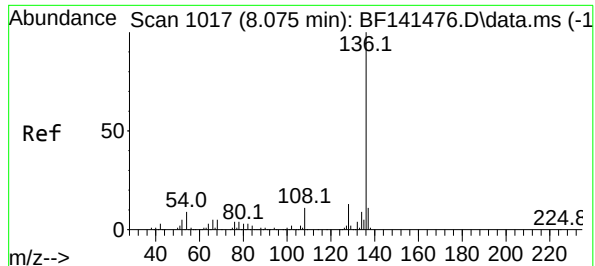
70 100

42 81.0 57.4 86.2

101 11.5 8.0 12.0

130 21.8 16.9 25.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141472.D

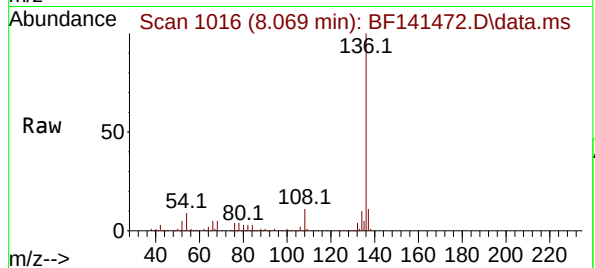
Acq: 06 Feb 2025 11:07

Instrument :

BNA_F

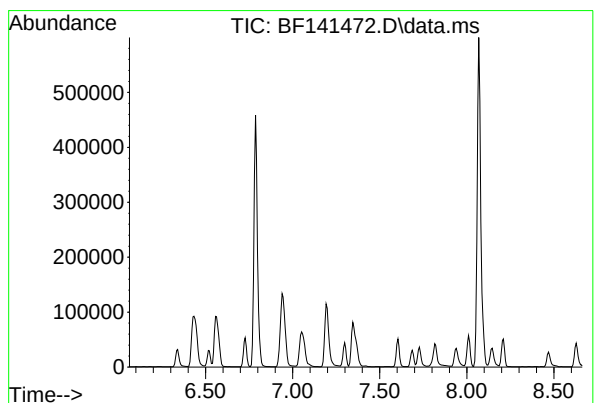
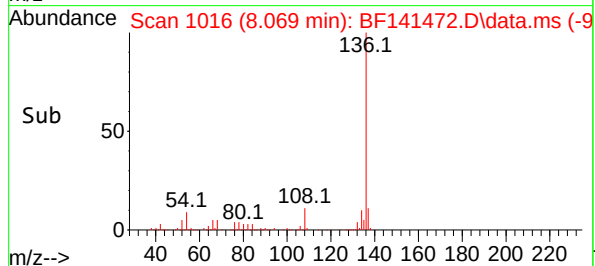
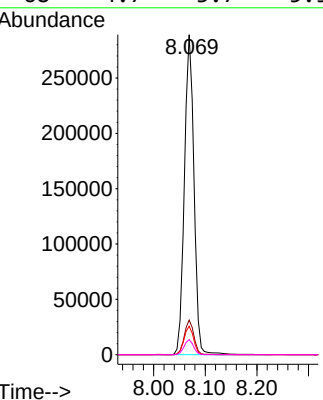
ClientSampleId :

SSTDICC2.5



Tgt Ion:136 Resp: 372084

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.9	7.2	10.8
68	4.7	3.7	5.5



#23

Nitrobenzene-d5

Concen: 0.000 ng

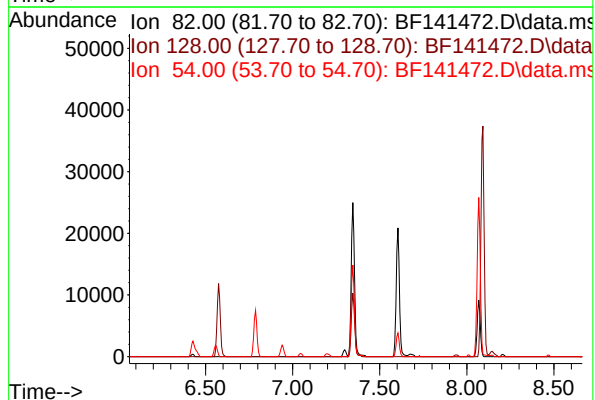
Expected RT: 7.36 min

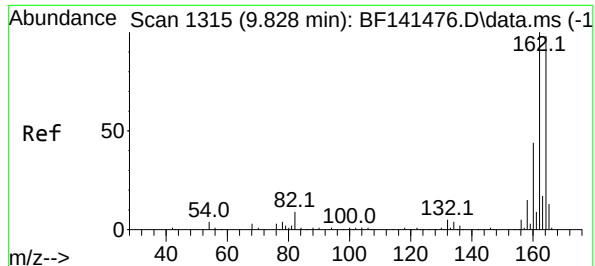
Lab File: BF141472.D

Acq: 06 Feb 2025 11:07

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	43.5
54	60.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141472.D

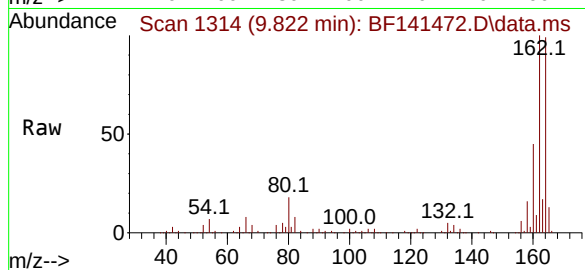
Acq: 06 Feb 2025 11:07

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5



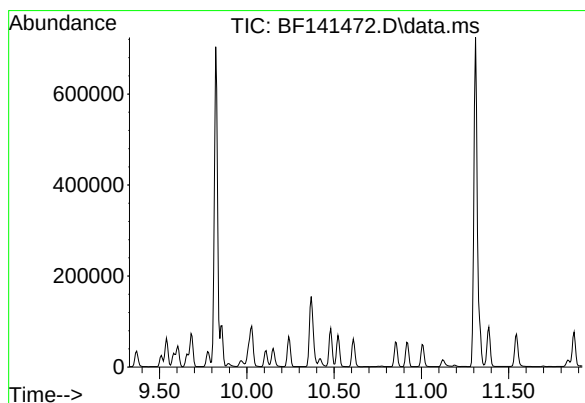
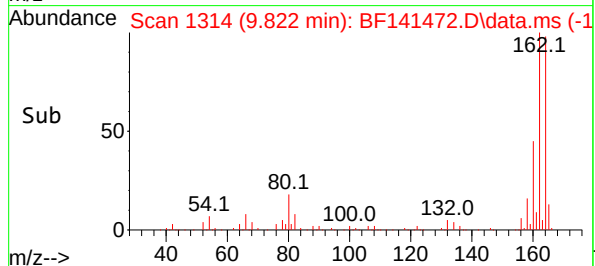
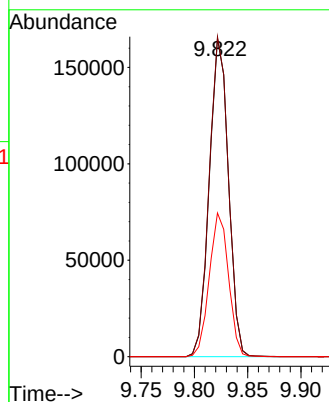
Tgt Ion:164 Resp: 206500

Ion Ratio Lower Upper

164 100

162 100.5 81.3 121.9

160 45.1 35.9 53.9



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.63 min

Lab File: BF141472.D

Acq: 06 Feb 2025 11:07

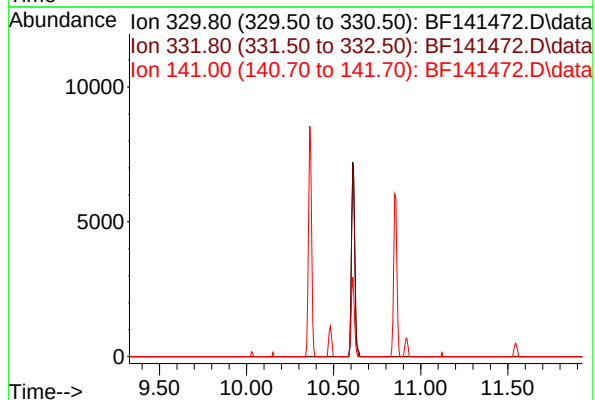
Tgt Ion: 330

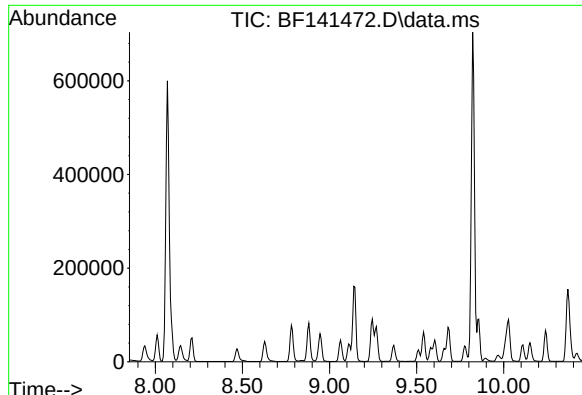
Sig Exp Ratio

330 100

332 98.1

141 38.7





#45

2-Fluorobiphenyl

Concen: 0.000 ng

Expected RT: 9.15 min

Lab File: BF141472.D

Acq: 06 Feb 2025 11:07

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5

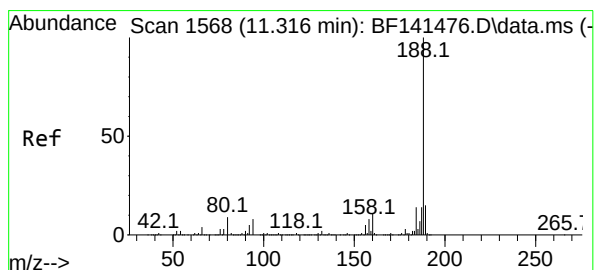
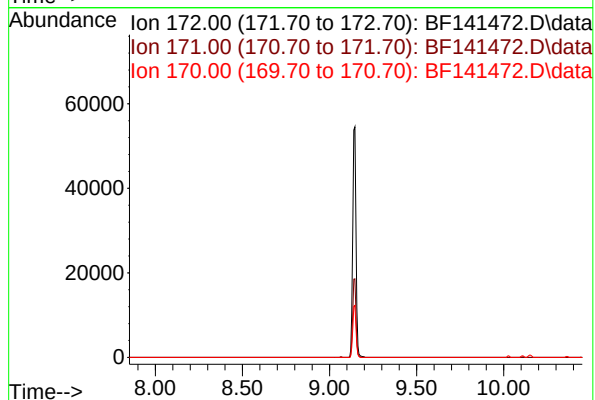
Tgt Ion: 172

Sig Exp Ratio

172 100

171 35.9

170 23.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1567

Delta R.T. -0.006 min

Lab File: BF141472.D

Acq: 06 Feb 2025 11:07

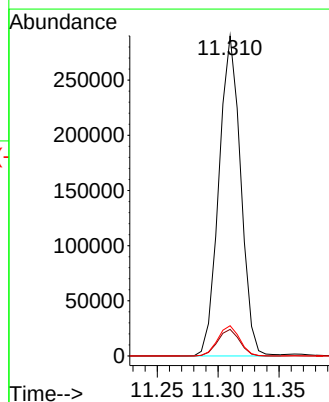
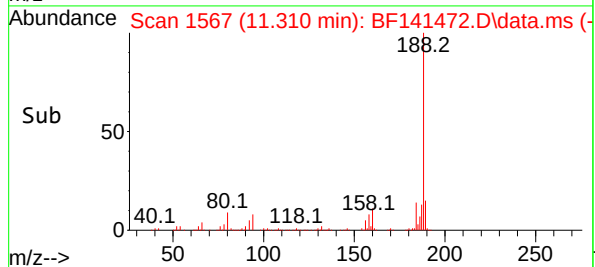
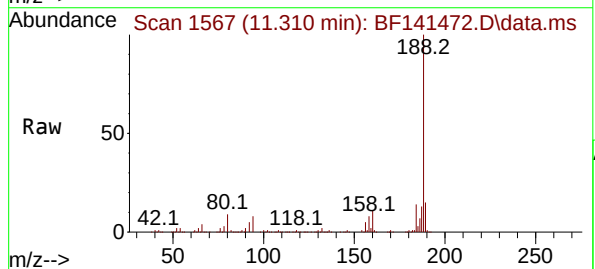
Tgt Ion: 188 Resp: 361595

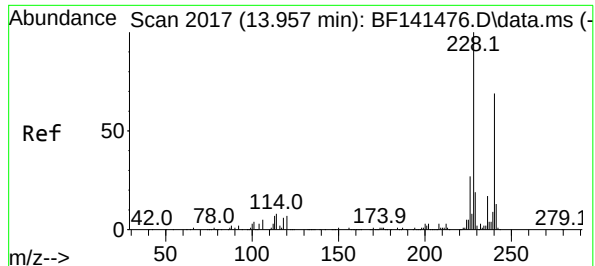
Ion Ratio Lower Upper

188 100

94 8.3 6.6 10.0

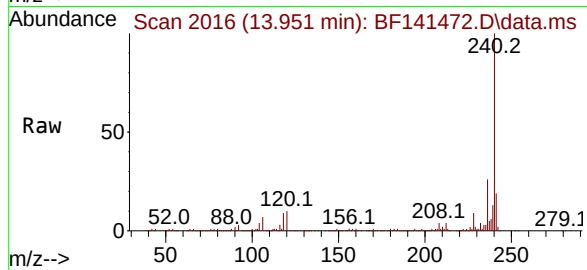
80 9.5 7.3 10.9



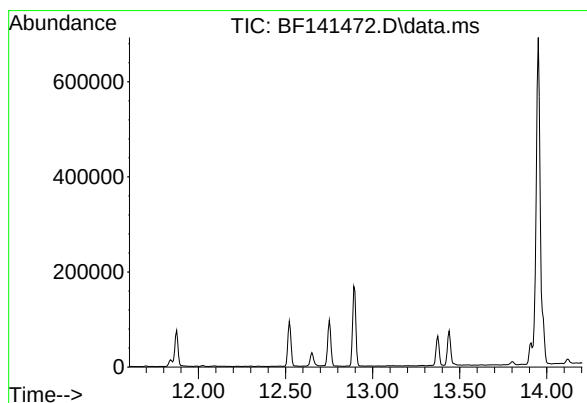
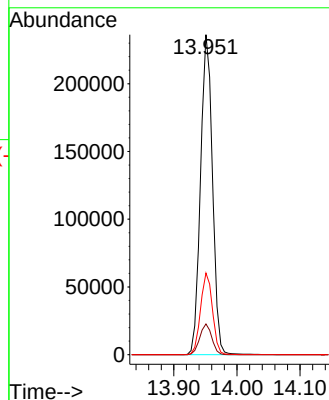
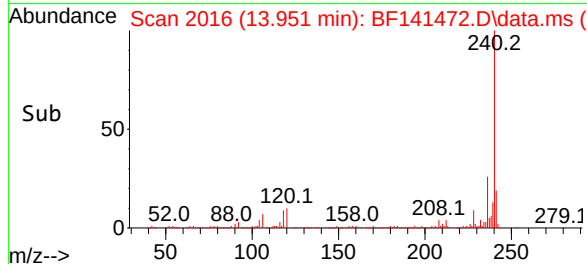


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5



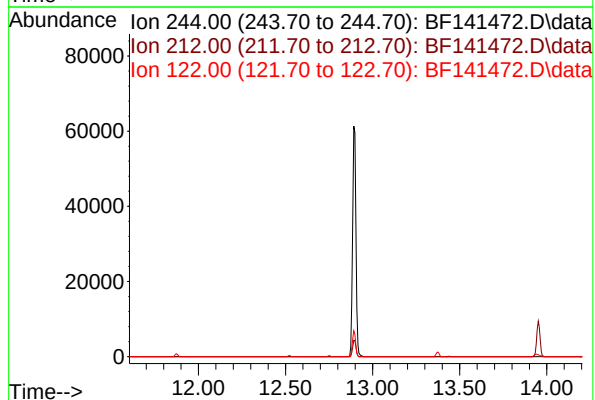
Tgt Ion:240 Resp: 309941
Ion Ratio Lower Upper
240 100
120 9.6 8.0 12.0
236 25.5 19.8 29.8

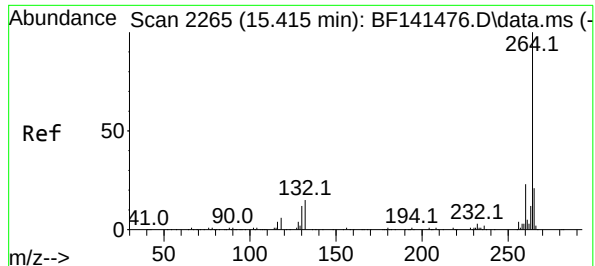


#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.90 min

Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 244
Sig Exp Ratio
244 100
212 7.0
122 10.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.410 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF141472.D

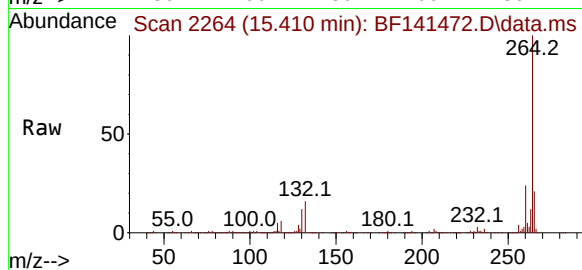
Acq: 06 Feb 2025 11:07

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5



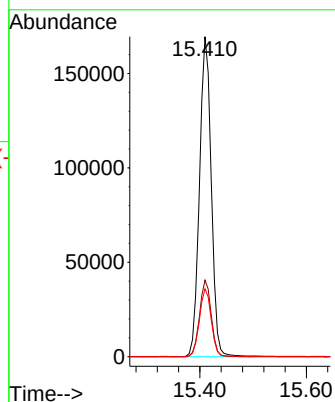
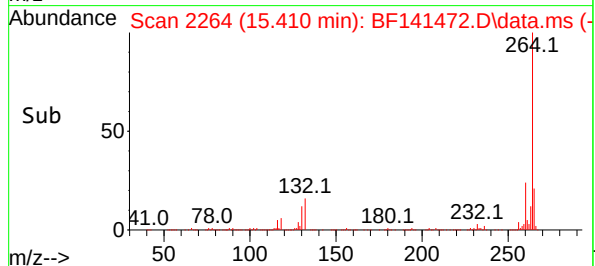
Tgt Ion:264 Resp: 259363

Ion Ratio Lower Upper

264 100

260 23.9 18.6 28.0

265 21.2 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141473.D
 Acq On : 06 Feb 2025 11:34
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Feb 06 16:00:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	89396	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	358966	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	199514	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	351213	20.000	ng	0.00
76) Chrysene-d12	13.951	240	295087	20.000	ng	-0.01
86) Perylene-d12	15.410	264	233325	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	55200	9.680	ng	0.00
7) Phenol-d6	6.422	99	72376	10.042	ng	-0.02
23) Nitrobenzene-d5	7.345	82	68257	9.918	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	20060	10.009	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	136925	10.573	ng	0.00
79) Terphenyl-d14	12.892	244	166601	9.531	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.487	88	11419	4.976	ng	95
3) Pyridine	3.228	79	23540	4.310	ng	97
4) n-Nitrosodimethylamine	3.152	42	16481	4.558	ng	# 96
6) Aniline	6.445	93	32993	4.880	ng	97
8) 2-Chlorophenol	6.575	128	31263	5.074	ng	99
9) Benzaldehyde	6.334	77	19944	5.207	ng	94
10) Phenol	6.440	94	37833	5.044	ng	97
11) bis(2-Chloroethyl)ether	6.522	93	28203	5.006	ng	97
12) 1,3-Dichlorobenzene	6.728	146	32913	5.060	ng	99
13) 1,4-Dichlorobenzene	6.804	146	34555	5.199	ng	97
14) 1,2-Dichlorobenzene	6.957	146	31141	5.049	ng	96
15) Benzyl Alcohol	6.928	79	26612	4.815	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.063	45	49667	5.150	ng	99
17) 2-Methylphenol	7.045	107	24939	5.173	ng	96
18) Hexachloroethane	7.298	117	12043	4.896	ng	98
19) n-Nitroso-di-n-propyla...	7.192	70	21865	5.072	ng	97
20) 3+4-Methylphenols	7.198	107	32221	5.258	ng	94
22) Acetophenone	7.192	105	46441	5.201	ng	95
24) Nitrobenzene	7.363	77	33173	4.943	ng	99
25) Isophorone	7.604	82	54796	4.993	ng	99
26) 2-Nitrophenol	7.687	139	15331	4.592	ng	97
27) 2,4-Dimethylphenol	7.728	122	18659	4.784	ng	99
28) bis(2-Chloroethoxy)met...	7.816	93	34469	4.902	ng	100
29) 2,4-Dichlorophenol	7.934	162	25667	4.870	ng	97
30) 1,2,4-Trichlorobenzene	8.010	180	29321	5.109	ng	96
31) Naphthalene	8.092	128	95730	5.123	ng	99
33) 4-Chloroaniline	8.145	127	31729	4.864	ng	98
34) Hexachlorobutadiene	8.210	225	17323	5.028	ng	98
35) Caprolactam	8.475	113	7437	4.635	ng	94
36) 4-Chloro-3-methylphenol	8.628	107	27818	4.765	ng	98
37) 2-Methylnaphthalene	8.781	142	61742	5.078	ng	97
38) 1-Methylnaphthalene	8.881	142	61026	5.182	ng	98
40) 1,2,4,5-Tetrachloroben...	8.945	216	29023	5.028	ng	98
43) 2,4,6-Trichlorophenol	9.063	196	18144	4.863	ng	99
44) 2,4,5-Trichlorophenol	9.110	196	19204	4.750	ng	98
46) 1,1'-Biphenyl	9.245	154	78931	5.103	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141473.D
 Acq On : 06 Feb 2025 11:34
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Feb 06 16:00:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 2-Chloronaphthalene	9.269	162	58201	5.088	ng	100
48) 2-Nitroaniline	9.369	65	18494	4.818	ng	98
49) Acenaphthylene	9.681	152	86721	5.097	ng	100
50) Dimethylphthalate	9.539	163	68921	5.088	ng	99
51) 2,6-Dinitrotoluene	9.604	165	14394	4.861	ng	94
52) Acenaphthene	9.857	154	59139	5.171	ng	99
53) 3-Nitroaniline	9.775	138	15563	4.884	ng	98
55) Dibenzofuran	10.028	168	88178	5.252	ng	99
56) 4-Nitrophenol	9.963	139	9482	4.008	ng	94
57) 2,4-Dinitrotoluene	10.010	165	19087	4.842	ng	# 96
58) Fluorene	10.369	166	67764	5.220	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	16570	4.760	ng	99
60) Diethylphthalate	10.239	149	69845	5.241	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	32951	5.277	ng	99
62) 4-Nitroaniline	10.381	138	15711	4.855	ng	95
63) Azobenzene	10.522	77	67256	5.077	ng	99
66) n-Nitrosodiphenylamine	10.481	169	57063	5.076	ng	98
67) 4-Bromophenyl-phenylether	10.857	248	20012	5.098	ng	99
68) Hexachlorobenzene	10.922	284	20138	4.982	ng	98
69) Atrazine	11.010	200	17519	5.194	ng	93
70) Pentachlorophenol	11.122	266	10151	3.928	ng	98
71) Phenanthrene	11.333	178	100202	5.183	ng	100
72) Anthracene	11.386	178	102596	5.279	ng	98
73) Carbazole	11.545	167	89721	5.131	ng	100
74) Di-n-butylphthalate	11.875	149	102296	5.066	ng	100
75) Fluoranthene	12.522	202	109883	5.361	ng	98
77) Benzidine	12.651	184	34946	5.370	ng	99
78) Pyrene	12.751	202	112700	4.486	ng	100
80) Butylbenzylphthalate	13.374	149	38714	4.449	ng	98
81) Benzo(a)anthracene	13.939	228	101861	5.193	ng	99
82) 3,3'-Dichlorobenzidine	13.910	252	29306	5.216	ng	98
83) Chrysene	13.980	228	87555	4.834	ng	100
84) Bis(2-ethylhexyl)phtha...	13.933	149	43735	4.457	ng	98
85) Di-n-octyl phthalate	14.557	149	59200	4.229	ng	100
87) Indeno(1,2,3-cd)pyrene	16.839	276	57572	3.993	ng	99
88) Benzo(b)fluoranthene	14.986	252	75033	4.789	ng	99
89) Benzo(k)fluoranthene	15.016	252	64919	4.853	ng	98
90) Benzo(a)pyrene	15.345	252	63295	4.993	ng	98
91) Dibenzo(a,h)anthracene	16.857	278	46421	3.974	ng	98
92) Benzo(g,h,i)perylene	17.274	276	46952	3.841	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Abundance

TIC: BF141473.D\data.ms

Time-->

1,4-Dioxane

n-Propylamine

2-Fluorophenol, S

Benzaldehyde

1,3-Dichlorobenzene

1,4-Dichlorobenzene-d4, I

2,2-Bis(4-chlorophenyl)propane

Hexachlorocyclopentadiene

Nitrobenzene-d5, S

2-Nitrophenol

2,4-Dinitrophenol

4-Chlorophenol

Caprolactam

4-Chloro-3-methylphenol, C

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2-Nitroaniline

2,6-Dinitrophenylphthalate

3-Nitroaniline

4-Nitrophenol

2,3,4,6-Tetrachlorophthalate

Acenaphthene-d10, I

Acenaphthene

Phenanthrene-d10, I

Phenanthrene

Carbazole

Di-n-butylphthalate

Fluoranthene, C

Pyrene

Terphenyl-d14, S

Butylbenzylphthalate

3,3-Dichlorobenzidine

Chrysene

Di-n-octyl phthalate, c

Benzo(b)fluoranthene

Benzo(a)pyrene, C

Perylene-d12, I

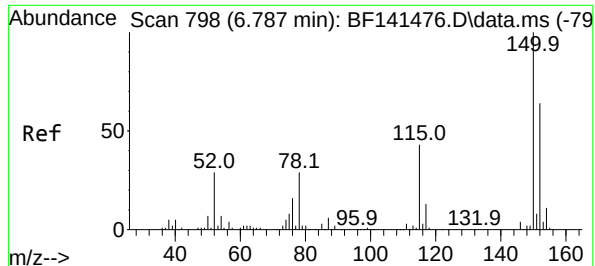
Benzo(a)anthracene

Benzo(g,h,i)perylene

Chrysene-d12, I

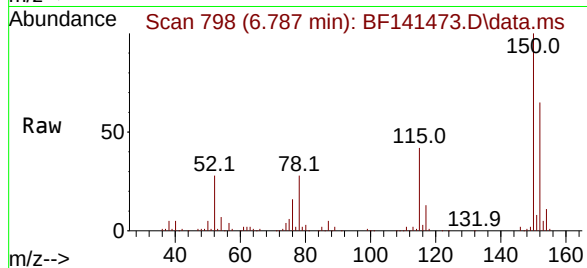
Benzo(e)anthracene

Bis(2-ethylhexyl)phthalate

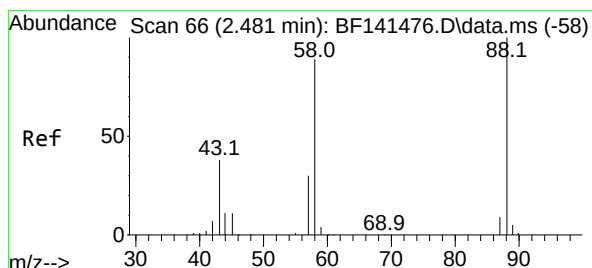
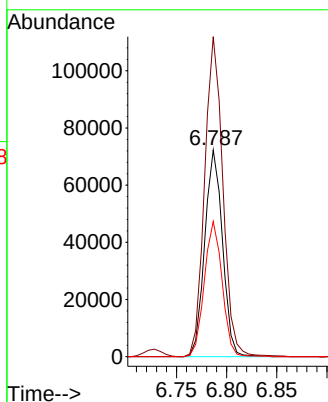
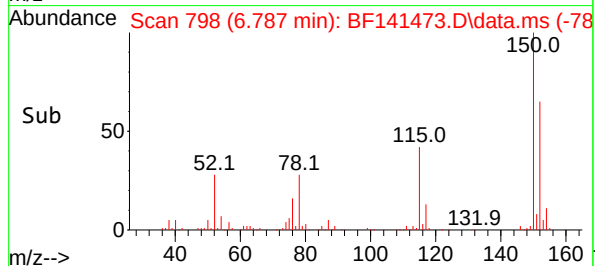


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

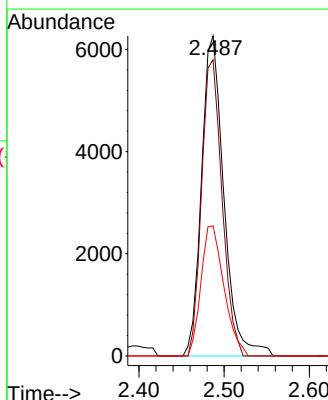
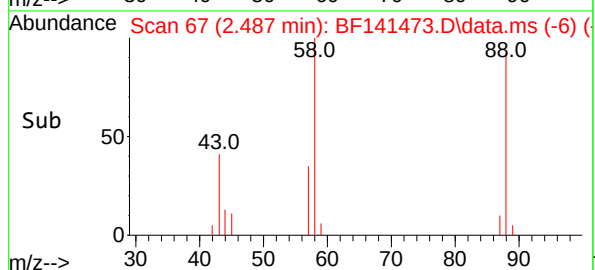
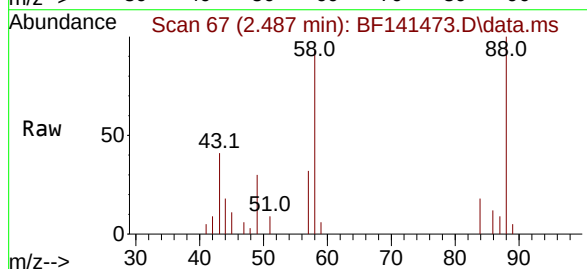


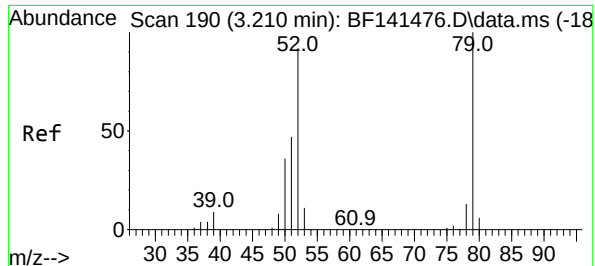
Tgt Ion:152 Resp: 89396
Ion Ratio Lower Upper
152 100
150 154.8 125.0 187.4
115 65.4 53.6 80.4



#2
1,4-Dioxane
Concen: 4.976 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 88 Resp: 11419
Ion Ratio Lower Upper
88 100
58 84.3 71.1 106.7
43 41.7 30.6 46.0





#3

Pyridine

Concen: 4.310 ng

RT: 3.228 min Scan# 190

Delta R.T. 0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

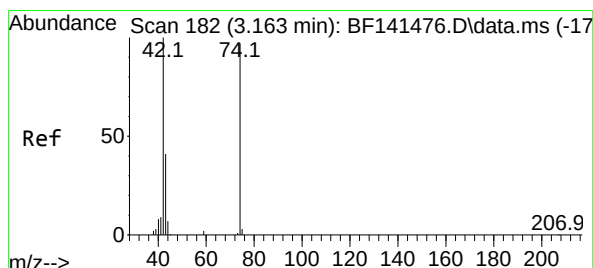
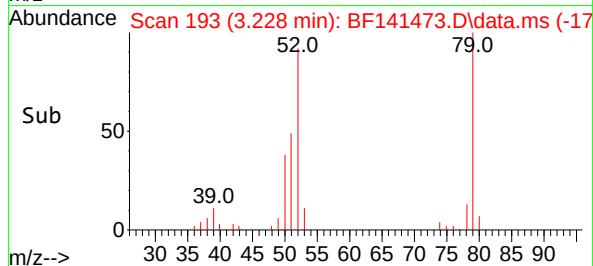
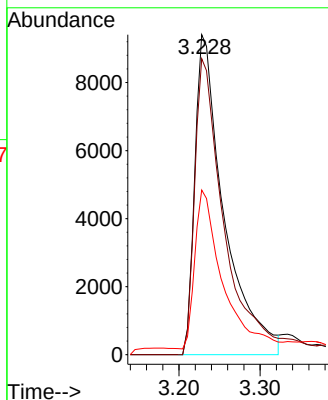
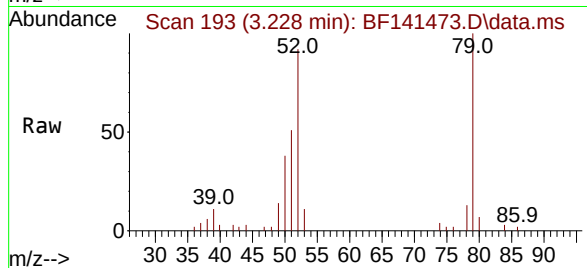
Tgt Ion: 79 Resp: 23540

Ion Ratio Lower Upper

79 100

52 92.5 73.7 110.5

51 51.5 37.5 56.3



#4

n-Nitrosodimethylamine

Concen: 4.558 ng

RT: 3.152 min Scan# 180

Delta R.T. -0.035 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

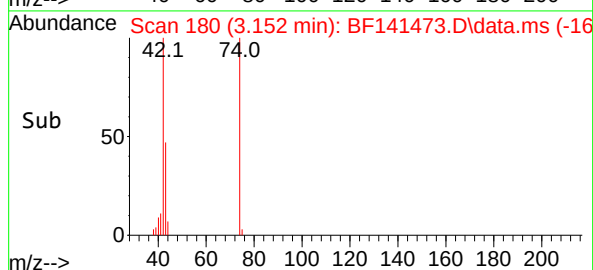
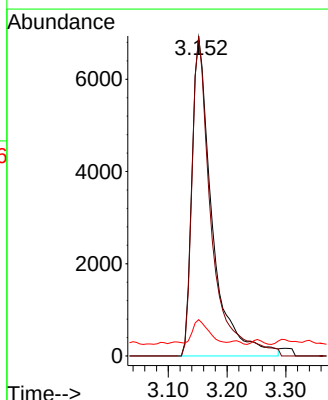
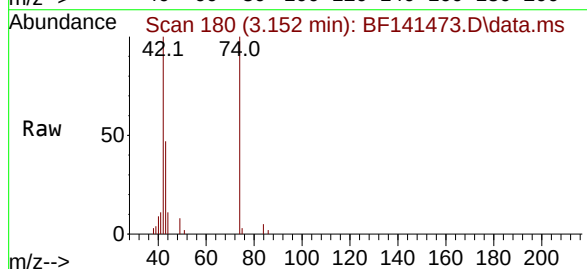
Tgt Ion: 42 Resp: 16481

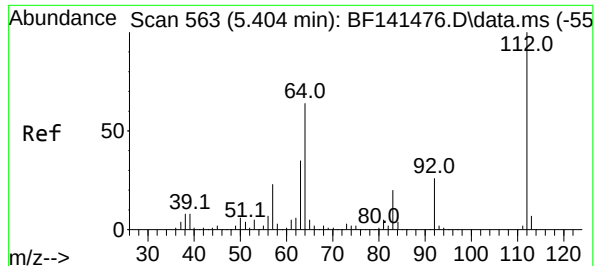
Ion Ratio Lower Upper

42 100

74 100.5 78.0 117.0

44 11.4 5.4 8.2#

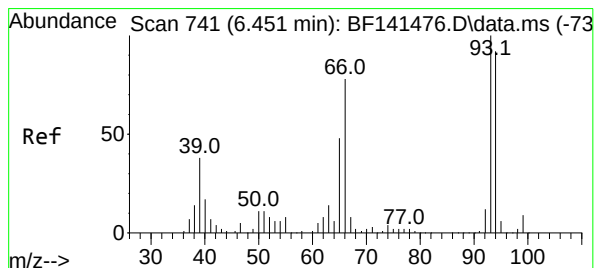
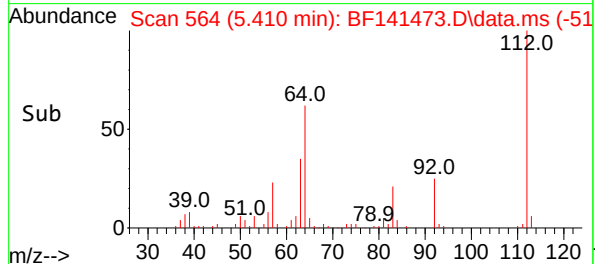
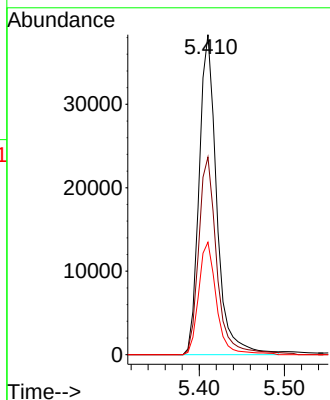
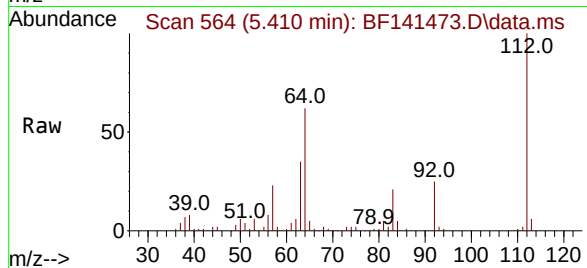




#5
2-Fluorophenol
Concen: 9.680 ng
RT: 5.410 min Scan# 51
Delta R.T. 0.000 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

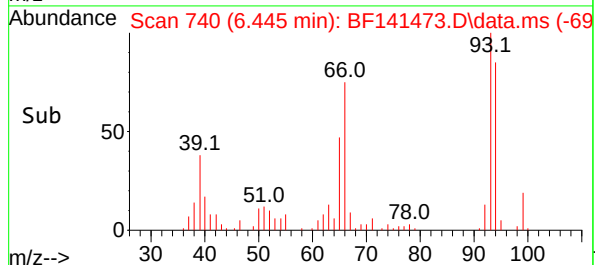
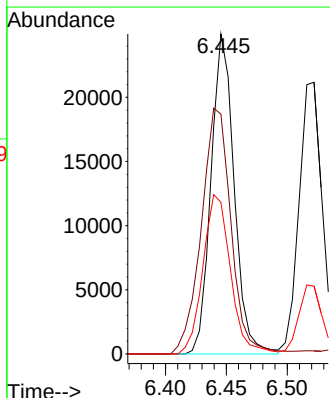
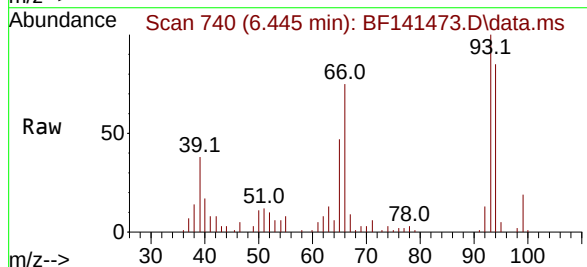
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

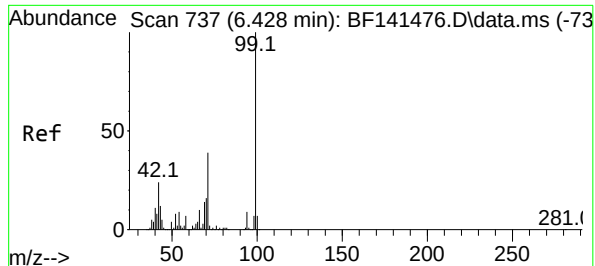
Tgt Ion:112 Resp: 55200
Ion Ratio Lower Upper
112 100
64 61.8 51.1 76.7
63 35.1 28.4 42.6



#6
Aniline
Concen: 4.880 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 93 Resp: 32993
Ion Ratio Lower Upper
93 100
66 75.0 62.6 94.0
65 47.4 38.3 57.5





#7

Phenol-d6

Concen: 10.042 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

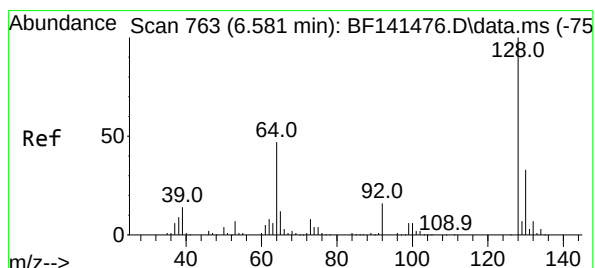
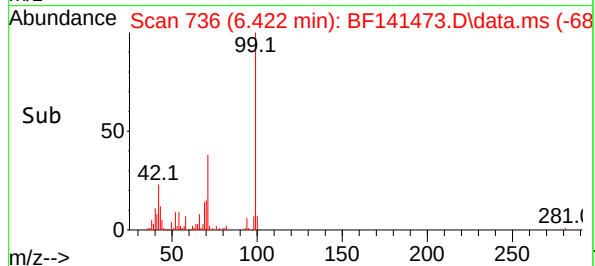
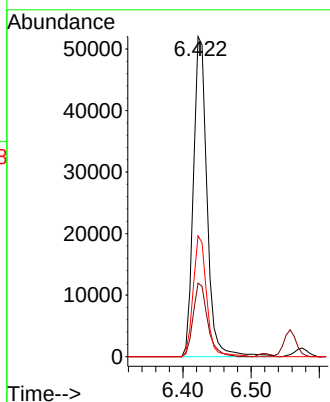
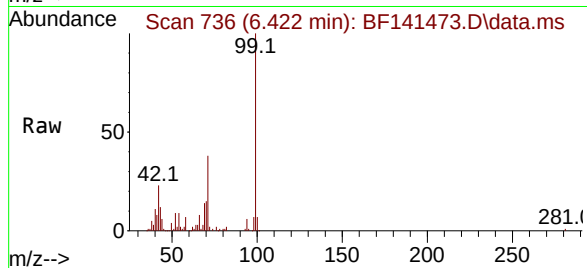
Tgt Ion: 99 Resp: 72376

Ion Ratio Lower Upper

99 100

42 23.0 19.1 28.7

71 37.7 31.1 46.7



#8

2-Chlorophenol

Concen: 5.074 ng

RT: 6.575 min Scan# 762

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

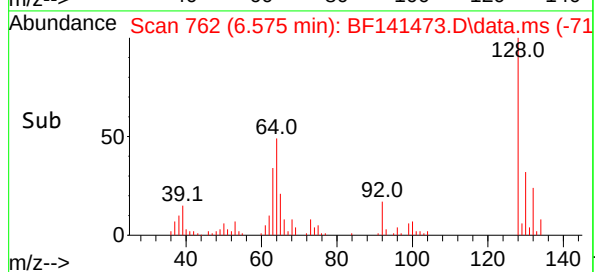
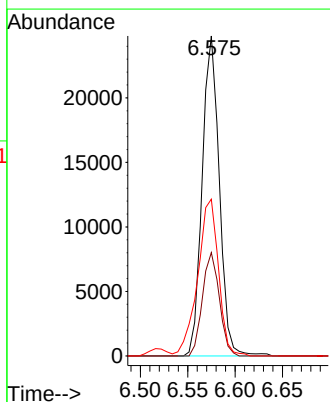
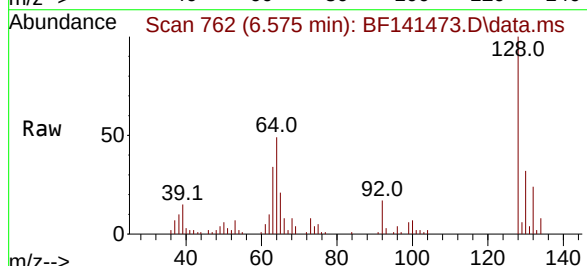
Tgt Ion: 128 Resp: 31263

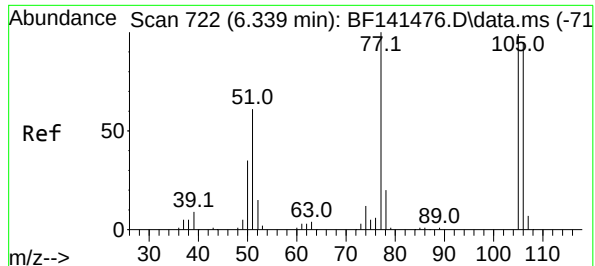
Ion Ratio Lower Upper

128 100

130 32.3 12.7 52.7

64 49.0 28.3 68.3





#9

Benzaldehyde

Concen: 5.207 ng

RT: 6.334 min Scan# 71

Delta R.T. -0.005 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

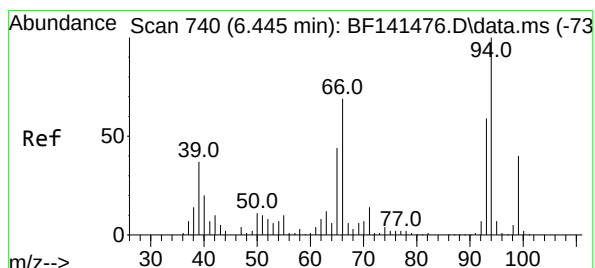
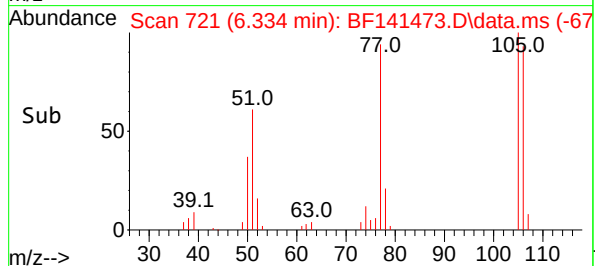
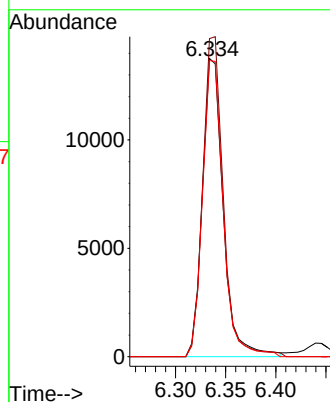
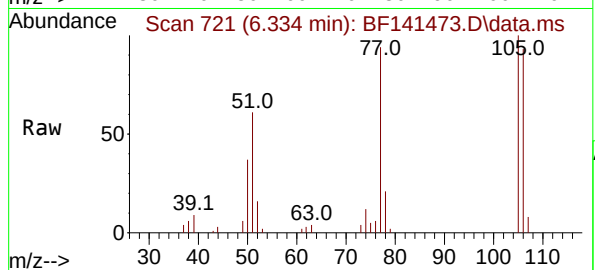
Tgt Ion: 77 Resp: 19944

Ion Ratio Lower Upper

77 100

105 106.6 79.4 119.4

106 99.2 75.1 115.1



#10

Phenol

Concen: 5.044 ng

RT: 6.440 min Scan# 739

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

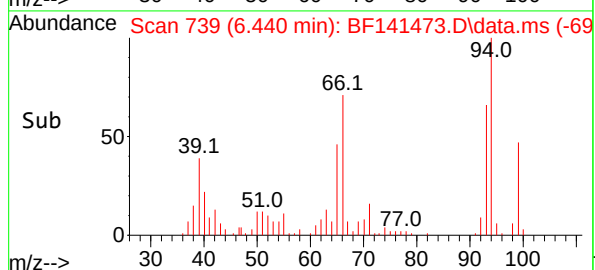
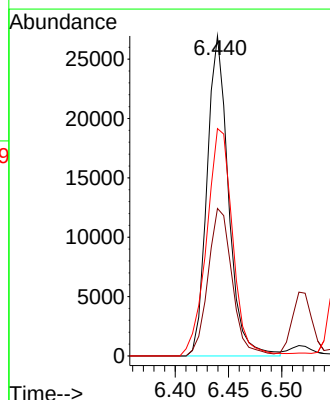
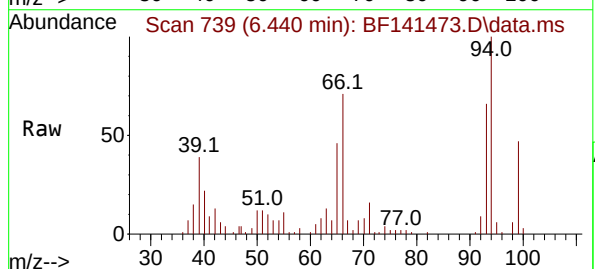
Tgt Ion: 94 Resp: 37833

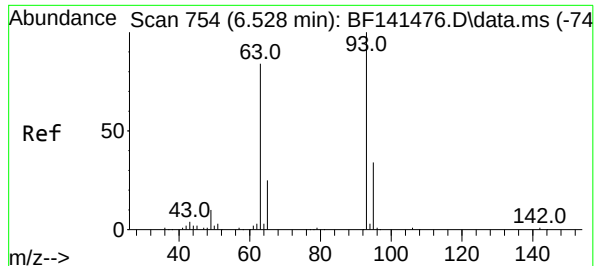
Ion Ratio Lower Upper

94 100

65 46.1 23.7 63.7

66 71.1 49.3 89.3

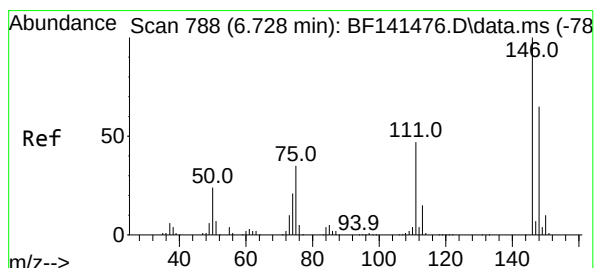
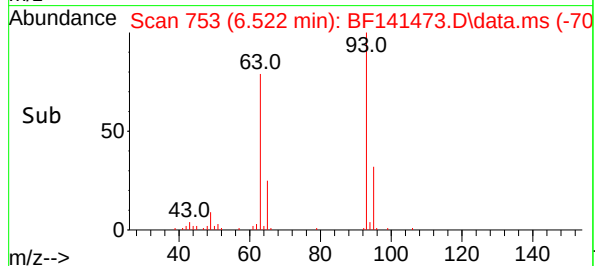
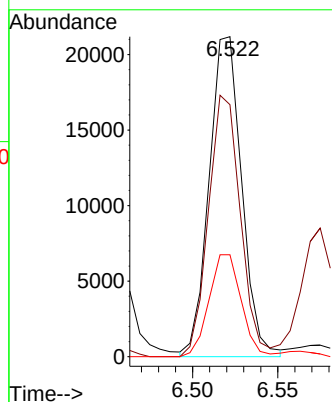
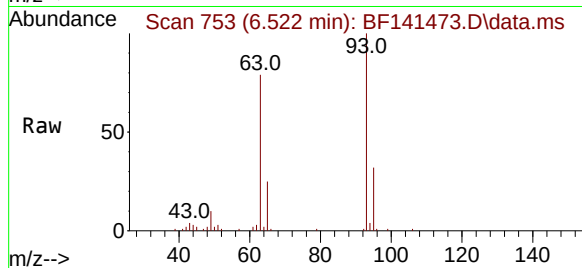




#11
bis(2-Chloroethyl)ether
Concen: 5.006 ng
RT: 6.522 min Scan# 754
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

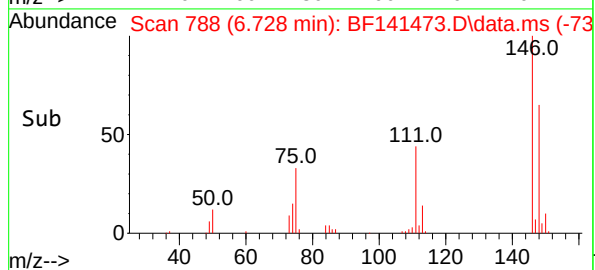
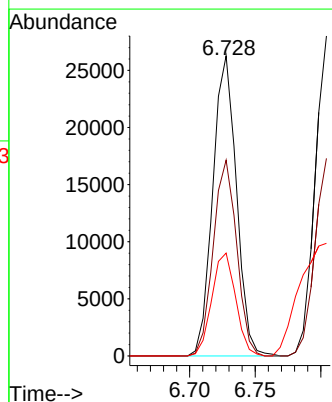
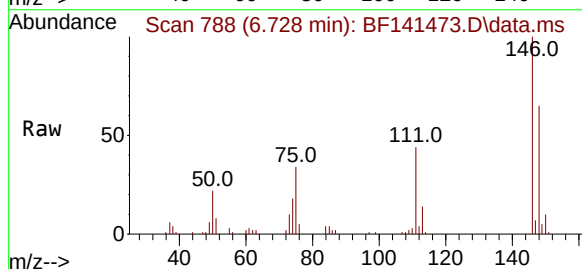
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

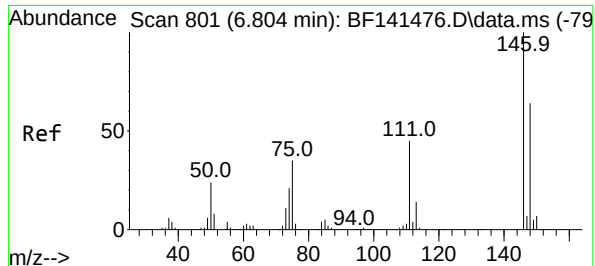
Tgt Ion: 93 Resp: 28203
Ion Ratio Lower Upper
93 100
63 78.7 62.0 102.0
95 31.9 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 5.060 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 146 Resp: 32913
Ion Ratio Lower Upper
146 100
148 65.3 51.9 77.9
75 34.3 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 5.199 ng

RT: 6.804 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

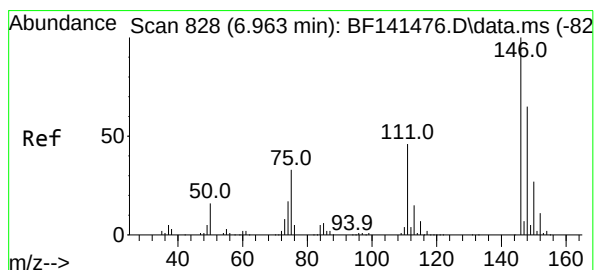
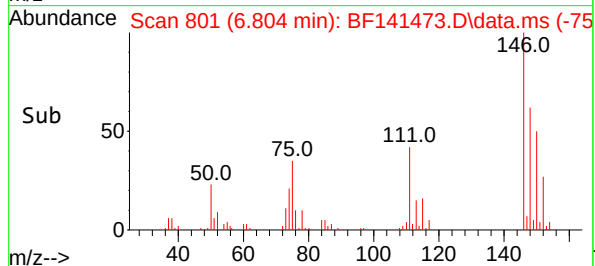
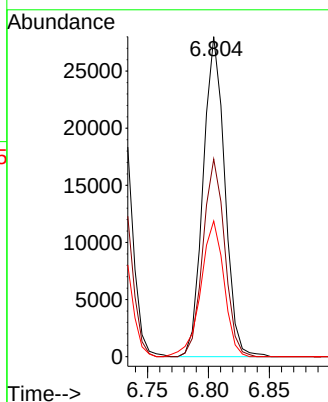
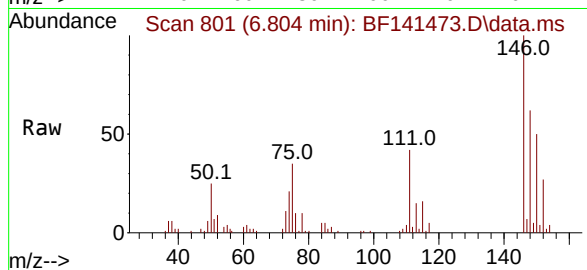
Tgt Ion:146 Resp: 34555

Ion Ratio Lower Upper

146 100

148 61.7 50.9 76.3

111 42.4 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 5.049 ng

RT: 6.957 min Scan# 827

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

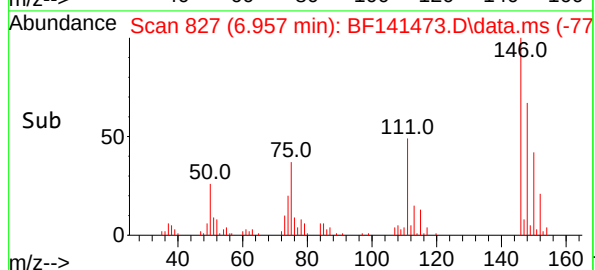
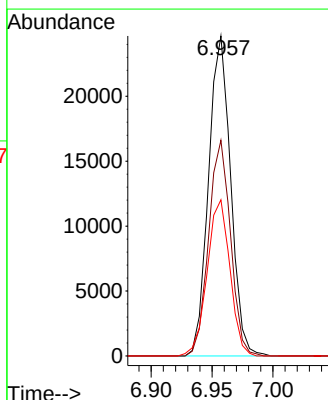
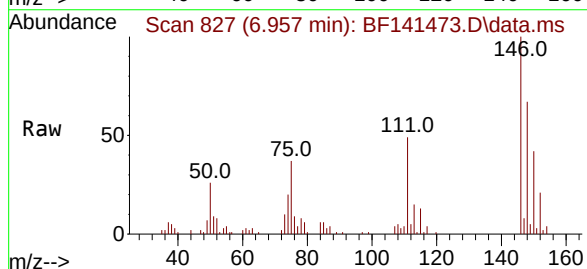
Tgt Ion:146 Resp: 31141

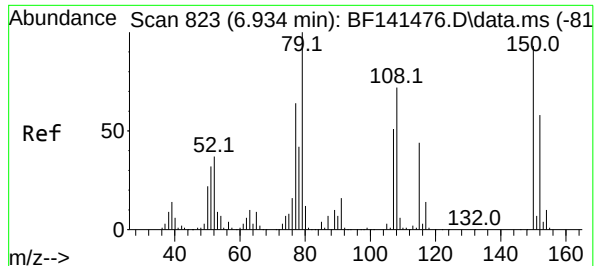
Ion Ratio Lower Upper

146 100

148 67.4 51.8 77.6

111 48.8 37.0 55.4





#15

Benzyl Alcohol

Concen: 4.815 ng

RT: 6.928 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

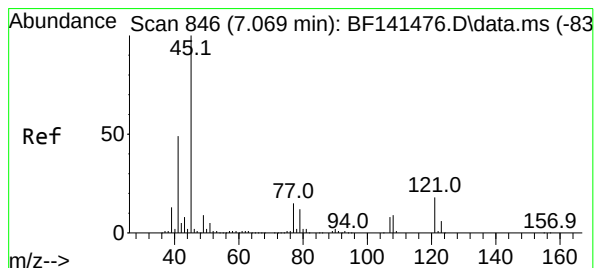
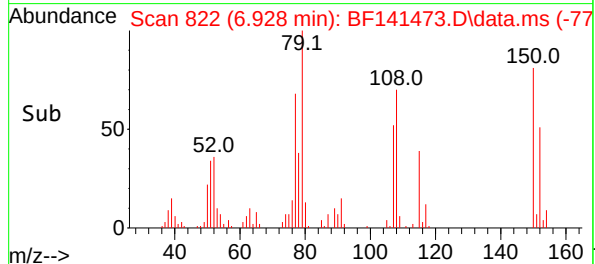
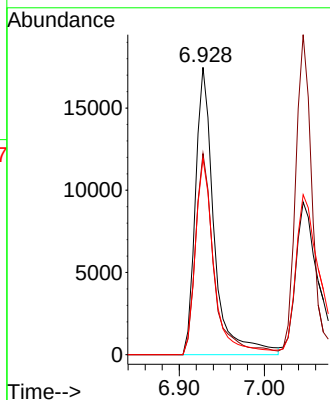
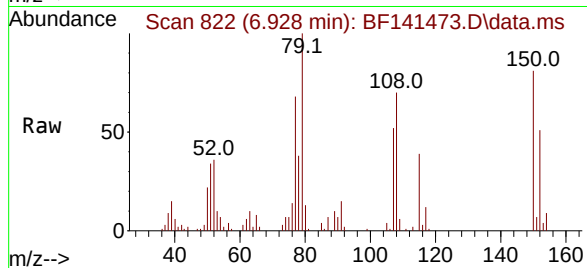
Tgt Ion: 79 Resp: 26612

Ion Ratio Lower Upper

79 100

108 70.0 57.4 86.2

77 68.2 50.9 76.3



#16

2,2'-oxybis(1-Chloropropane)

Concen: 5.150 ng

RT: 7.063 min Scan# 845

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

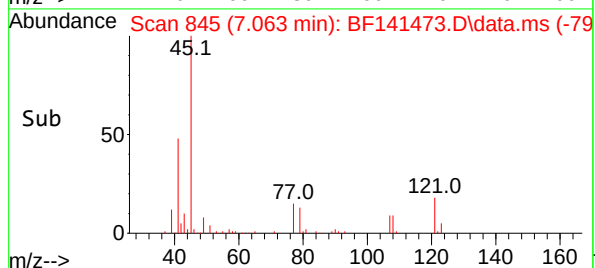
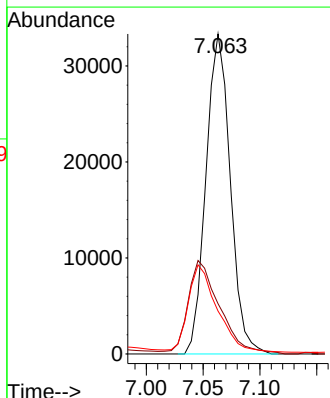
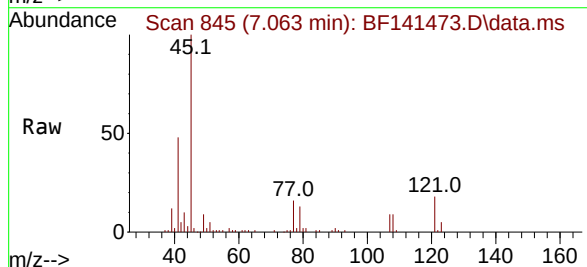
Tgt Ion: 45 Resp: 49667

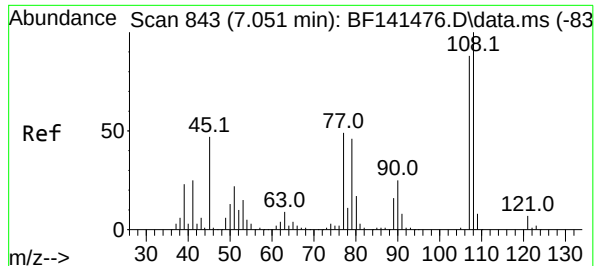
Ion Ratio Lower Upper

45 100

77 15.7 0.0 35.8

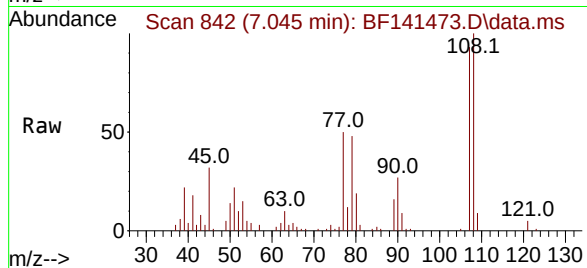
79 13.4 0.0 32.7



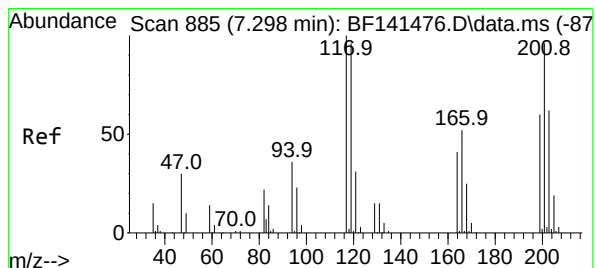
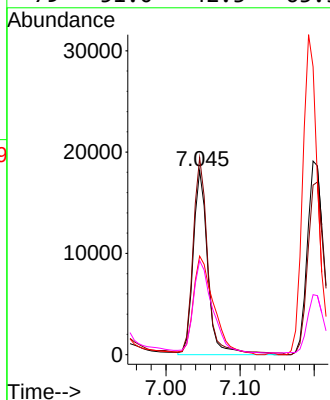
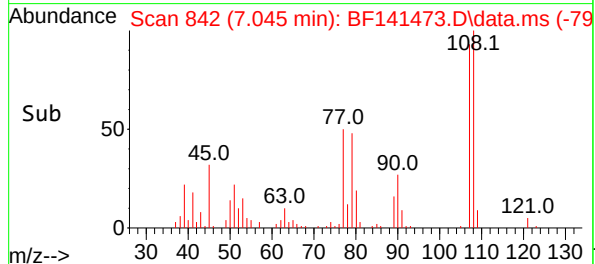


#17
2-Methylphenol
Concen: 5.173 ng
RT: 7.045 min Scan# 842
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

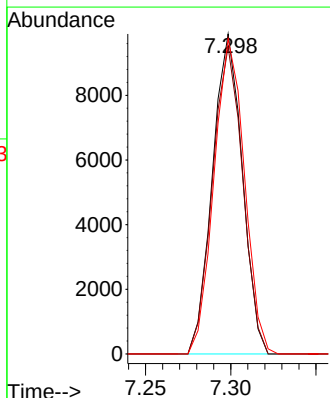
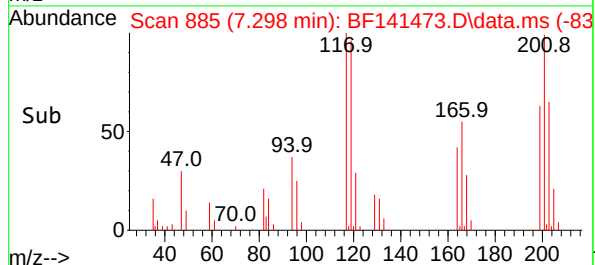
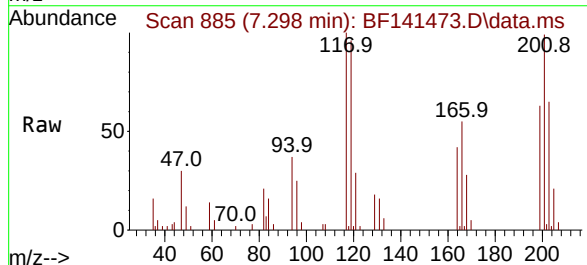


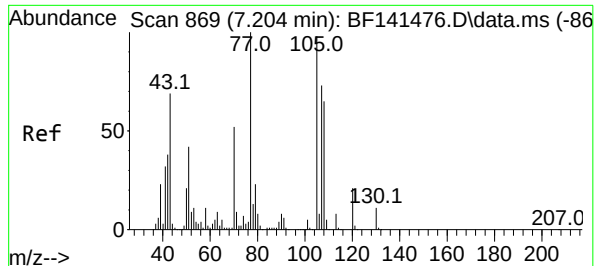
Tgt Ion:107 Resp: 24939
Ion Ratio Lower Upper
107 100
108 107.0 90.6 136.0
77 53.5 44.4 66.6
79 51.0 42.3 63.5



#18
Hexachloroethane
Concen: 4.896 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:117 Resp: 12043
Ion Ratio Lower Upper
117 100
119 96.0 76.5 114.7
201 98.5 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 5.072 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.023 min

Lab File: BF141473.D

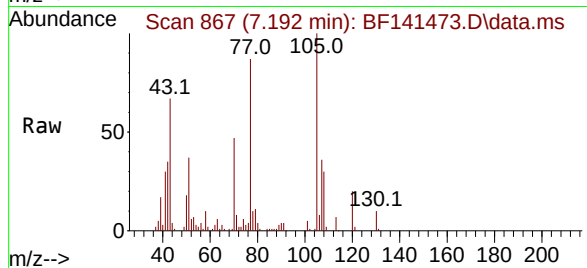
Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

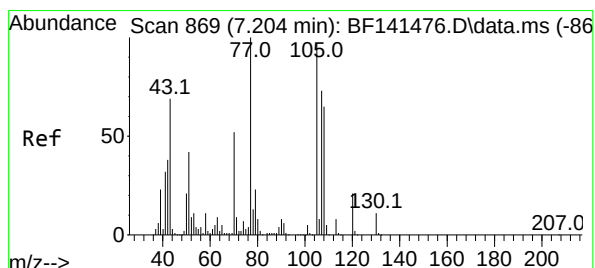
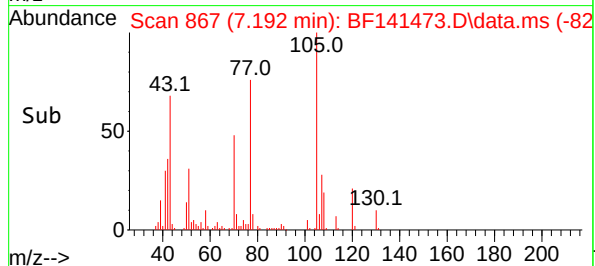
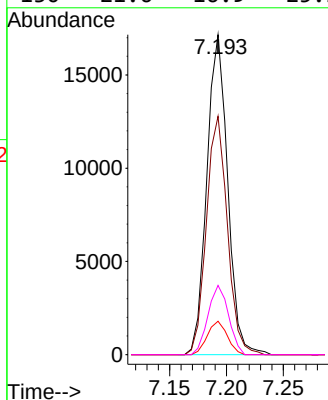
ClientSampleId :

SSTDICC005



Tgt Ion: 70 Resp: 21865

Ion	Ratio	Lower	Upper
70	100		
42	74.5	57.4	86.2
101	10.5	8.0	12.0
130	21.6	16.9	25.3



#20

3+4-Methylphenols

Concen: 5.258 ng

RT: 7.198 min Scan# 868

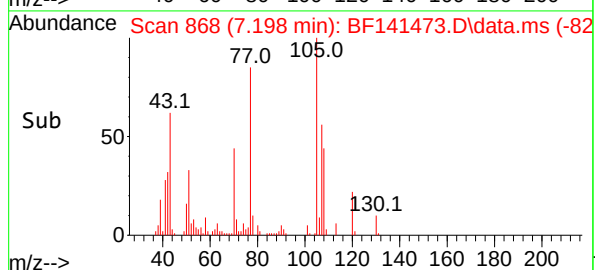
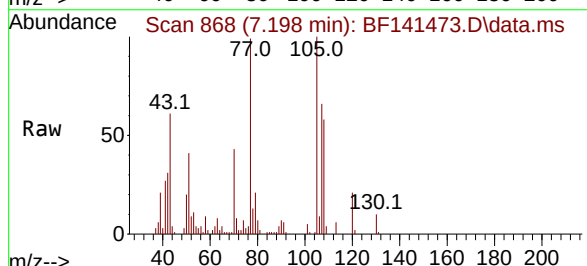
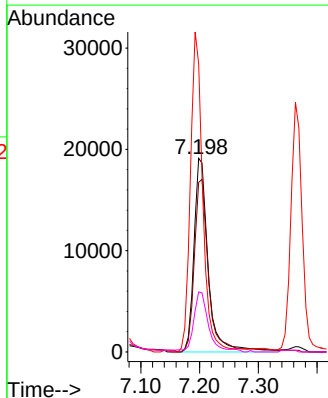
Delta R.T. -0.017 min

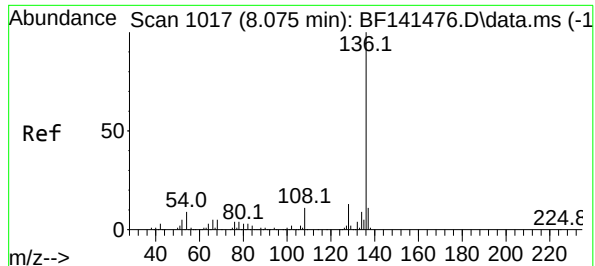
Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Tgt Ion: 107 Resp: 32221

Ion	Ratio	Lower	Upper
107	100		
108	87.6	68.5	108.5
77	148.7	116.5	156.5
79	31.0	12.0	52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Tgt Ion:136 Resp: 358966

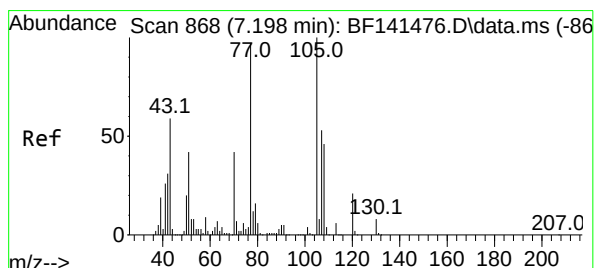
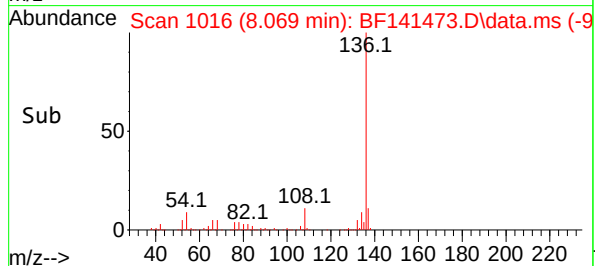
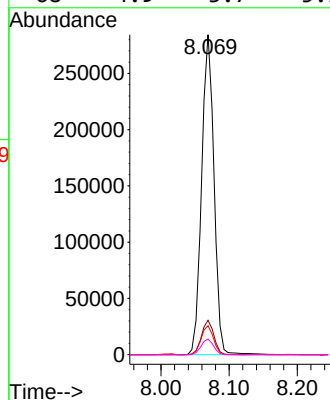
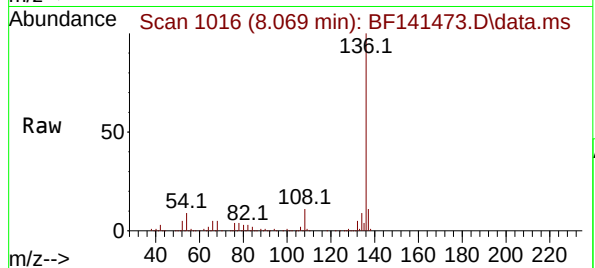
Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 9.0 7.2 10.8

68 4.9 3.7 5.5



#22

Acetophenone

Concen: 5.201 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Tgt Ion:105 Resp: 46441

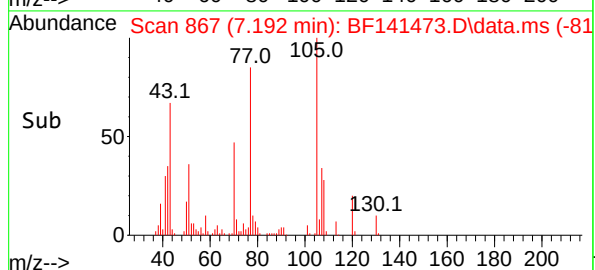
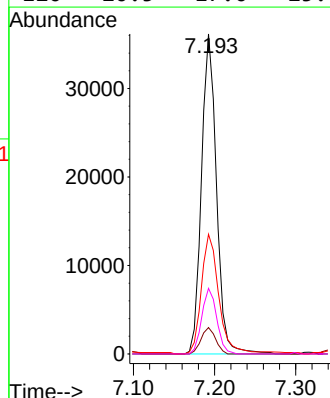
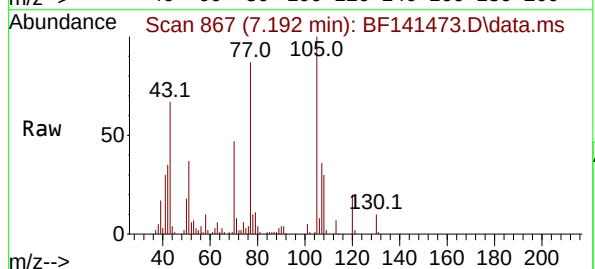
Ion Ratio Lower Upper

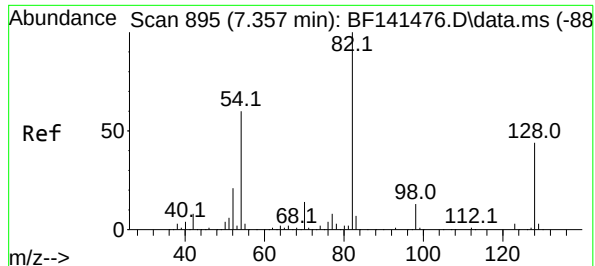
105 100

71 8.3 5.7 8.5

51 37.4 33.7 50.5

120 20.5 17.0 25.6





#23

Nitrobenzene-d5

Concen: 9.918 ng

RT: 7.345 min Scan# 891

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

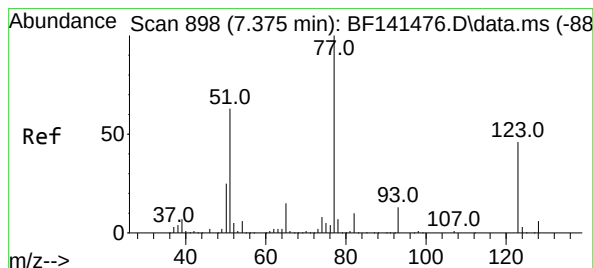
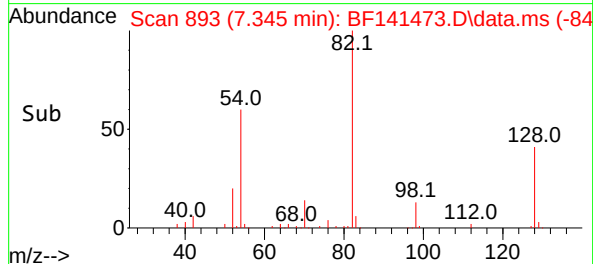
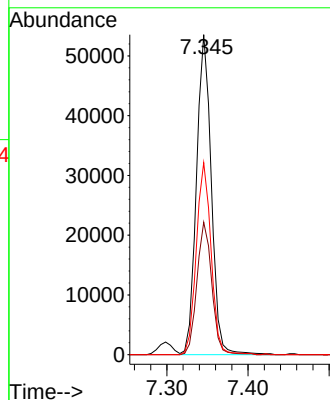
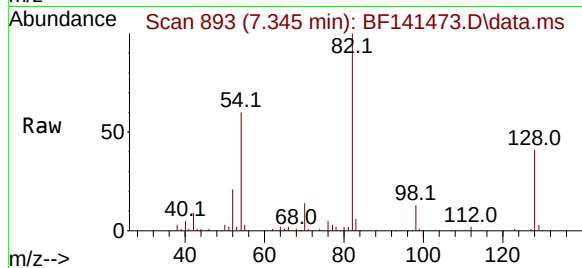
Tgt Ion: 82 Resp: 68257

Ion Ratio Lower Upper

82 100

128 41.4 34.8 52.2

54 60.0 48.2 72.4



#24

Nitrobenzene

Concen: 4.943 ng

RT: 7.363 min Scan# 896

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

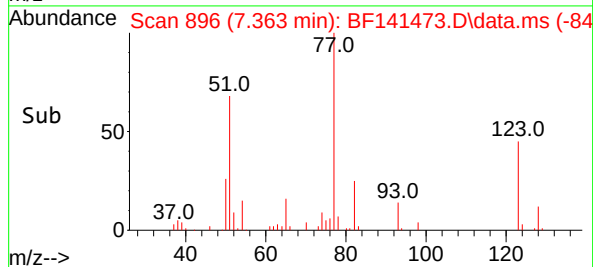
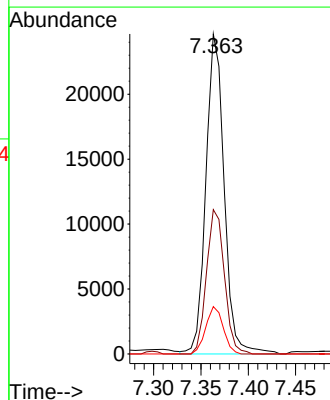
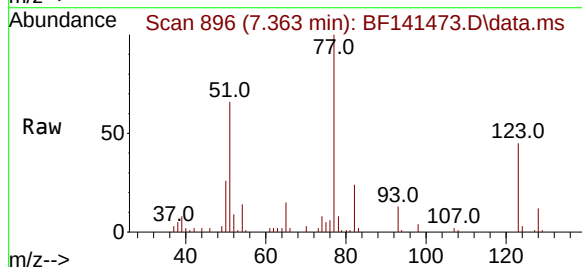
Tgt Ion: 77 Resp: 33173

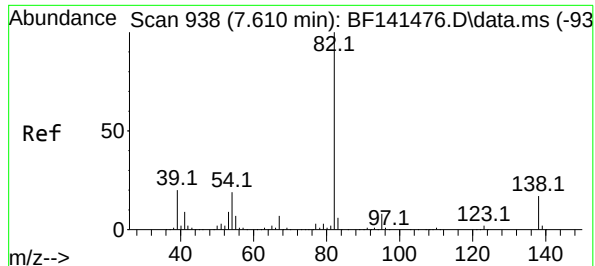
Ion Ratio Lower Upper

77 100

123 45.1 36.9 55.3

65 14.8 11.9 17.9

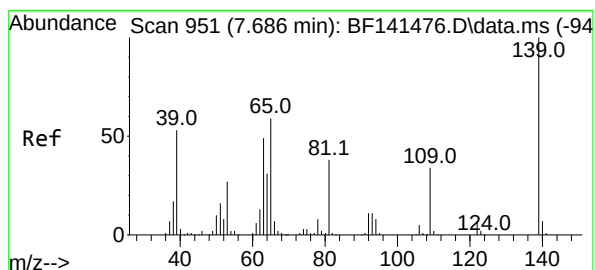
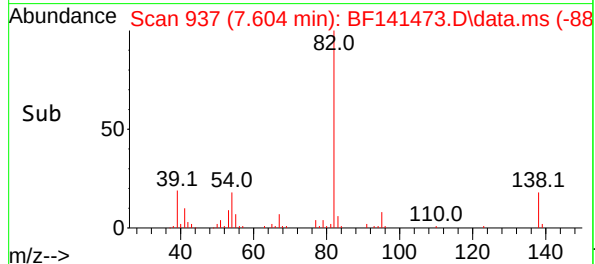
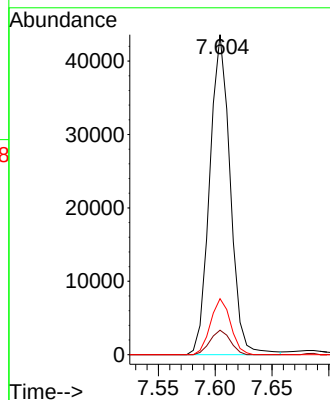
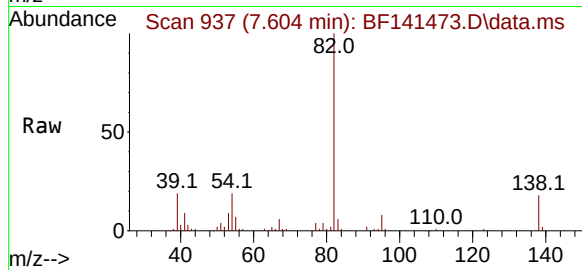




#25
Isophorone
Concen: 4.993 ng
RT: 7.604 min Scan# 911
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

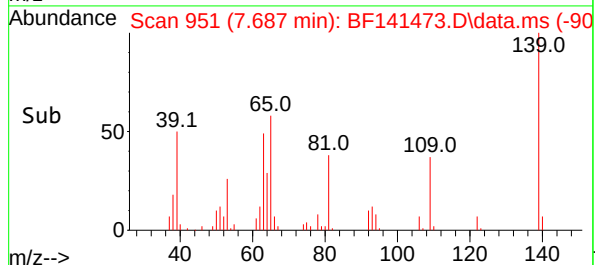
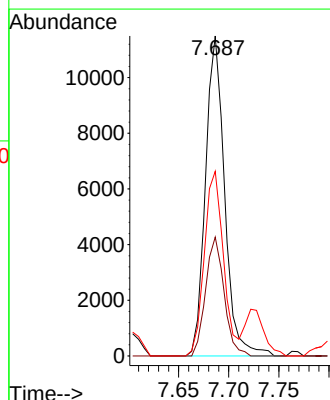
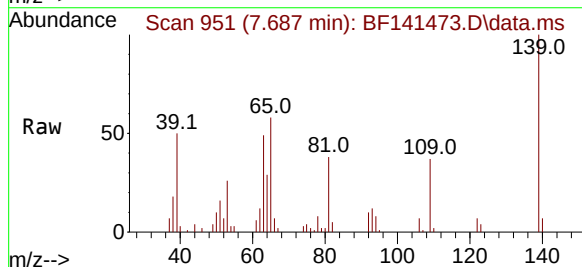
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

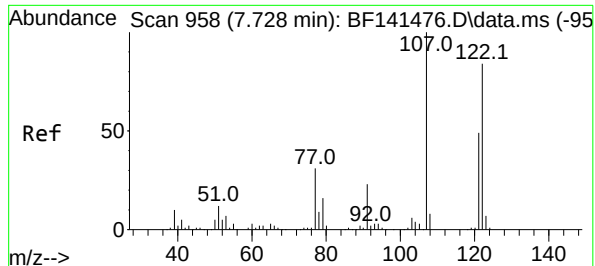
Tgt Ion:	82	Resp:	54796
Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	17.5	13.9	20.9



#26
2-Nitrophenol
Concen: 4.592 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:	139	Resp:	15331
Ion	Ratio	Lower	Upper
139	100		
109	37.1	27.0	40.6
65	57.7	47.1	70.7





#27

2,4-Dimethylphenol

Concen: 4.784 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

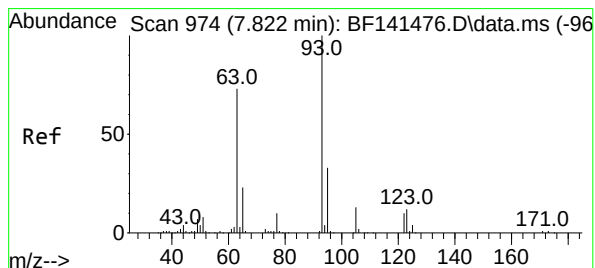
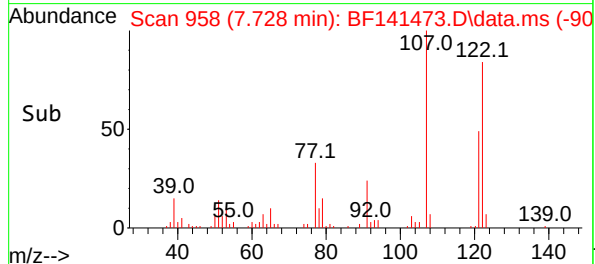
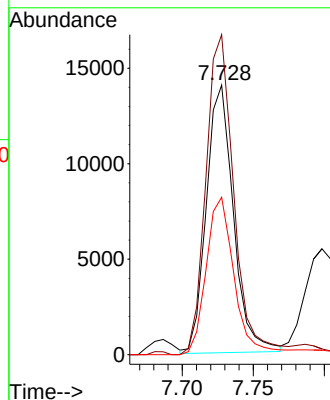
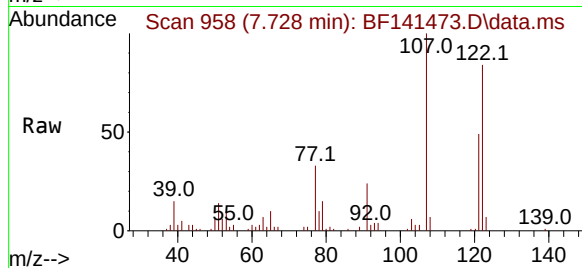
Tgt Ion:122 Resp: 18659

Ion Ratio Lower Upper

122 100

107 118.7 94.3 141.5

121 58.4 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 4.902 ng

RT: 7.816 min Scan# 973

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

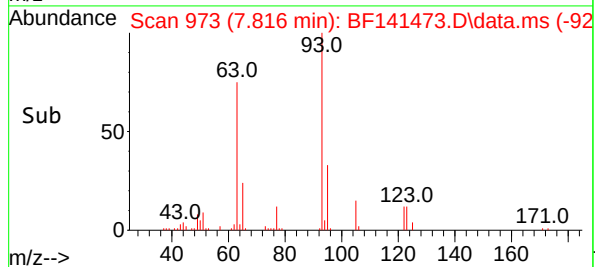
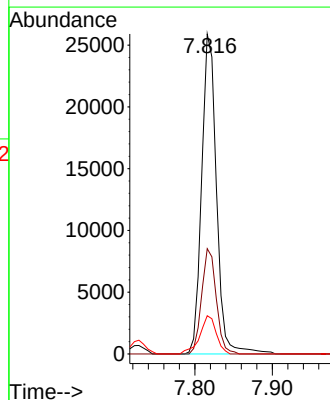
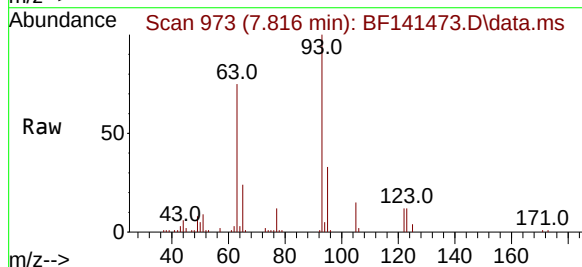
Tgt Ion: 93 Resp: 34469

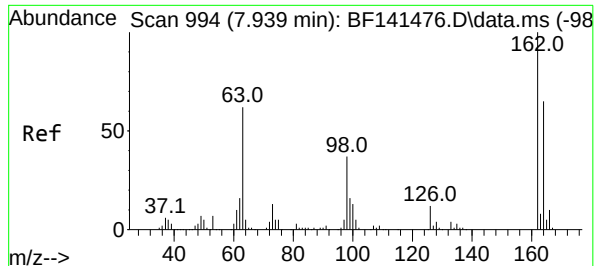
Ion Ratio Lower Upper

93 100

95 32.9 26.1 39.1

123 12.0 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 4.870 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

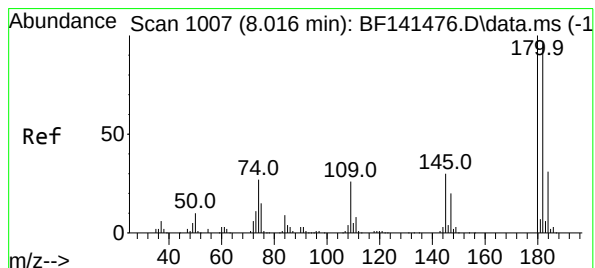
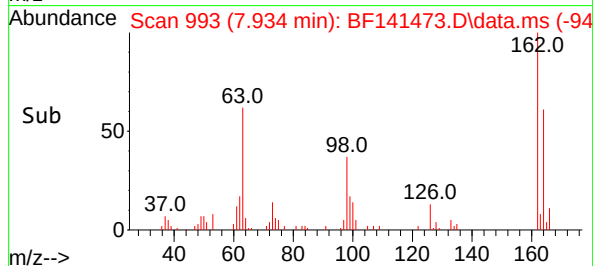
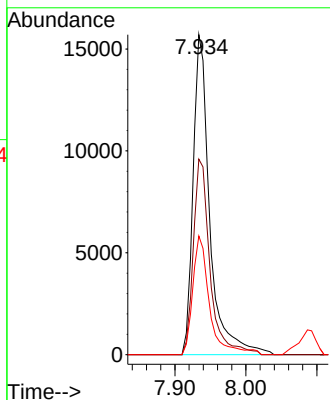
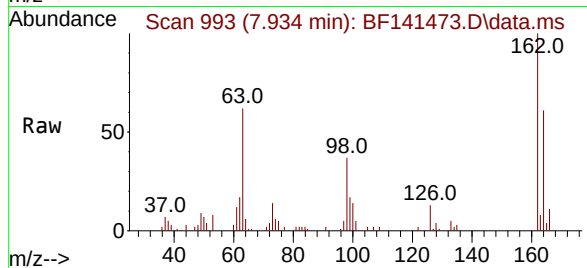
Tgt Ion:162 Resp: 25667

Ion Ratio Lower Upper

162 100

164 61.1 44.6 84.6

98 37.1 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 5.109 ng

RT: 8.010 min Scan# 1006

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

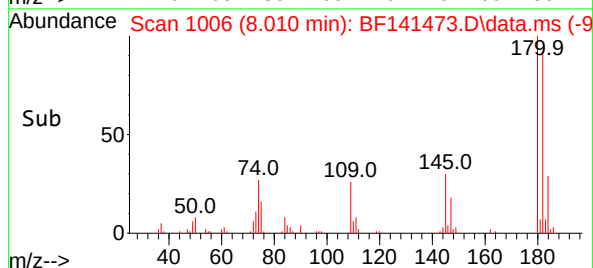
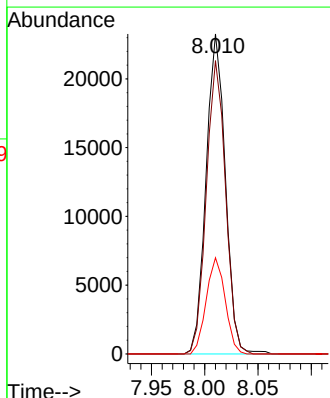
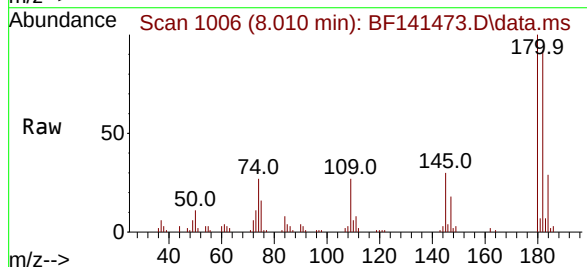
Tgt Ion:180 Resp: 29321

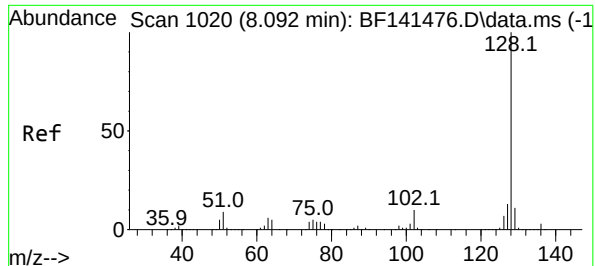
Ion Ratio Lower Upper

180 100

182 91.6 76.8 115.2

145 30.0 24.2 36.4





#31

Naphthalene

Concen: 5.123 ng

RT: 8.092 min Scan# 1020

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

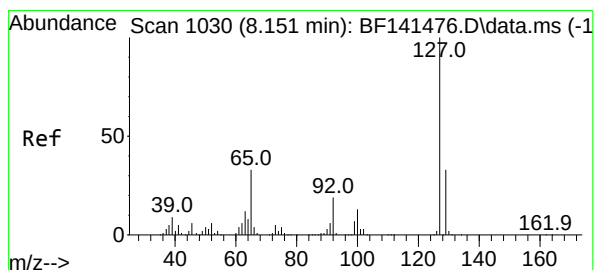
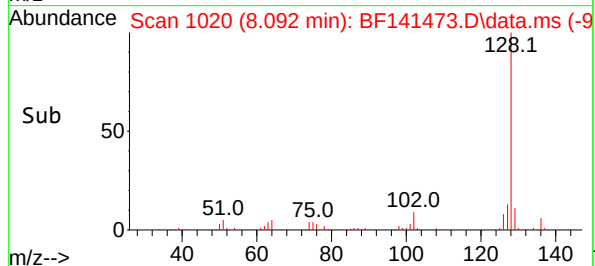
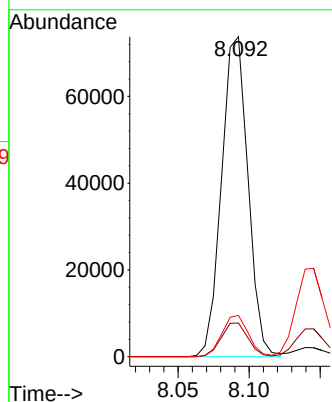
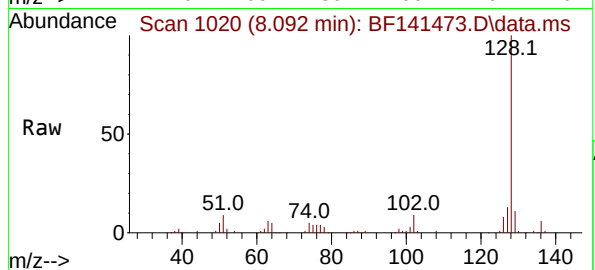
Tgt Ion:128 Resp: 95730

Ion Ratio Lower Upper

128 100

129 10.6 8.9 13.3

127 12.9 10.7 16.1



#33

4-Chloroaniline

Concen: 4.864 ng

RT: 8.145 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Tgt Ion:127 Resp: 31729

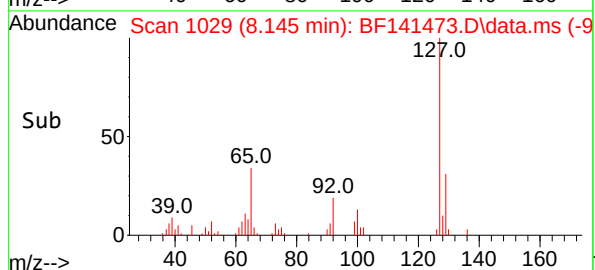
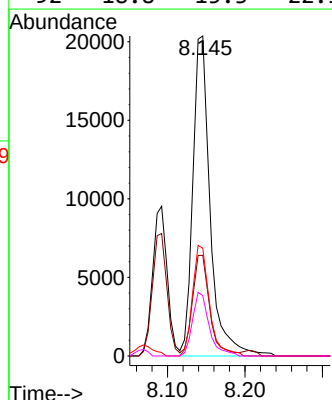
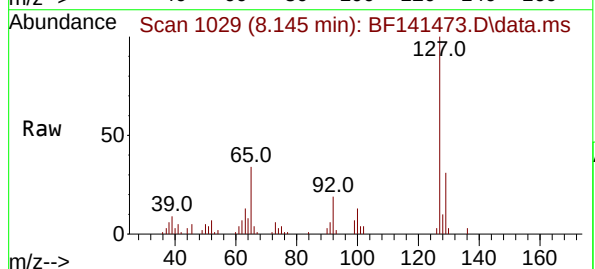
Ion Ratio Lower Upper

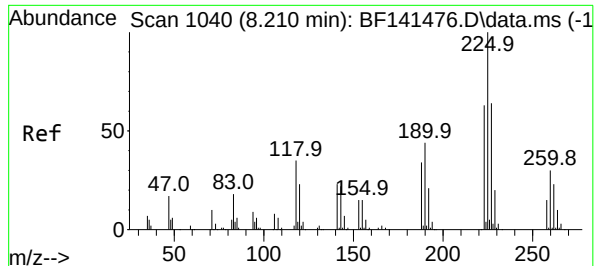
127 100

129 31.4 26.5 39.7

65 33.7 26.4 39.6

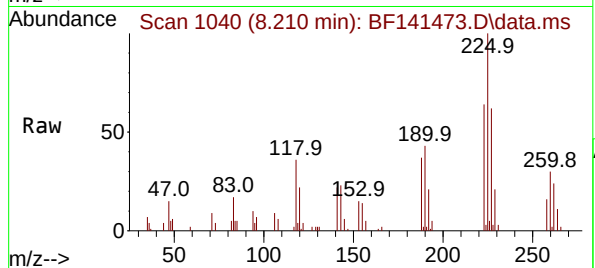
92 18.8 15.3 22.9



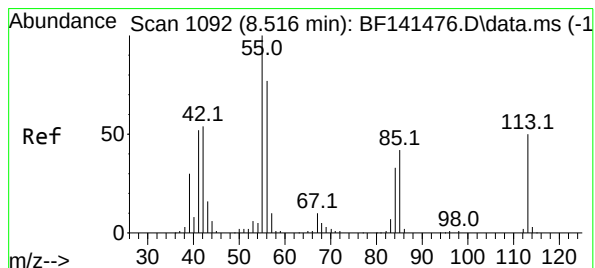
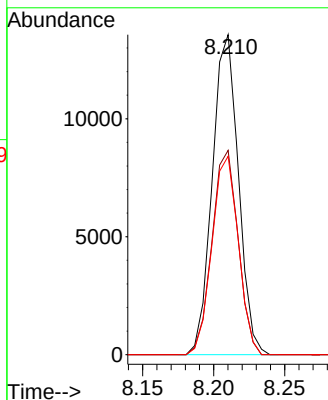
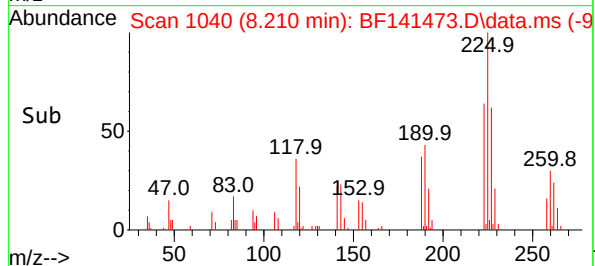


#34
Hexachlorobutadiene
Concen: 5.028 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

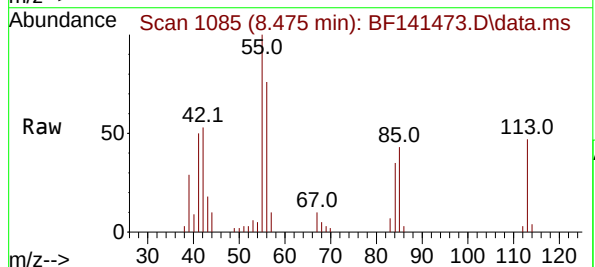
Instrument :
BNA_F
ClientSampleId :
SSTDICC005



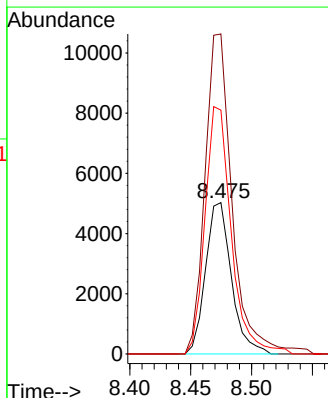
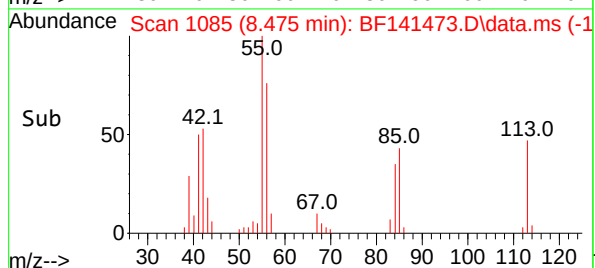
Tgt Ion:225 Resp: 17323
Ion Ratio Lower Upper
225 100
223 63.9 50.1 75.1
227 62.0 51.0 76.6

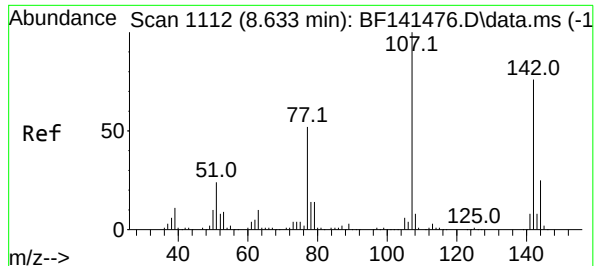


#35
Caprolactam
Concen: 4.635 ng
RT: 8.475 min Scan# 1085
Delta R.T. -0.070 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34



Tgt Ion:113 Resp: 7437
Ion Ratio Lower Upper
113 100
55 211.4 180.8 220.8
56 161.1 133.6 173.6





#36

4-Chloro-3-methylphenol

Concen: 4.765 ng

RT: 8.628 min Scan# 1111

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

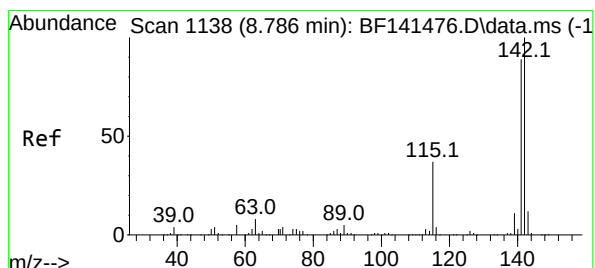
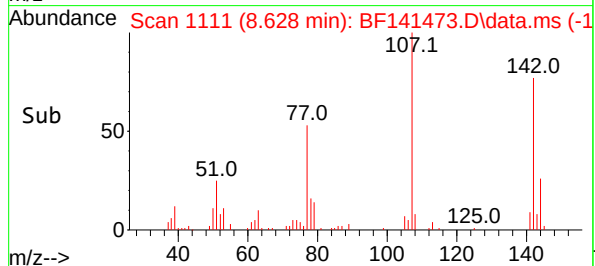
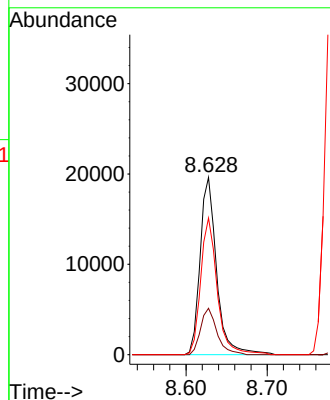
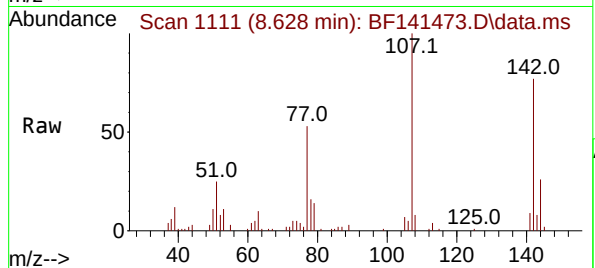
Tgt Ion:107 Resp: 27818

Ion Ratio Lower Upper

107 100

144 26.2 19.7 29.5

142 77.1 60.8 91.2



#37

2-Methylnaphthalene

Concen: 5.078 ng

RT: 8.781 min Scan# 1137

Delta R.T. -0.006 min

Lab File: BF141473.D

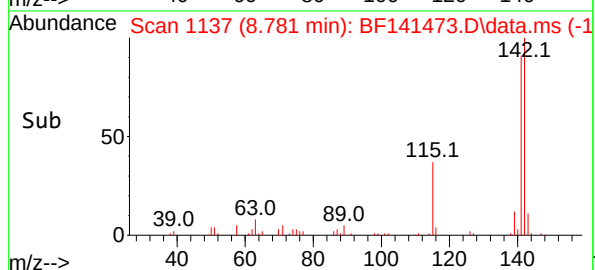
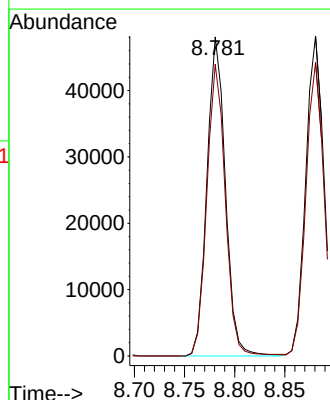
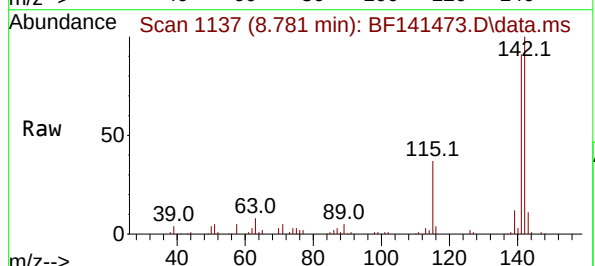
Acq: 06 Feb 2025 11:34

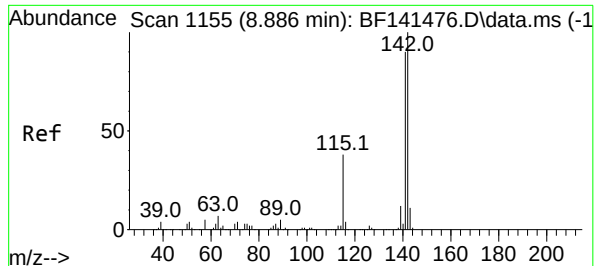
Tgt Ion:142 Resp: 61742

Ion Ratio Lower Upper

142 100

141 91.4 71.2 106.8





#38

1-Methylnaphthalene

Concen: 5.182 ng

RT: 8.881 min Scan# 1154

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

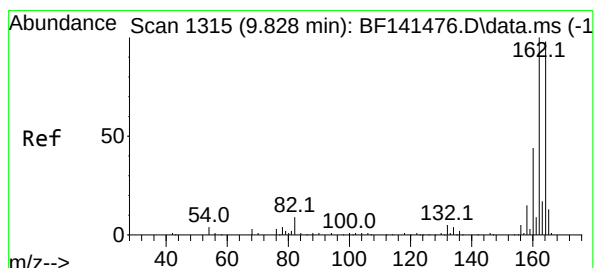
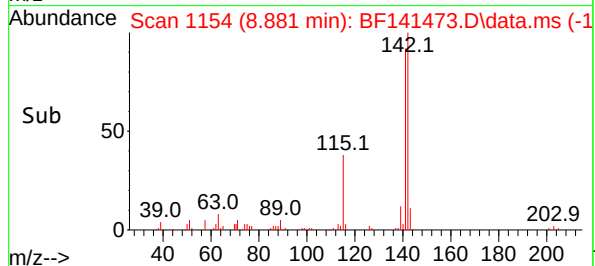
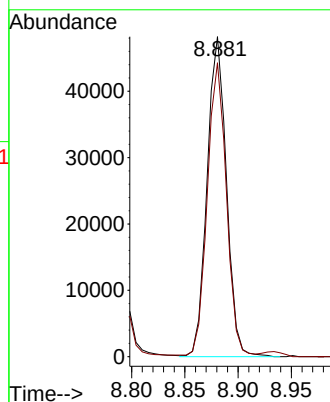
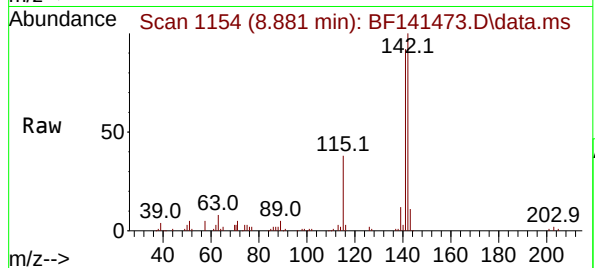
SSTDICC005

Tgt Ion:142 Resp: 61026

Ion Ratio Lower Upper

142 100

141 91.9 72.1 108.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1314

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

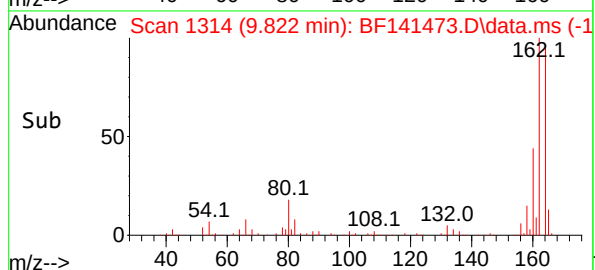
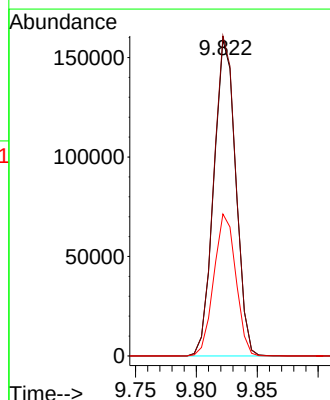
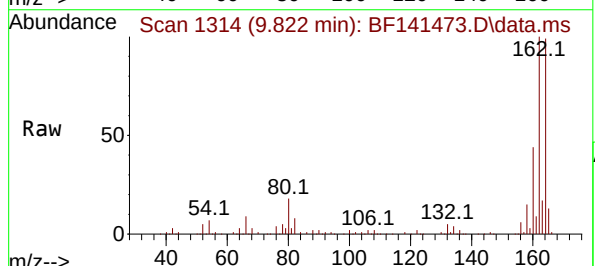
Tgt Ion:164 Resp: 199514

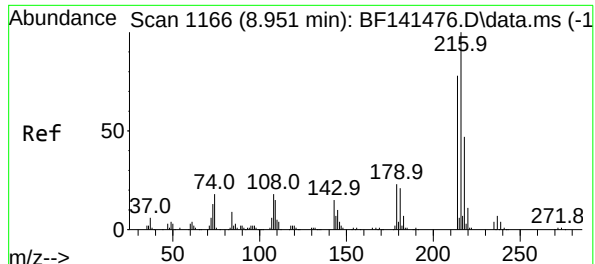
Ion Ratio Lower Upper

164 100

162 101.2 81.3 121.9

160 44.9 35.9 53.9





#40

1,2,4,5-Tetrachlorobenzene

Concen: 5.028 ng

RT: 8.945 min Scan# 1166

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Tgt Ion:216 Resp: 29023

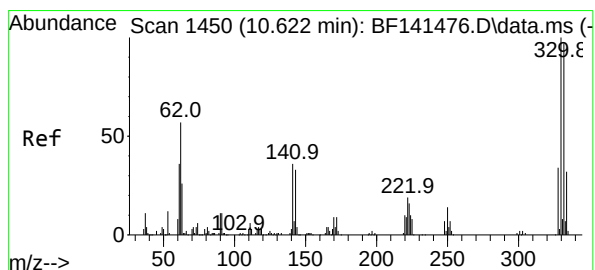
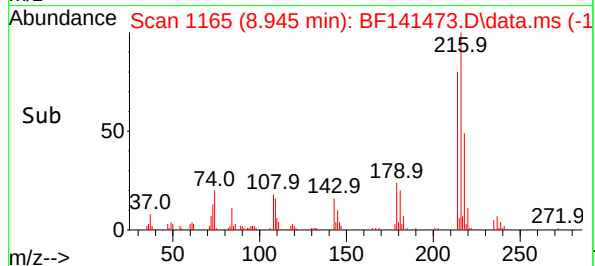
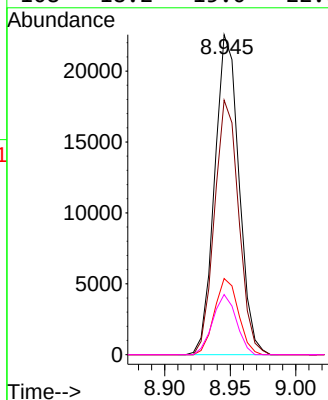
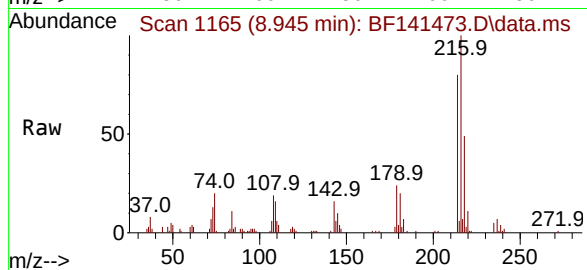
Ion Ratio Lower Upper

216 100

214 79.2 62.3 93.5

179 23.4 18.0 27.0

108 18.2 15.0 22.6



#42

2,4,6-Tribromophenol

Concen: 10.009 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

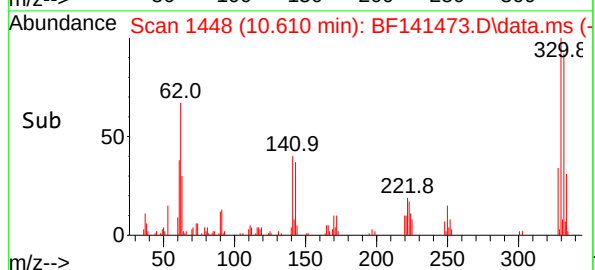
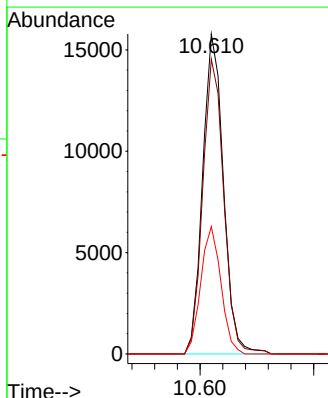
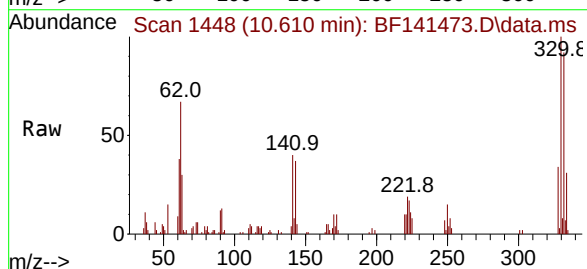
Tgt Ion:330 Resp: 20060

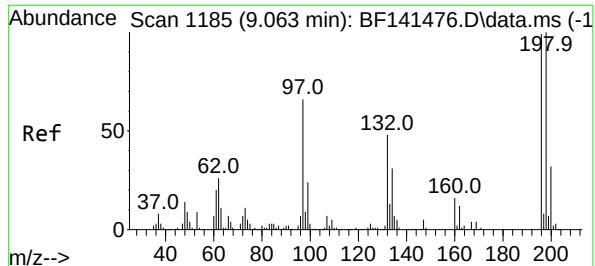
Ion Ratio Lower Upper

330 100

332 92.9 78.5 117.7

141 38.7 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 4.863 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141473.D

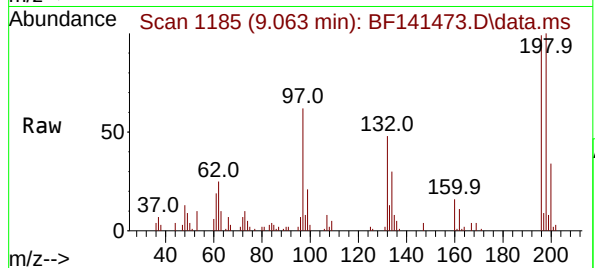
Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005



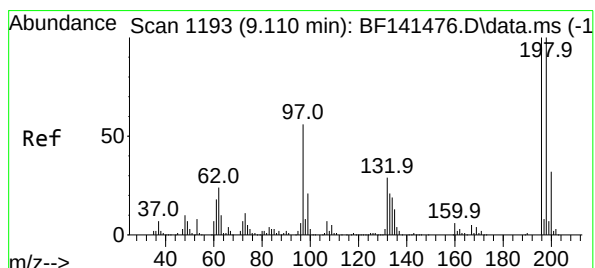
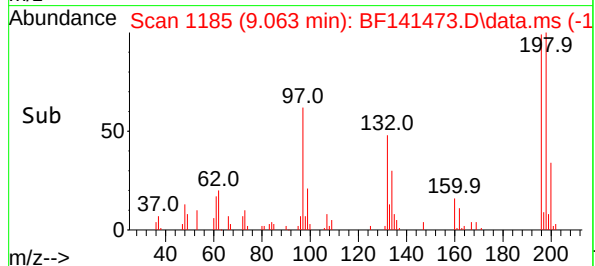
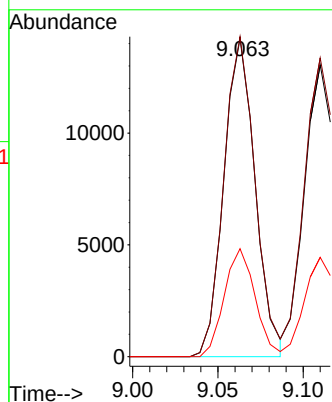
Tgt Ion:196 Resp: 18144

Ion Ratio Lower Upper

196 100

198 100.6 80.6 121.0

200 34.0 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 4.750 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Tgt Ion:196 Resp: 19204

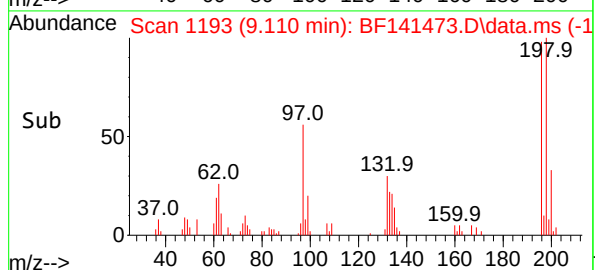
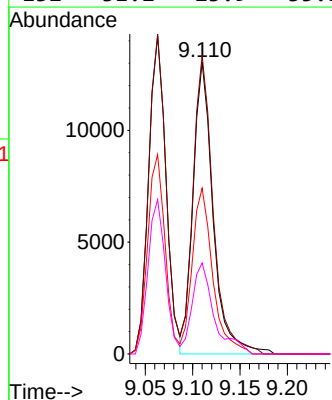
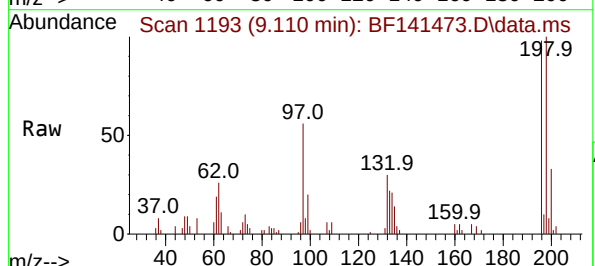
Ion Ratio Lower Upper

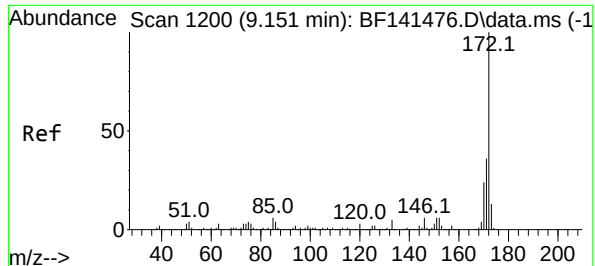
196 100

198 102.3 79.8 119.8

97 56.8 44.8 67.2

132 31.2 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 10.573 ng

RT: 9.145 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

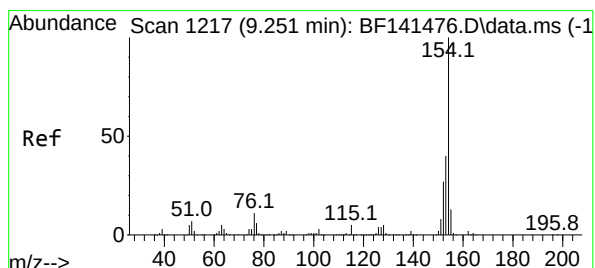
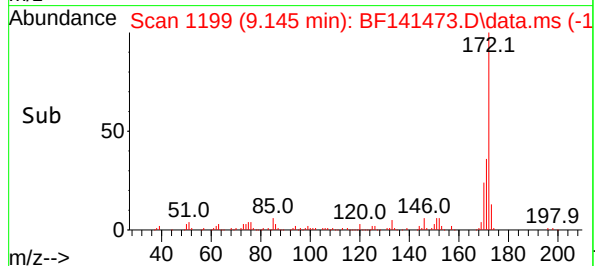
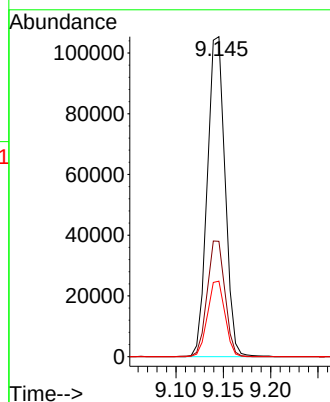
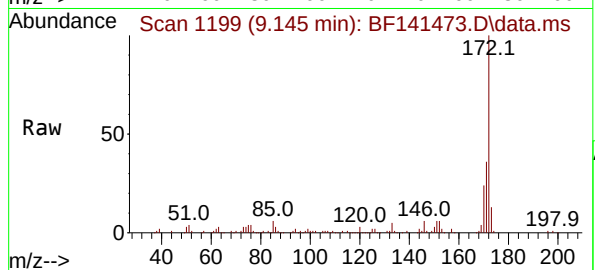
Tgt Ion:172 Resp: 136925

Ion Ratio Lower Upper

172 100

171 36.1 28.7 43.1

170 23.6 18.9 28.3



#46

1,1'-Biphenyl

Concen: 5.103 ng

RT: 9.245 min Scan# 1216

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

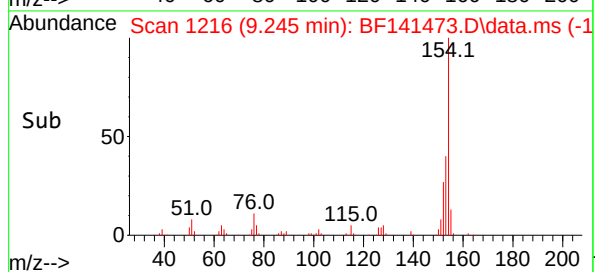
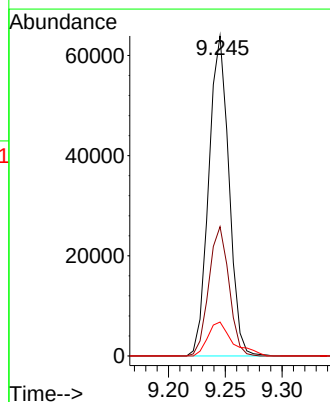
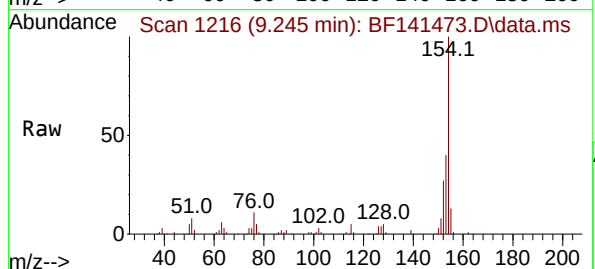
Tgt Ion:154 Resp: 78931

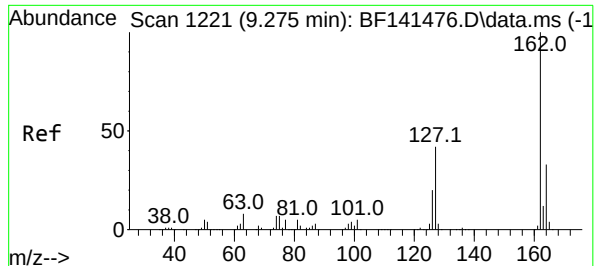
Ion Ratio Lower Upper

154 100

153 40.4 20.4 60.4

76 10.6 0.0 30.8





#47

2-Chloronaphthalene

Concen: 5.088 ng

RT: 9.269 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141473.D

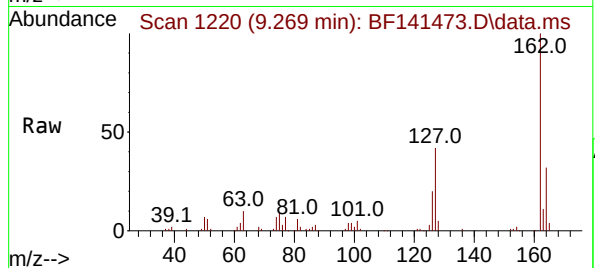
Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005



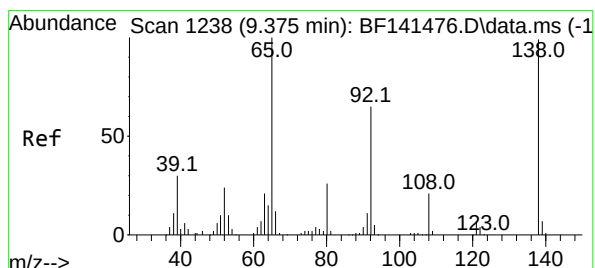
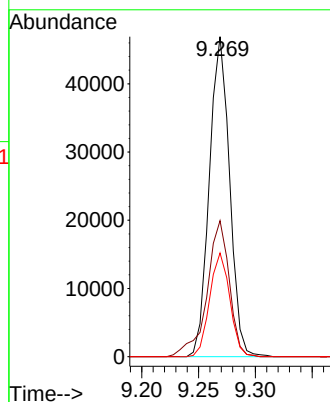
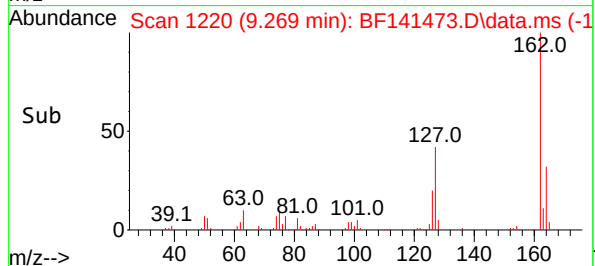
Tgt Ion:162 Resp: 58201

Ion Ratio Lower Upper

162 100

127 42.5 34.1 51.1

164 32.4 26.3 39.5



#48

2-Nitroaniline

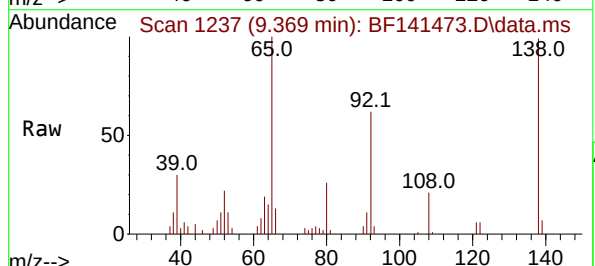
Concen: 4.818 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34



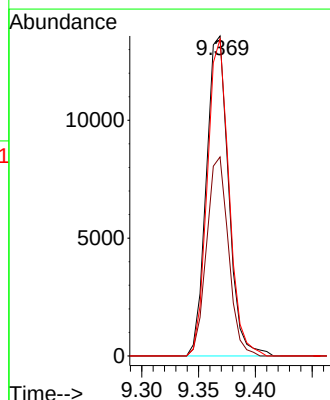
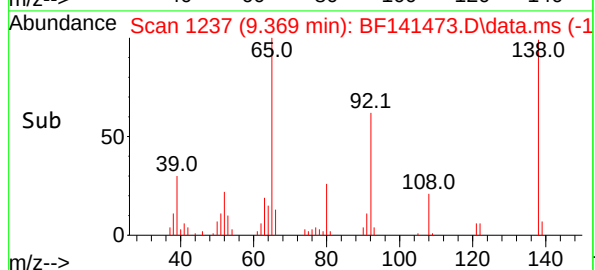
Tgt Ion: 65 Resp: 18494

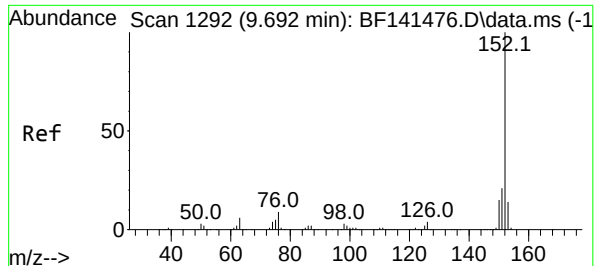
Ion Ratio Lower Upper

65 100

92 62.2 52.2 78.2

138 99.0 79.5 119.3





#49

Acenaphthylene

Concen: 5.097 ng

RT: 9.681 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

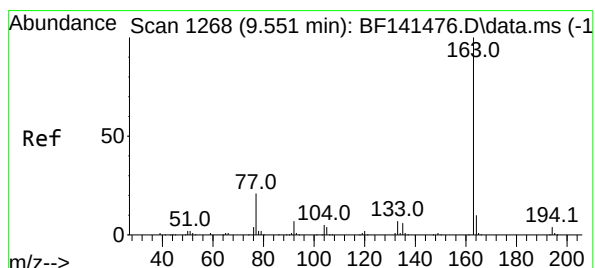
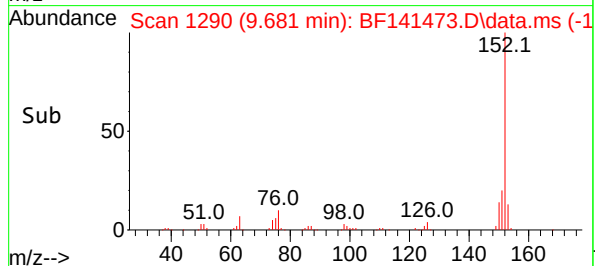
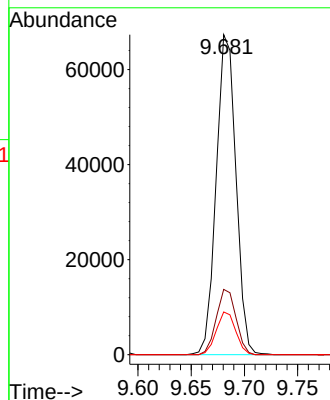
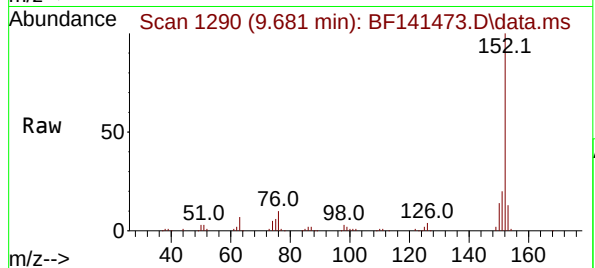
Tgt Ion:152 Resp: 86721

Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

153 13.4 10.9 16.3



#50

Dimethylphthalate

Concen: 5.088 ng

RT: 9.539 min Scan# 1266

Delta R.T. -0.023 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

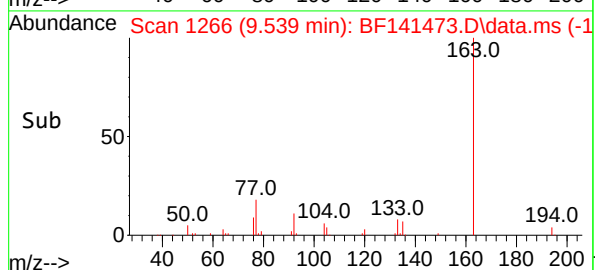
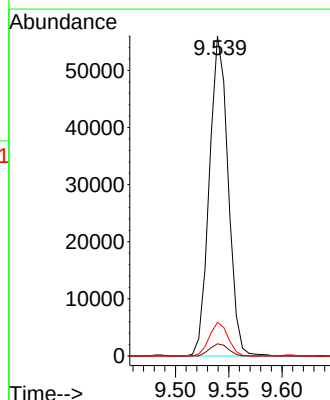
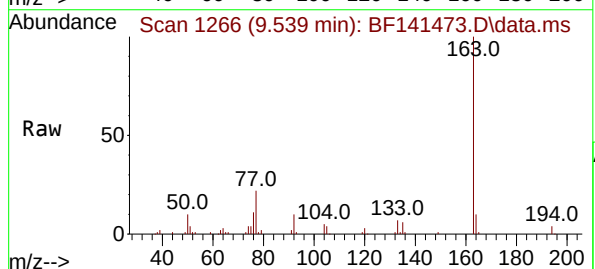
Tgt Ion:163 Resp: 68921

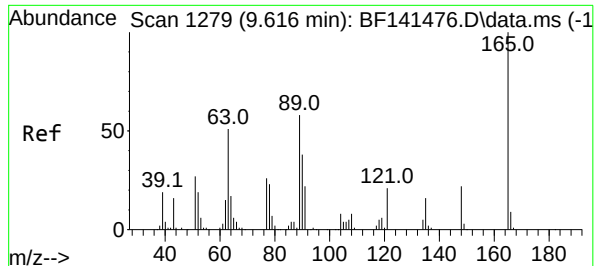
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

164 10.5 7.9 11.9

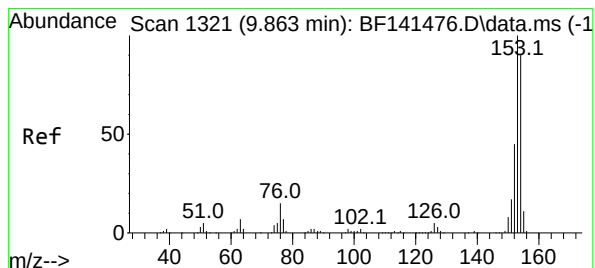
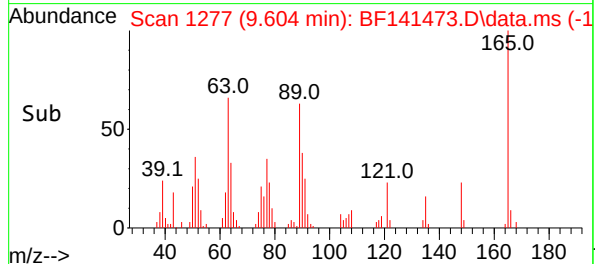
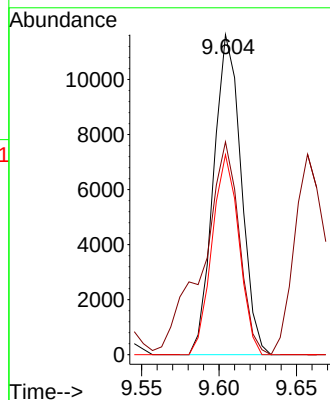
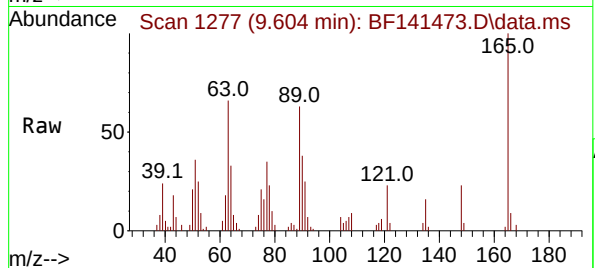




#51
2,6-Dinitrotoluene
Concen: 4.861 ng
RT: 9.604 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

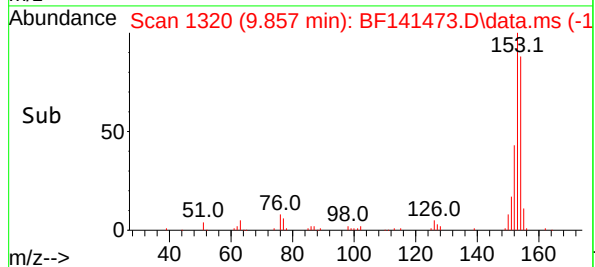
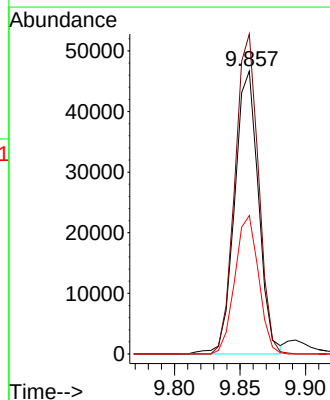
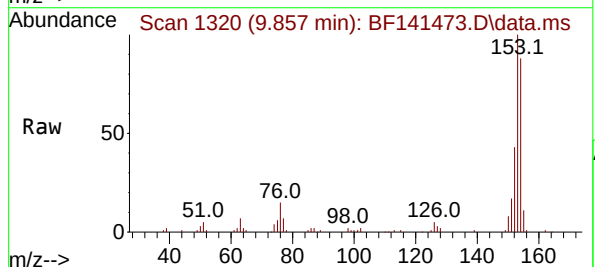
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

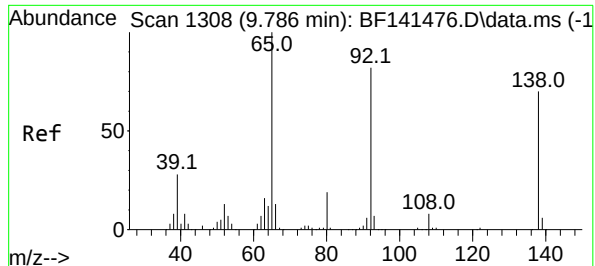
Tgt Ion:165 Resp: 14394
Ion Ratio Lower Upper
165 100
63 66.5 49.4 74.0
89 62.5 46.5 69.7



#52
Acenaphthene
Concen: 5.171 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:154 Resp: 59139
Ion Ratio Lower Upper
154 100
153 113.1 89.2 133.8
152 48.9 39.8 59.8

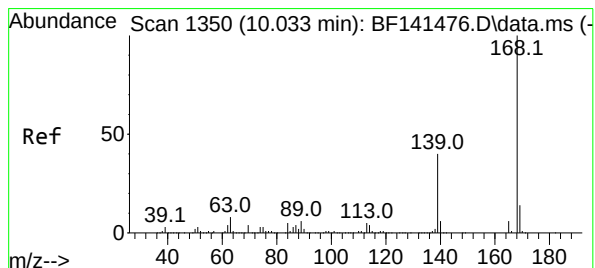
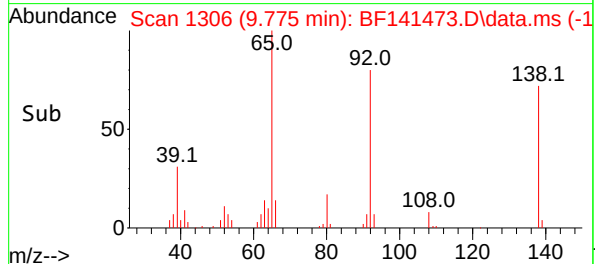
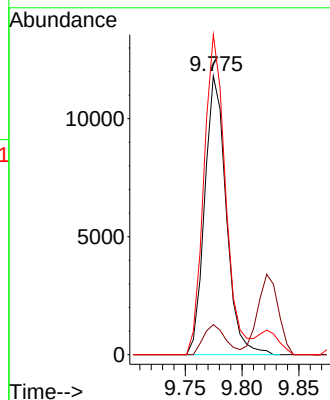
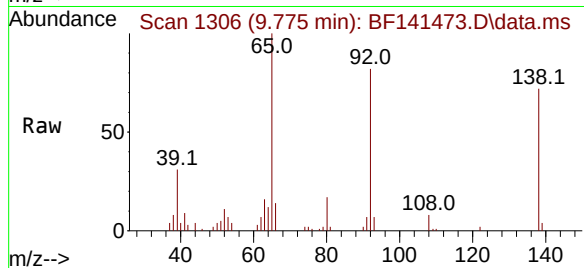




#53
3-Nitroaniline
Concen: 4.884 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

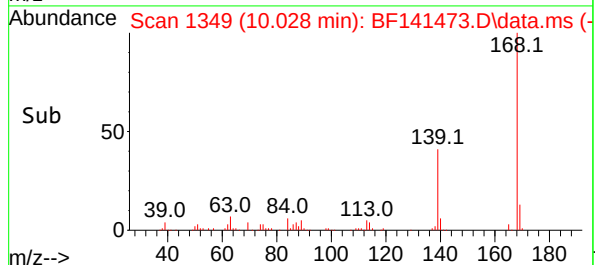
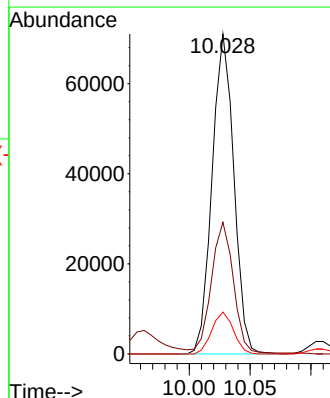
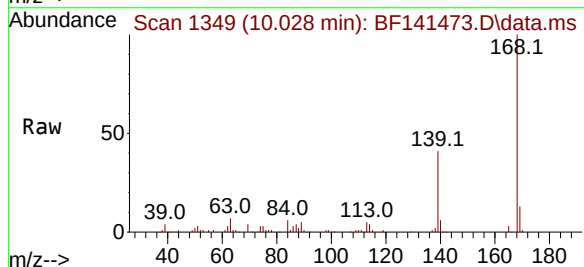
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

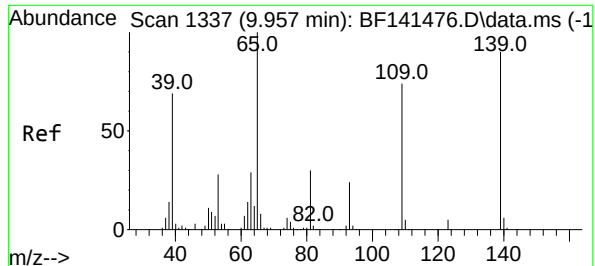
Tgt Ion:138 Resp: 15563
Ion Ratio Lower Upper
138 100
108 10.8 9.0 13.4
92 114.8 93.7 140.5



#55
Dibenzofuran
Concen: 5.252 ng
RT: 10.028 min Scan# 1349
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:168 Resp: 88178
Ion Ratio Lower Upper
168 100
139 41.2 32.7 49.1
169 13.1 10.8 16.2

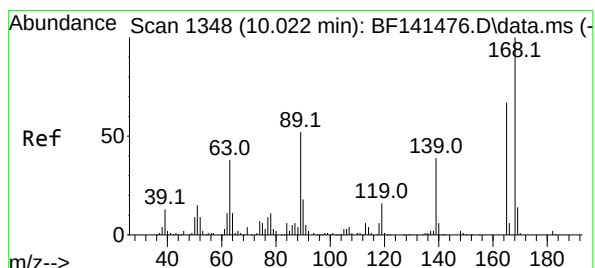
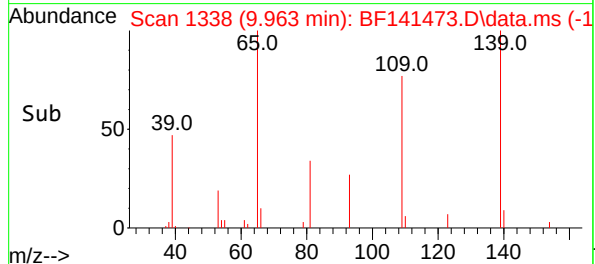
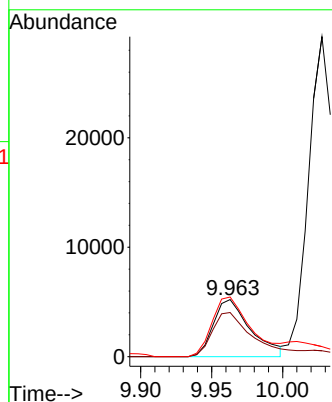
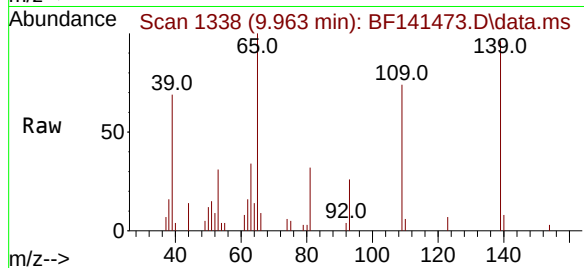




#56
4-Nitrophenol
Concen: 4.008 ng
RT: 9.963 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

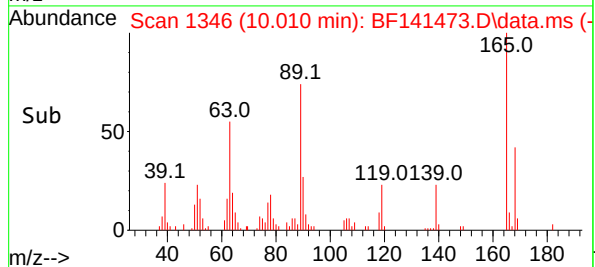
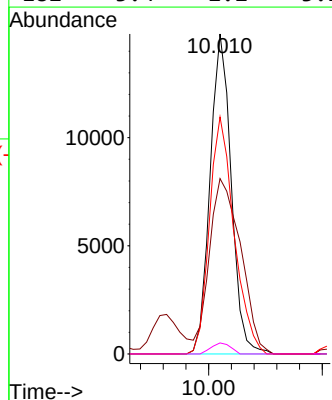
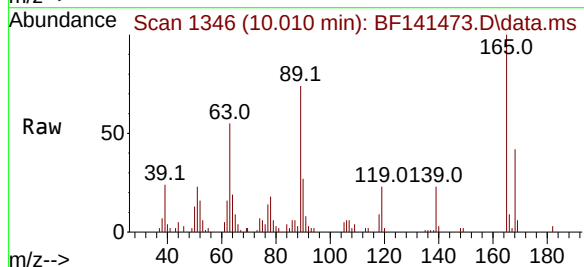
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

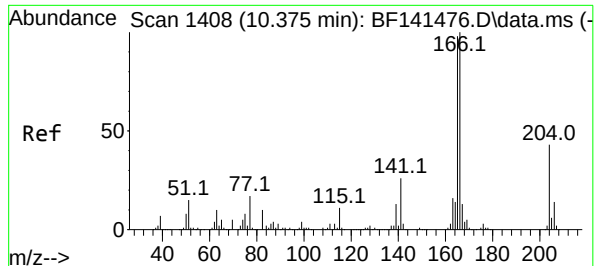
Tgt Ion:139 Resp: 9482
Ion Ratio Lower Upper
139 100
109 77.2 62.0 102.0
65 104.4 91.2 131.2



#57
2,4-Dinitrotoluene
Concen: 4.842 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:165 Resp: 19087
Ion Ratio Lower Upper
165 100
63 54.8 46.4 69.6
89 74.0 61.8 92.6
182 3.4 2.2 3.2#

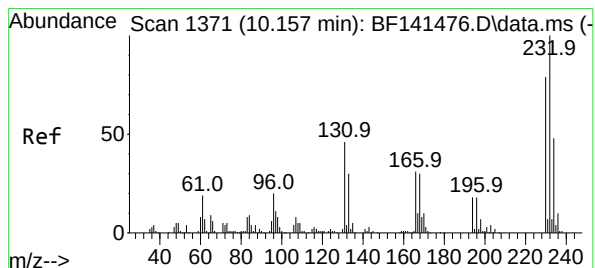
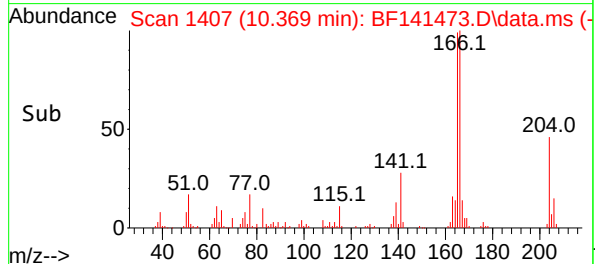
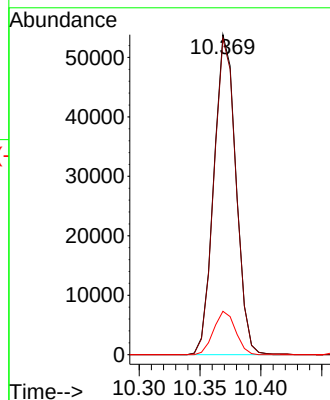
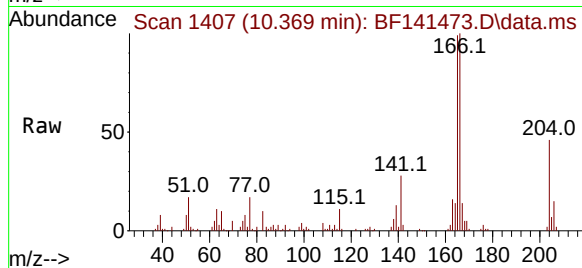




#58
Fluorene
Concen: 5.220 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

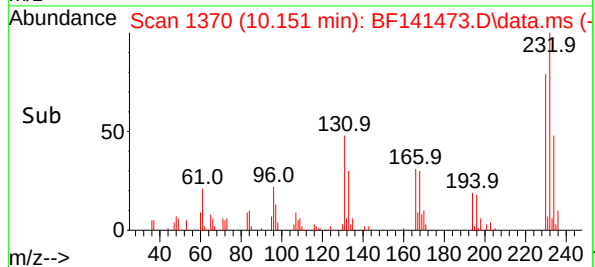
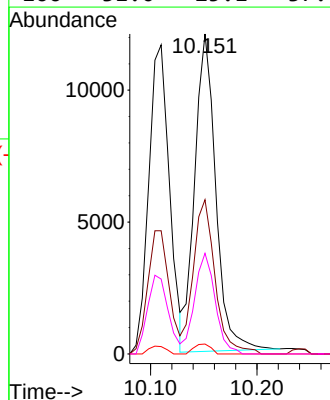
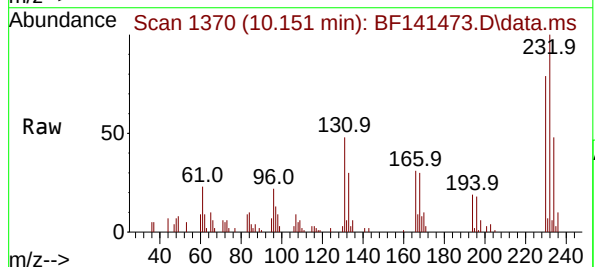
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

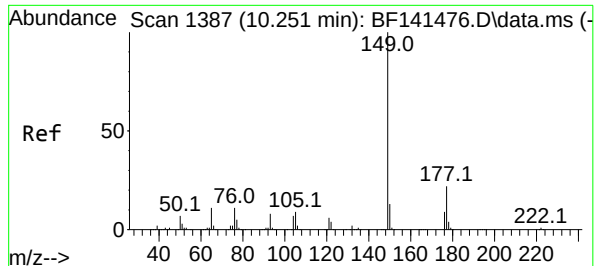
Tgt Ion:166 Resp: 67764
Ion Ratio Lower Upper
166 100
165 98.8 78.2 117.2
167 13.5 10.7 16.1



#59
2,3,4,6-Tetrachlorophenol
Concen: 4.760 ng
RT: 10.151 min Scan# 1370
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:232 Resp: 16570
Ion Ratio Lower Upper
232 100
131 50.2 39.2 58.8
130 2.5 2.1 3.1
166 31.0 25.1 37.7

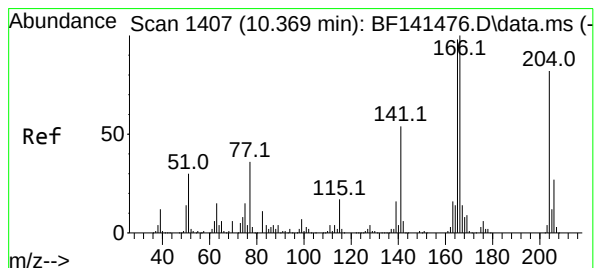
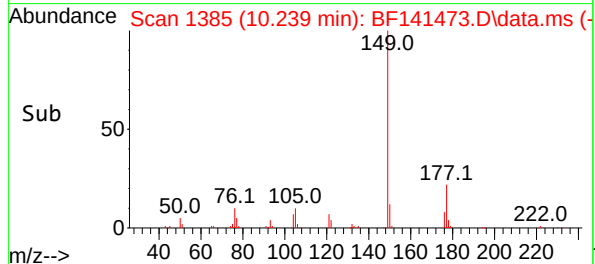
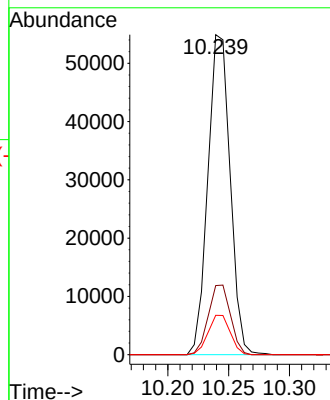
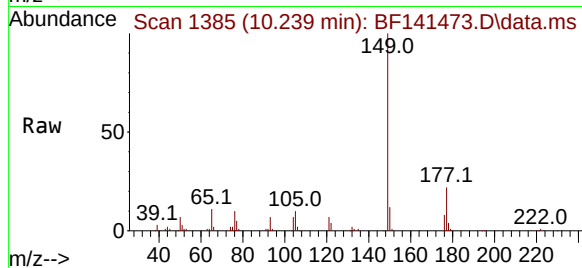




#60
Diethylphthalate
Concen: 5.241 ng
RT: 10.239 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

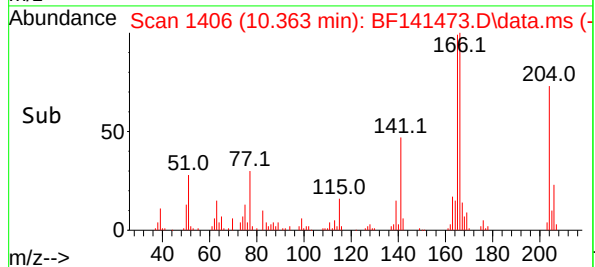
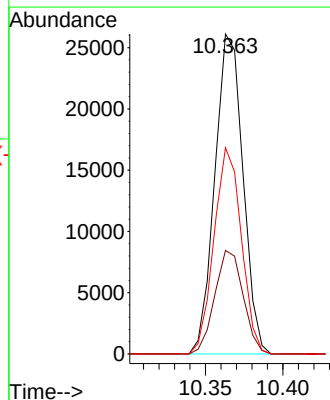
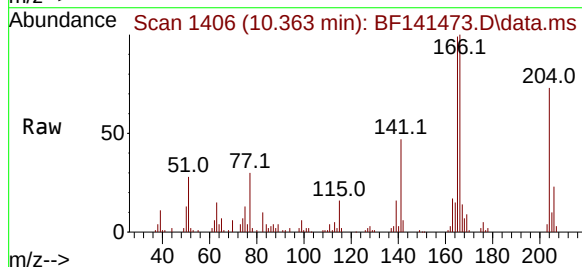
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

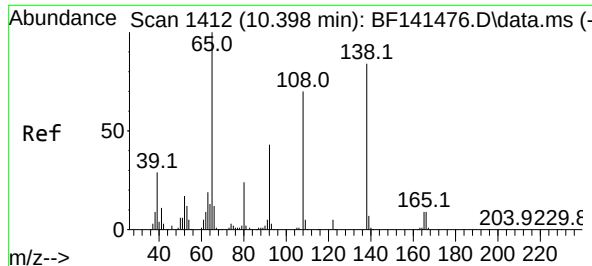
Tgt Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.8	26.6
150	12.3	10.1	15.1



#61
4-Chlorophenyl-phenylether
Concen: 5.277 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.6	40.0
141	64.4	51.9	77.9

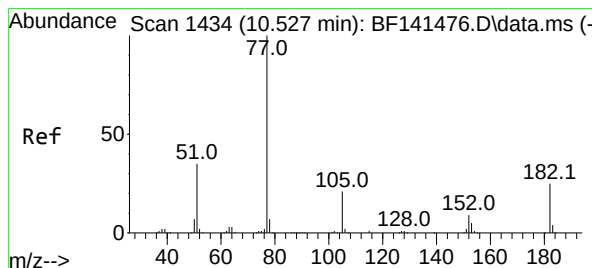
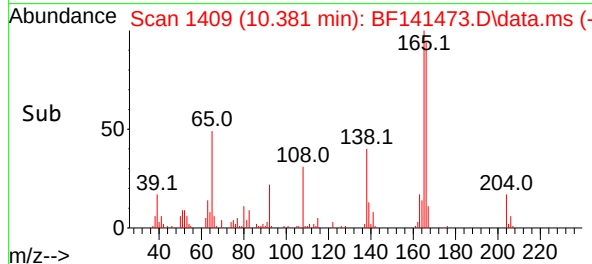
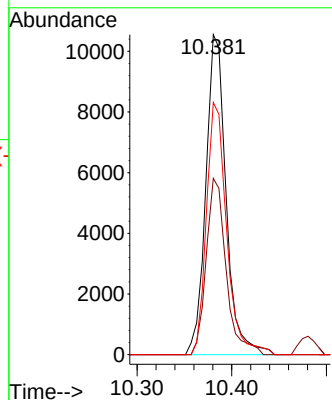
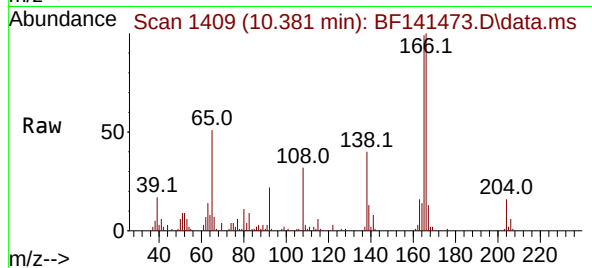




#62
4-Nitroaniline
Concen: 4.855 ng
RT: 10.381 min Scan# 1412
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

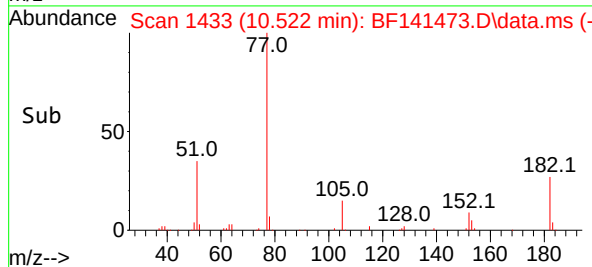
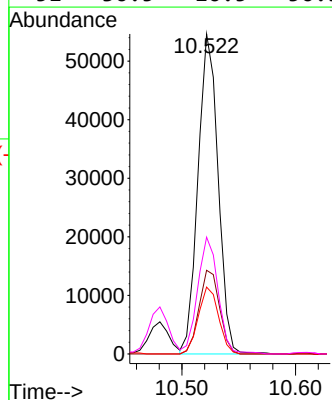
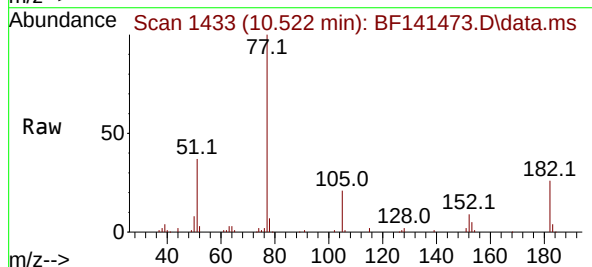
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

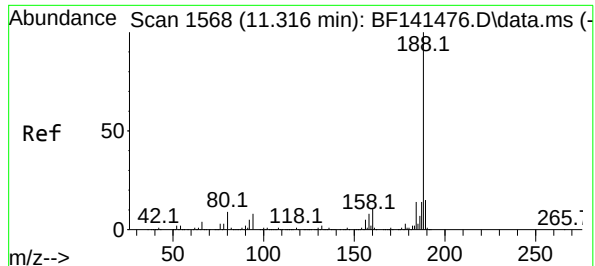
Tgt Ion	Ratio	Lower	Upper
138	100		
92	55.1	31.3	71.3
108	78.8	63.7	103.7



#63
Azobenzene
Concen: 5.077 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion	Ratio	Lower	Upper
77	100		
182	26.2	4.7	44.7
105	20.9	0.4	40.4
51	36.5	16.5	56.5

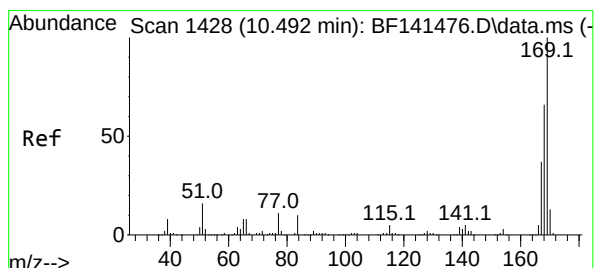
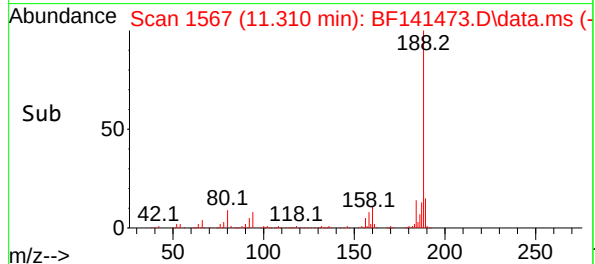
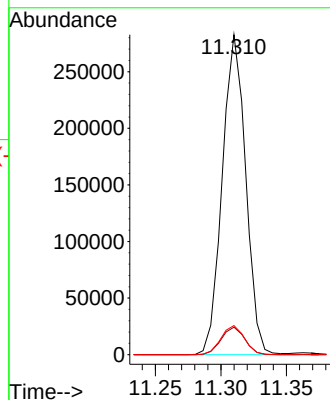
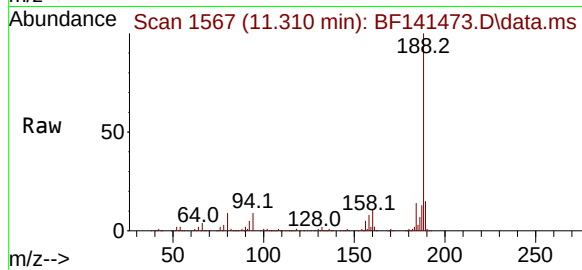




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

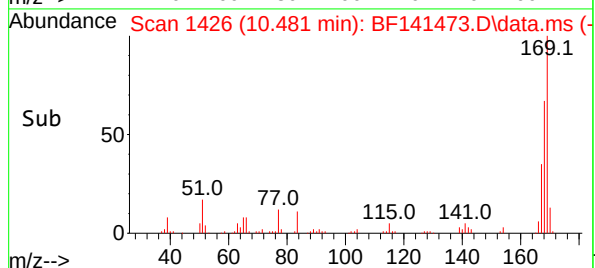
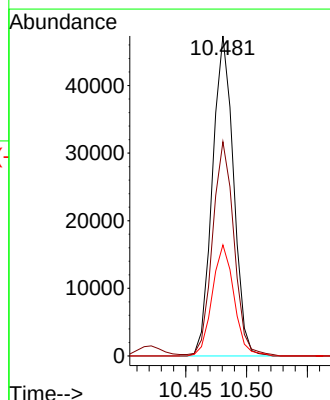
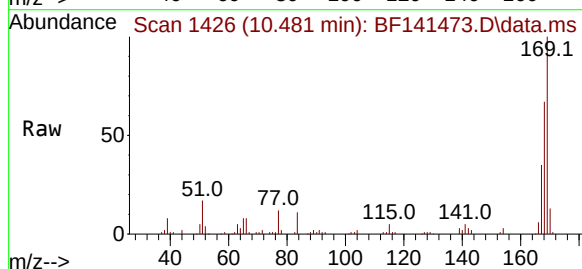
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

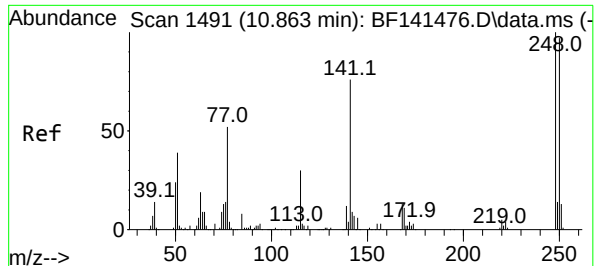
Tgt Ion:188 Resp: 351213
Ion Ratio Lower Upper
188 100
94 8.6 6.6 10.0
80 9.1 7.3 10.9



#66
n-Nitrosodiphenylamine
Concen: 5.076 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:169 Resp: 57063
Ion Ratio Lower Upper
169 100
168 66.9 53.3 79.9
167 34.7 29.4 44.2

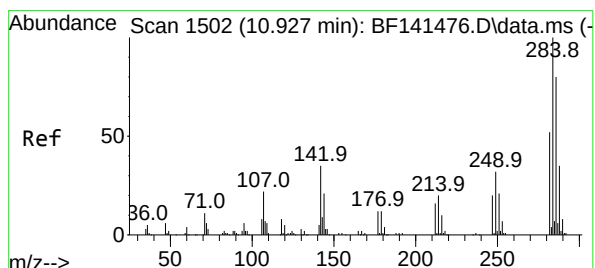
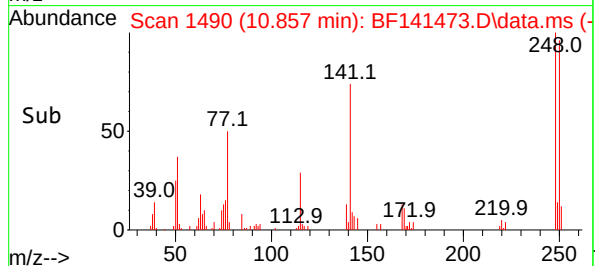
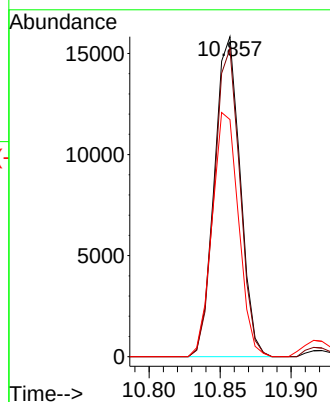
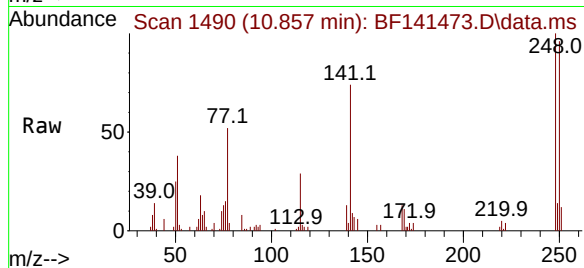




#67
4-Bromophenyl-phenylether
Concen: 5.098 ng
RT: 10.857 min Scan# 1490
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

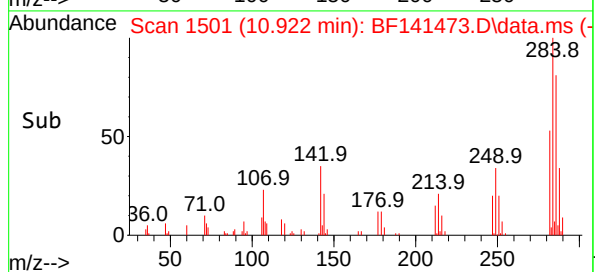
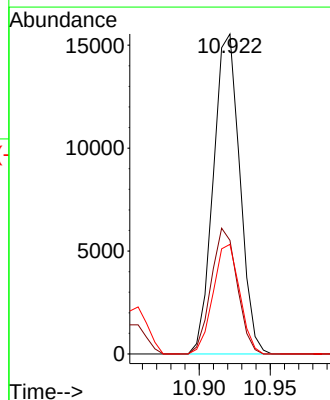
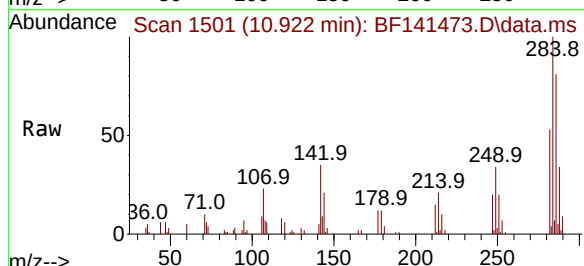
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

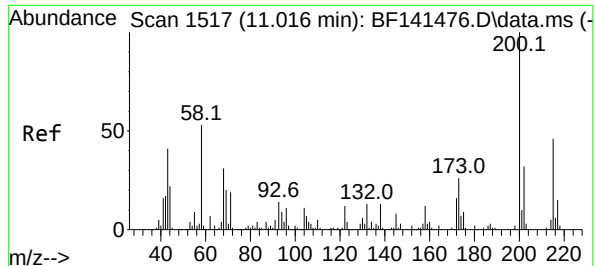
Tgt Ion:248 Resp: 20012
Ion Ratio Lower Upper
248 100
250 96.2 77.8 116.6
141 74.1 60.6 90.8



#68
Hexachlorobenzene
Concen: 4.982 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:284 Resp: 20138
Ion Ratio Lower Upper
284 100
142 35.5 28.0 42.0
249 34.3 25.8 38.8





#69

Atrazine

Concen: 5.194 ng

RT: 11.010 min Scan# 1516

Delta R.T. -0.011 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

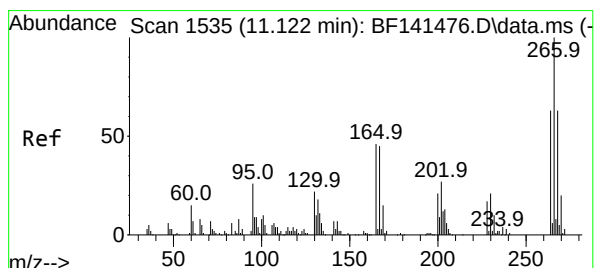
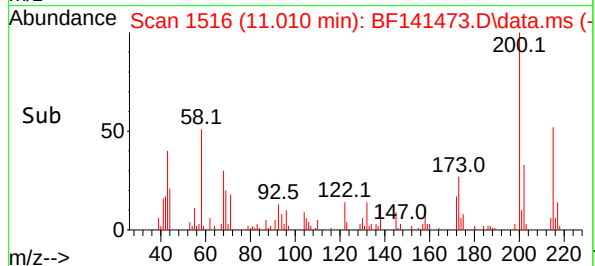
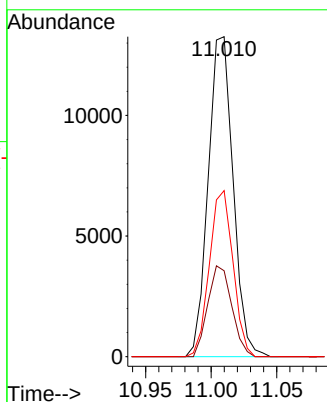
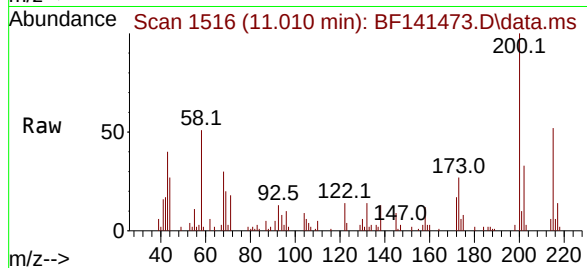
Tgt Ion:200 Resp: 17519

Ion Ratio Lower Upper

200 100

173 26.9 5.9 45.9

215 51.9 25.9 65.9



#70

Pentachlorophenol

Concen: 3.928 ng

RT: 11.122 min Scan# 1535

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

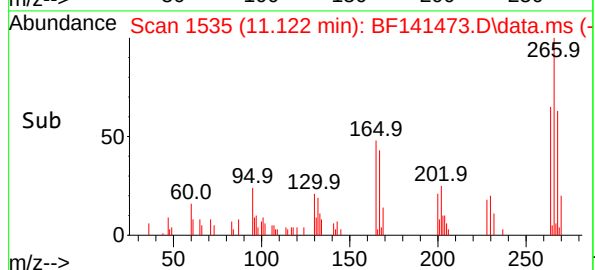
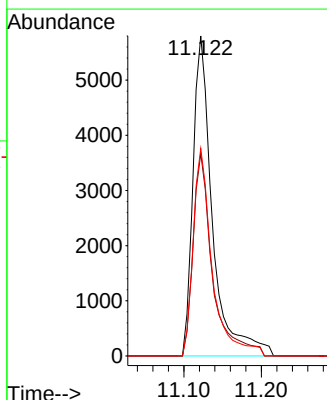
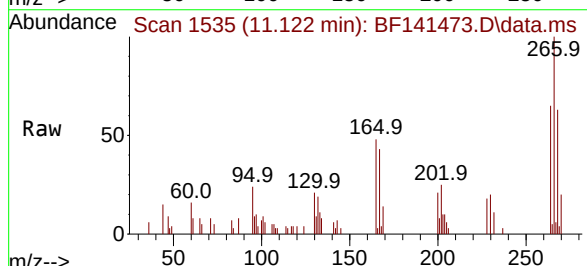
Tgt Ion:266 Resp: 10151

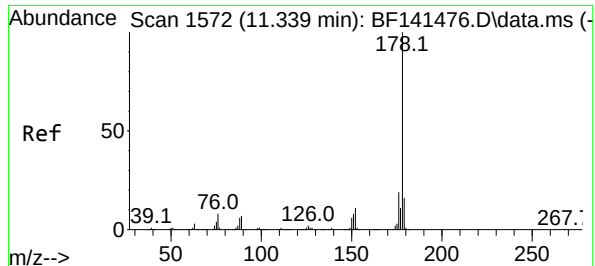
Ion Ratio Lower Upper

266 100

268 63.2 50.1 75.1

264 64.8 50.1 75.1

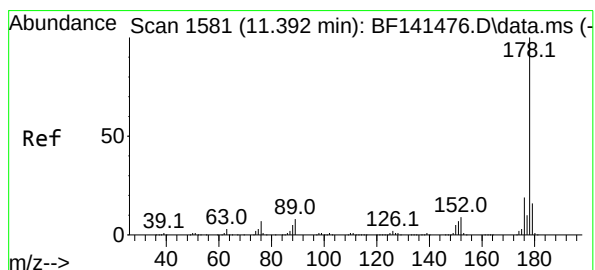
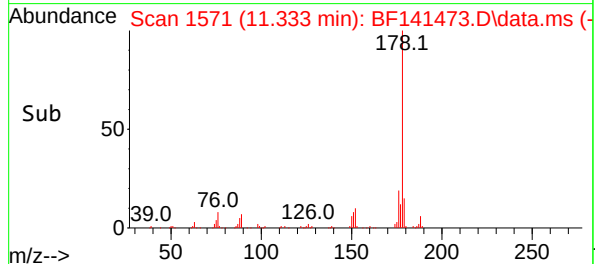
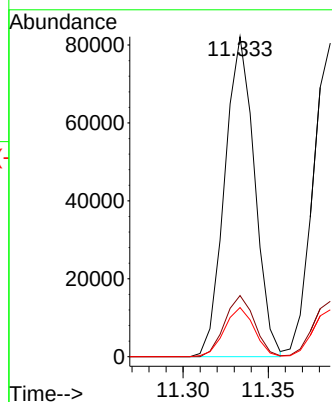
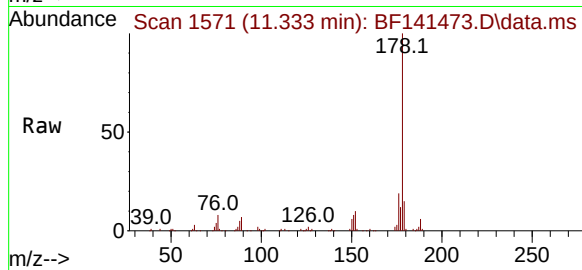




#71
Phenanthrene
Concen: 5.183 ng
RT: 11.333 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

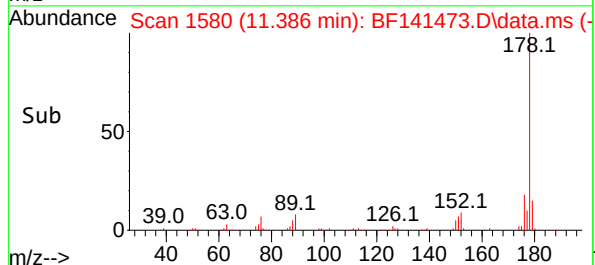
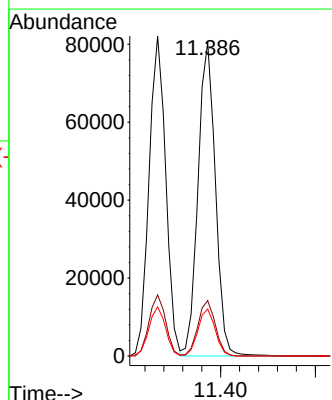
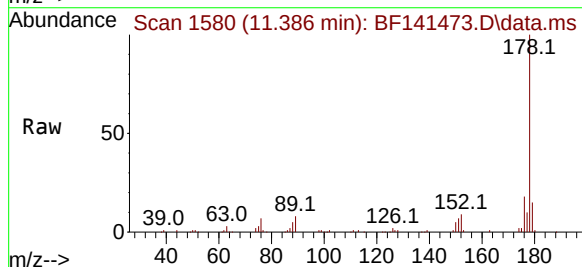
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

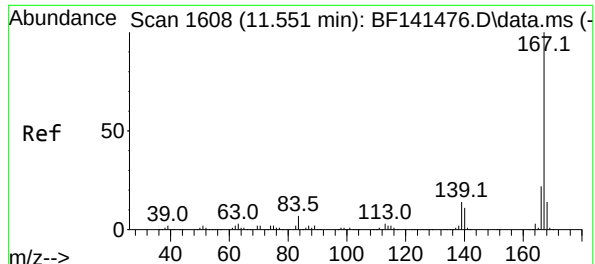
Tgt Ion:178 Resp: 100202
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.4 12.4 18.6



#72
Anthracene
Concen: 5.279 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:178 Resp: 102596
Ion Ratio Lower Upper
178 100
176 17.6 14.8 22.2
179 15.0 12.4 18.6

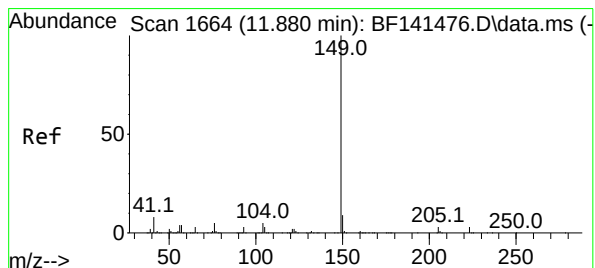
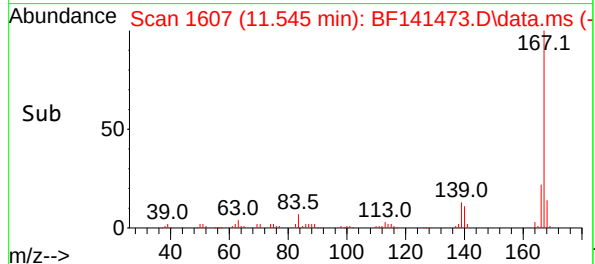
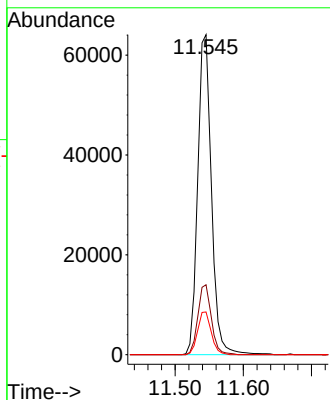
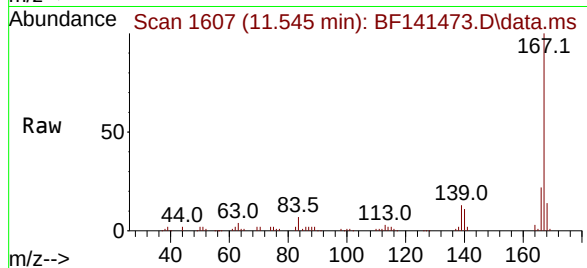




#73
Carbazole
Concen: 5.131 ng
RT: 11.545 min Scan# 1607
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

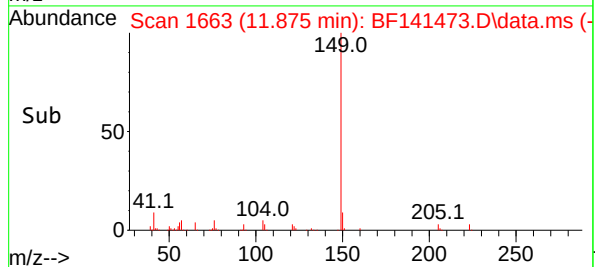
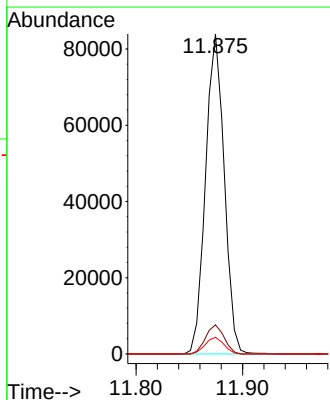
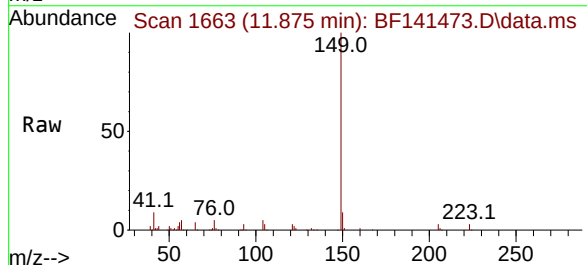
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

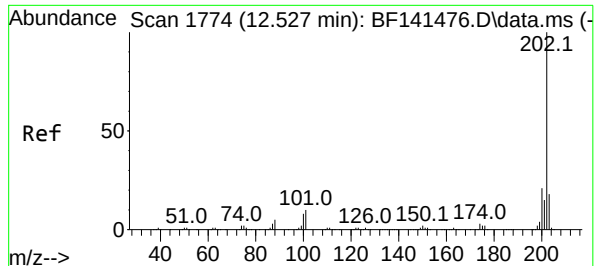
Tgt Ion:167 Resp: 89721
Ion Ratio Lower Upper
167 100
166 21.9 17.4 26.2
139 13.4 10.9 16.3



#74
Di-n-butylphthalate
Concen: 5.066 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 102296
Ion Ratio Lower Upper
149 100
150 9.1 7.4 11.0
104 5.2 4.2 6.2

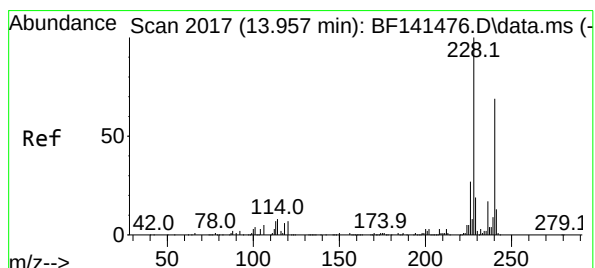
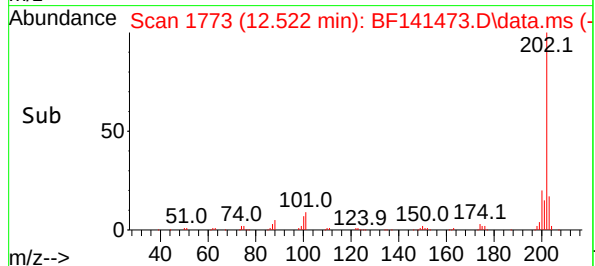
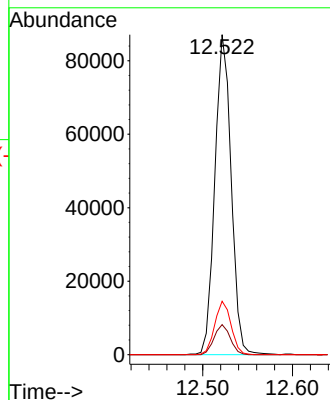
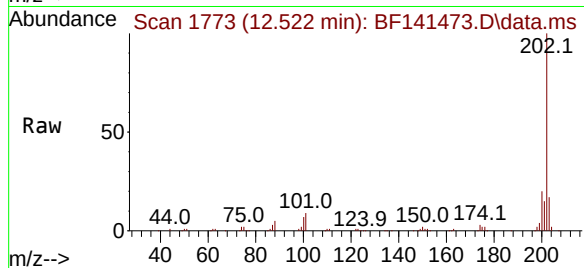




#75
Fluoranthene
Concen: 5.361 ng
RT: 12.522 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

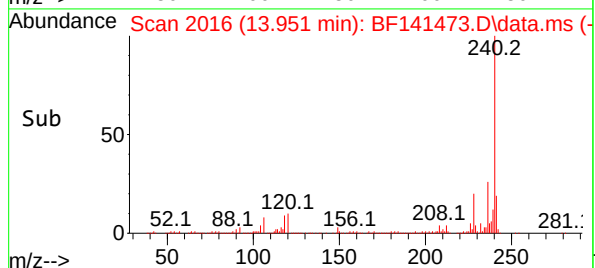
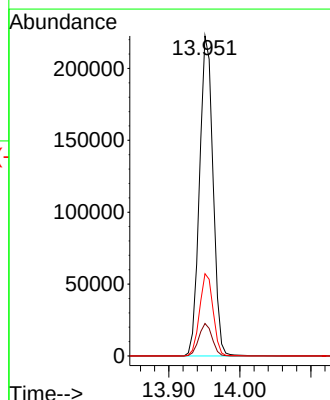
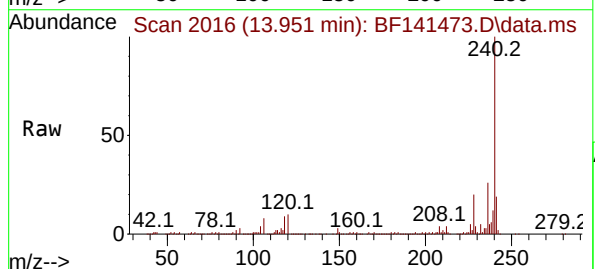
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

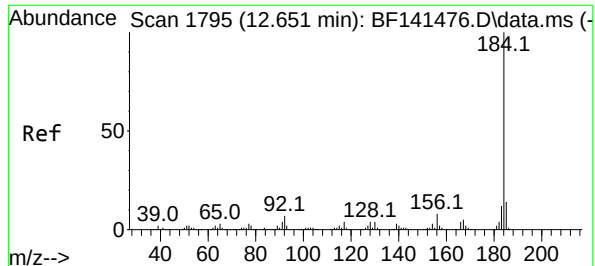
Tgt Ion:202 Resp: 109883
Ion Ratio Lower Upper
202 100
101 9.4 0.0 30.2
203 16.7 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:240 Resp: 295087
Ion Ratio Lower Upper
240 100
120 10.2 8.0 12.0
236 25.7 19.8 29.8

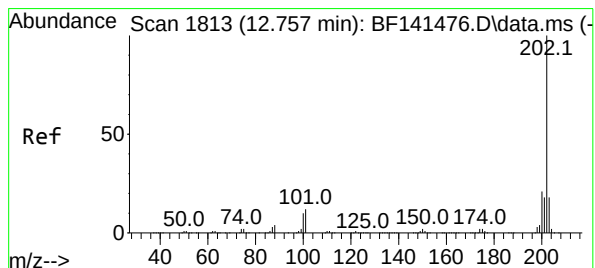
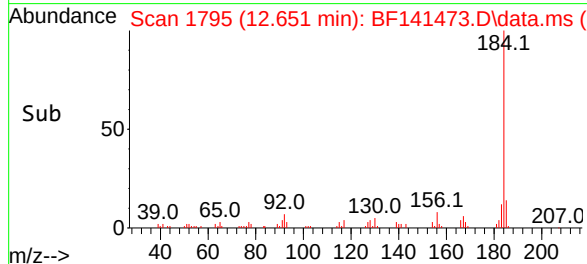
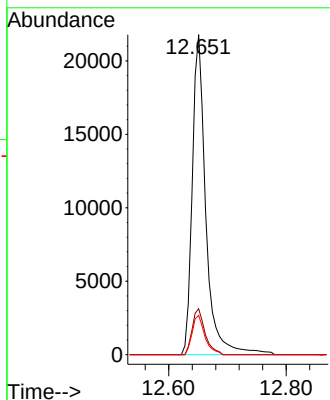
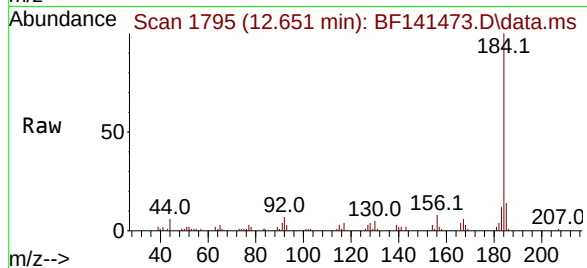




#77
Benzidine
Concen: 5.370 ng
RT: 12.651 min Scan# 1795
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

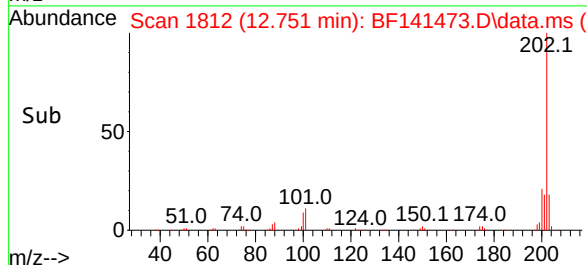
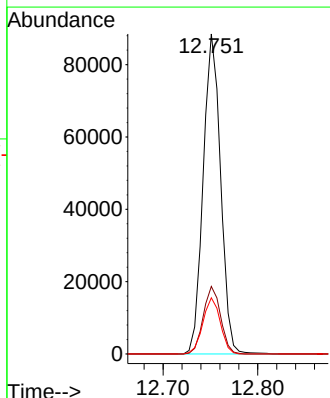
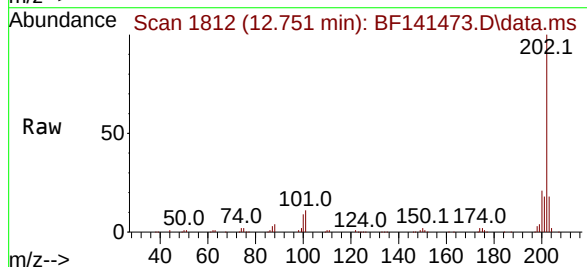
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

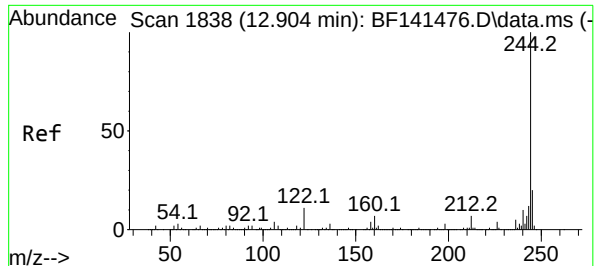
Tgt Ion:184 Resp: 34946
Ion Ratio Lower Upper
184 100
185 14.3 11.3 16.9
183 12.3 9.3 13.9



#78
Pyrene
Concen: 4.486 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

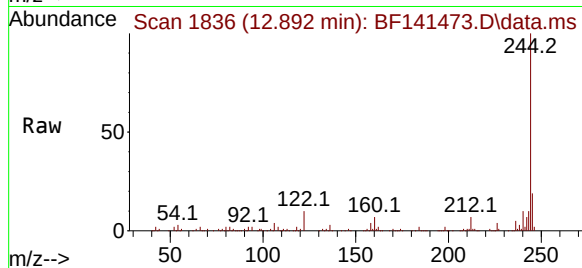
Tgt Ion:202 Resp: 112700
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.6 14.3 21.5



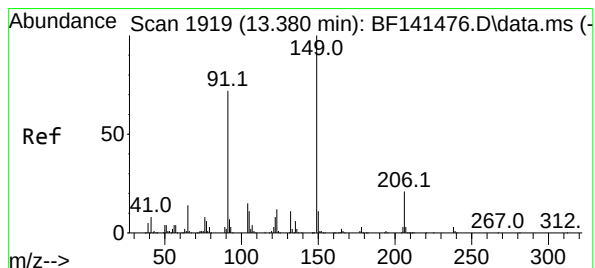
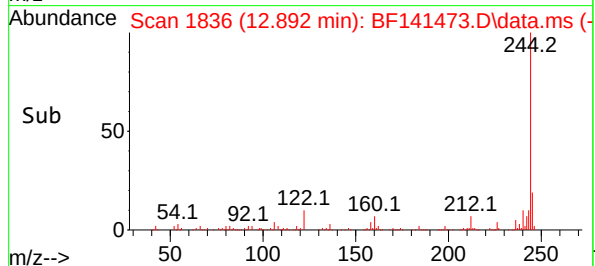
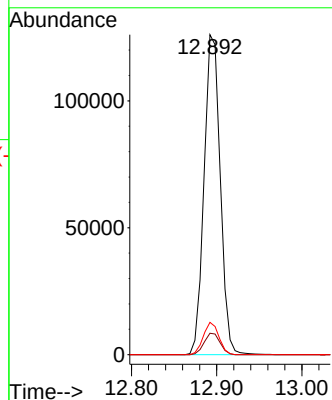


#79
Terphenyl-d14
Concen: 9.531 ng
RT: 12.892 min Scan# 1836
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

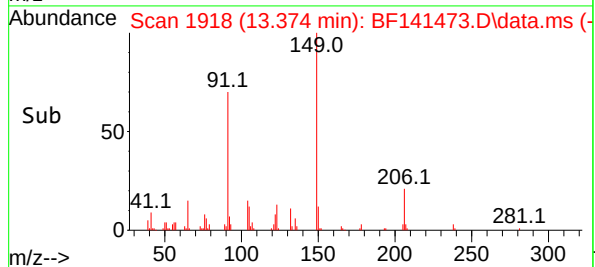
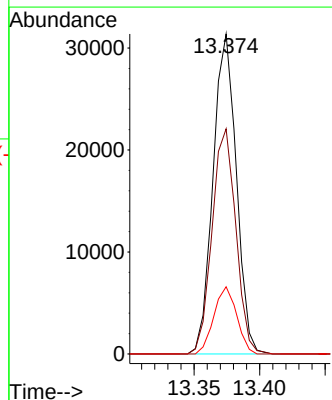
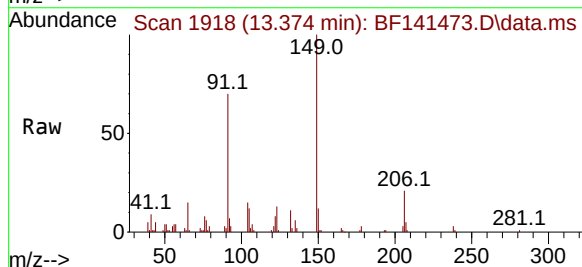


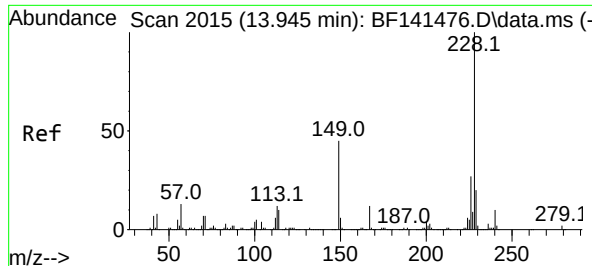
Tgt Ion:244 Resp: 166601
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 10.1 8.4 12.6



#80
Butylbenzylphthalate
Concen: 4.449 ng
RT: 13.374 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 38714
Ion Ratio Lower Upper
149 100
91 70.4 57.8 86.8
206 21.0 16.7 25.1





#81

Benzo(a)anthracene

Concen: 5.193 ng

RT: 13.939 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

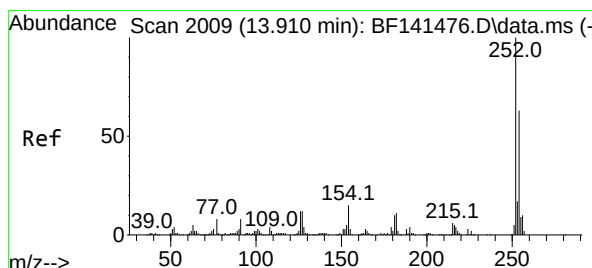
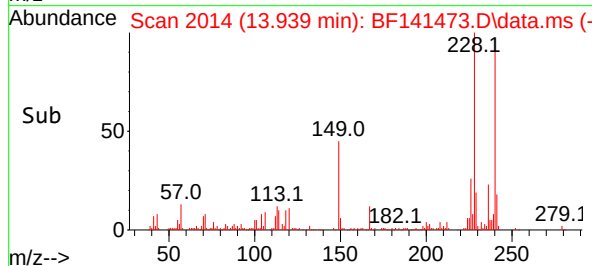
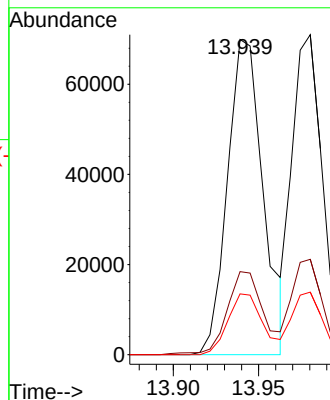
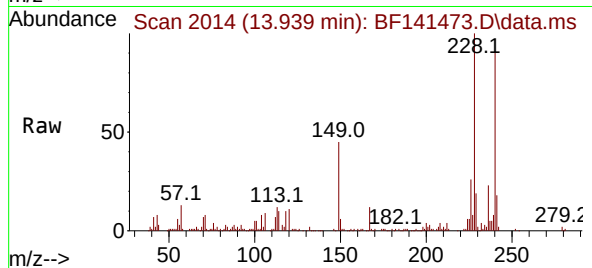
Tgt Ion:228 Resp: 101861

Ion Ratio Lower Upper

228 100

226 26.4 21.8 32.8

229 19.3 15.8 23.6



#82

3,3'-Dichlorobenzidine

Concen: 5.216 ng

RT: 13.910 min Scan# 2009

Delta R.T. -0.006 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

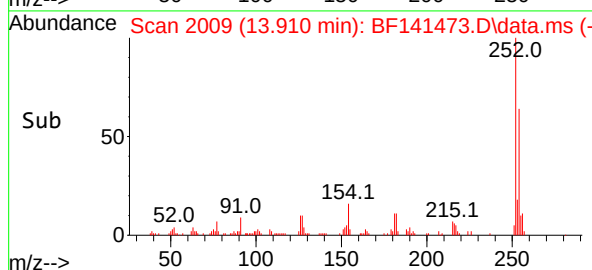
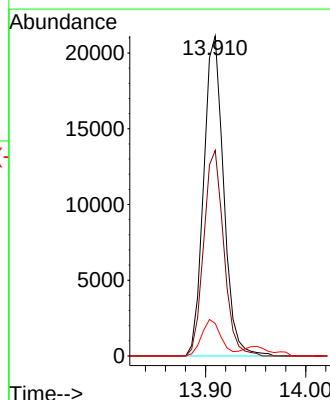
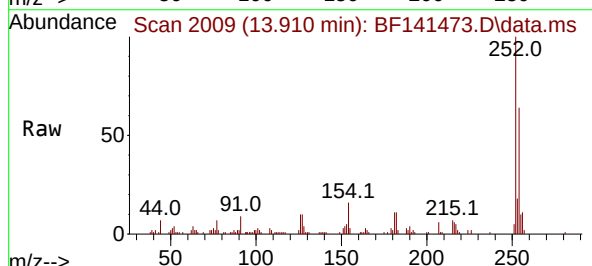
Tgt Ion:252 Resp: 29306

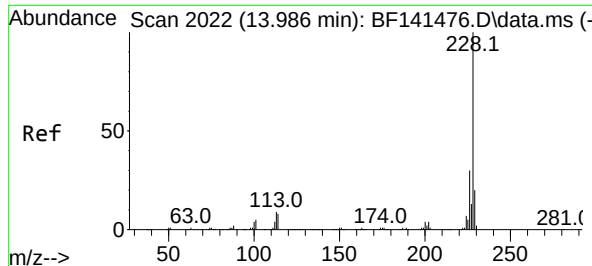
Ion Ratio Lower Upper

252 100

254 64.2 50.6 76.0

126 10.2 9.3 13.9

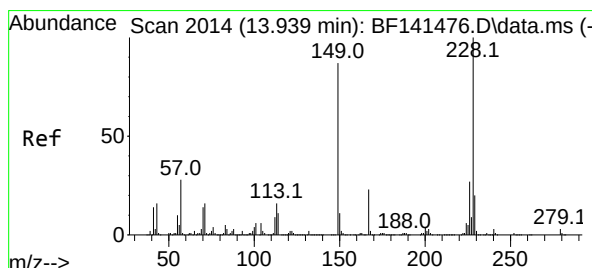
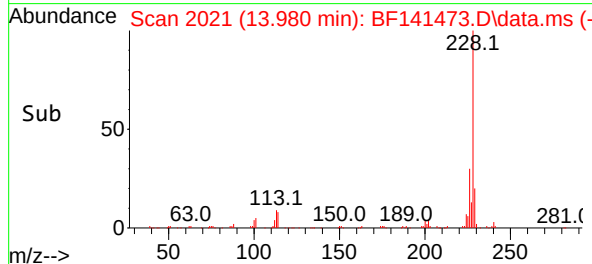
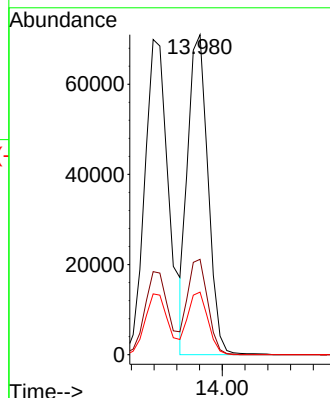
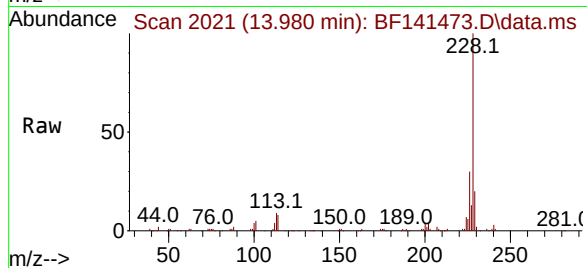




#83
Chrysene
Concen: 4.834 ng
RT: 13.980 min Scan# 2013
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

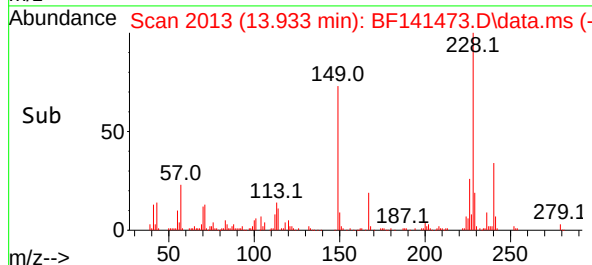
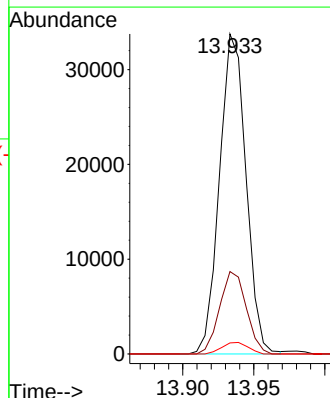
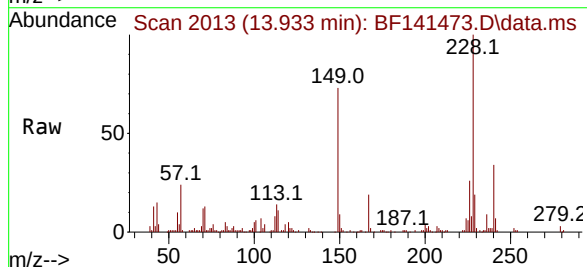
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

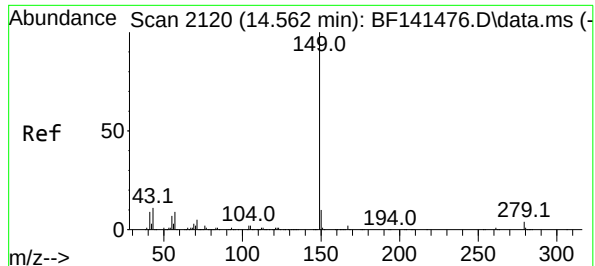
Tgt Ion	228	226	229
Resp:	87555		
Ion Ratio	100	29.8	19.5
Lower		24.0	15.7
Upper		36.0	23.5



#84
Bis(2-ethylhexyl)phthalate
Concen: 4.457 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion	149	167	279
Resp:	43735		
Ion Ratio	100	25.8	3.4
Lower		21.4	3.1
Upper		32.0	4.7

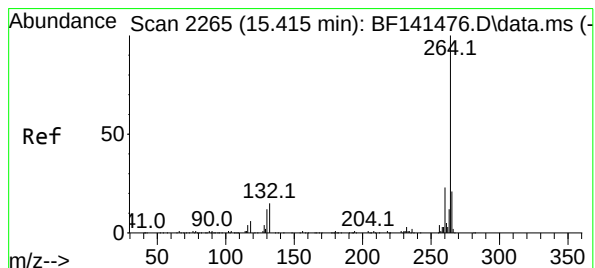
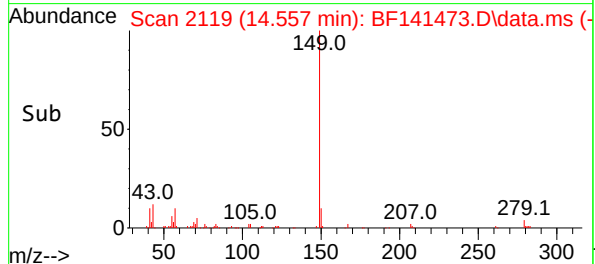
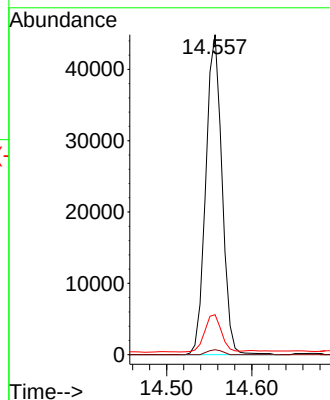
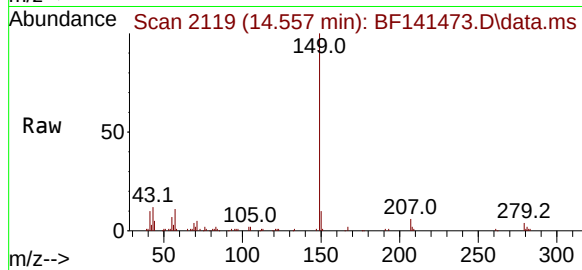




#85
Di-n-octyl phthalate
Concen: 4.229 ng
RT: 14.557 min Scan# 2119
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

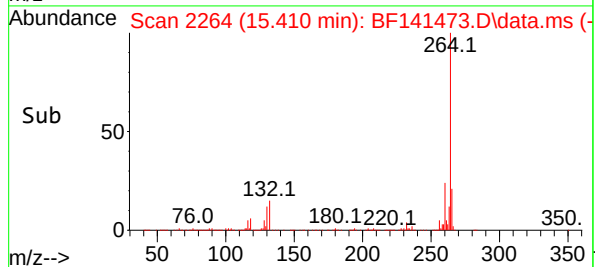
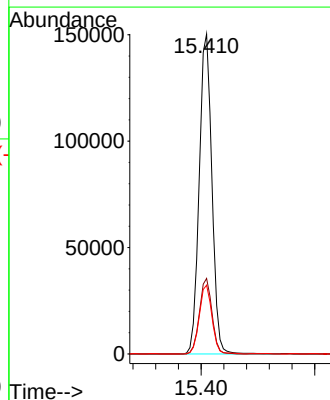
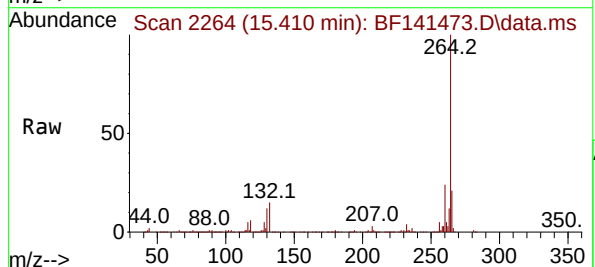
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

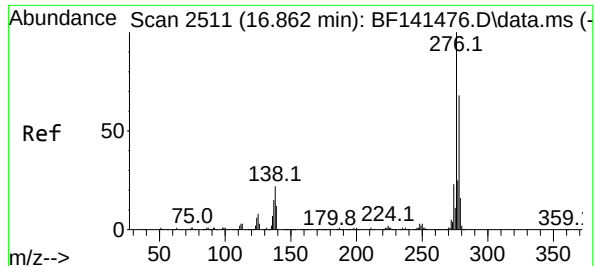
Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.3	1.9
43	12.0	9.5	14.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2264
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.5	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.993 ng

RT: 16.839 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

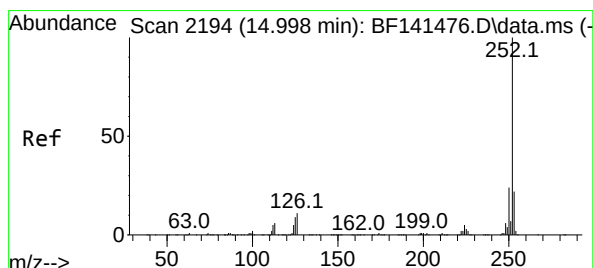
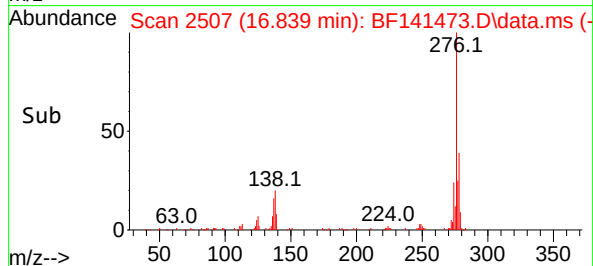
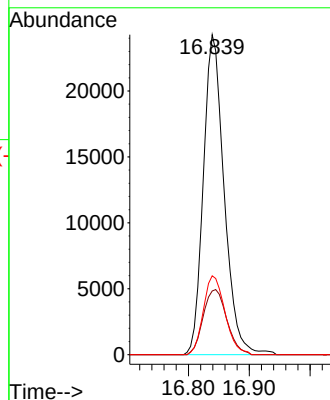
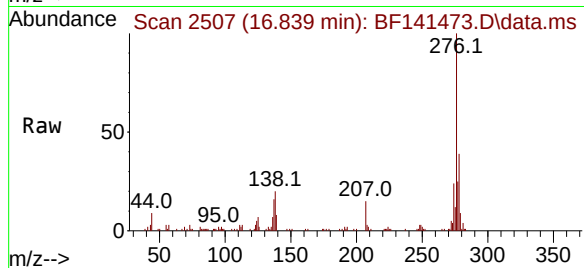
Tgt Ion:276 Resp: 57572

Ion Ratio Lower Upper

276 100

138 23.1 18.0 27.0

277 25.6 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 4.789 ng

RT: 14.986 min Scan# 2192

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

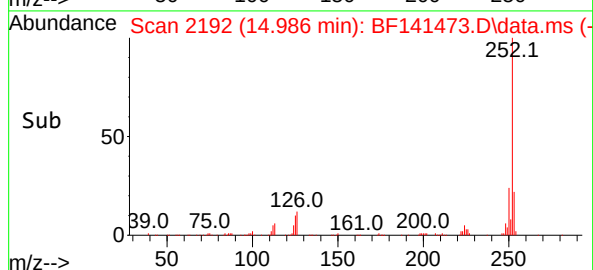
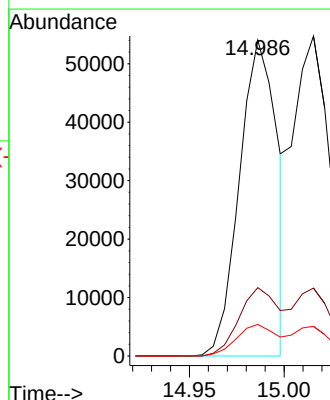
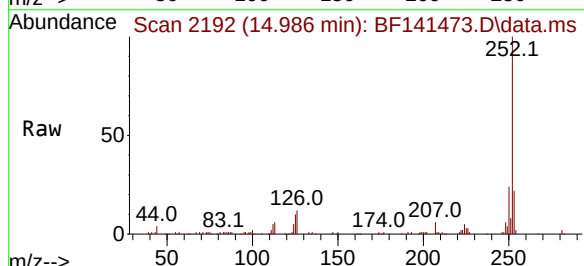
Tgt Ion:252 Resp: 75033

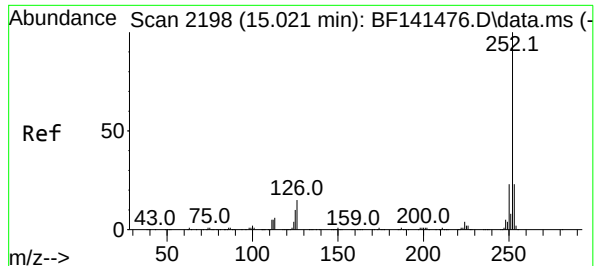
Ion Ratio Lower Upper

252 100

253 21.6 17.5 26.3

125 10.0 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 4.853 ng

RT: 15.016 min Scan# 2197

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

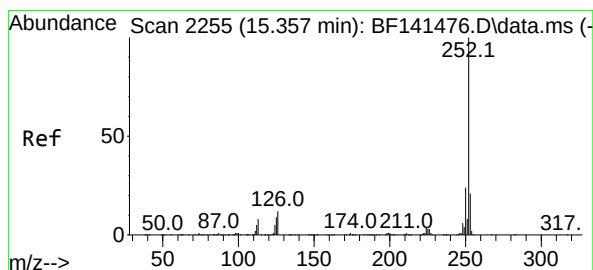
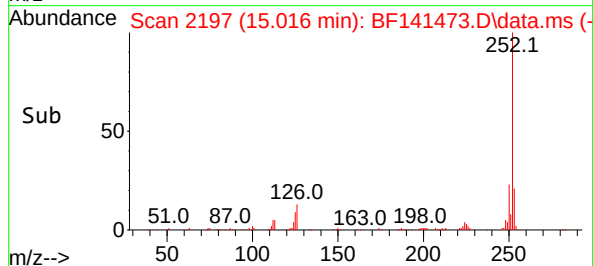
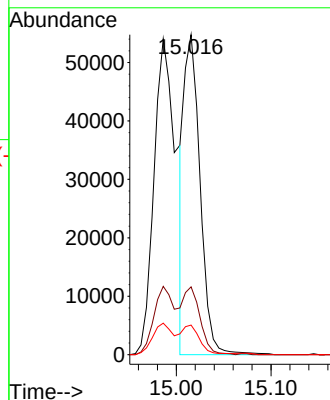
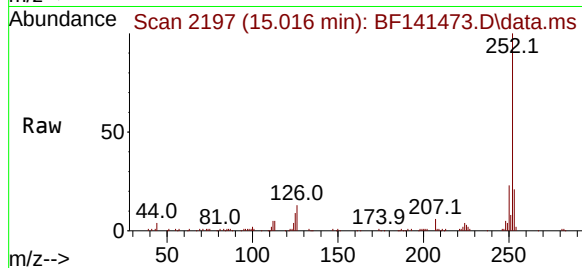
Tgt Ion:252 Resp: 64919

Ion Ratio Lower Upper

252 100

253 21.2 18.0 27.0

125 9.2 7.4 11.0



#90

Benzo(a)pyrene

Concen: 4.993 ng

RT: 15.345 min Scan# 2253

Delta R.T. -0.017 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

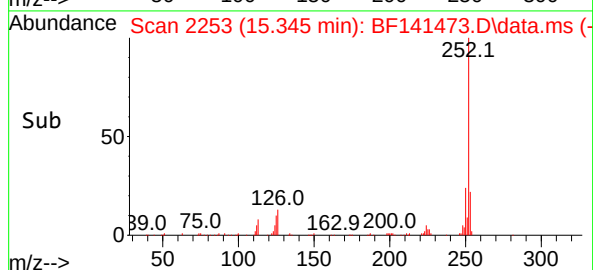
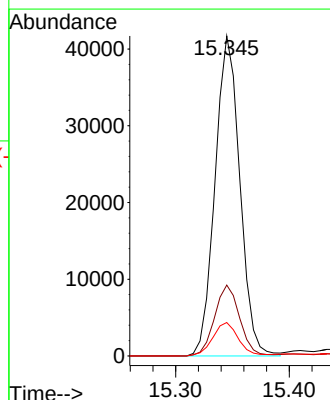
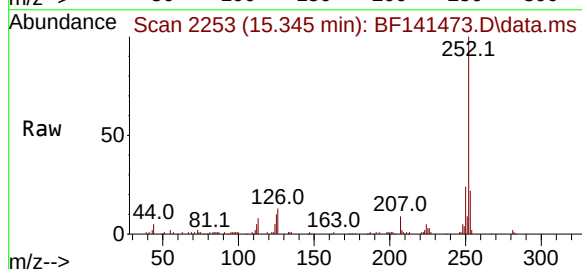
Tgt Ion:252 Resp: 63295

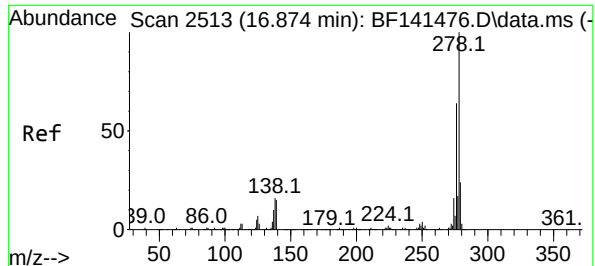
Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

125 10.4 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 3.974 ng

RT: 16.857 min Scan# 2510

Delta R.T. -0.035 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

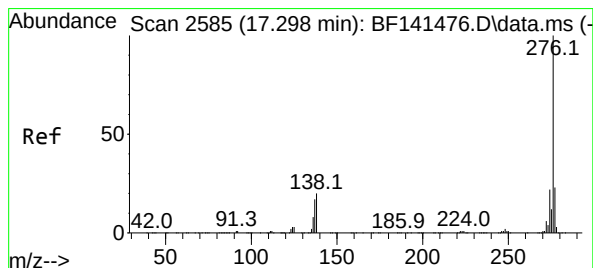
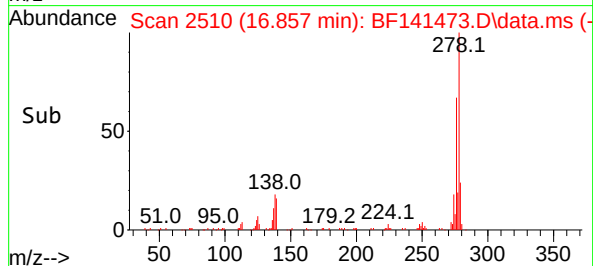
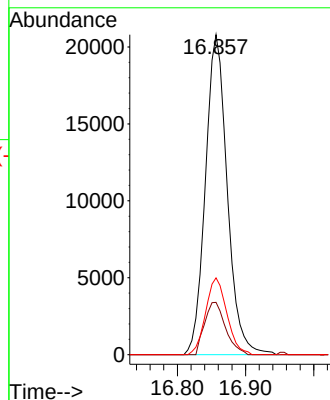
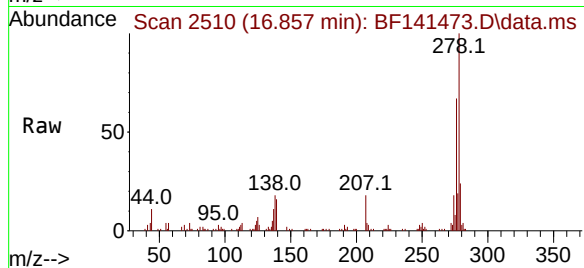
Tgt Ion:278 Resp: 46421

Ion Ratio Lower Upper

278 100

139 16.4 11.8 17.6

279 24.0 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 3.841 ng

RT: 17.274 min Scan# 2581

Delta R.T. -0.041 min

Lab File: BF141473.D

Acq: 06 Feb 2025 11:34

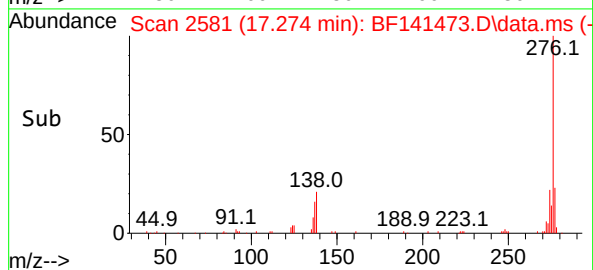
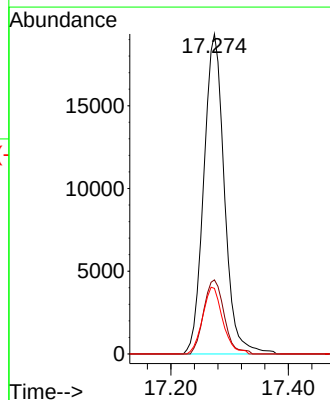
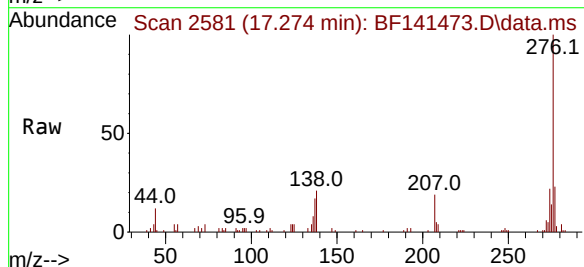
Tgt Ion:276 Resp: 46952

Ion Ratio Lower Upper

276 100

277 23.2 18.6 28.0

138 20.5 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141474.D
 Acq On : 06 Feb 2025 12:00
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC010

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	88879	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	361197	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	200046	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	347312	20.000	ng	0.00
76) Chrysene-d12	13.957	240	284792	20.000	ng	0.00
86) Perylene-d12	15.416	264	215900	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	114669	20.227	ng	0.00
7) Phenol-d6	6.422	99	144805	20.209	ng	-0.02
23) Nitrobenzene-d5	7.345	82	136996	19.783	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	40073	19.941	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	271988	20.947	ng	0.00
79) Terphenyl-d14	12.898	244	314541	18.645	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.481	88	23063	10.108	ng	95
3) Pyridine	3.216	79	53532	9.859	ng	99
4) n-Nitrosodimethylamine	3.146	42	34386	9.564	ng	# 97
6) Aniline	6.446	93	68661	10.215	ng	92
8) 2-Chlorophenol	6.575	128	62679	10.232	ng	99
9) Benzaldehyde	6.334	77	44111	11.585	ng	99
10) Phenol	6.440	94	74689	10.015	ng	96
11) bis(2-Chloroethyl)ether	6.522	93	54627	9.752	ng	98
12) 1,3-Dichlorobenzene	6.728	146	65850	10.182	ng	98
13) 1,4-Dichlorobenzene	6.804	146	68330	10.341	ng	97
14) 1,2-Dichlorobenzene	6.957	146	63948	10.428	ng	99
15) Benzyl Alcohol	6.928	79	55580	10.115	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	99782	10.406	ng	98
17) 2-Methylphenol	7.045	107	48375	10.092	ng	97
18) Hexachloroethane	7.298	117	24233	9.910	ng	98
19) n-Nitroso-di-n-propyla...	7.192	70	43762	10.210	ng	97
20) 3+4-Methylphenols	7.198	107	62949	10.332	ng	96
22) Acetophenone	7.192	105	90614	10.085	ng	# 97
24) Nitrobenzene	7.363	77	67032	9.927	ng	96
25) Isophorone	7.604	82	107242	9.712	ng	99
26) 2-Nitrophenol	7.687	139	31590	9.403	ng	97
27) 2,4-Dimethylphenol	7.728	122	38303	9.759	ng	98
28) bis(2-Chloroethoxy)met...	7.816	93	70458	9.958	ng	97
29) 2,4-Dichlorophenol	7.934	162	51883	9.784	ng	99
30) 1,2,4-Trichlorobenzene	8.010	180	57937	10.033	ng	97
31) Naphthalene	8.092	128	188046	10.002	ng	99
32) Benzoic acid	7.810	122	33645	8.253	ng	98
33) 4-Chloroaniline	8.145	127	63529	9.678	ng	98
34) Hexachlorobutadiene	8.210	225	34431	9.932	ng	98
35) Caprolactam	8.481	113	15331	9.495	ng	98
36) 4-Chloro-3-methylphenol	8.628	107	58441	9.949	ng	99
37) 2-Methylnaphthalene	8.781	142	124517	10.177	ng	99
38) 1-Methylnaphthalene	8.881	142	118722	10.019	ng	98
40) 1,2,4,5-Tetrachloroben...	8.945	216	58800	10.160	ng	98
41) Hexachlorocyclopentadiene	8.934	237	13785	7.161	ng	91
43) 2,4,6-Trichlorophenol	9.063	196	36558	9.773	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141474.D
 Acq On : 06 Feb 2025 12:00
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025

Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:18 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Feb 06 15:49:10 2025

Response via : Initial Calibration

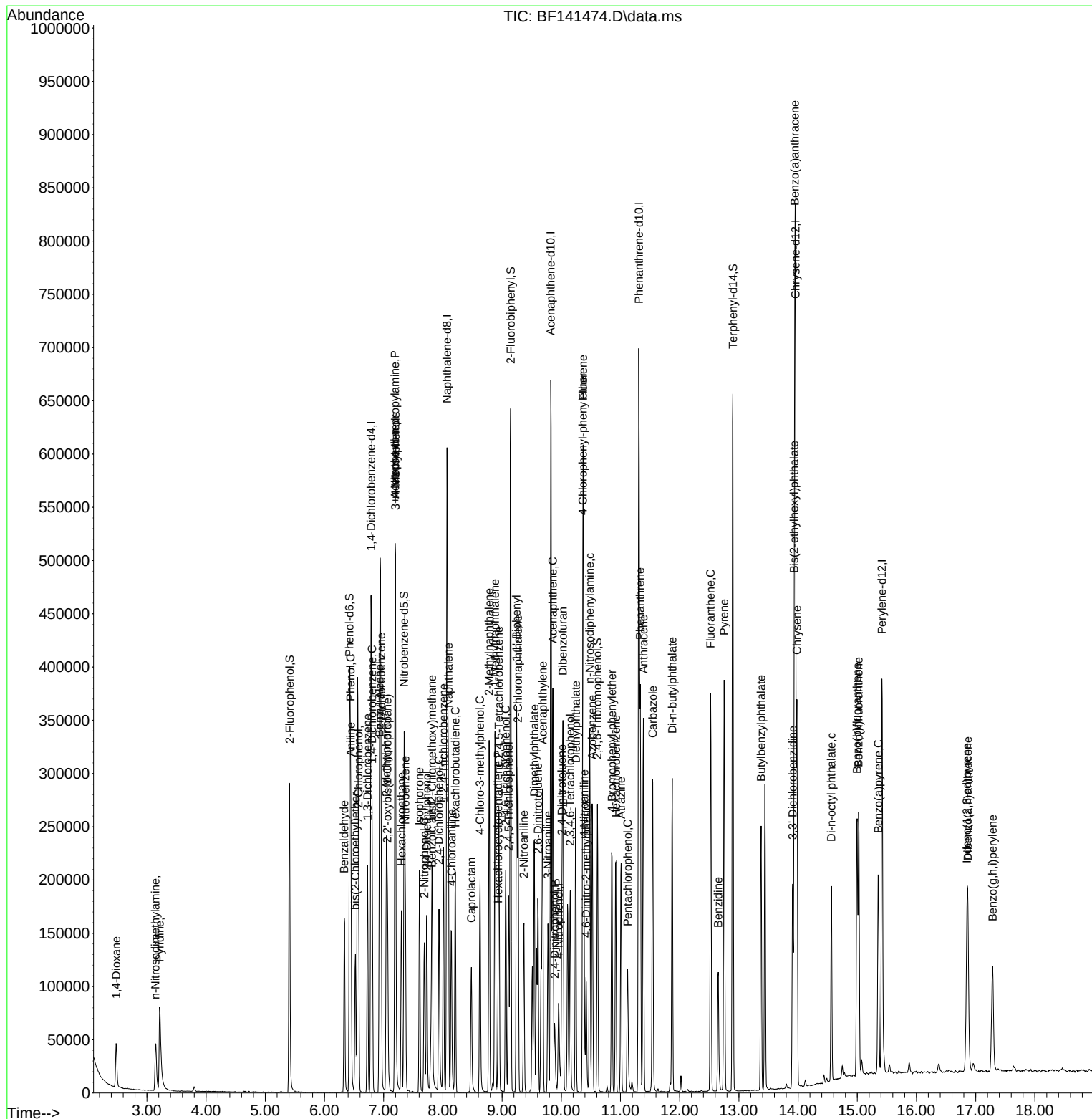
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	40697	10.039	ng	97
46) 1,1'-Biphenyl	9.245	154	156431	10.086	ng	99
47) 2-Chloronaphthalene	9.269	162	116119	10.125	ng	99
48) 2-Nitroaniline	9.369	65	37155	9.653	ng	96
49) Acenaphthylene	9.686	152	173644	10.179	ng	99
50) Dimethylphthalate	9.545	163	135886	10.006	ng	100
51) 2,6-Dinitrotoluene	9.604	165	29006	9.770	ng	96
52) Acenaphthene	9.857	154	116461m	10.155	ng	
53) 3-Nitroaniline	9.775	138	31330	9.805	ng	100
54) 2,4-Dinitrophenol	9.886	184	13341	7.561	ng	98
55) Dibenzofuran	10.028	168	172206	10.230	ng	98
56) 4-Nitrophenol	9.957	139	21569	9.093	ng	96
57) 2,4-Dinitrotoluene	10.010	165	40306	10.198	ng	93
58) Fluorene	10.369	166	136110	10.458	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	36102	10.344	ng	# 96
60) Diethylphthalate	10.245	149	134593	10.073	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	64305	10.270	ng	97
62) 4-Nitroaniline	10.386	138	31934	9.842	ng	98
63) Azobenzene	10.522	77	132968	10.010	ng	99
65) 4,6-Dinitro-2-methylph...	10.422	198	20074	8.320	ng	98
66) n-Nitrosodiphenylamine	10.481	169	113408	10.201	ng	98
67) 4-Bromophenyl-phenylether	10.857	248	38257	9.856	ng	97
68) Hexachlorobenzene	10.922	284	40715	10.186	ng	98
69) Atrazine	11.010	200	35287	10.580	ng	98
70) Pentachlorophenol	11.122	266	22735	8.895	ng	98
71) Phenanthrene	11.333	178	196586	10.283	ng	99
72) Anthracene	11.386	178	195528	10.174	ng	99
73) Carbazole	11.545	167	178223	10.306	ng	99
74) Di-n-butylphthalate	11.875	149	200806	10.057	ng	100
75) Fluoranthene	12.522	202	215218	10.618	ng	99
77) Benzidine	12.651	184	69402	11.050	ng	98
78) Pyrene	12.751	202	221721	9.146	ng	99
80) Butylbenzylphthalate	13.374	149	76852	9.152	ng	100
81) Benzo(a)anthracene	13.945	228	189705	10.021	ng	99
82) 3,3'-Dichlorobenzidine	13.910	252	58487	10.785	ng	99
83) Chrysene	13.980	228	174103	9.960	ng	98
84) Bis(2-ethylhexyl)phtha...	13.933	149	86853	9.171	ng	98
85) Di-n-octyl phthalate	14.563	149	115875	8.576	ng	100
87) Indeno(1,2,3-cd)pyrene	16.851	276	111083	8.327	ng	98
88) Benzo(b)fluoranthene	14.998	252	151861	10.476	ng	98
89) Benzo(k)fluoranthene	15.021	252	131265	10.604	ng	99
90) Benzo(a)pyrene	15.357	252	115948	9.885	ng	99
91) Dibenzo(a,h)anthracene	16.868	278	89400	8.271	ng	99
92) Benzo(g,h,i)perylene	17.286	276	93242	8.243	ng	99

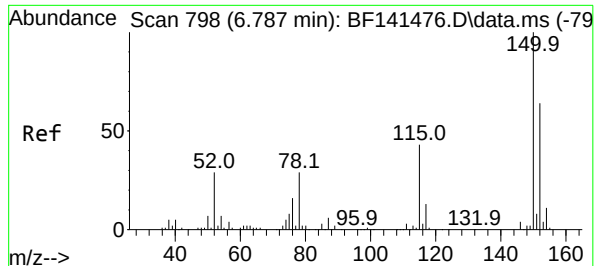
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

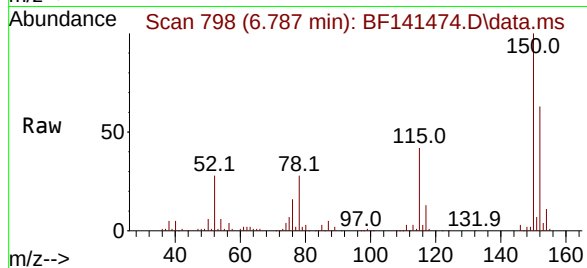
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

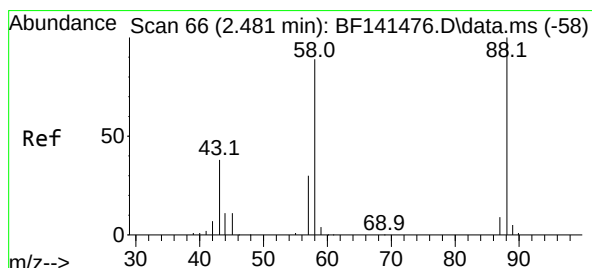
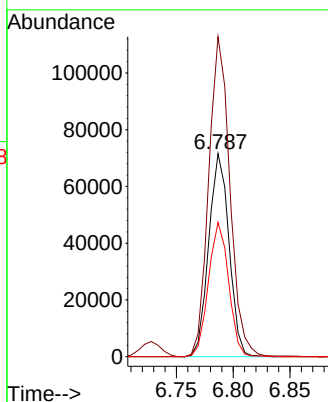
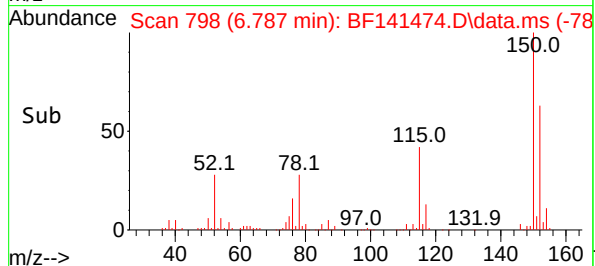
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:152 Resp: 88879
Ion Ratio Lower Upper
152 100
150 157.6 125.0 187.4
115 66.1 53.6 80.4

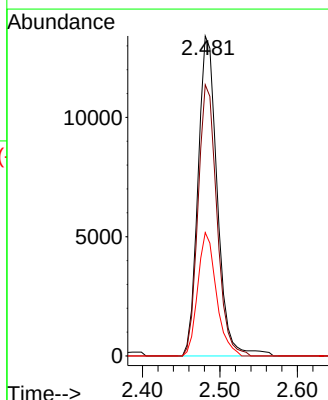
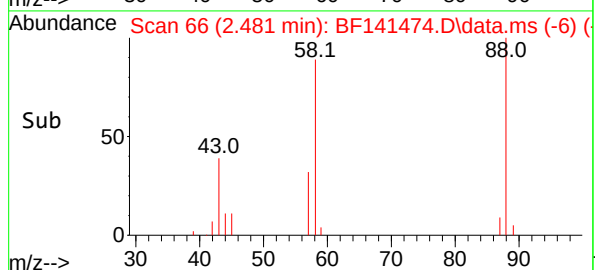
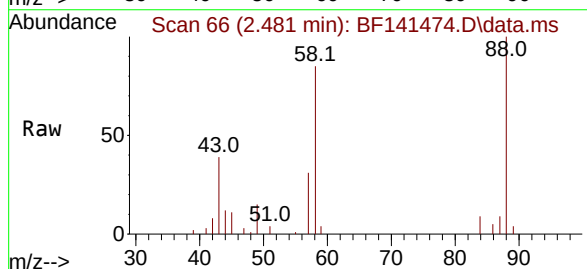
Manual Integrations
APPROVED

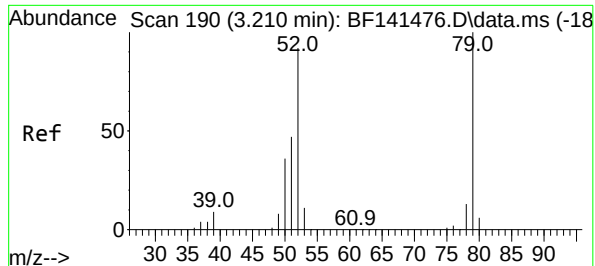
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#2
1,4-Dioxane
Concen: 10.108 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 88 Resp: 23063
Ion Ratio Lower Upper
88 100
58 83.0 71.1 106.7
43 37.3 30.6 46.0





#3

Pyridine

Concen: 9.859 ng

RT: 3.216 min Scan# 190

Delta R.T. 0.000 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

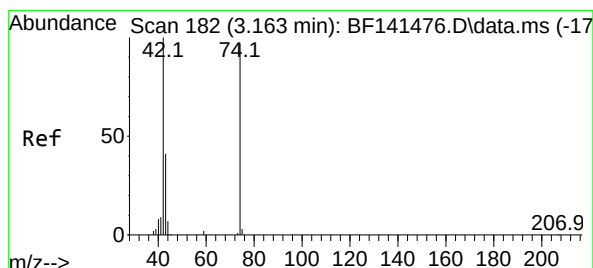
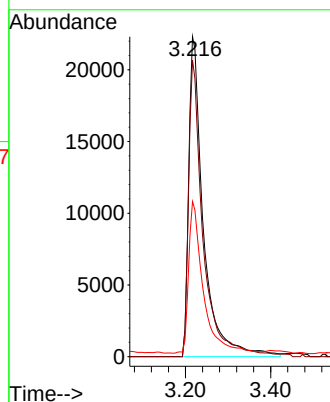
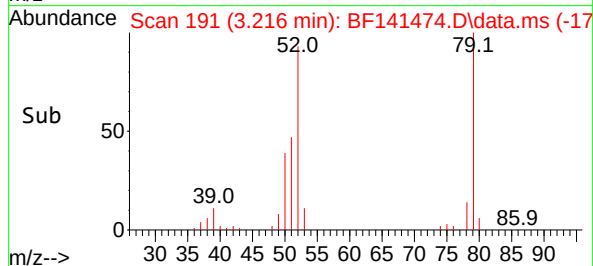
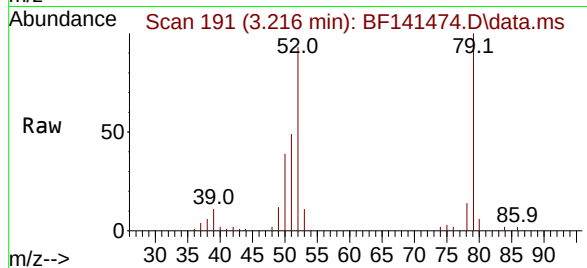
SSTDICC010

Tgt Ion:	79	Resp:	5353
Ion	Ratio	Lower	Upper
79	100		
52	92.7	73.7	110.5
51	48.5	37.5	56.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#4

n-Nitrosodimethylamine

Concen: 9.564 ng

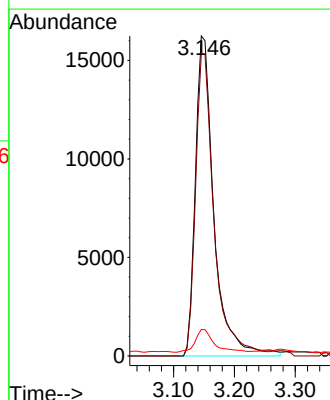
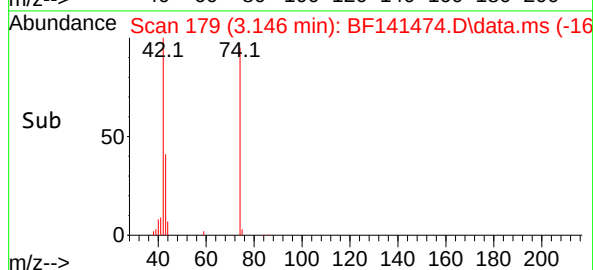
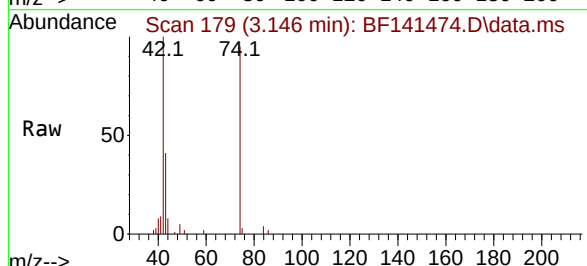
RT: 3.146 min Scan# 179

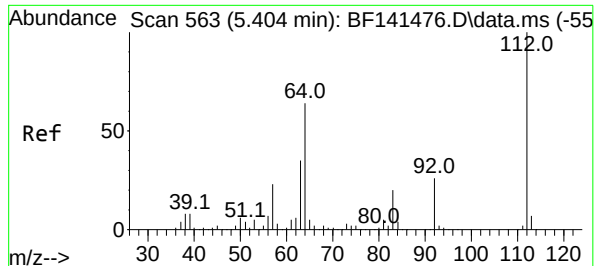
Delta R.T. -0.041 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

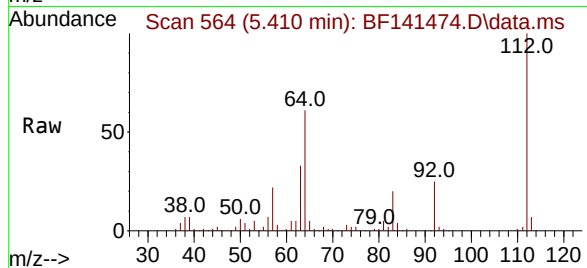
Tgt Ion:	42	Resp:	34386
Ion	Ratio	Lower	Upper
42	100		
74	94.6	78.0	117.0
44	8.3	5.4	8.2





#5
2-Fluorophenol
Concen: 20.227 ng
RT: 5.410 min Scan# 50
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

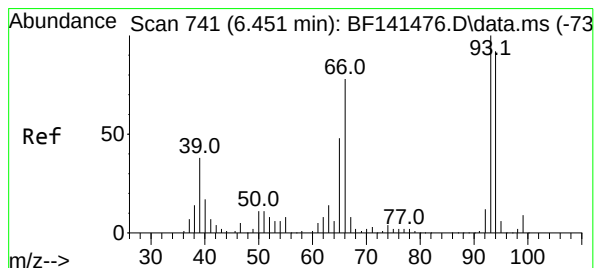
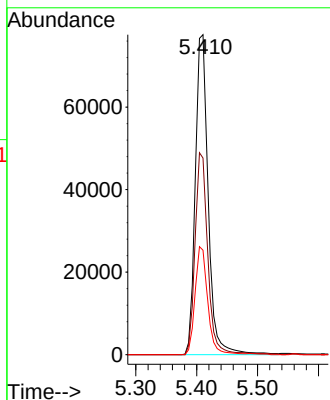
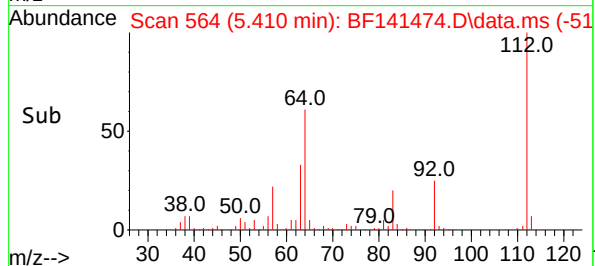
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:112 Resp: 114669
Ion Ratio Lower Upper
112 100
64 61.5 51.1 76.7
63 32.6 28.4 42.6

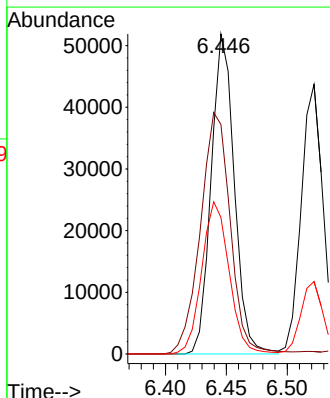
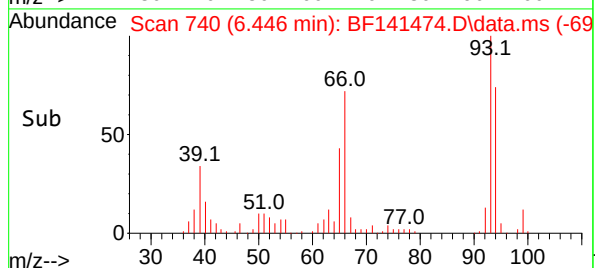
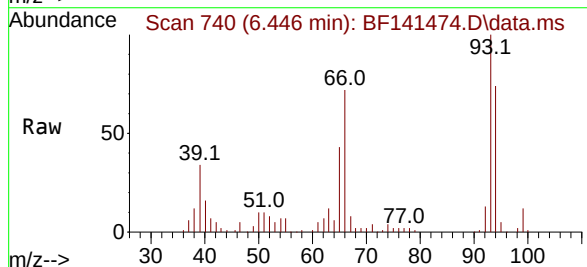
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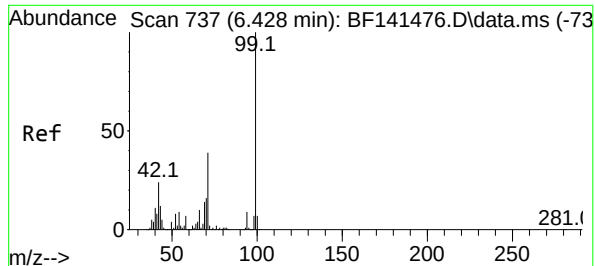
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#6
Aniline
Concen: 10.215 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 68661
Ion Ratio Lower Upper
93 100
66 71.7 62.6 94.0
65 42.7 38.3 57.5





#7

Phenol-d6

Concen: 20.209 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.017 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion: 99 Resp: 14480

Ion Ratio Lower Upper

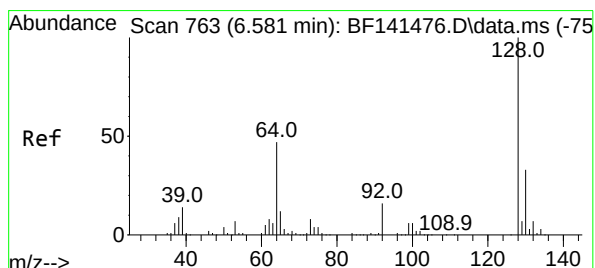
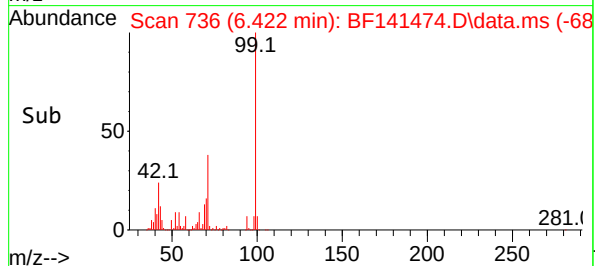
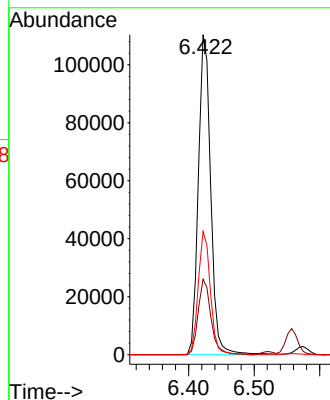
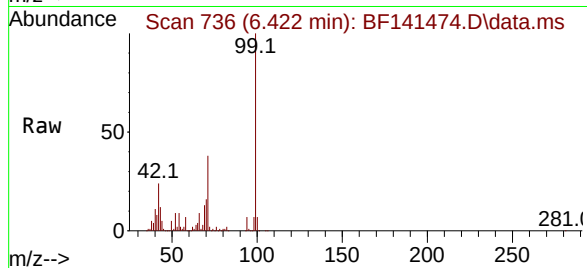
99 100

42 23.6 19.1 28.7

71 38.5 31.1 46.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#8

2-Chlorophenol

Concen: 10.232 ng

RT: 6.575 min Scan# 762

Delta R.T. -0.012 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

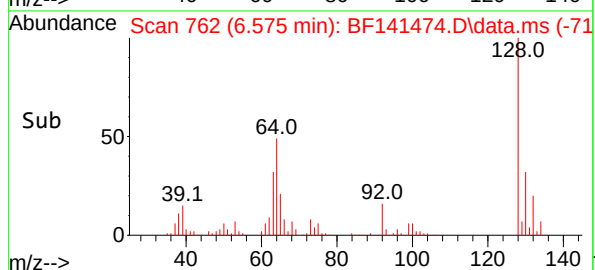
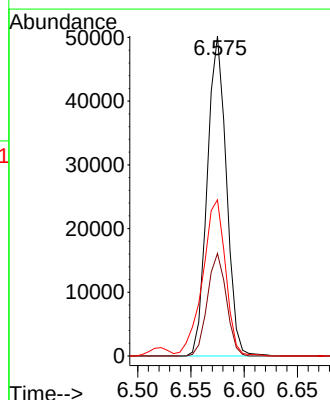
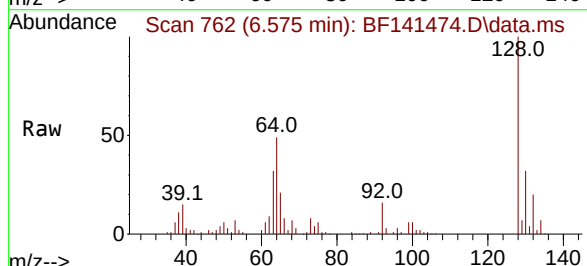
Tgt Ion:128 Resp: 62679

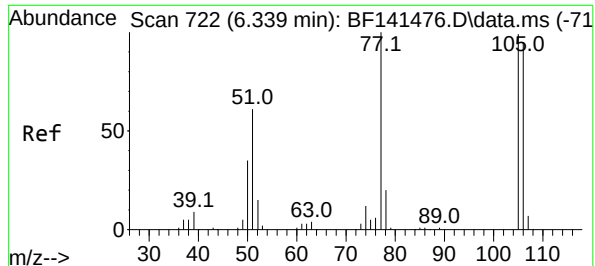
Ion Ratio Lower Upper

128 100

130 32.0 12.7 52.7

64 48.8 28.3 68.3





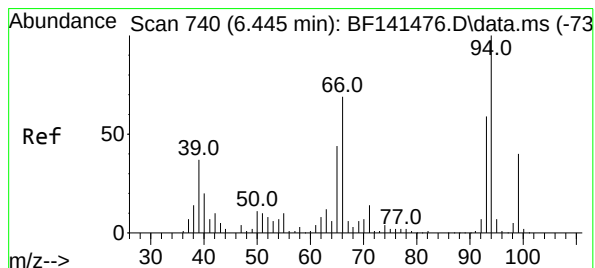
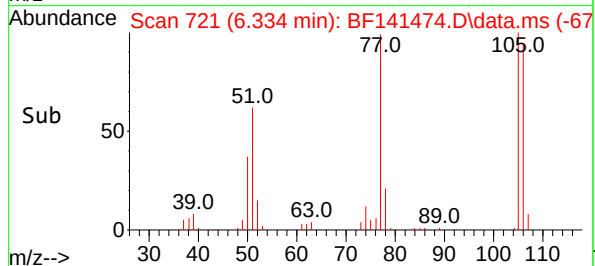
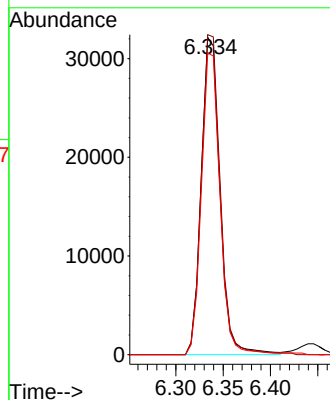
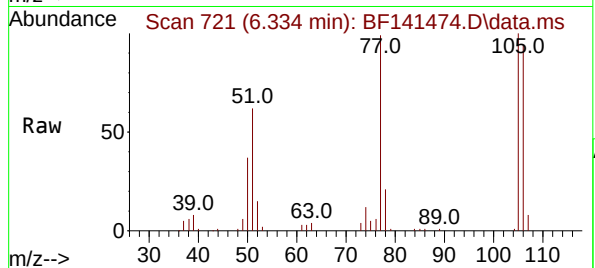
#9
Benzaldehyde
Concen: 11.585 ng
RT: 6.334 min Scan# 711
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 4411
Ion Ratio Lower Upper
77 100
105 100.9 79.4 119.4
106 95.1 75.1 115.1

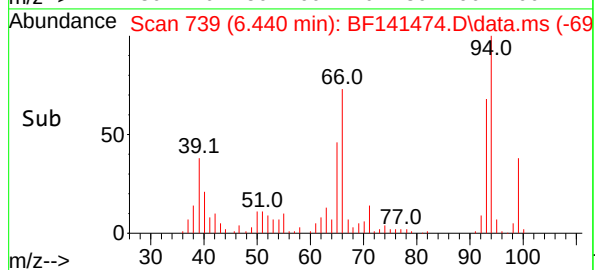
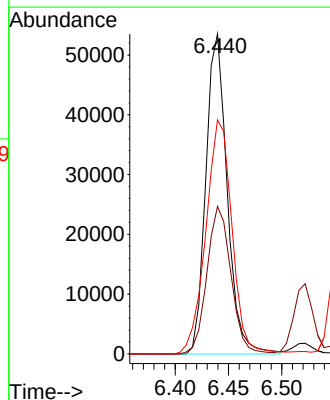
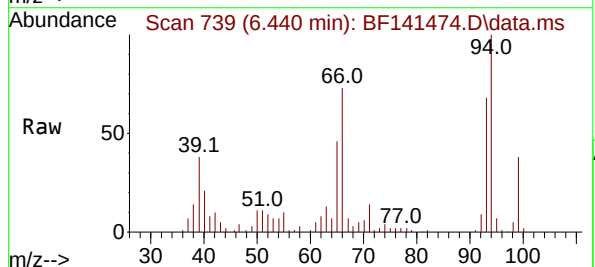
Manual Integrations
APPROVED

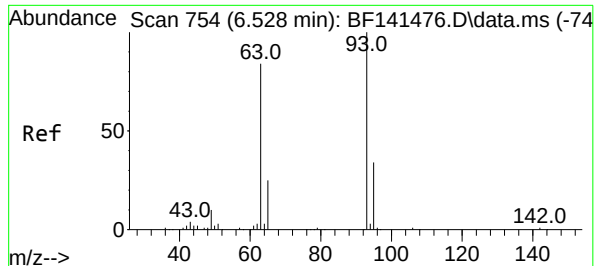
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#10
Phenol
Concen: 10.015 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 94 Resp: 74689
Ion Ratio Lower Upper
94 100
65 46.1 23.7 63.7
66 73.1 49.3 89.3





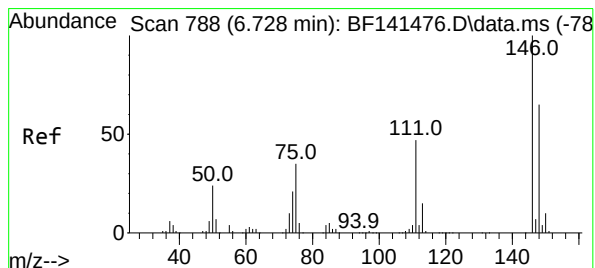
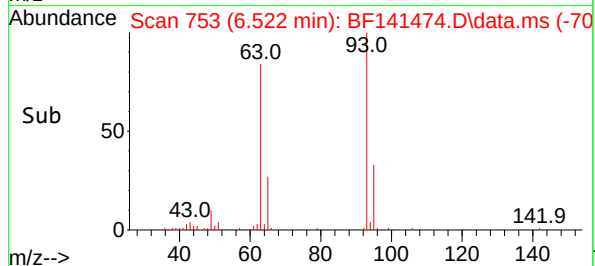
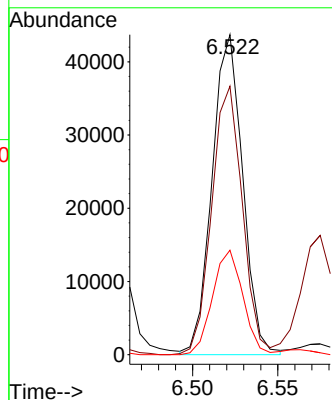
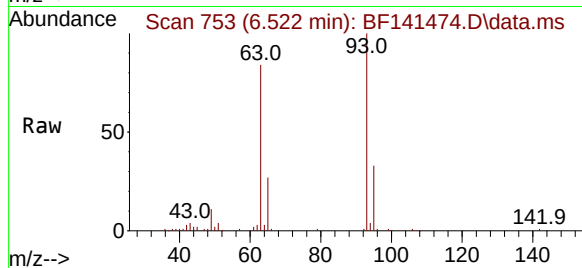
#11
bis(2-Chloroethyl)ether
Concen: 9.752 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 5462
Ion Ratio Lower Upper
93 100
63 83.9 62.0 102.0
95 32.6 12.6 52.6

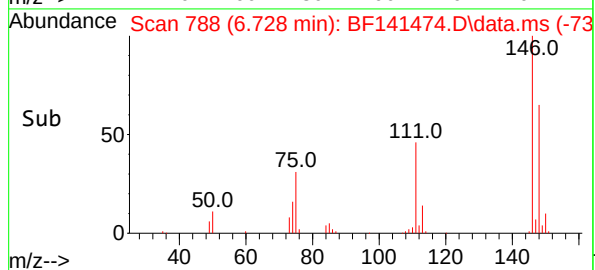
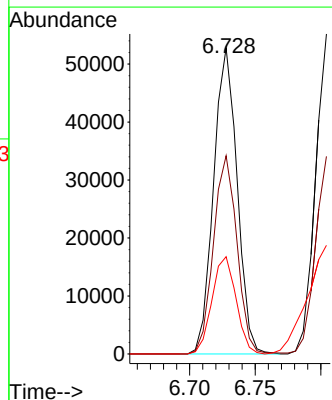
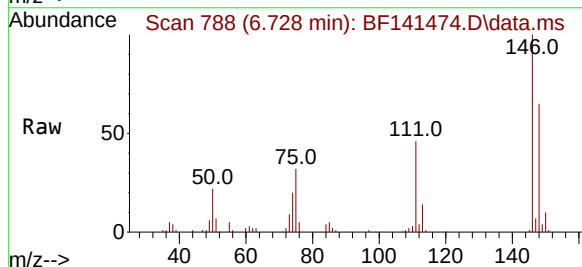
Manual Integrations
APPROVED

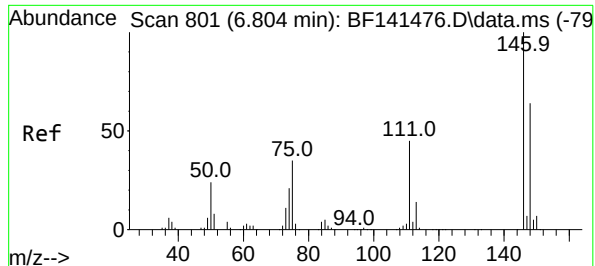
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#12
1,3-Dichlorobenzene
Concen: 10.182 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 65850
Ion Ratio Lower Upper
146 100
148 64.8 51.9 77.9
75 31.8 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 10.341 ng

RT: 6.804 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDIC010

Tgt Ion:146 Resp: 68330

Ion Ratio Lower Upper

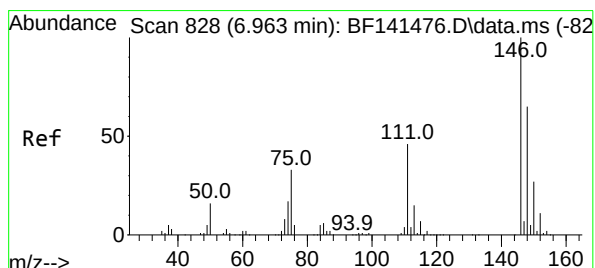
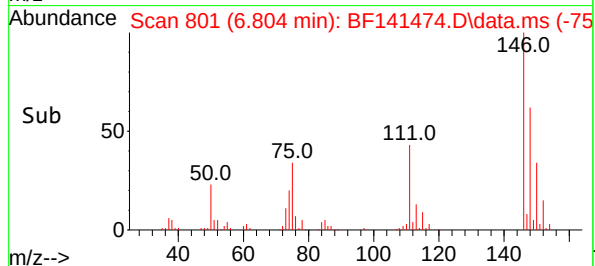
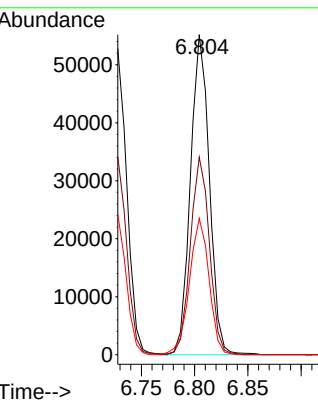
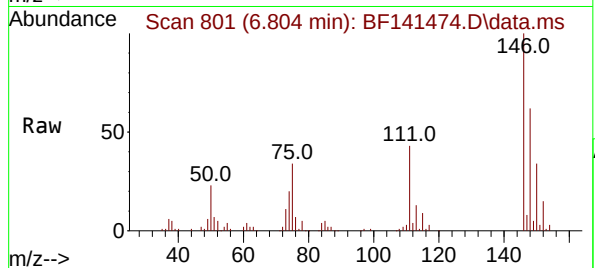
146 100

148 61.7 50.9 76.3

111 42.6 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#14

1,2-Dichlorobenzene

Concen: 10.428 ng

RT: 6.957 min Scan# 827

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

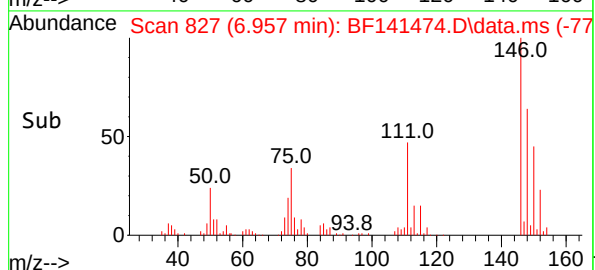
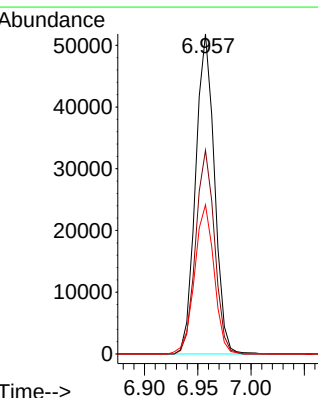
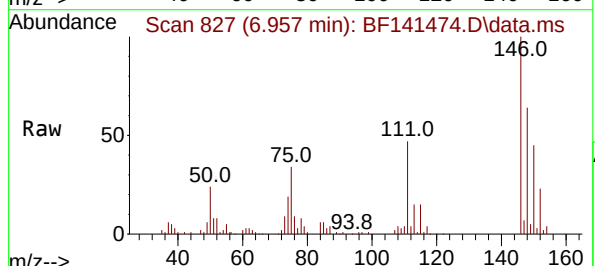
Tgt Ion:146 Resp: 63948

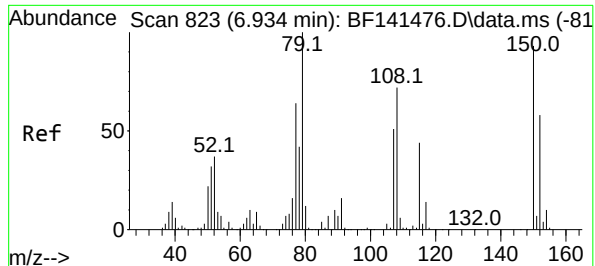
Ion Ratio Lower Upper

146 100

148 63.7 51.8 77.6

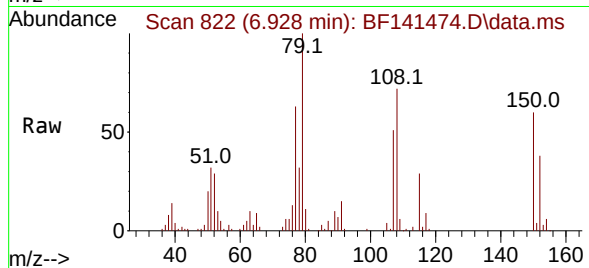
111 46.6 37.0 55.4





#15
Benzyl Alcohol
Concen: 10.115 ng
RT: 6.928 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

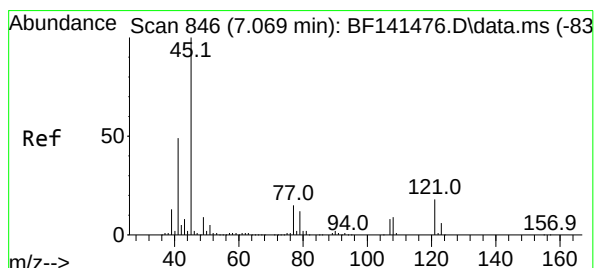
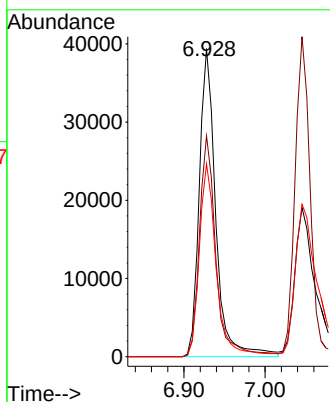
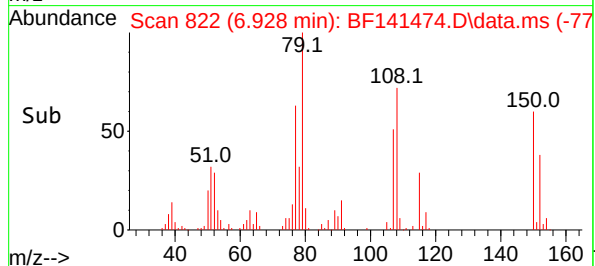
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



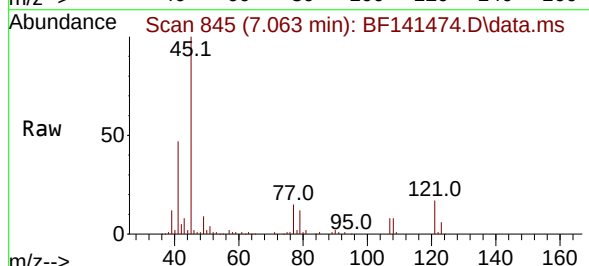
Tgt Ion: 79 Resp: 55580
Ion Ratio Lower Upper
79 100
108 71.7 57.4 86.2
77 62.6 50.9 76.3

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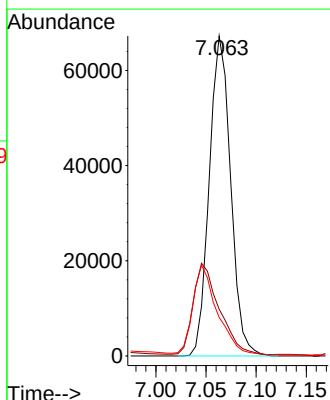
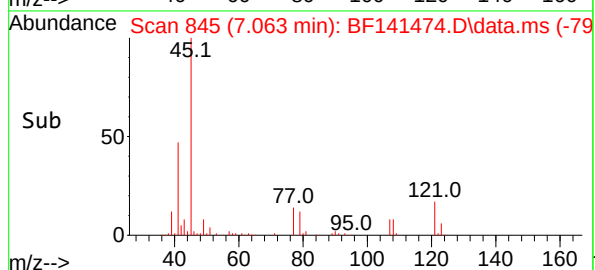
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

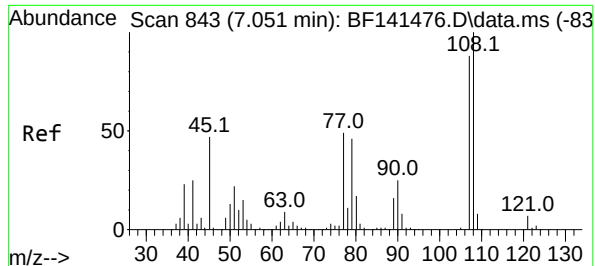


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.406 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



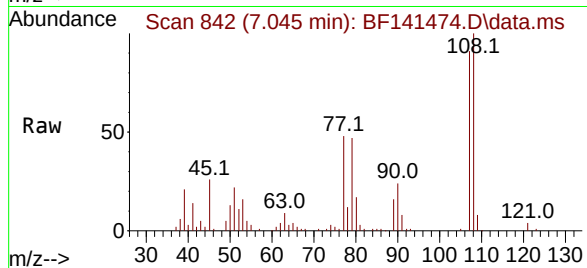
Tgt Ion: 45 Resp: 99782
Ion Ratio Lower Upper
45 100
77 14.6 0.0 35.8
79 12.1 0.0 32.7





#17
2-Methylphenol
Concen: 10.092 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

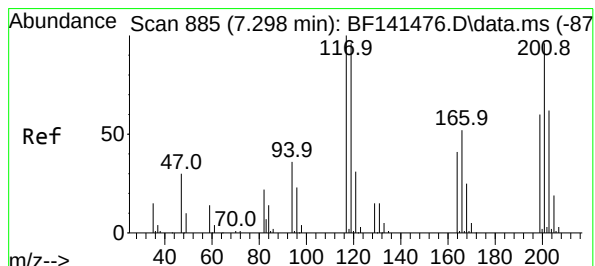
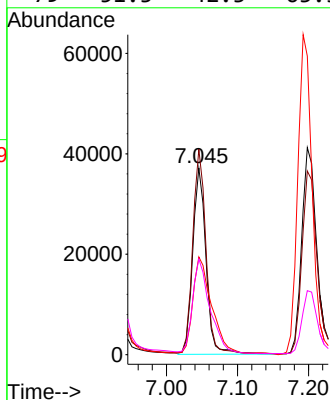
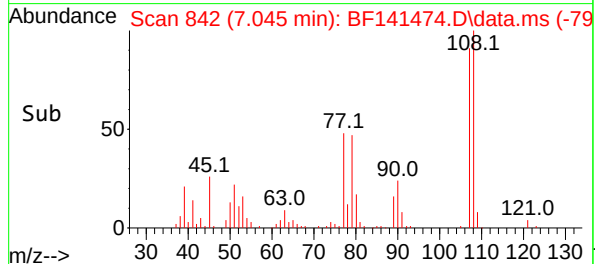
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:107 Resp: 4837
Ion Ratio Lower Upper
107 100
108 110.1 90.6 136.0
77 52.4 44.4 66.6
79 51.3 42.3 63.5

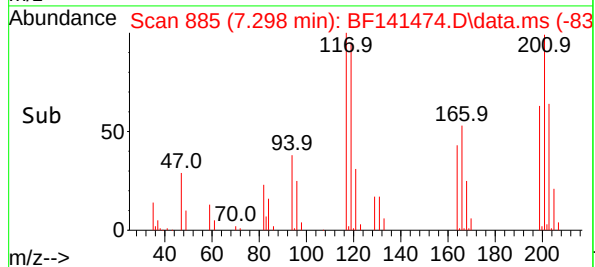
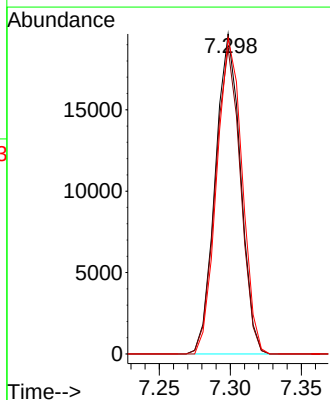
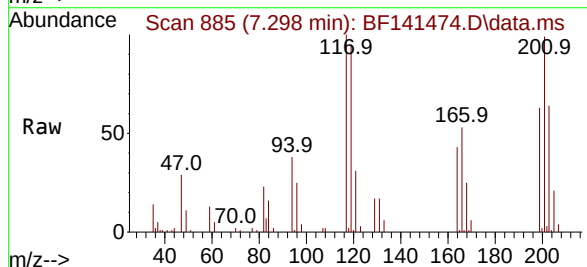
Manual Integrations
APPROVED

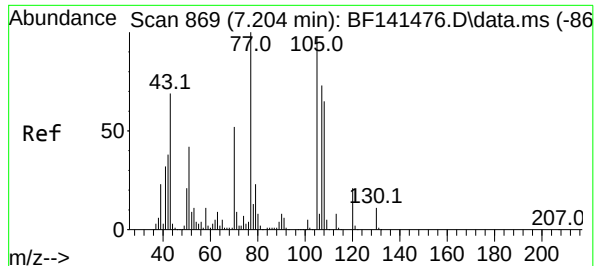
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#18
Hexachloroethane
Concen: 9.910 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:117 Resp: 24233
Ion Ratio Lower Upper
117 100
119 95.5 76.5 114.7
201 98.8 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 10.210 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.023 min

Lab File: BF141474.D

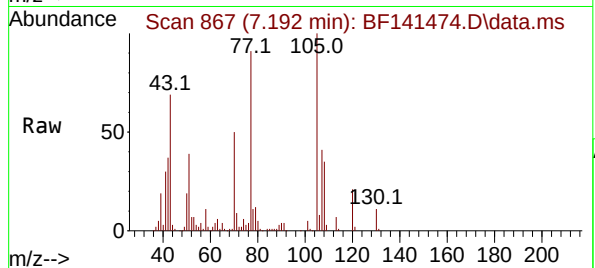
Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010



Tgt Ion: 70 Resp: 43762

Ion Ratio Lower Upper

70 100

42 75.4 57.4 86.2

101 9.5 8.0 12.0

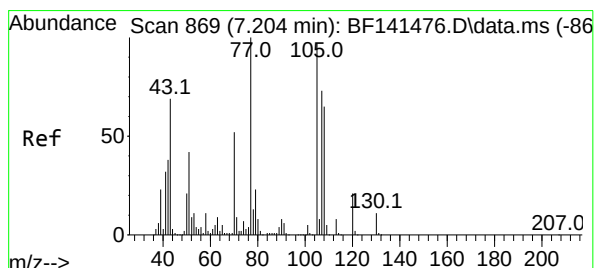
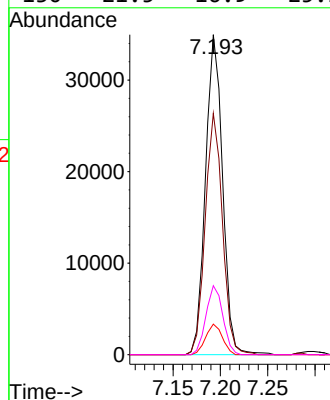
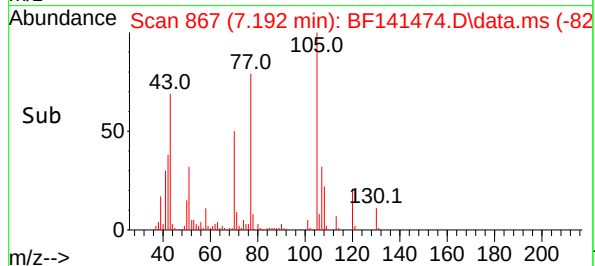
130 21.5 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025

Supervised By :mohammad ahmed 02/07/2025



#20

3+4-Methylphenols

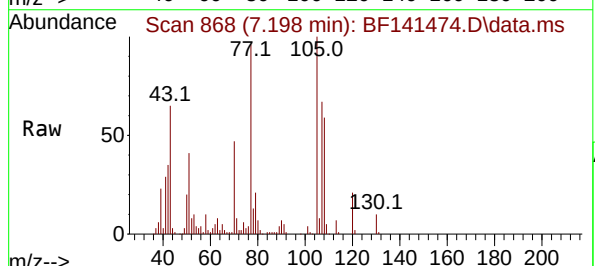
Concen: 10.332 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.017 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00



Tgt Ion:107 Resp: 62949

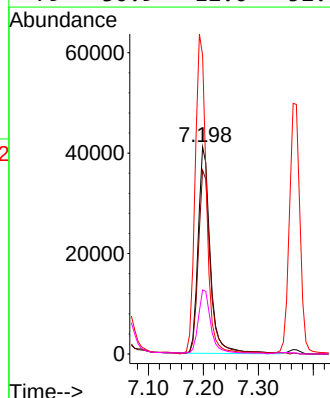
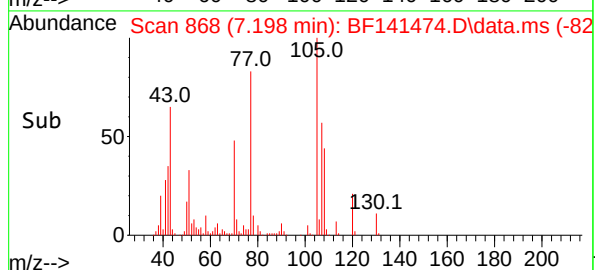
Ion Ratio Lower Upper

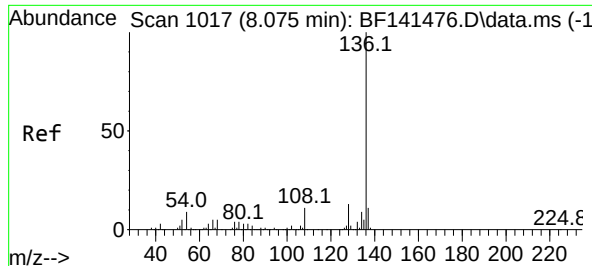
107 100

108 88.7 68.5 108.5

77 144.2 116.5 156.5

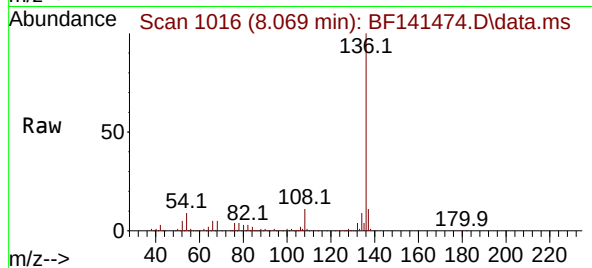
79 30.9 12.0 52.0





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

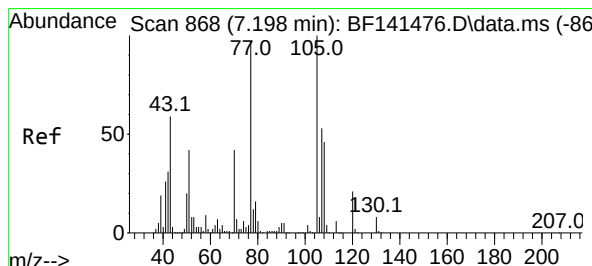
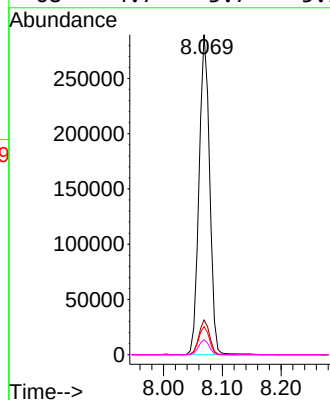
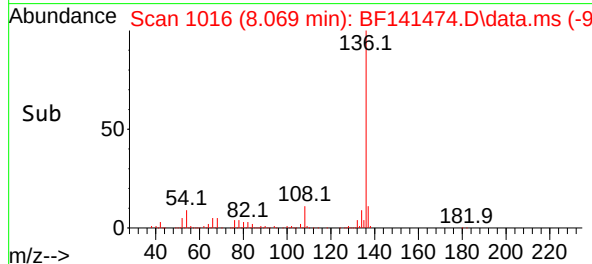
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:136 Resp: 36119
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 8.8 7.2 10.8
68 4.7 3.7 5.5

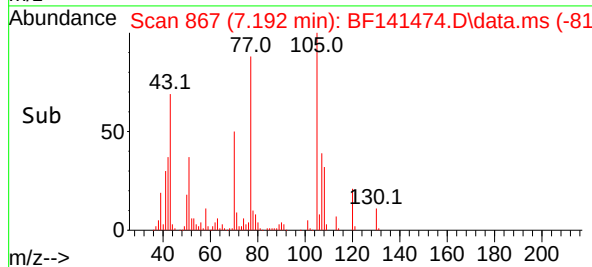
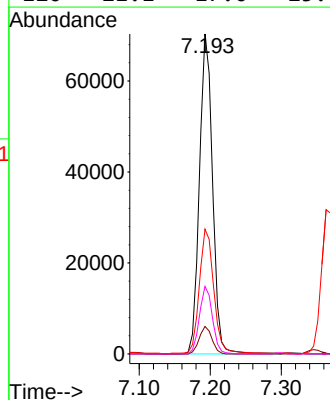
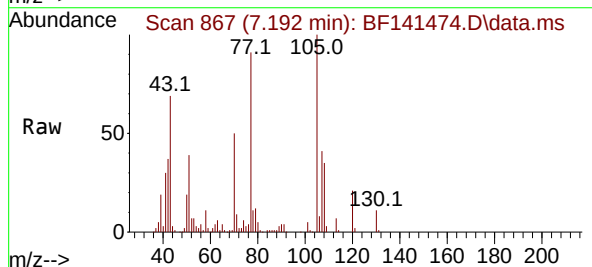
Manual Integrations
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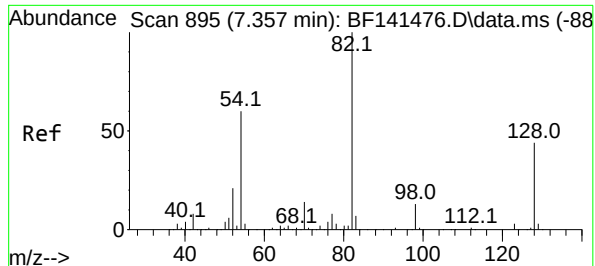
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#22
Acetophenone
Concen: 10.085 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:105 Resp: 90614
Ion Ratio Lower Upper
105 100
71 8.6 5.7 8.5#
51 39.0 33.7 50.5
120 21.1 17.0 25.6





#23

Nitrobenzene-d5

Concen: 19.783 ng

RT: 7.345 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion: 82 Resp: 136990

Ion Ratio Lower Upper

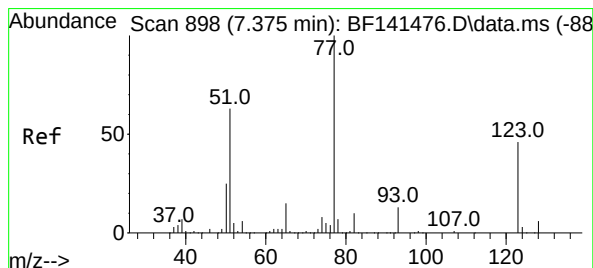
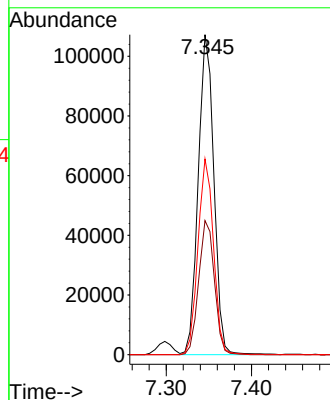
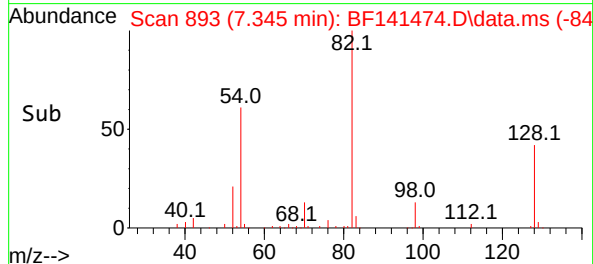
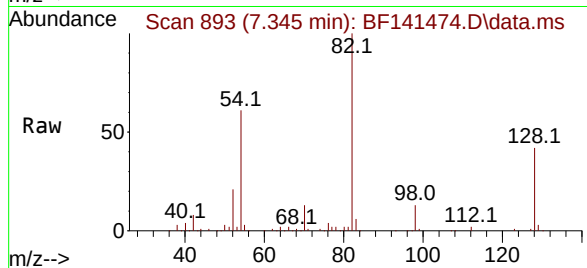
82 100

128 41.9 34.8 52.2

54 61.2 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#24

Nitrobenzene

Concen: 9.927 ng

RT: 7.363 min Scan# 896

Delta R.T. -0.017 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

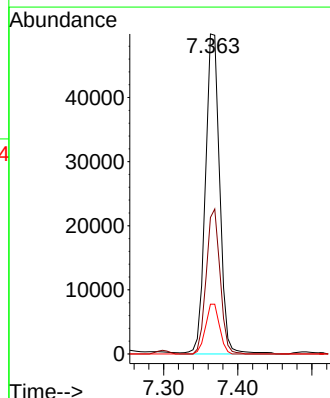
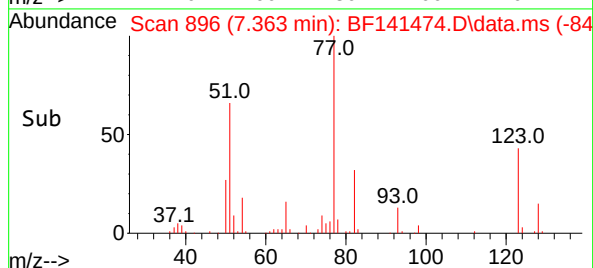
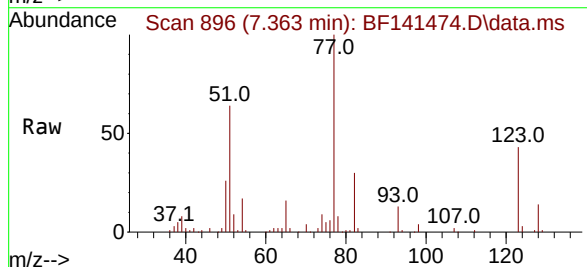
Tgt Ion: 77 Resp: 67032

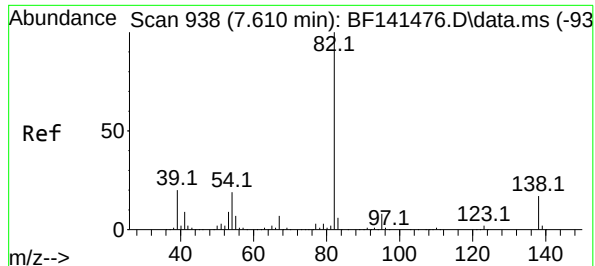
Ion Ratio Lower Upper

77 100

123 42.7 36.9 55.3

65 15.5 11.9 17.9





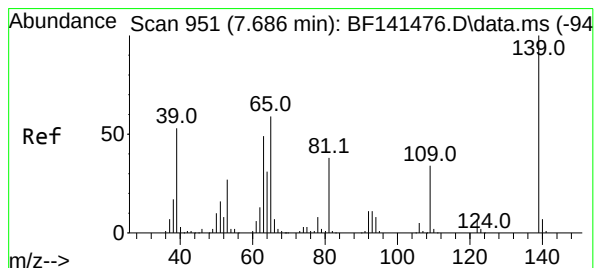
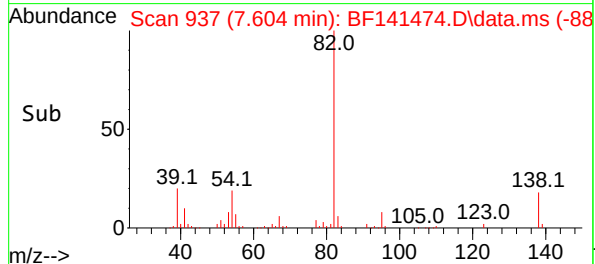
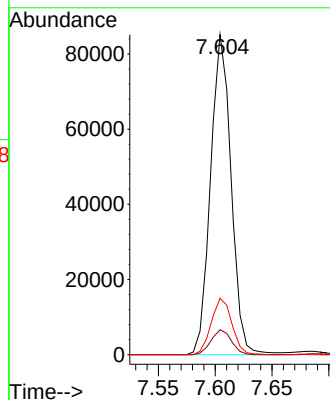
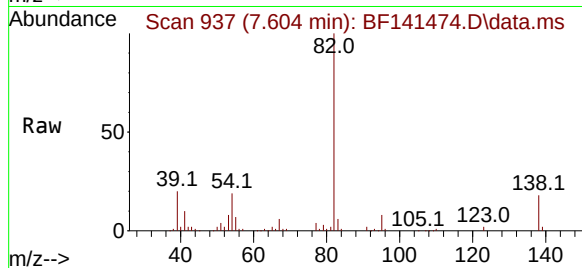
#25
Isophorone
Concen: 9.712 ng
RT: 7.604 min Scan# 91
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 10724
Ion Ratio Lower Upper
82 100
95 7.8 6.4 9.6
138 17.7 13.9 20.9

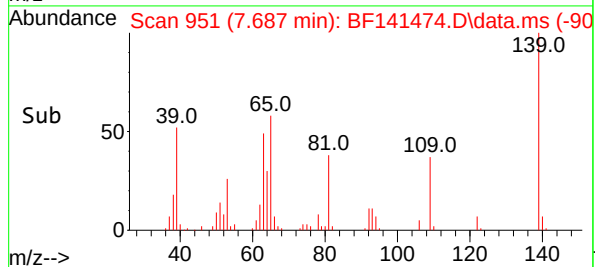
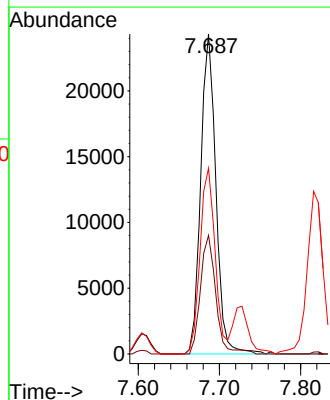
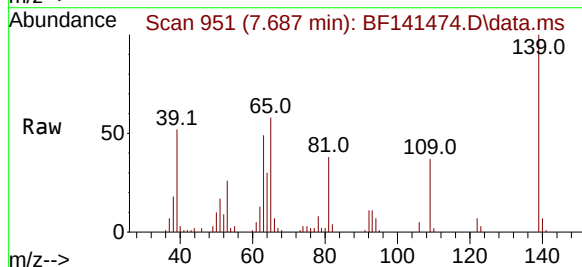
Manual Integrations
APPROVED

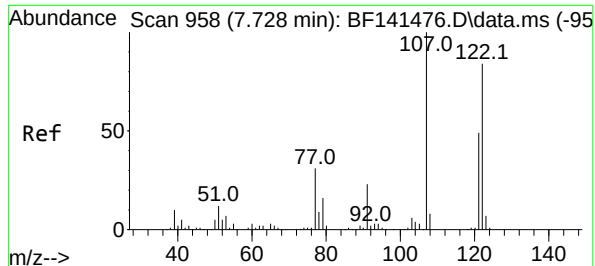
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#26
2-Nitrophenol
Concen: 9.403 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 31590
Ion Ratio Lower Upper
139 100
109 37.1 27.0 40.6
65 58.1 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 9.759 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

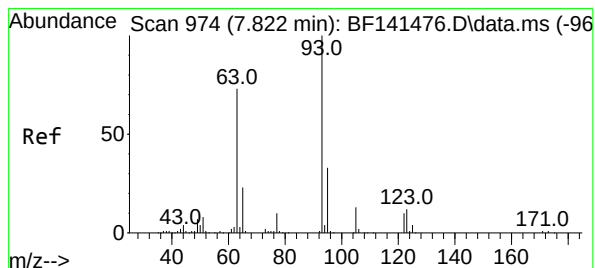
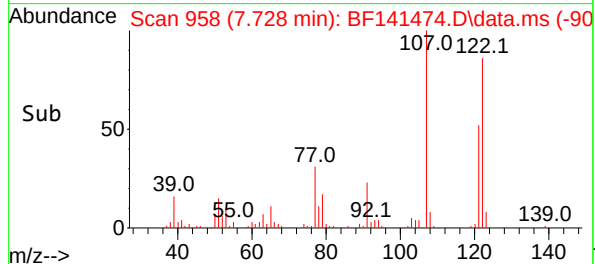
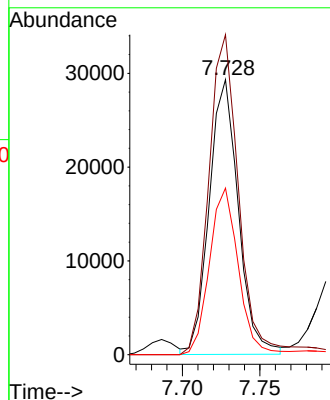
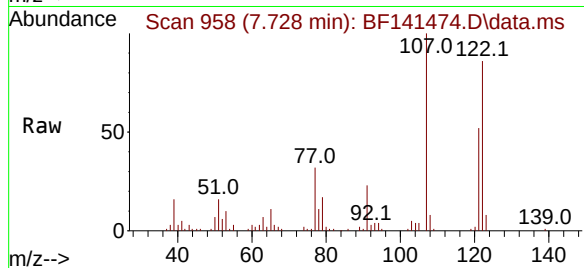
Tgt Ion:122 Resp: 3830

Ion	Ratio	Lower	Upper
122	100		
107	116.3	94.3	141.5
121	60.5	46.0	69.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#28

bis(2-Chloroethoxy)methane

Concen: 9.958 ng

RT: 7.816 min Scan# 973

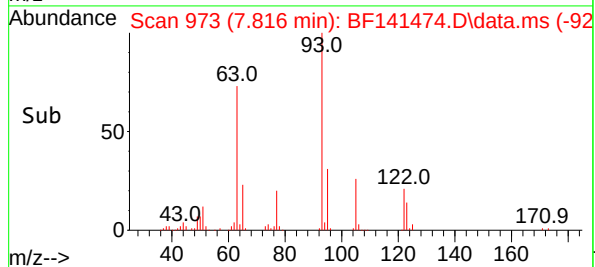
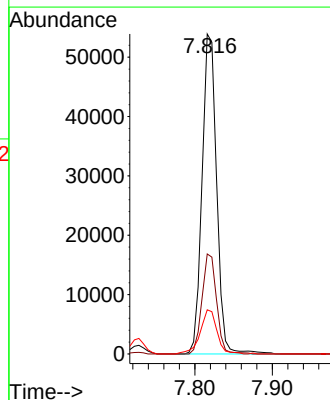
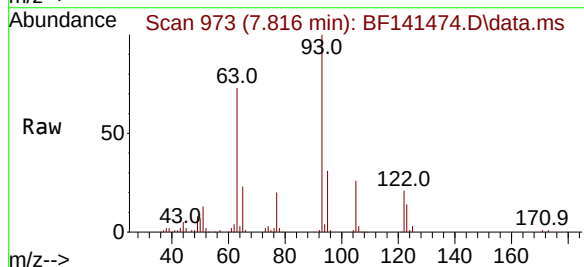
Delta R.T. -0.012 min

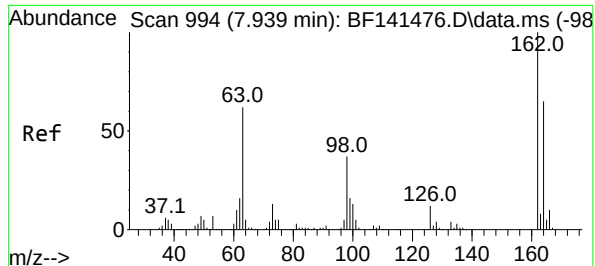
Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 70458

Ion	Ratio	Lower	Upper
93	100		
95	31.3	26.1	39.1
123	13.8	9.5	14.3





#29

2,4-Dichlorophenol

Concen: 9.784 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:162 Resp: 5188

Ion Ratio Lower Upper

162 100

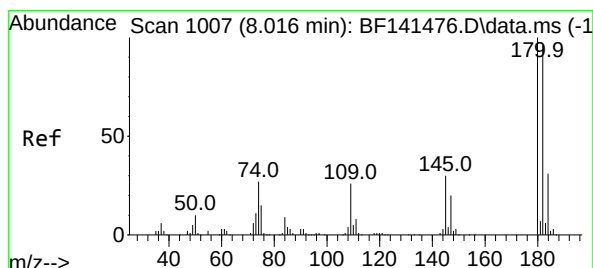
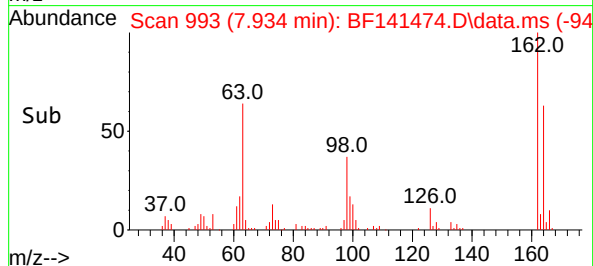
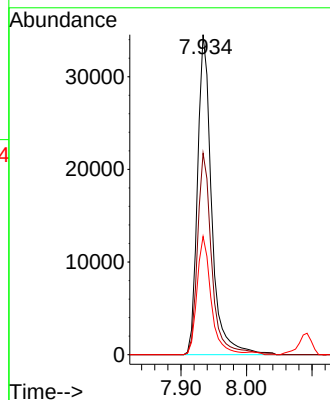
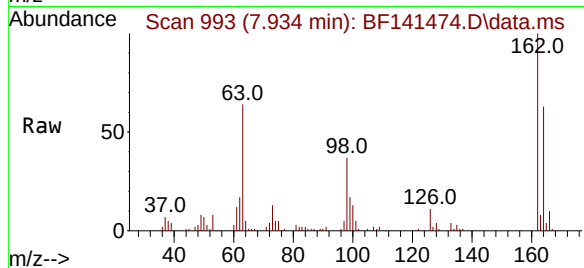
164 63.0 44.6 84.6

98 36.9 17.2 57.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025



#30

1,2,4-Trichlorobenzene

Concen: 10.033 ng

RT: 8.010 min Scan# 1006

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

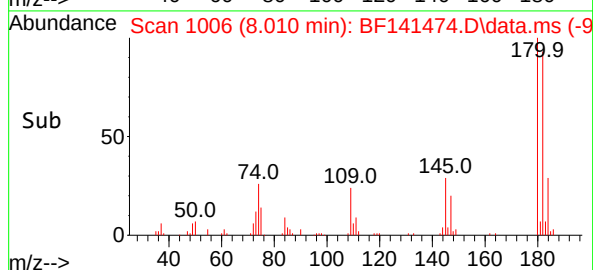
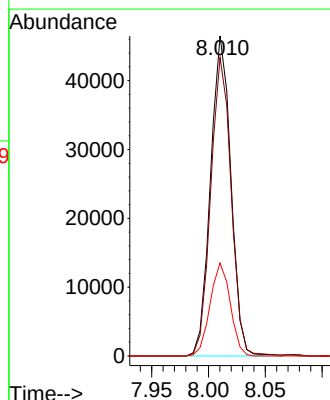
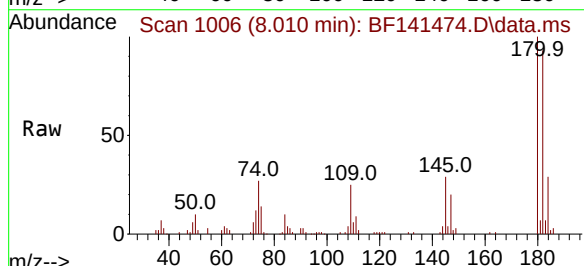
Tgt Ion:180 Resp: 57937

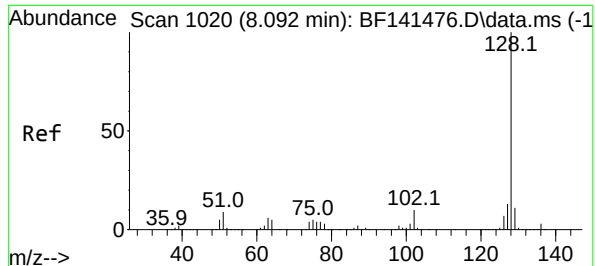
Ion Ratio Lower Upper

180 100

182 93.3 76.8 115.2

145 29.1 24.2 36.4





#31

Naphthalene

Concen: 10.002 ng

RT: 8.092 min Scan# 1020

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

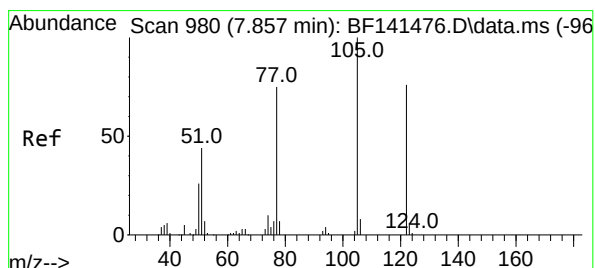
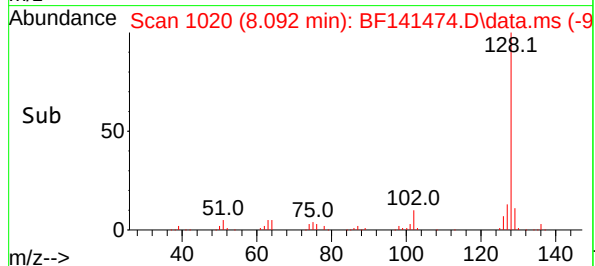
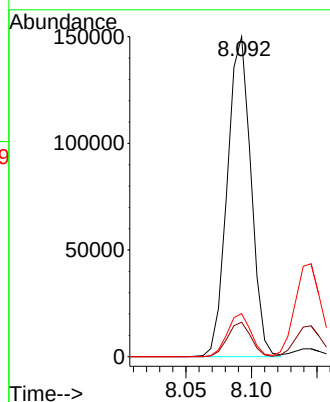
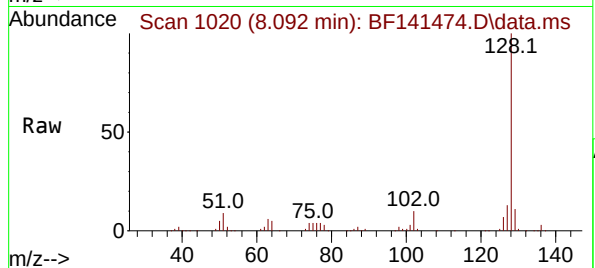
SSTDICC010

Tgt Ion:128 Resp: 188040
Ion Ratio Lower Upper
128 100
129 10.7 8.9 13.3
127 13.5 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#32

Benzoic acid

Concen: 8.253 ng

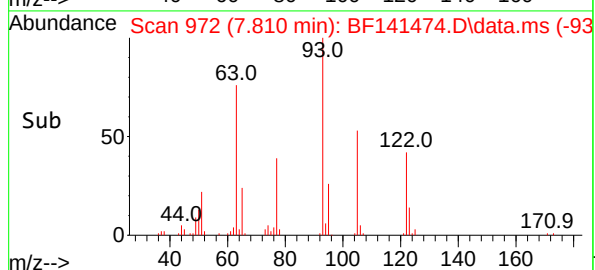
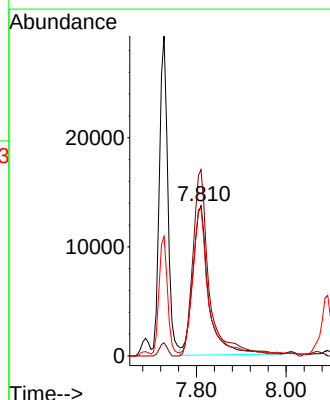
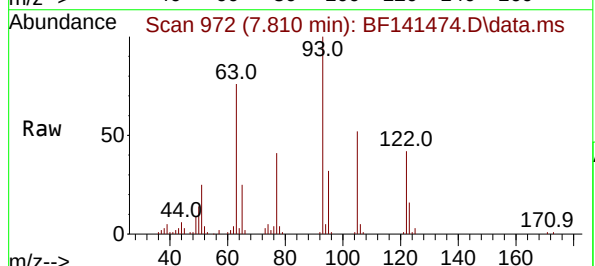
RT: 7.810 min Scan# 972

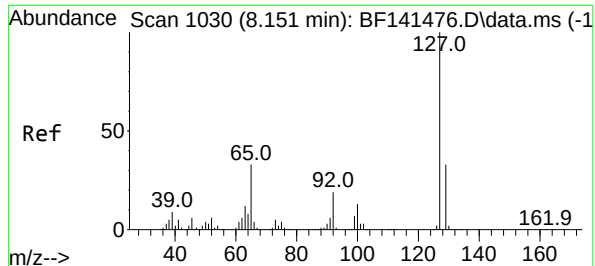
Delta R.T. -0.082 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Tgt Ion:122 Resp: 33645
Ion Ratio Lower Upper
122 100
105 124.1 106.5 146.5
77 98.6 76.3 116.3





#33

4-Chloroaniline

Concen: 9.678 ng

RT: 8.145 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

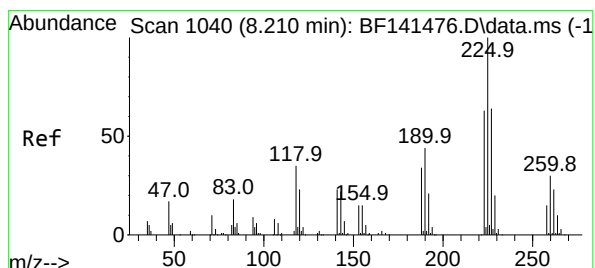
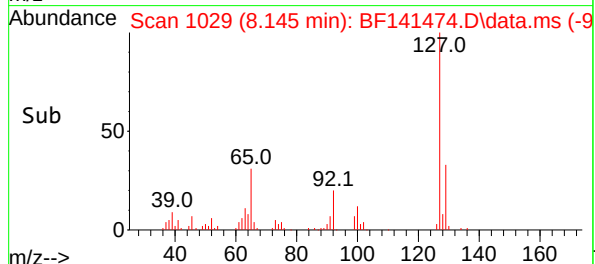
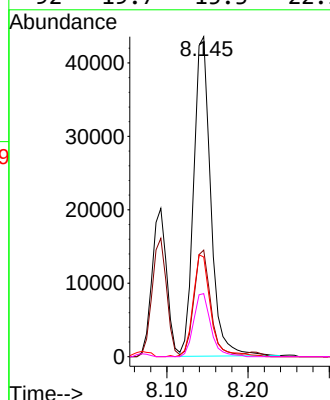
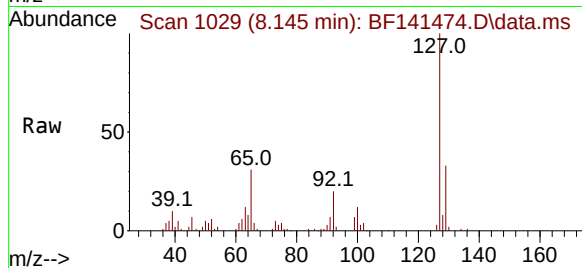
SSTDICC010

Tgt Ion:	127	Resp:	63529
Ion Ratio	Lower	Upper	
127	100		
129	33.3	26.5	39.7
65	31.2	26.4	39.6
92	19.7	15.3	22.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#34

Hexachlorobutadiene

Concen: 9.932 ng

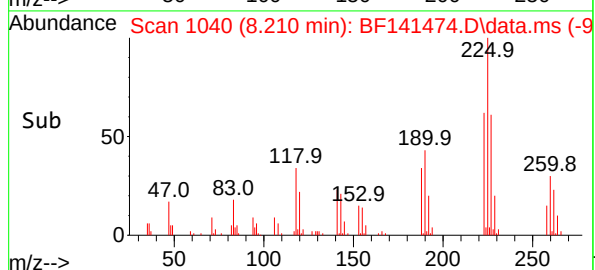
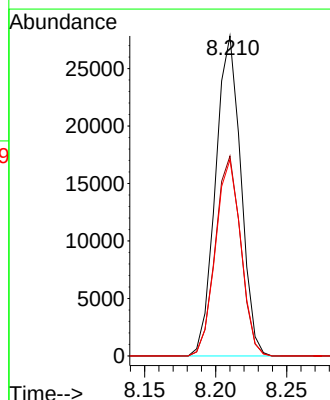
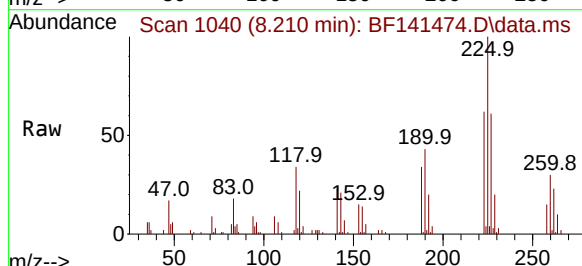
RT: 8.210 min Scan# 1040

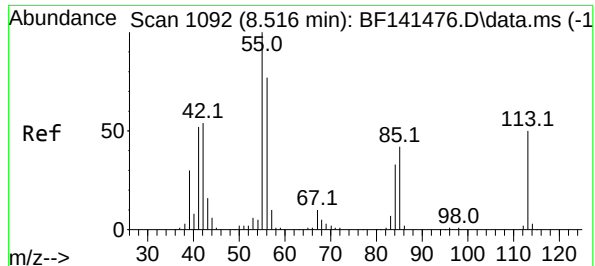
Delta R.T. 0.000 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

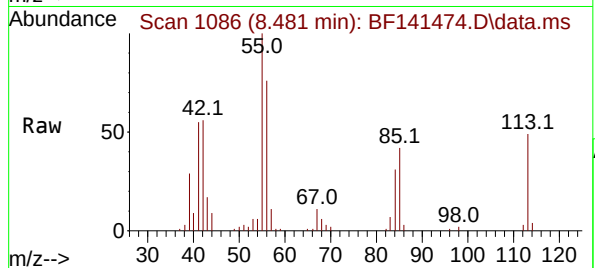
Tgt Ion:	225	Resp:	34431
Ion Ratio	Lower	Upper	
225	100		
223	62.4	50.1	75.1
227	61.3	51.0	76.6





#35
Caprolactam
Concen: 9.495 ng
RT: 8.481 min Scan# 1086
Delta R.T. -0.065 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

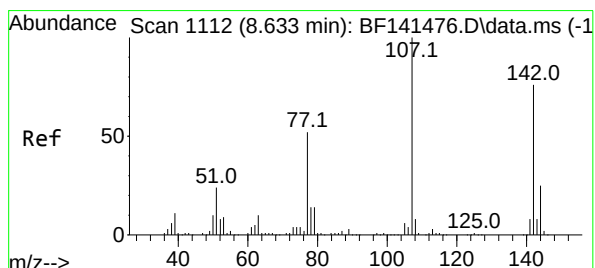
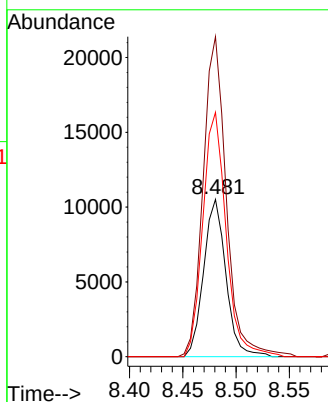
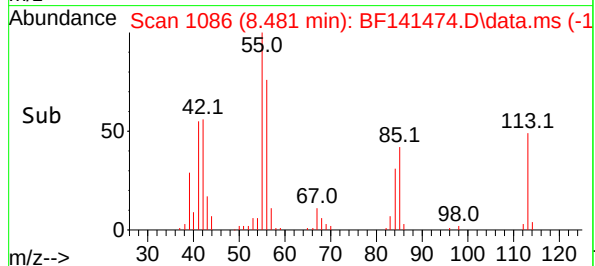
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:113 Resp: 1533
Ion Ratio Lower Upper
113 100
55 203.4 180.8 220.8
56 155.4 133.6 173.6

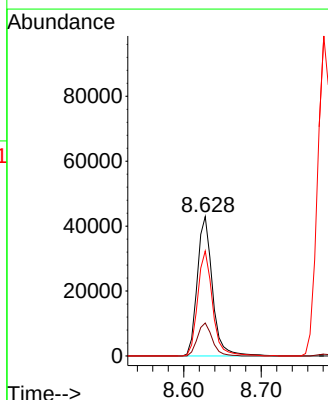
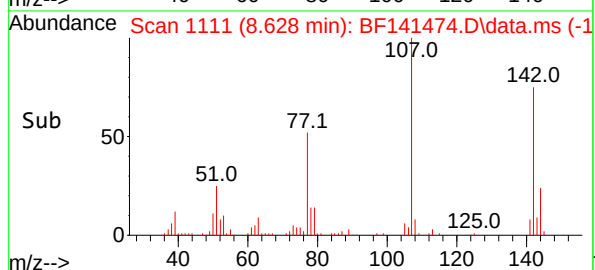
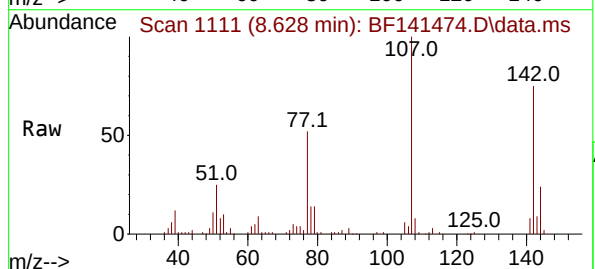
Manual Integrations
APPROVED

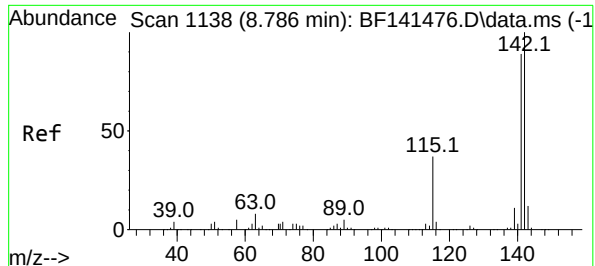
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#36
4-Chloro-3-methylphenol
Concen: 9.949 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 58441
Ion Ratio Lower Upper
107 100
144 23.7 19.7 29.5
142 75.3 60.8 91.2





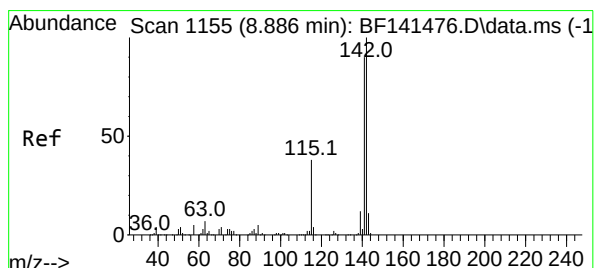
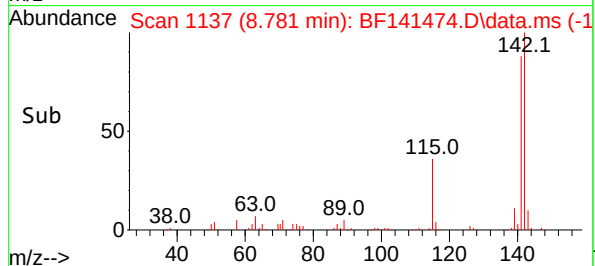
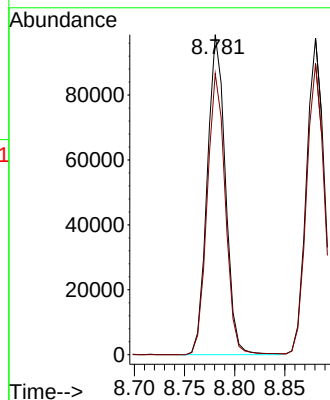
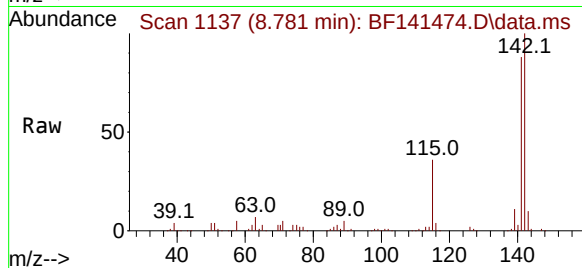
#37
2-Methylnaphthalene
Concen: 10.177 ng
RT: 8.781 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 12451
Ion Ratio Lower Upper
142 100
141 87.9 71.2 106.8

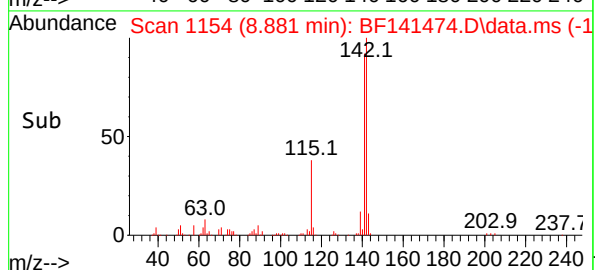
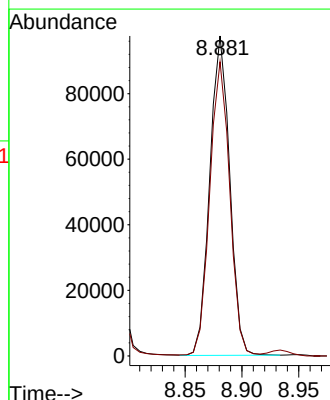
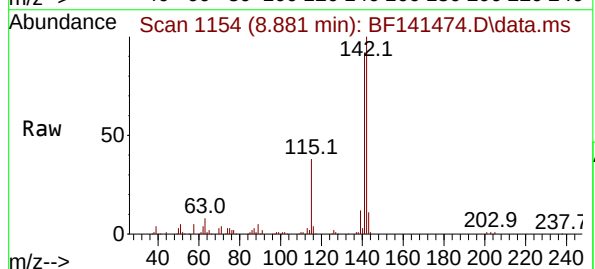
Manual Integrations
APPROVED

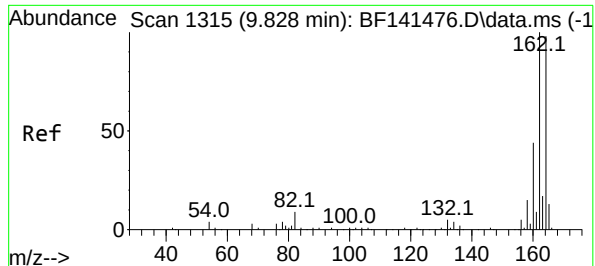
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#38
1-Methylnaphthalene
Concen: 10.019 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:142 Resp: 118722
Ion Ratio Lower Upper
142 100
141 92.0 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1114

Delta R.T. -0.012 min

Lab File: BF141474.D

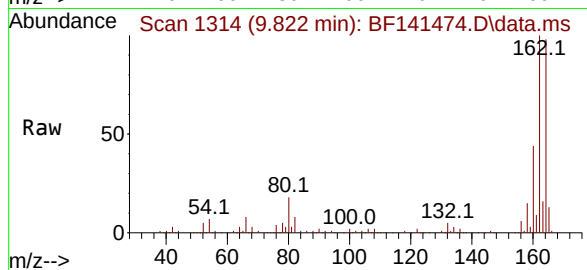
Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010



Tgt Ion:164 Resp: 200040

Ion Ratio Lower Upper

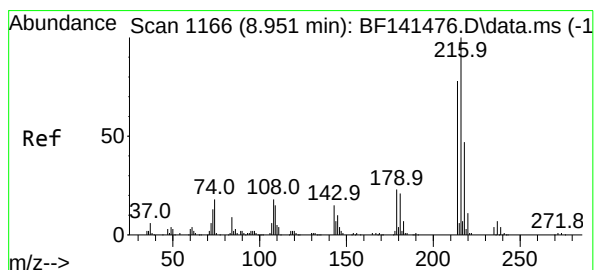
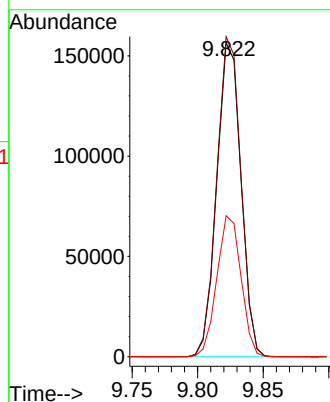
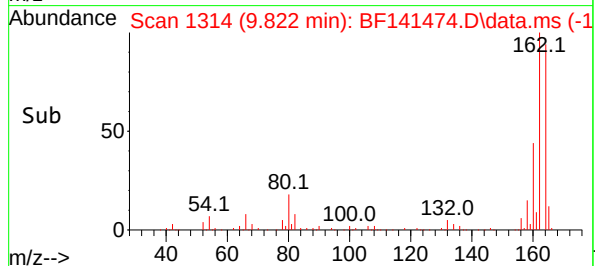
164 100

162 101.9 81.3 121.9

160 44.9 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#40

1,2,4,5-Tetrachlorobenzene

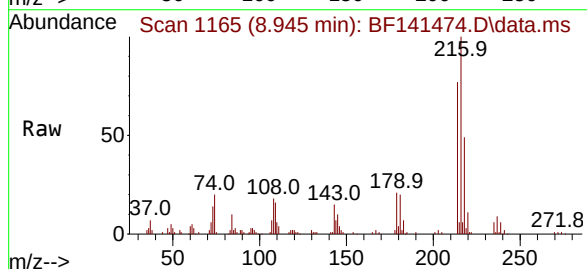
Concen: 10.160 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00



Tgt Ion:216 Resp: 58800

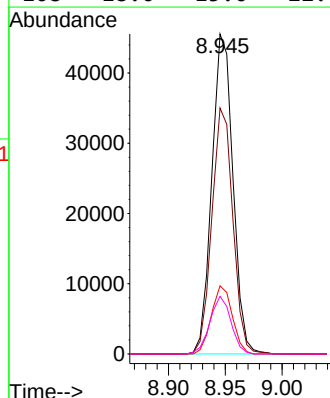
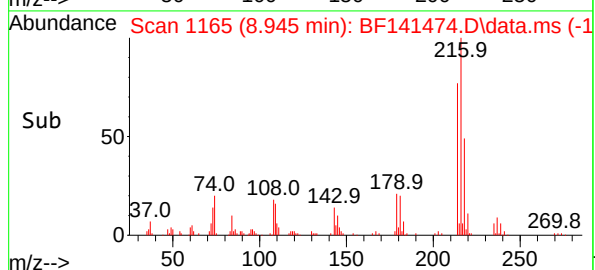
Ion Ratio Lower Upper

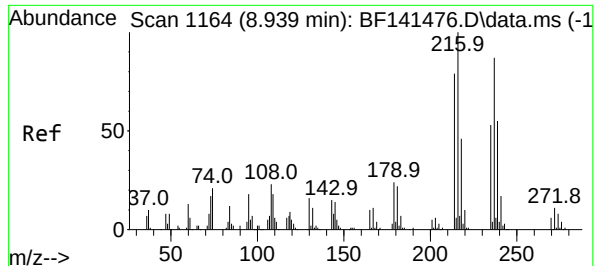
216 100

214 76.5 62.3 93.5

179 21.1 18.0 27.0

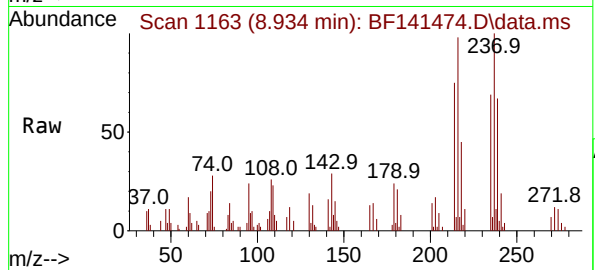
108 18.0 15.0 22.6





#41
Hexachlorocyclopentadiene
Concen: 7.161 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

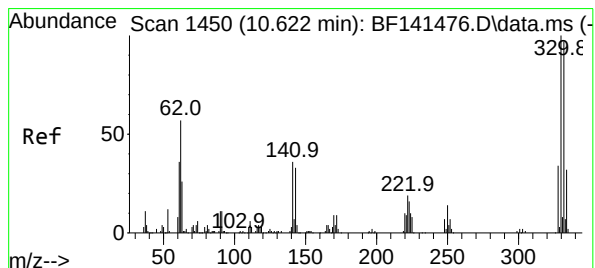
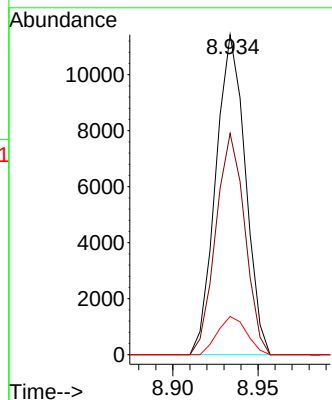
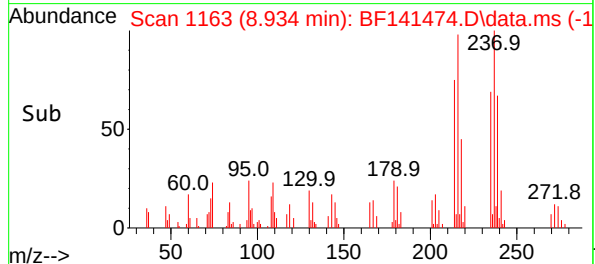
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



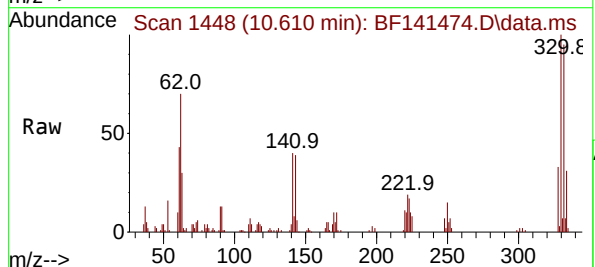
Tgt Ion:237 Resp: 13785
Ion Ratio Lower Upper
237 100
235 69.2 41.4 81.4
272 11.9 0.0 32.4

Manual Integrations
APPROVED

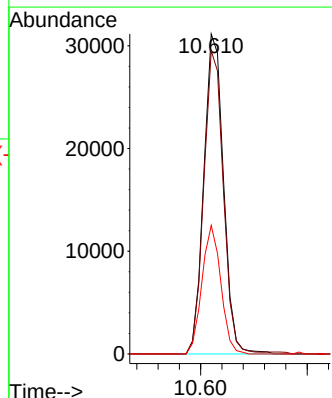
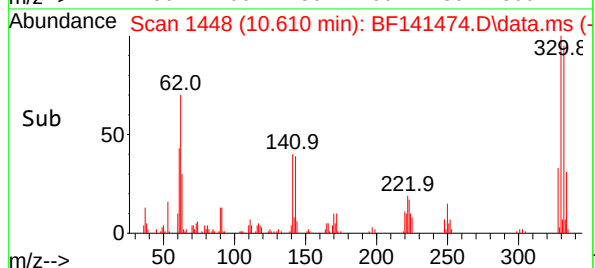
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

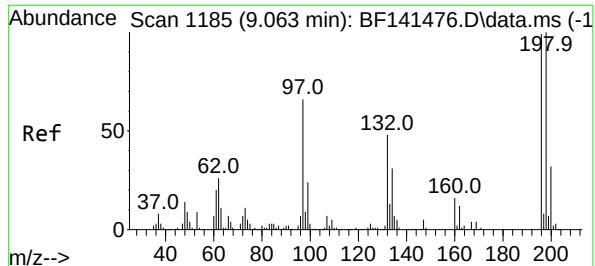


#42
2,4,6-Tribromophenol
Concen: 19.941 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



Tgt Ion:330 Resp: 40073
Ion Ratio Lower Upper
330 100
332 94.1 78.5 117.7
141 38.6 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 9.773 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:196 Resp: 3655

Ion Ratio Lower Upper

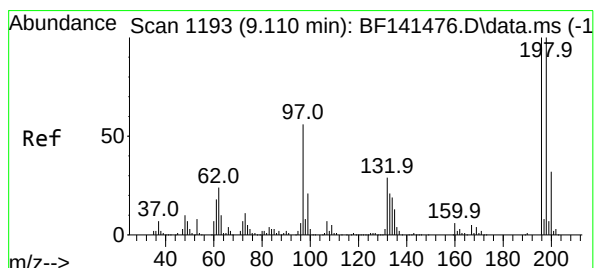
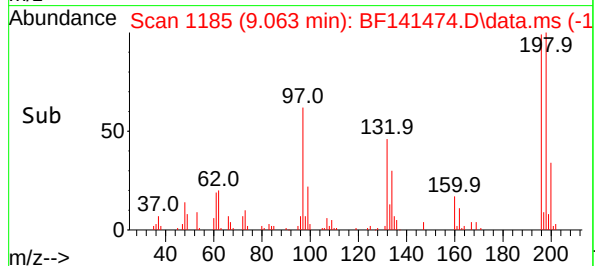
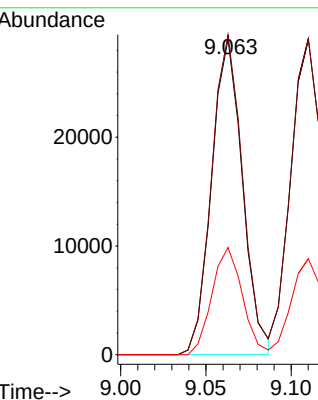
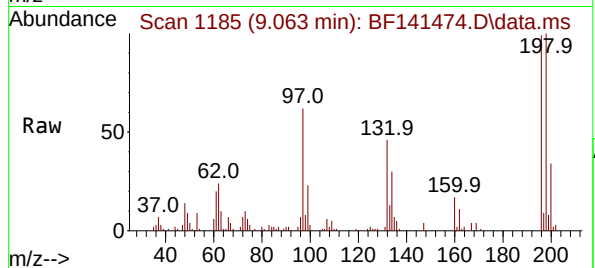
196 100

198 101.5 80.6 121.0

200 34.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#44

2,4,5-Trichlorophenol

Concen: 10.039 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Tgt Ion:196 Resp: 40697

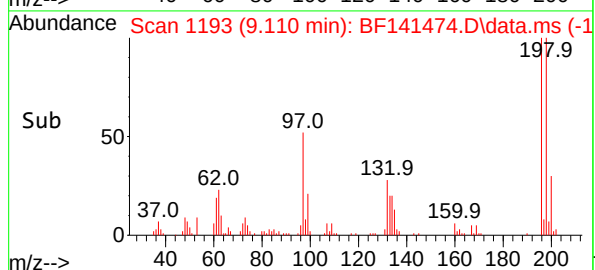
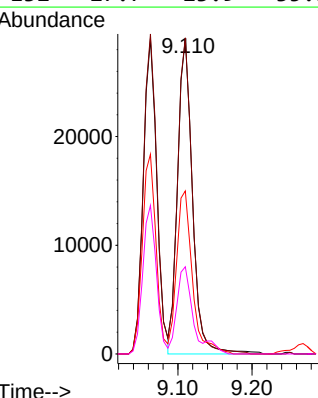
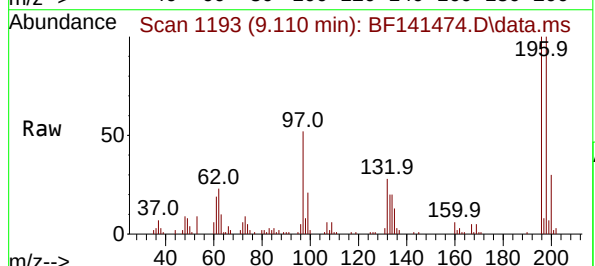
Ion Ratio Lower Upper

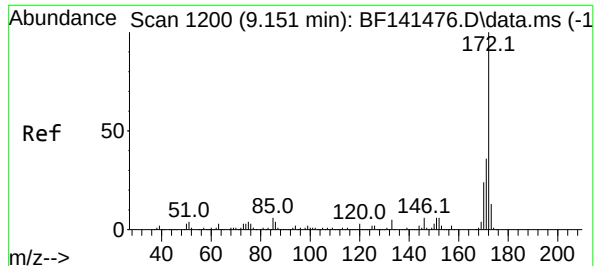
196 100

198 100.3 79.8 119.8

97 51.7 44.8 67.2

132 27.7 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 20.947 ng

RT: 9.145 min Scan# 1199

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:172 Resp: 27198

Ion Ratio Lower Upper

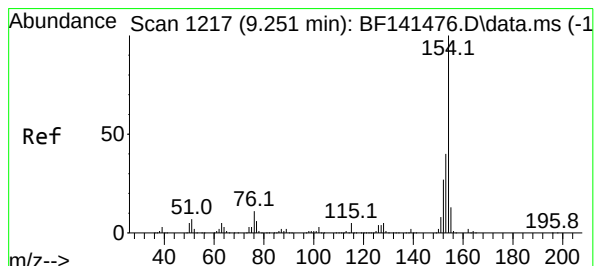
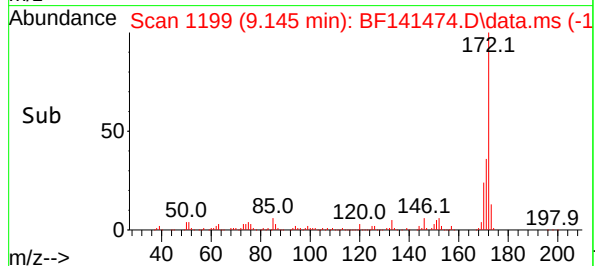
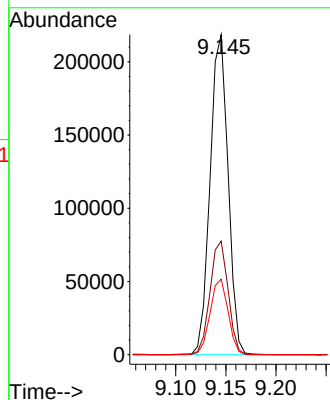
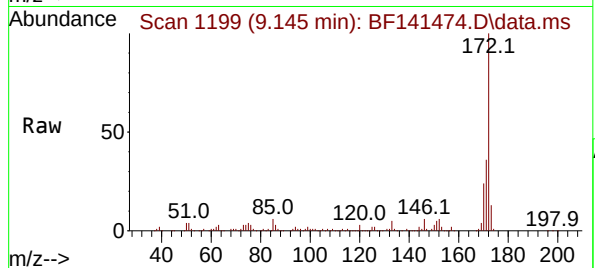
172 100

171 35.5 28.7 43.1

170 23.6 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#46

1,1'-Biphenyl

Concen: 10.086 ng

RT: 9.245 min Scan# 1216

Delta R.T. -0.012 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

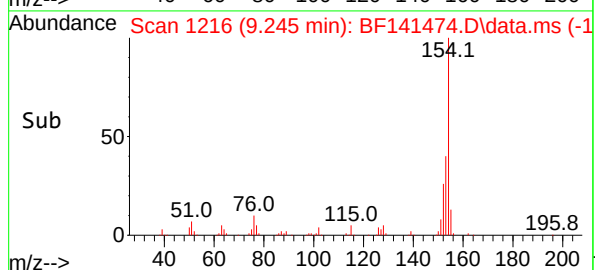
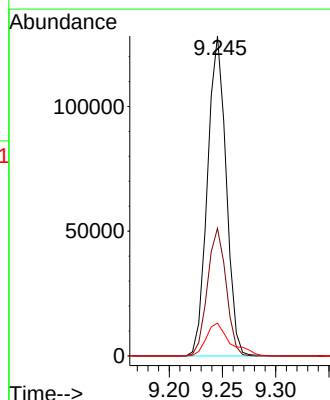
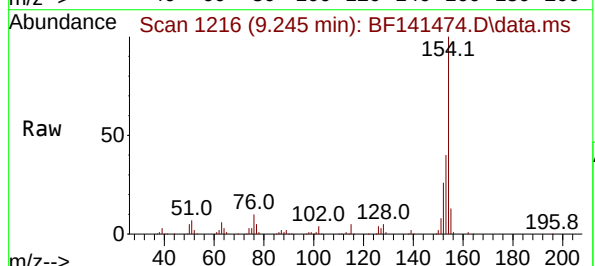
Tgt Ion:154 Resp: 156431

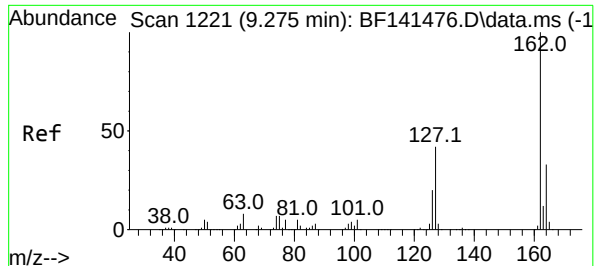
Ion Ratio Lower Upper

154 100

153 39.9 20.4 60.4

76 10.3 0.0 30.8





#47

2-Chloronaphthalene

Concen: 10.125 ng

RT: 9.269 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141474.D

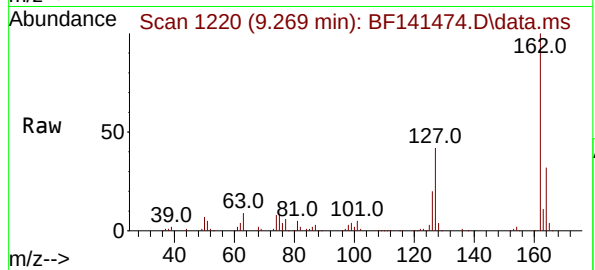
Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010



Tgt Ion:162 Resp: 116119

Ion Ratio Lower Upper

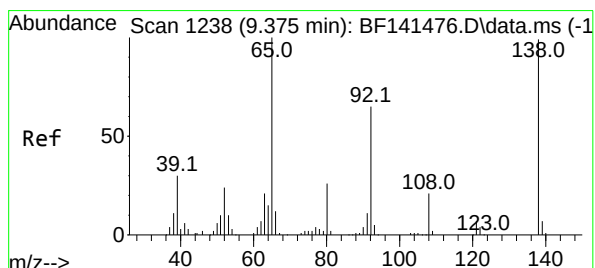
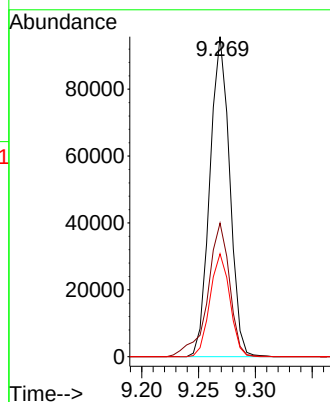
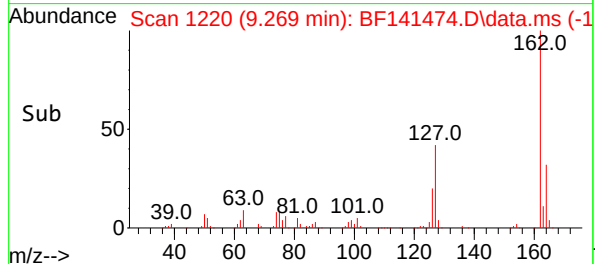
162 100

127 41.8 34.1 51.1

164 32.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#48

2-Nitroaniline

Concen: 9.653 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

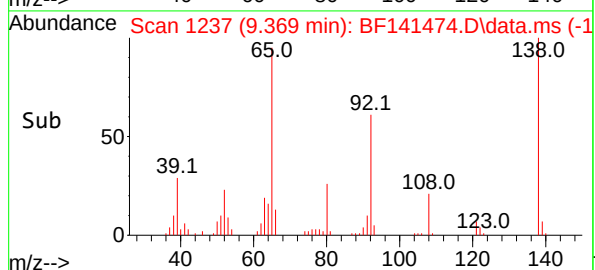
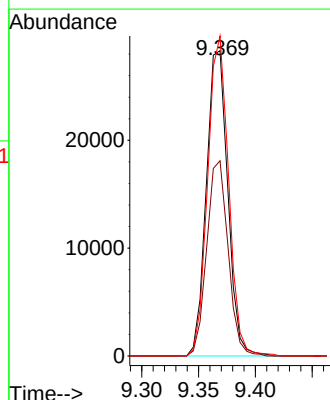
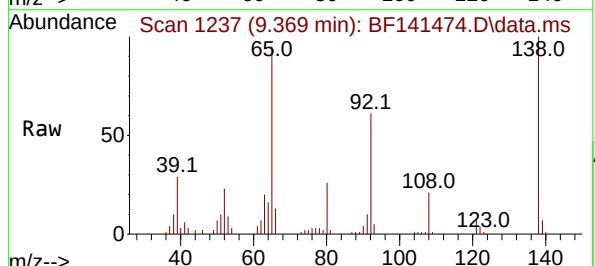
Tgt Ion: 65 Resp: 37155

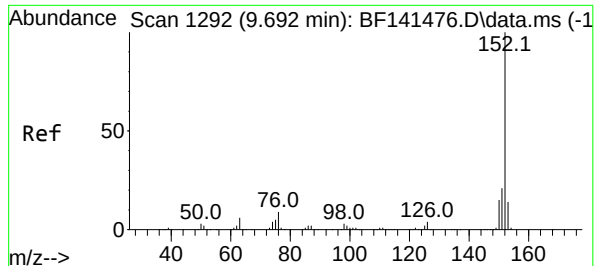
Ion Ratio Lower Upper

65 100

92 63.9 52.2 78.2

138 104.8 79.5 119.3





#49

Acenaphthylene

Concen: 10.179 ng

RT: 9.686 min Scan# 1291

Delta R.T. -0.006 min

Lab File: BF141474.D

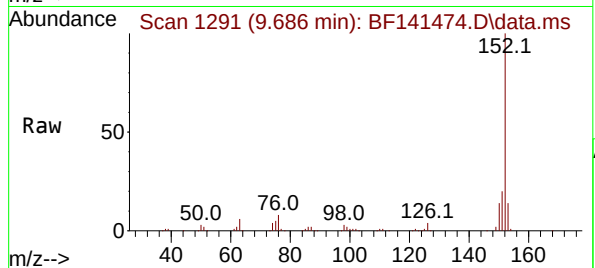
Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

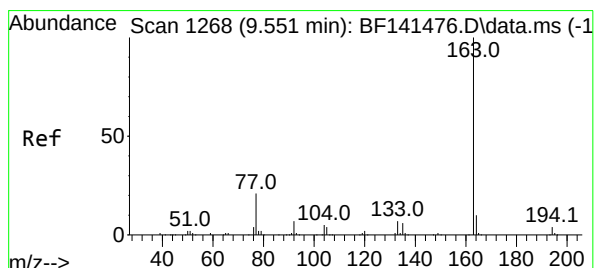
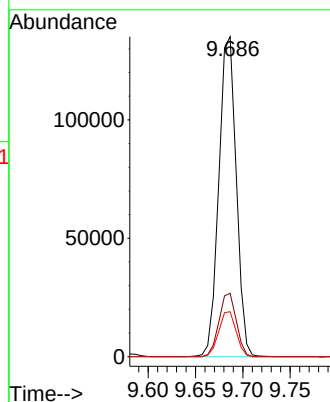
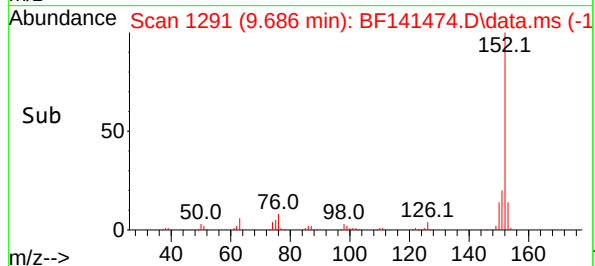


Tgt Ion:	152	Resp:	17364
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.4	24.6
153	14.1	10.9	16.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#50

Dimethylphthalate

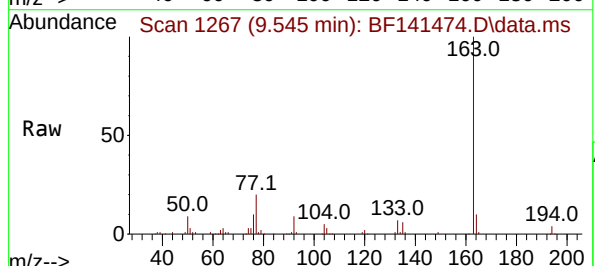
Concen: 10.006 ng

RT: 9.545 min Scan# 1267

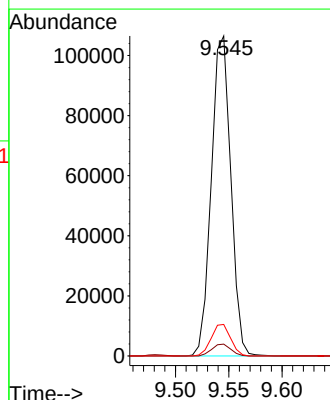
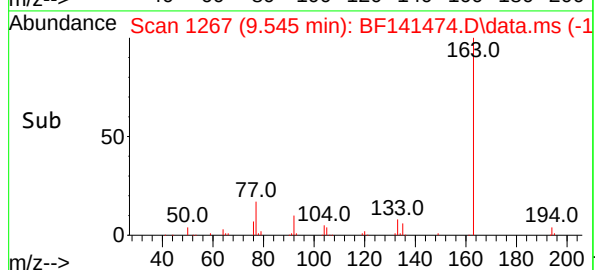
Delta R.T. -0.017 min

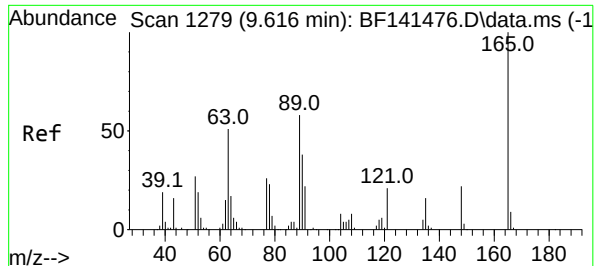
Lab File: BF141474.D

Acq: 06 Feb 2025 12:00



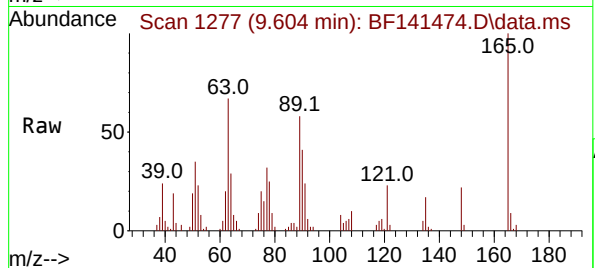
Tgt Ion:	163	Resp:	135886
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.4
164	9.8	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 9.770 ng
RT: 9.604 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

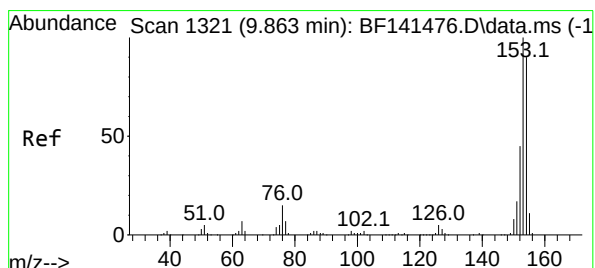
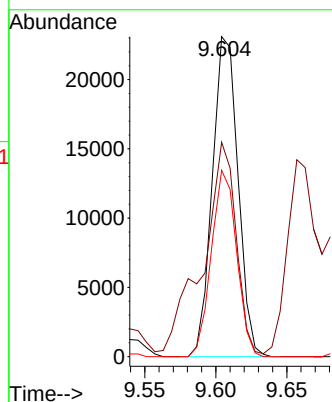
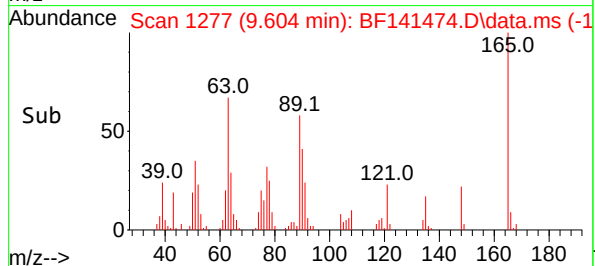
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



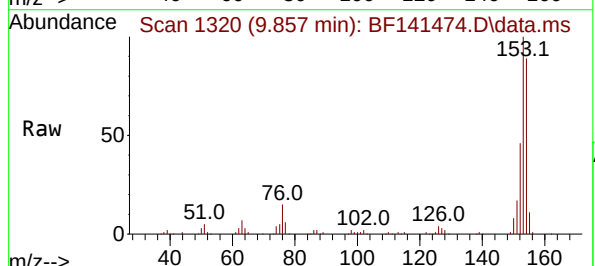
Tgt Ion:165 Resp: 29000
Ion Ratio Lower Upper
165 100
63 67.0 49.4 74.0
89 58.2 46.5 69.7

Manual Integrations
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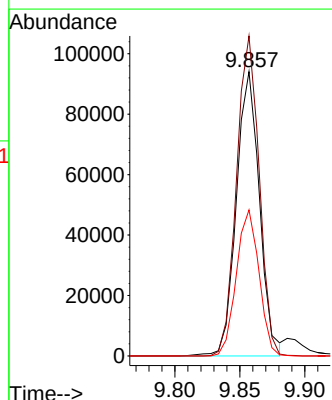
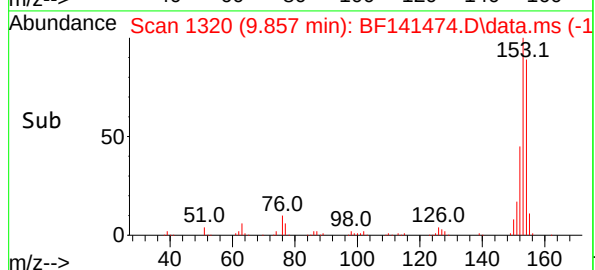
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

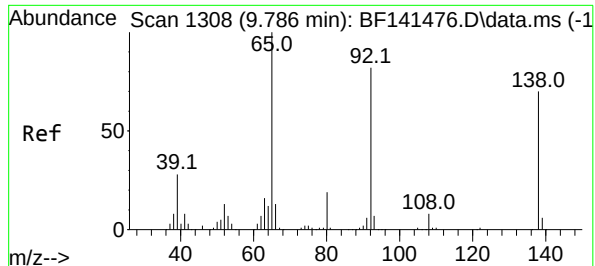


#52
Acenaphthene
Concen: 10.155 ng m
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



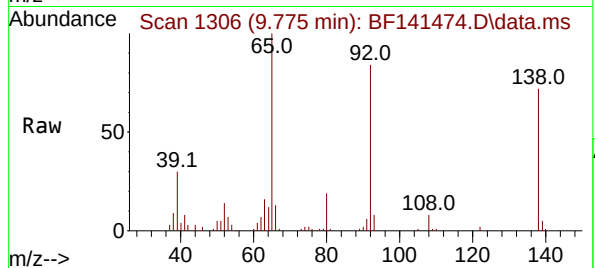
Tgt Ion:154 Resp: 116461
Ion Ratio Lower Upper
154 100
153 112.5 89.2 133.8
152 51.4 39.8 59.8





#53
3-Nitroaniline
Concen: 9.805 ng
RT: 9.775 min Scan# 1306
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

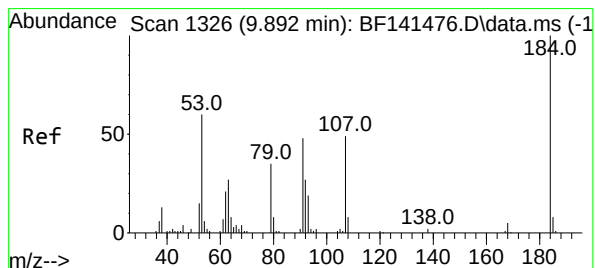
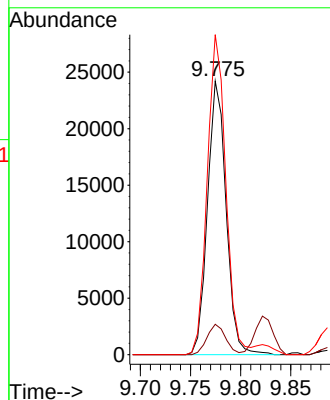
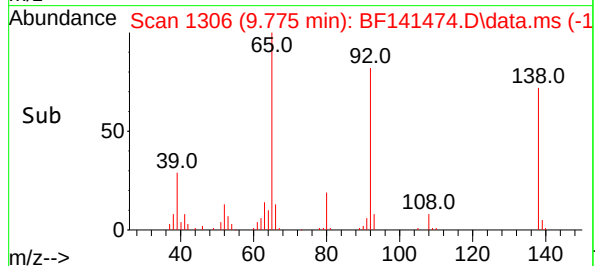
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:138 Resp: 31330
Ion Ratio Lower Upper
138 100
108 11.1 9.0 13.4
92 116.9 93.7 140.5

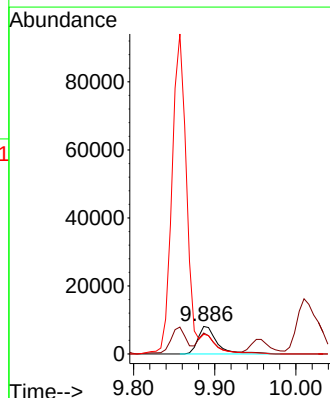
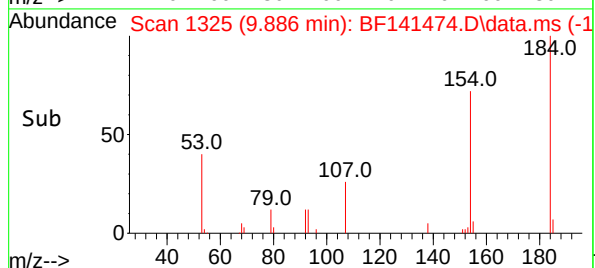
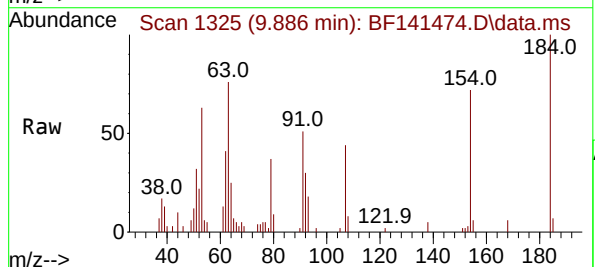
Manual Integrations
APPROVED

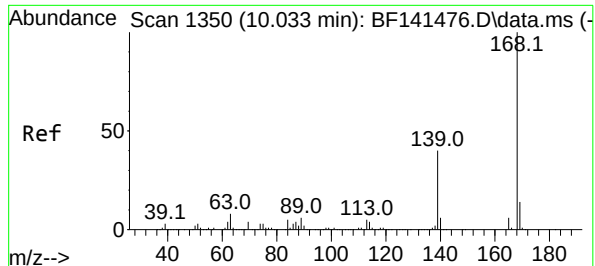
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#54
2,4-Dinitrophenol
Concen: 7.561 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.018 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:184 Resp: 13341
Ion Ratio Lower Upper
184 100
63 75.9 61.0 91.6
154 71.6 59.9 89.9





#55

Dibenzenofuran

Concen: 10.230 ng

RT: 10.028 min Scan# 11

Delta R.T. -0.011 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:168 Resp: 172200

Ion Ratio Lower Upper

168 100

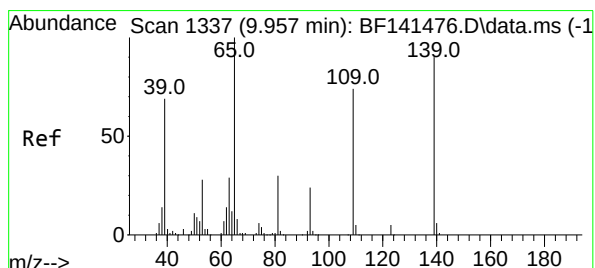
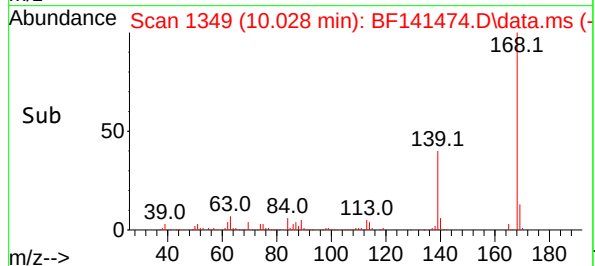
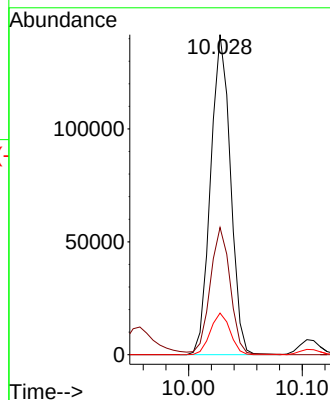
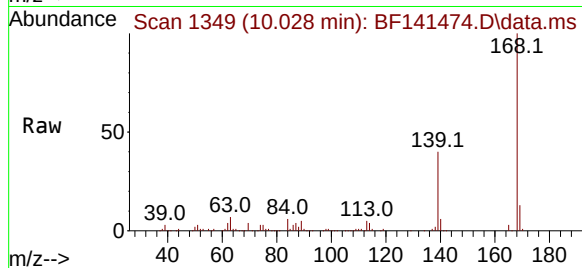
139 39.8 32.7 49.1

169 13.0 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025



#56

4-Nitrophenol

Concen: 9.093 ng

RT: 9.957 min Scan# 1337

Delta R.T. -0.012 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

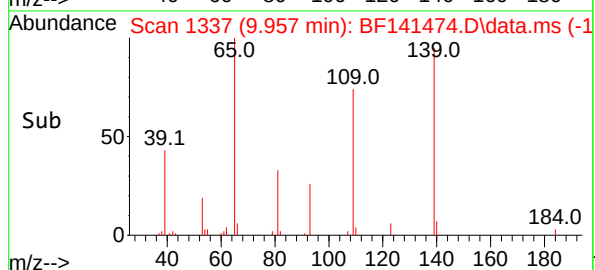
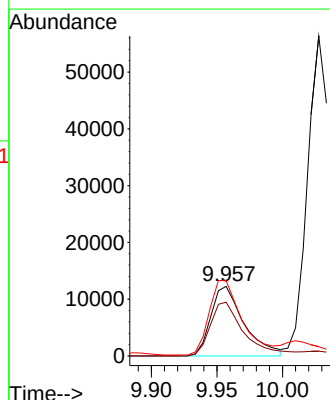
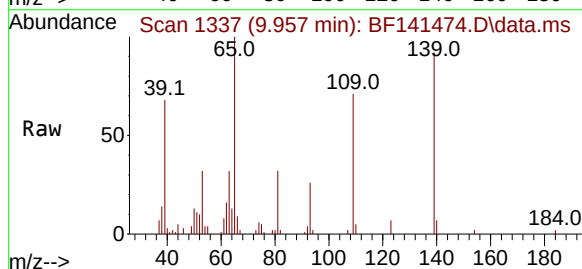
Tgt Ion:139 Resp: 21569

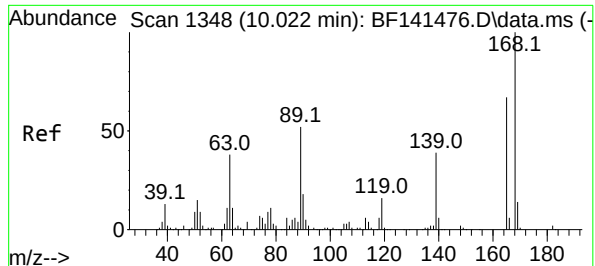
Ion Ratio Lower Upper

139 100

109 77.2 62.0 102.0

65 108.2 91.2 131.2





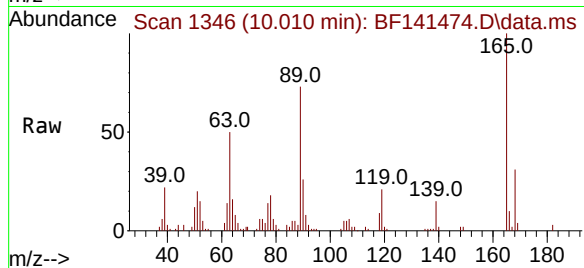
#57
2,4-Dinitrotoluene
Concen: 10.198 ng
RT: 10.010 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDIC010

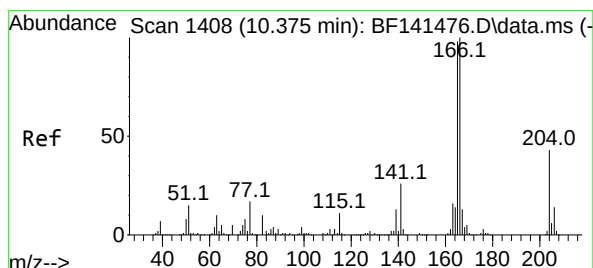
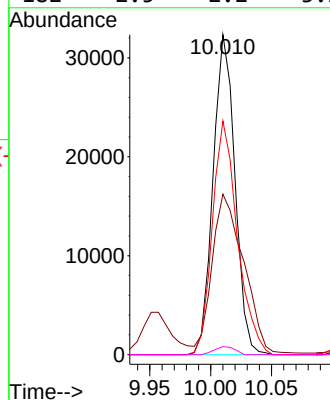
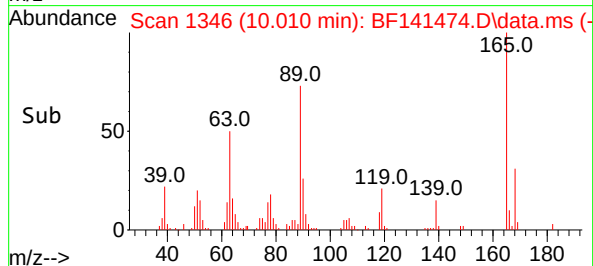


Tgt Ion:165 Resp: 40300
Ion Ratio Lower Upper
165 100
63 50.1 46.4 69.6
89 73.1 61.8 92.6
182 2.5 2.2 3.2

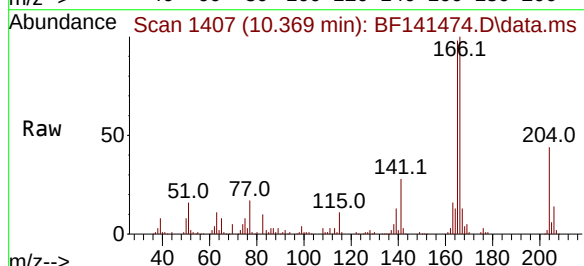
Manual Integrations

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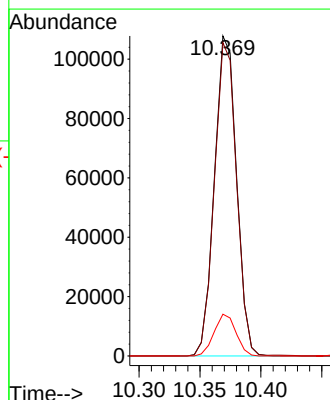
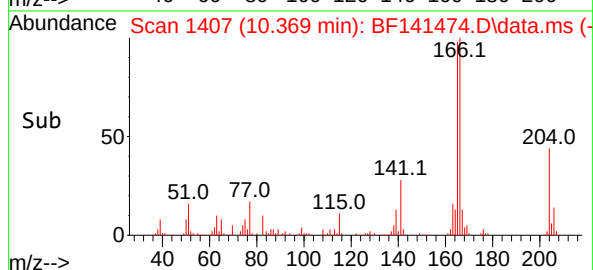
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

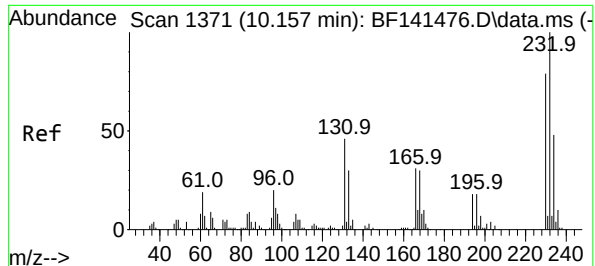


#58
Fluorene
Concen: 10.458 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



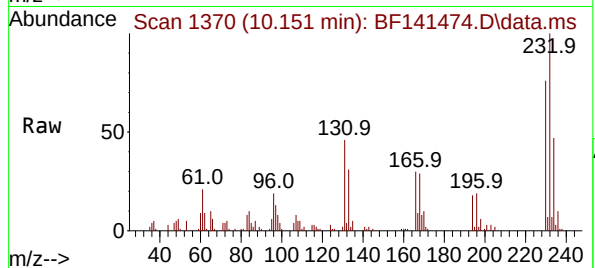
Tgt Ion:166 Resp: 136110
Ion Ratio Lower Upper
166 100
165 97.9 78.2 117.2
167 13.0 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 10.344 ng
RT: 10.151 min Scan# 1370
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

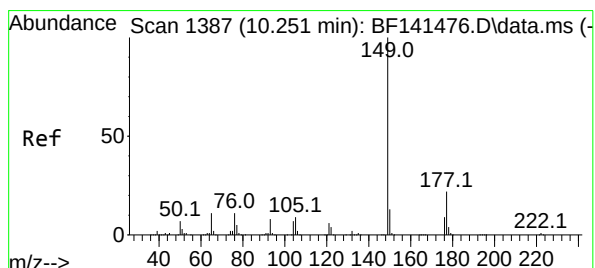
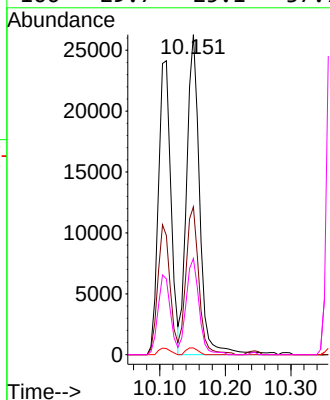
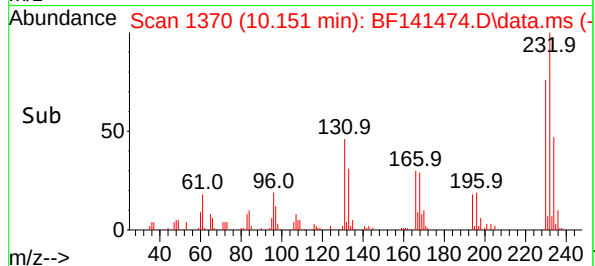
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:232 Resp: 3610
Ion Ratio Lower Upper
232 100
131 45.8 39.2 58.8
130 1.9 2.1 3.1
166 29.7 25.1 37.7

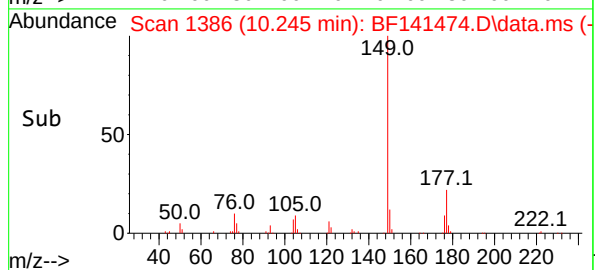
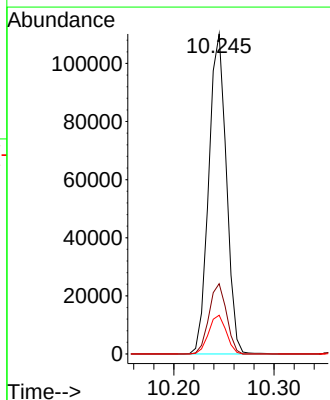
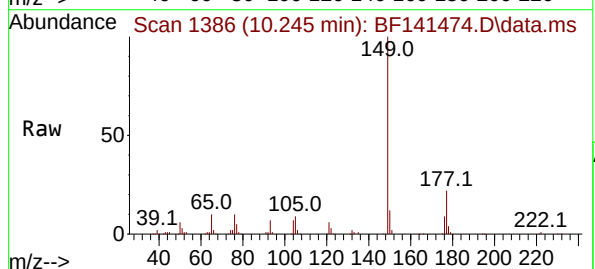
Manual Integrations
APPROVED

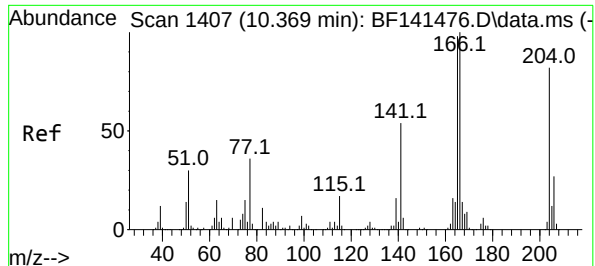
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#60
Diethylphthalate
Concen: 10.073 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

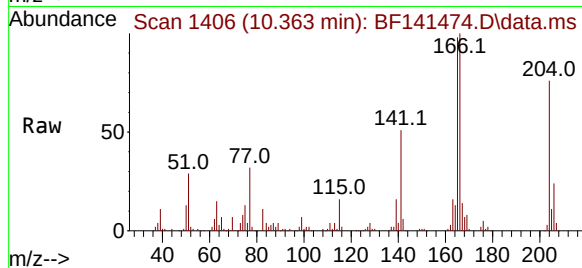
Tgt Ion:149 Resp: 134593
Ion Ratio Lower Upper
149 100
177 22.0 17.8 26.6
150 12.1 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 10.270 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

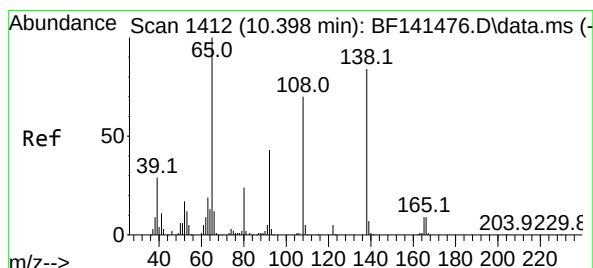
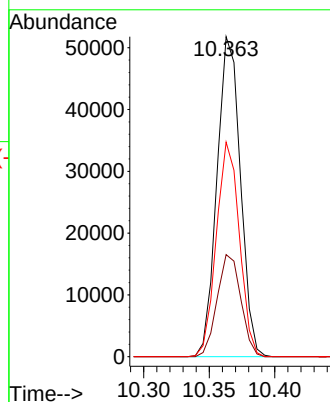
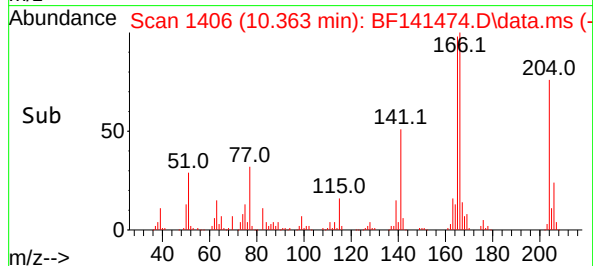
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:204 Resp: 6430
Ion Ratio Lower Upper
204 100
206 31.9 26.6 40.0
141 67.1 51.9 77.9

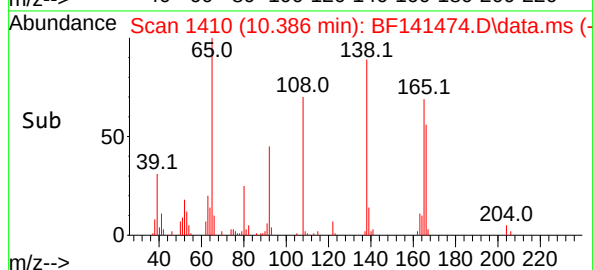
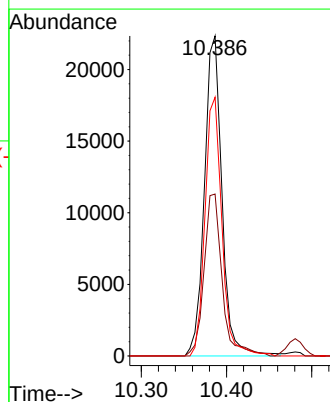
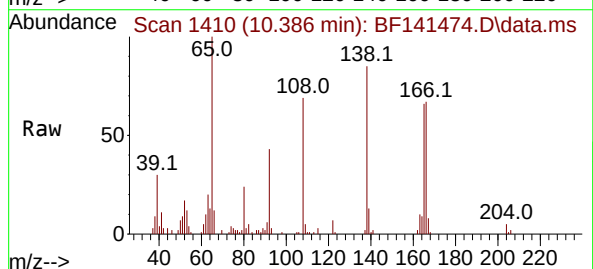
Manual Integrations
APPROVED

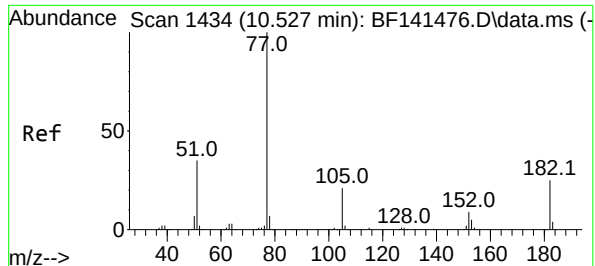
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#62
4-Nitroaniline
Concen: 9.842 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

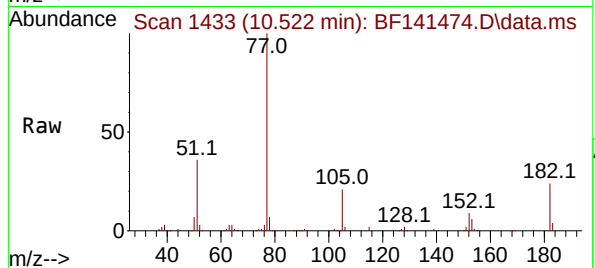
Tgt Ion:138 Resp: 31934
Ion Ratio Lower Upper
138 100
92 50.6 31.3 71.3
108 80.8 63.7 103.7





#63
Azobenzene
Concen: 10.010 ng
RT: 10.522 min Scan# 1434
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

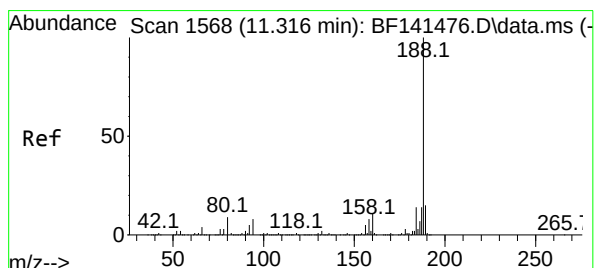
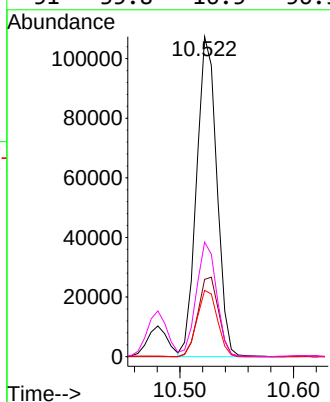
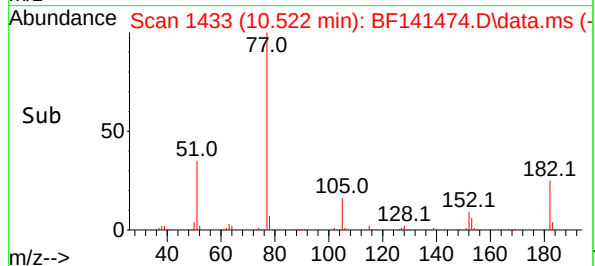
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion: 77 Resp: 132968
Ion Ratio Lower Upper
77 100
182 24.1 4.7 44.7
105 20.7 0.4 40.4
51 35.8 16.5 56.5

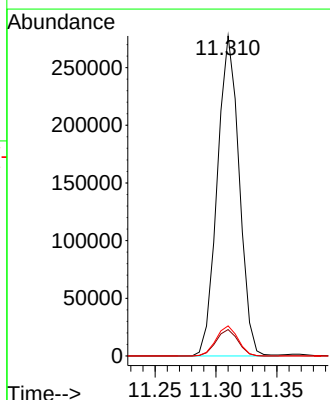
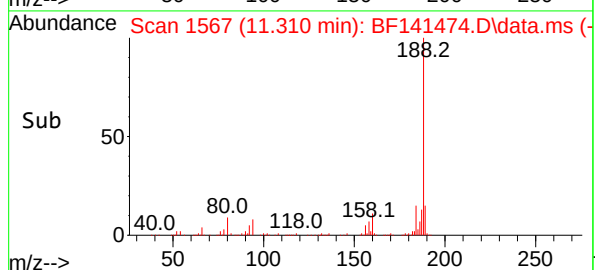
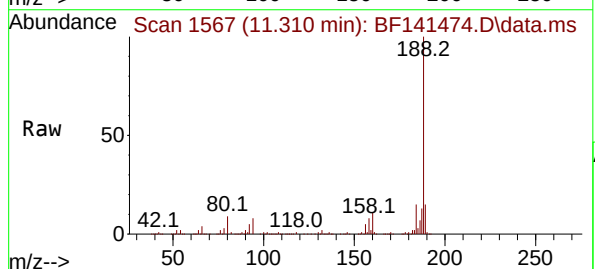
Manual Integrations
APPROVED

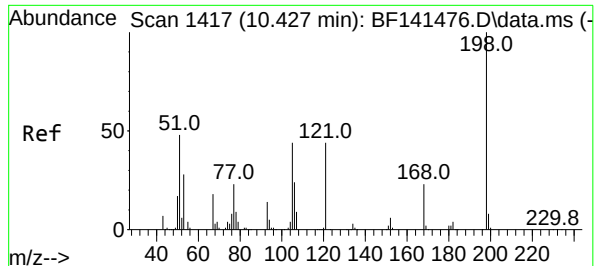
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

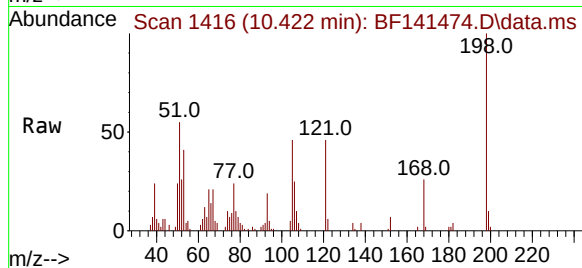
Tgt Ion:188 Resp: 347312
Ion Ratio Lower Upper
188 100
94 8.3 6.6 10.0
80 9.4 7.3 10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 8.320 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

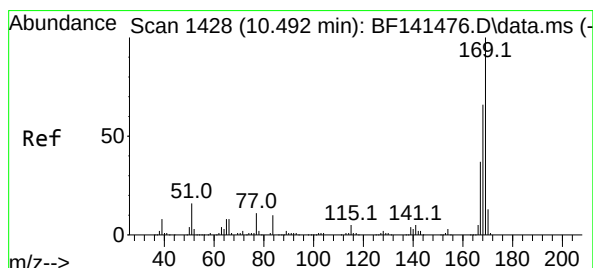
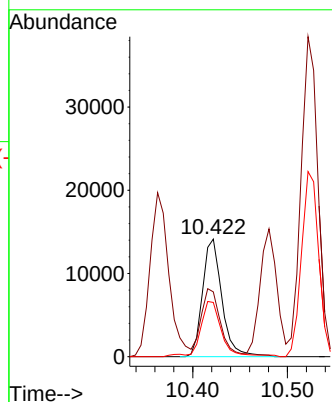
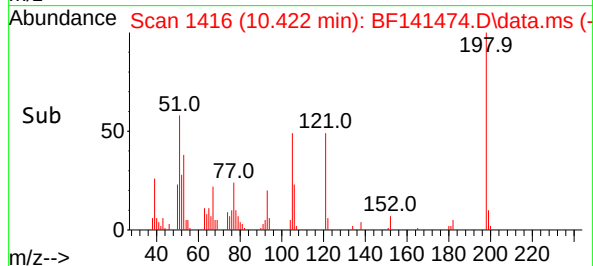
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:198 Resp: 20074
Ion Ratio Lower Upper
198 100
51 55.2 37.4 77.4
105 46.2 25.2 65.2

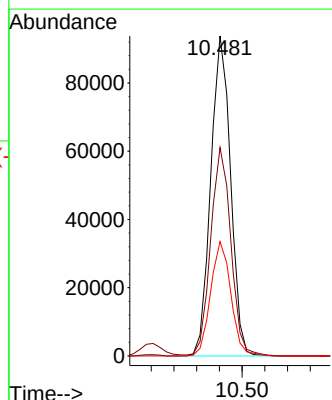
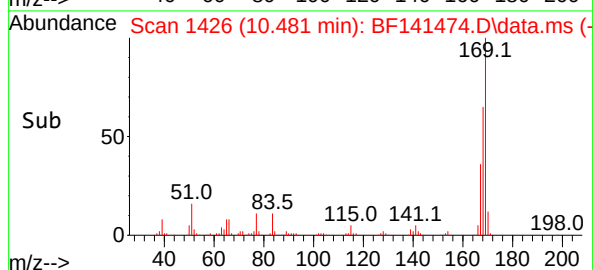
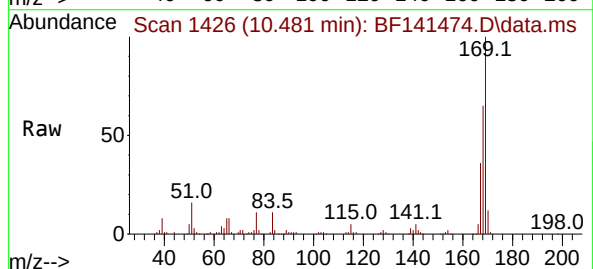
Manual Integrations
APPROVED

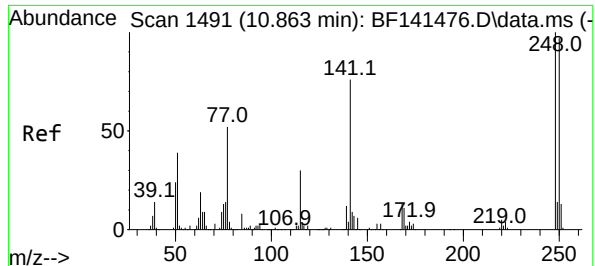
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#66
n-Nitrosodiphenylamine
Concen: 10.201 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

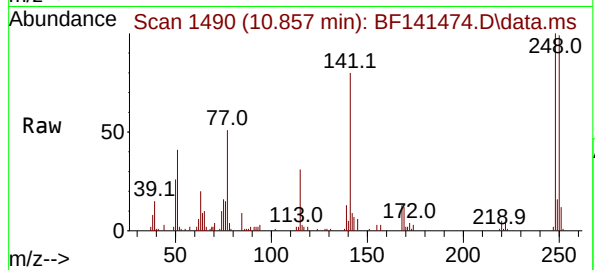
Tgt Ion:169 Resp: 113408
Ion Ratio Lower Upper
169 100
168 65.1 53.3 79.9
167 35.7 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 9.856 ng
RT: 10.857 min Scan# 1490
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

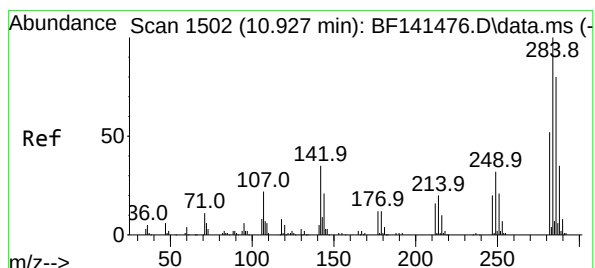
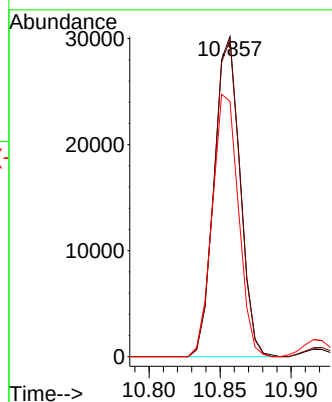
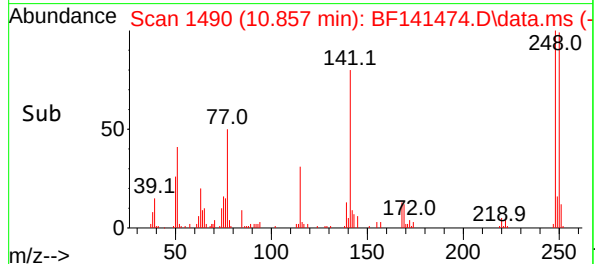
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



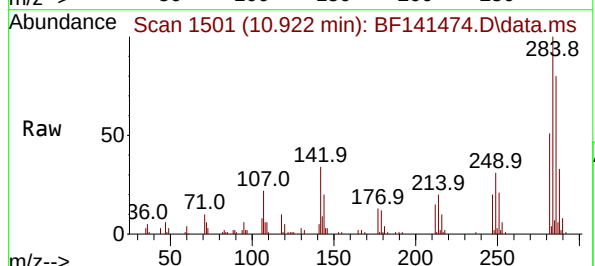
Tgt Ion:248 Resp: 3825
Ion Ratio Lower Upper
248 100
250 99.1 77.8 116.6
141 79.8 60.6 90.8

Manual Integrations
APPROVED

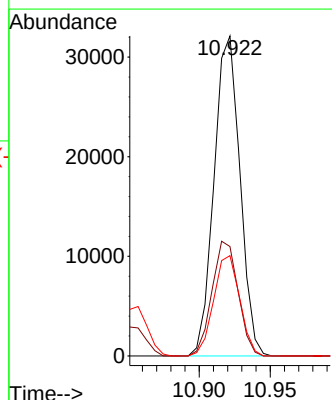
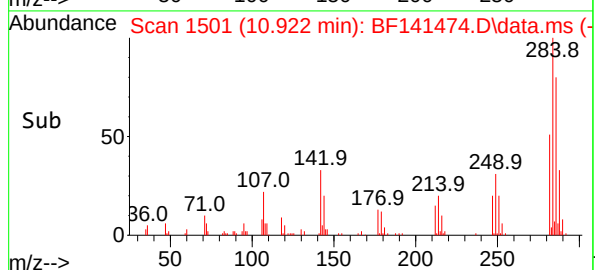
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

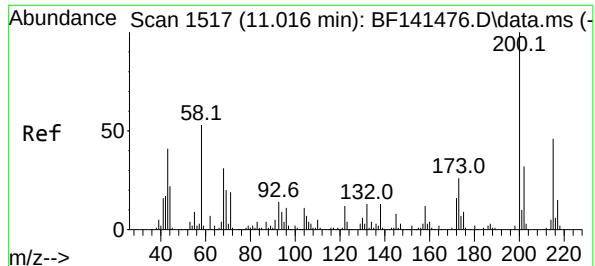


#68
Hexachlorobenzene
Concen: 10.186 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



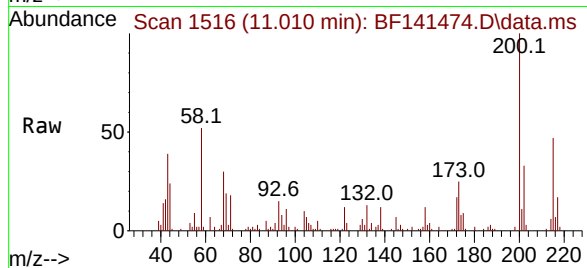
Tgt Ion:284 Resp: 40715
Ion Ratio Lower Upper
284 100
142 34.2 28.0 42.0
249 31.3 25.8 38.8





#69
Atrazine
Concen: 10.580 ng
RT: 11.010 min Scan# 1516
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

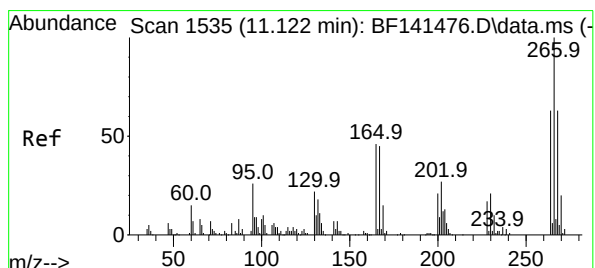
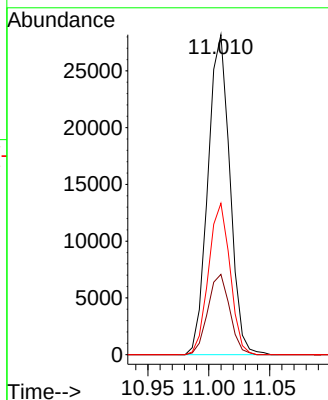
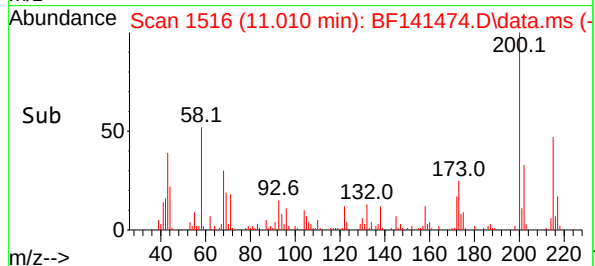
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



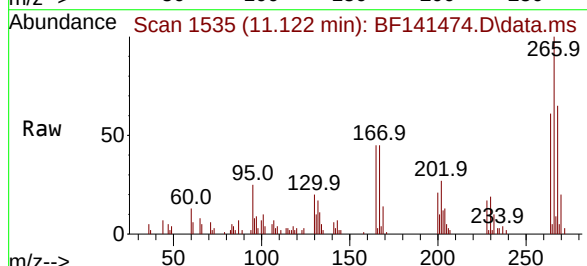
Tgt Ion:200 Resp: 3528
Ion Ratio Lower Upper
200 100
173 25.1 5.9 45.9
215 47.3 25.9 65.9

Manual Integrations
APPROVED

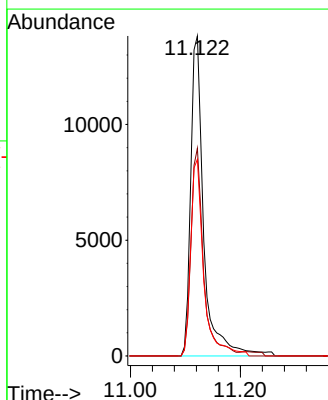
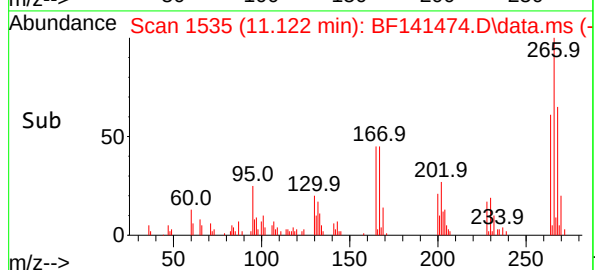
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

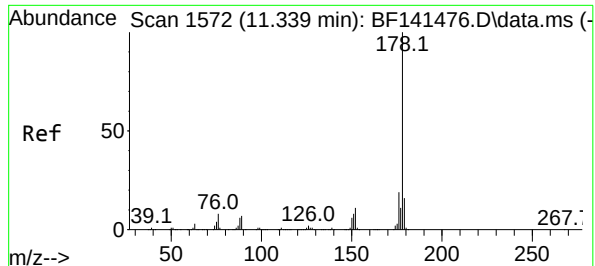


#70
Pentachlorophenol
Concen: 8.895 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



Tgt Ion:266 Resp: 22735
Ion Ratio Lower Upper
266 100
268 64.9 50.1 75.1
264 61.5 50.1 75.1





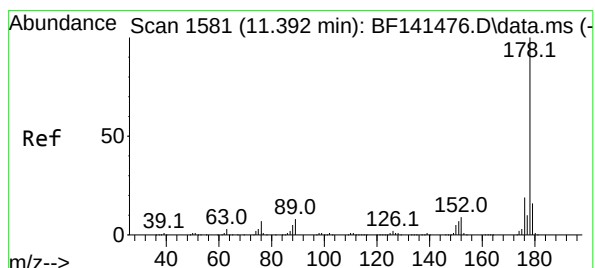
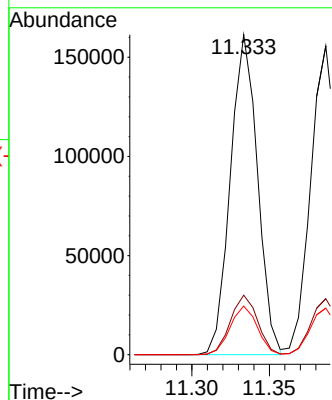
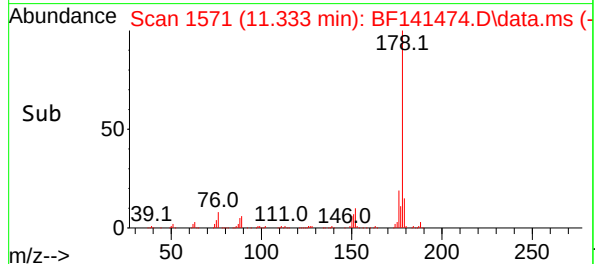
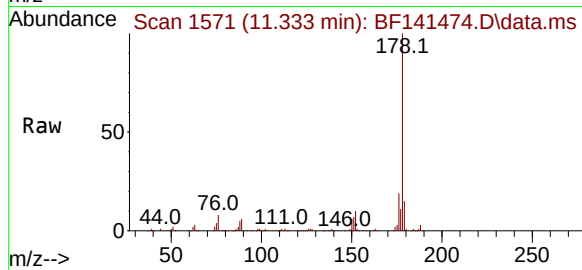
#71
Phenanthrene
Concen: 10.283 ng
RT: 11.333 min Scan# 1571
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 196580
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.0
179 15.2 12.4 18.6

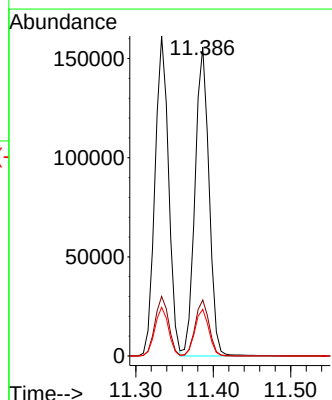
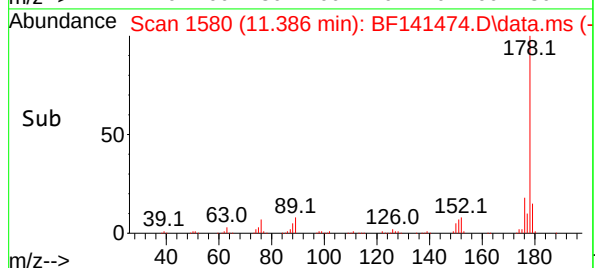
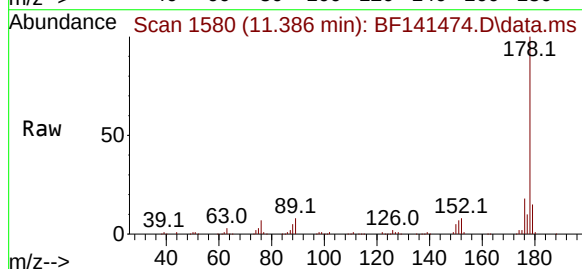
Manual Integrations
APPROVED

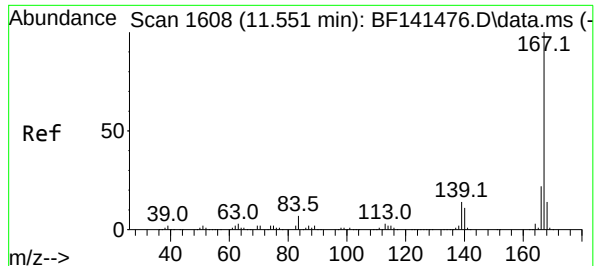
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#72
Anthracene
Concen: 10.174 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

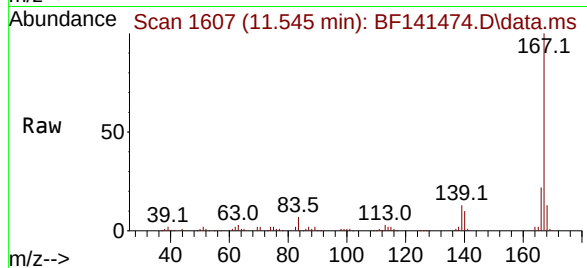
Tgt Ion:178 Resp: 195528
Ion Ratio Lower Upper
178 100
176 18.1 14.8 22.2
179 15.1 12.4 18.6





#73
Carbazole
Concen: 10.306 ng
RT: 11.545 min Scan# 1607
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

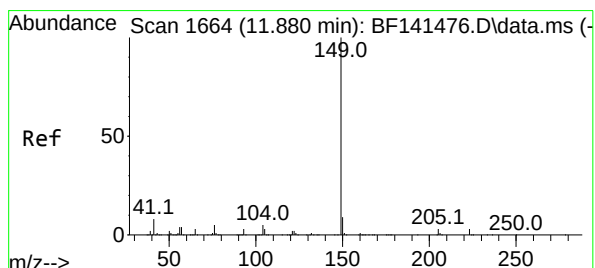
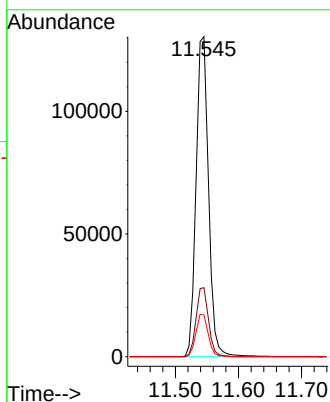
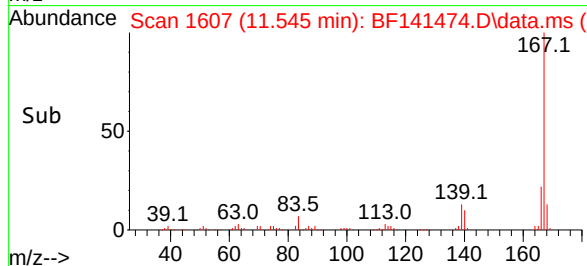
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



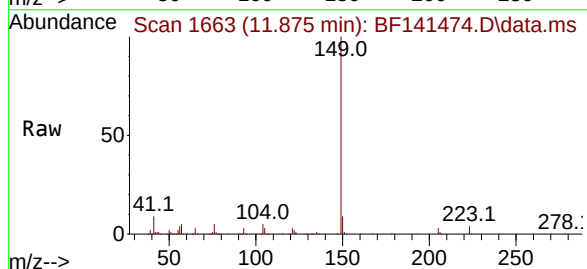
Tgt Ion:167 Resp: 17822
Ion Ratio Lower Upper
167 100
166 21.6 17.4 26.2
139 13.0 10.9 16.3

Manual Integrations
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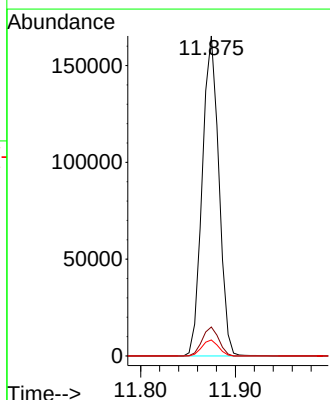
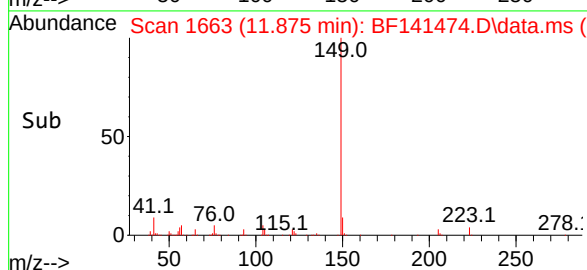
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

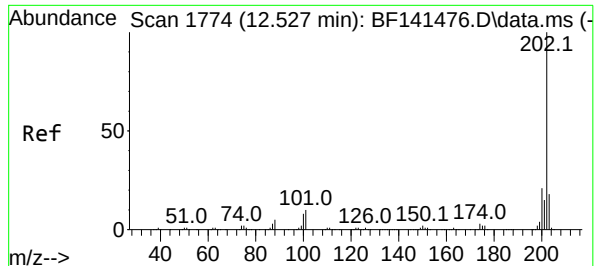


#74
Di-n-butylphthalate
Concen: 10.057 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



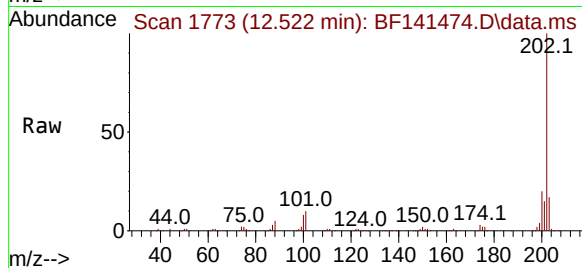
Tgt Ion:149 Resp: 200806
Ion Ratio Lower Upper
149 100
150 9.1 7.4 11.0
104 5.0 4.2 6.2





#75
Fluoranthene
Concen: 10.618 ng
RT: 12.522 min Scan# 1773
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

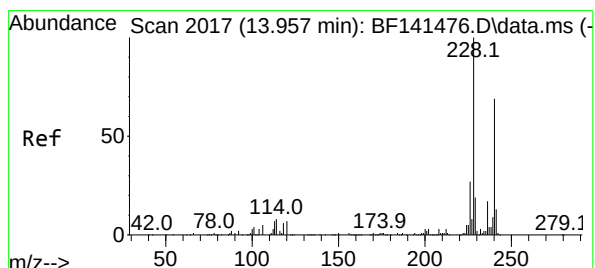
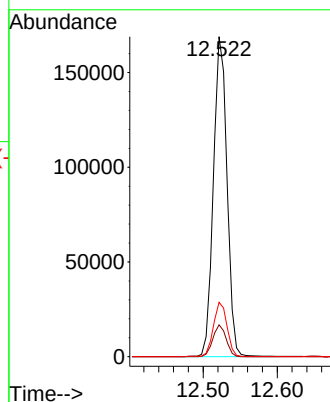
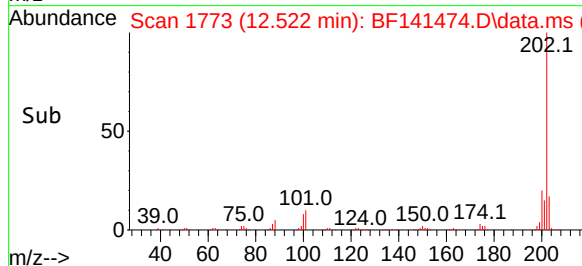
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:202 Resp: 215218
Ion Ratio Lower Upper
202 100
101 9.9 0.0 30.2
203 17.0 0.0 37.6

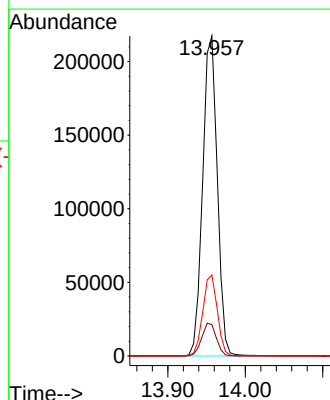
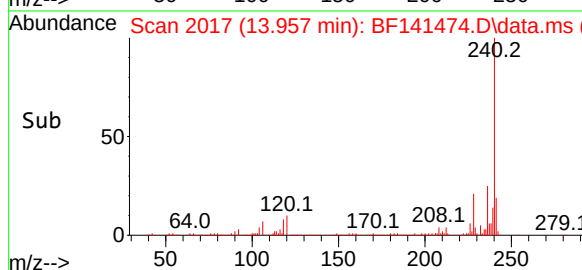
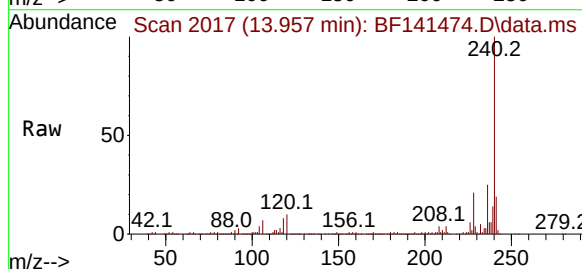
Manual Integrations
APPROVED

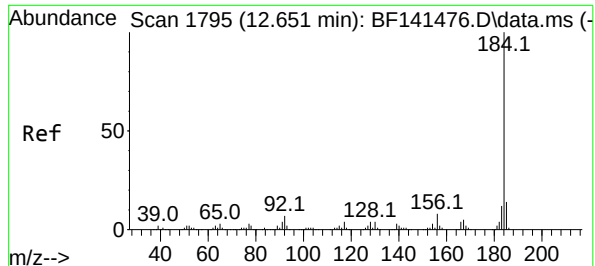
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

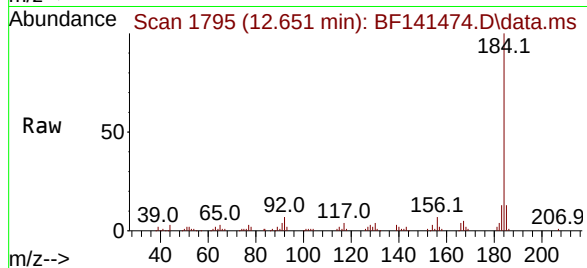
Tgt Ion:240 Resp: 284792
Ion Ratio Lower Upper
240 100
120 9.8 8.0 12.0
236 25.3 19.8 29.8





#77
Benzidine
Concen: 11.050 ng
RT: 12.651 min Scan# 1795
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

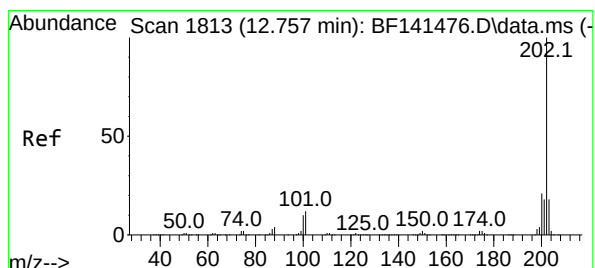
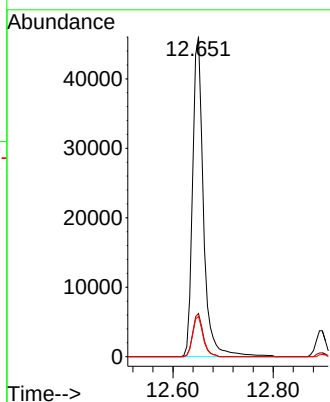
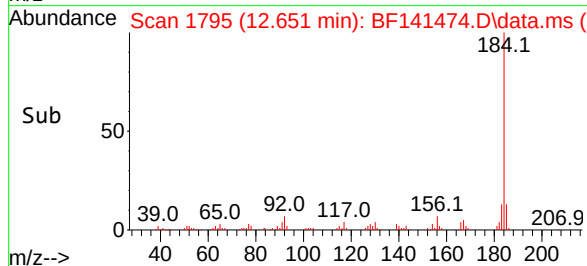
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



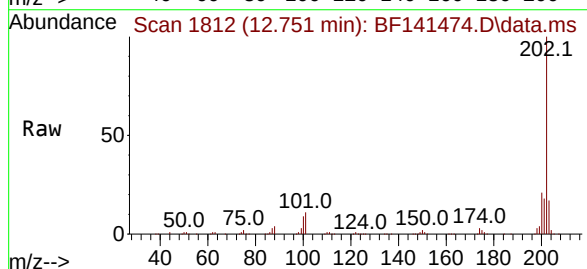
Tgt Ion:184 Resp: 69402
Ion Ratio Lower Upper
184 100
185 13.5 11.3 16.9
183 12.6 9.3 13.9

Manual Integrations
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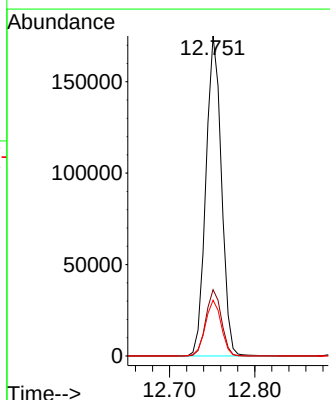
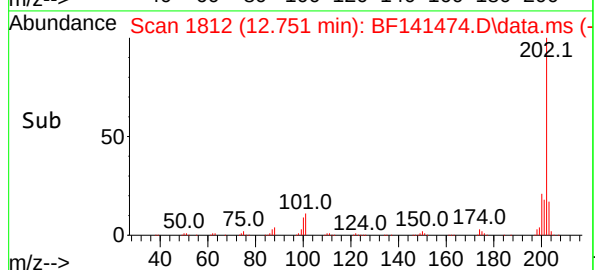
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

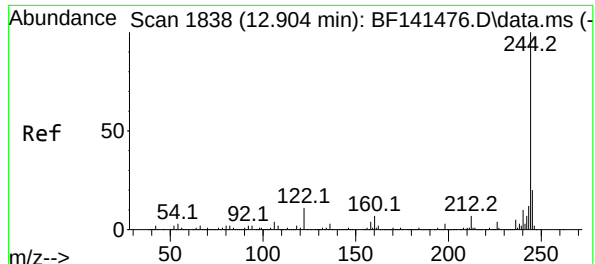


#78
Pyrene
Concen: 9.146 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



Tgt Ion:202 Resp: 221721
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 17.4 14.3 21.5





#79

Terphenyl-d14

Concen: 18.645 ng

RT: 12.898 min Scan# 1837

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:244 Resp: 31454

Ion Ratio Lower Upper

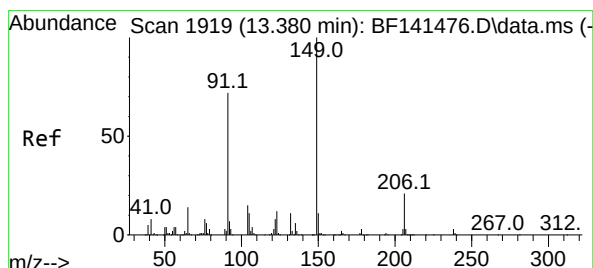
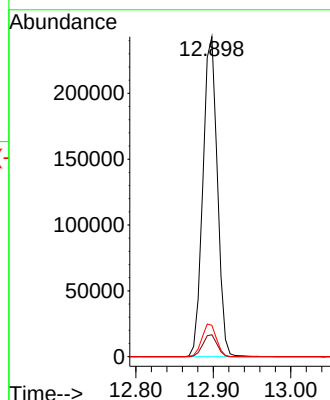
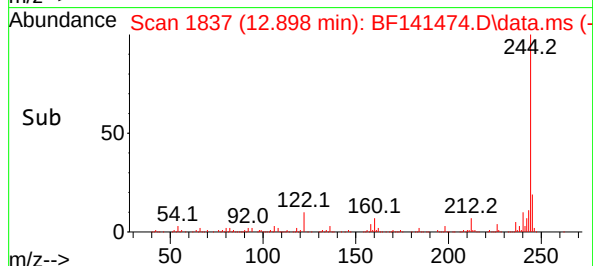
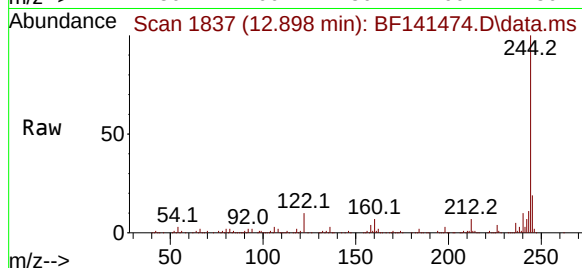
244 100

212 6.8 5.6 8.4

122 9.8 8.4 12.6

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#80

Butylbenzylphthalate

Concen: 9.152 ng

RT: 13.374 min Scan# 1918

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

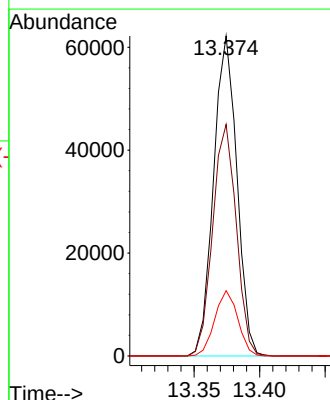
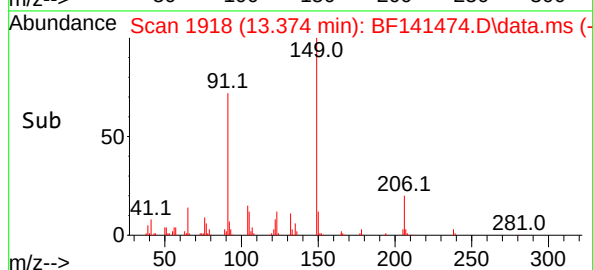
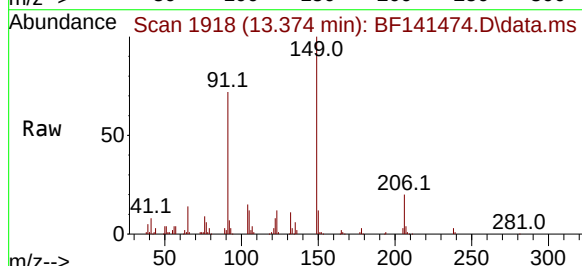
Tgt Ion:149 Resp: 76852

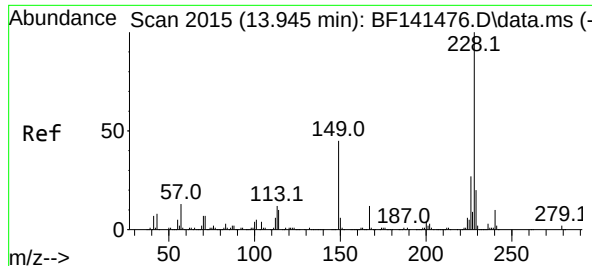
Ion Ratio Lower Upper

149 100

91 72.3 57.8 86.8

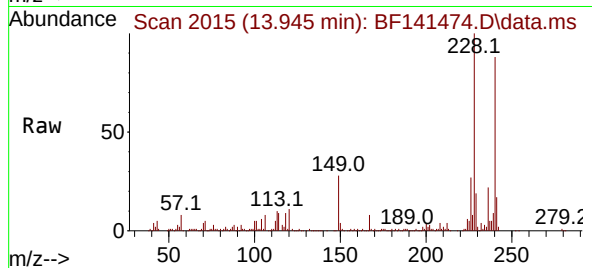
206 20.4 16.7 25.1





#81
Benzo(a)anthracene
Concen: 10.021 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

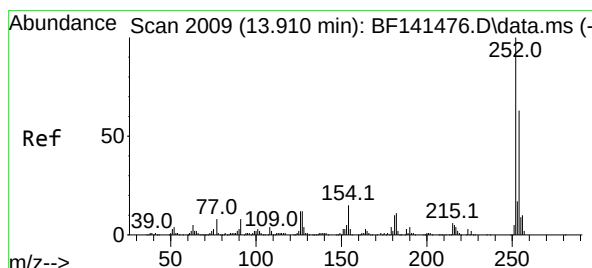
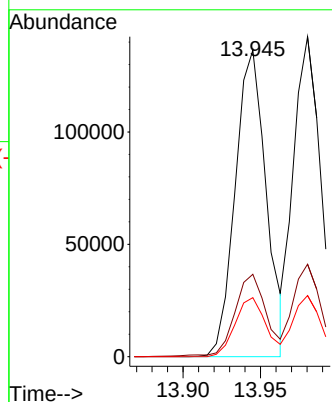
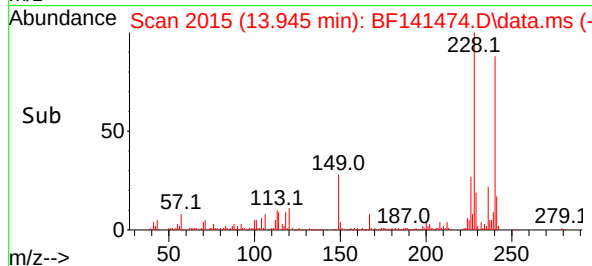
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:228 Resp: 18970
Ion Ratio Lower Upper
228 100
226 26.9 21.8 32.8
229 19.3 15.8 23.6

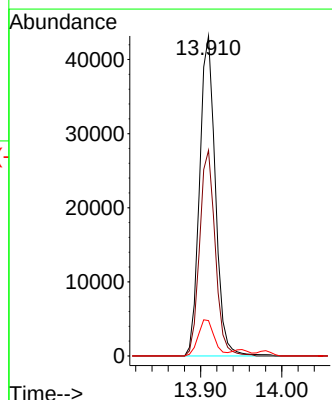
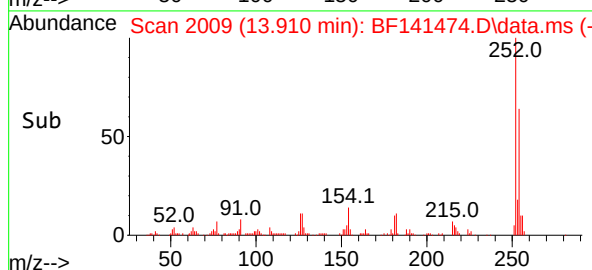
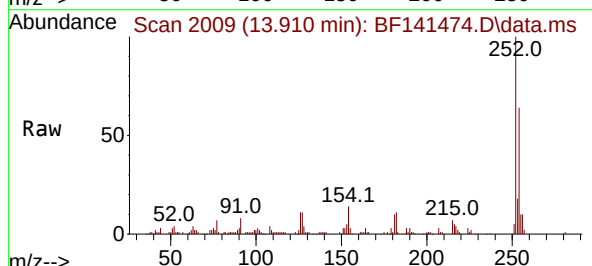
Manual Integrations
APPROVED

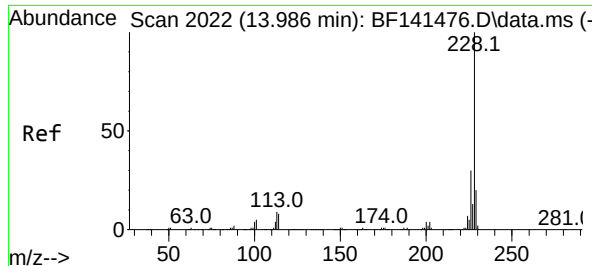
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#82
3,3'-Dichlorobenzidine
Concen: 10.785 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

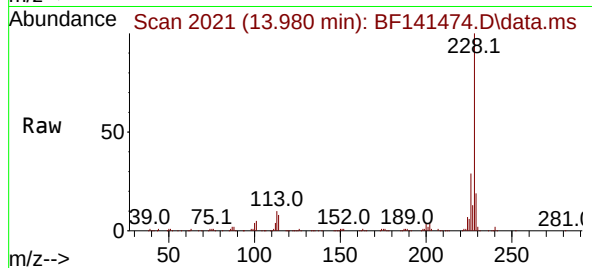
Tgt Ion:252 Resp: 58487
Ion Ratio Lower Upper
252 100
254 64.3 50.6 76.0
126 11.1 9.3 13.9





#83
Chrysene
Concen: 9.960 ng
RT: 13.980 min Scan# 2013
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

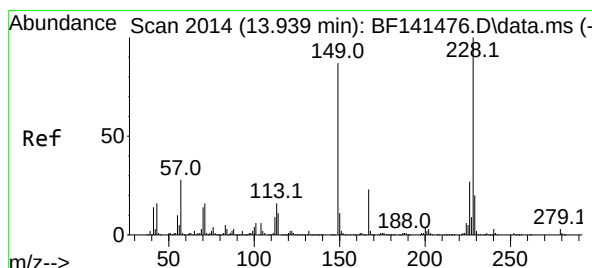
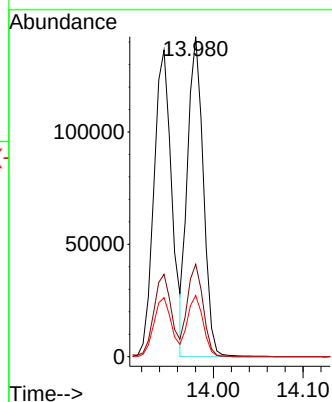
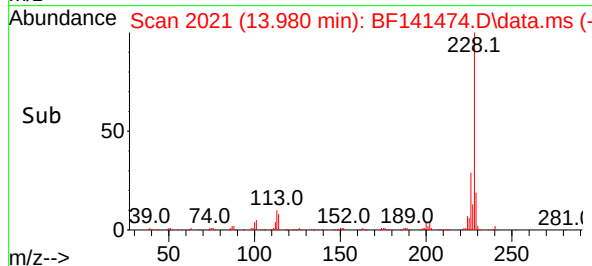
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:228 Resp: 17410
Ion Ratio Lower Upper
228 100
226 28.9 24.0 36.0
229 19.1 15.7 23.5

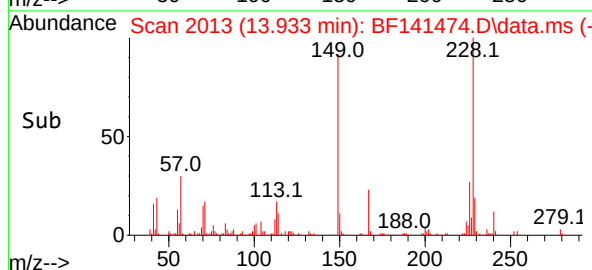
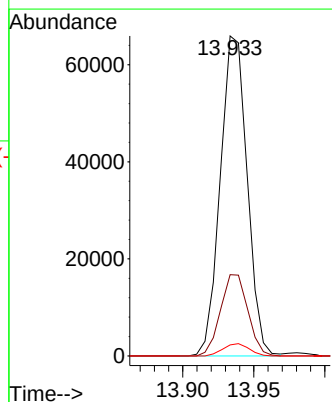
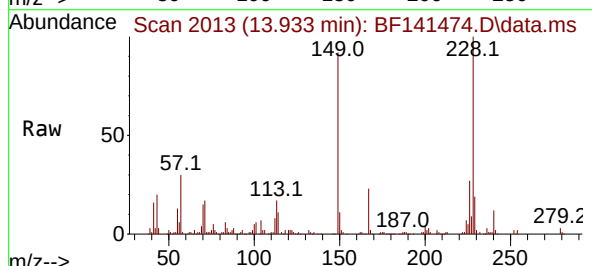
Manual Integrations
APPROVED

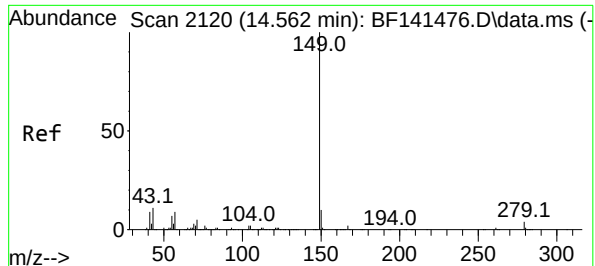
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 9.171 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

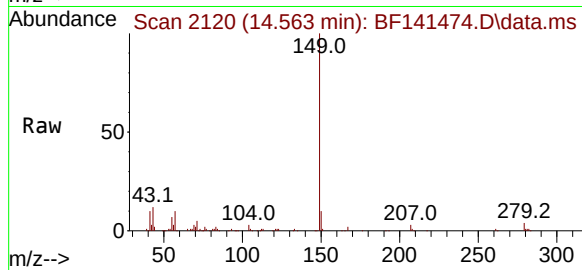
Tgt Ion:149 Resp: 86853
Ion Ratio Lower Upper
149 100
167 25.4 21.4 32.0
279 3.5 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 8.576 ng
RT: 14.563 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

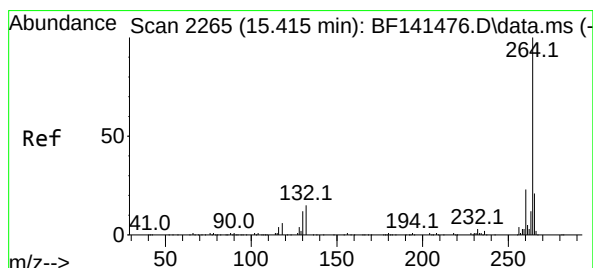
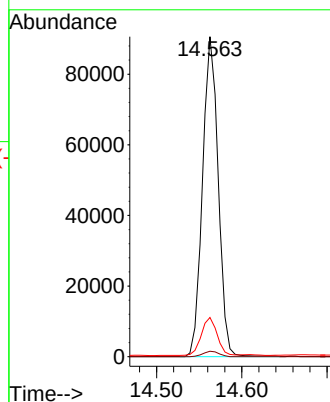
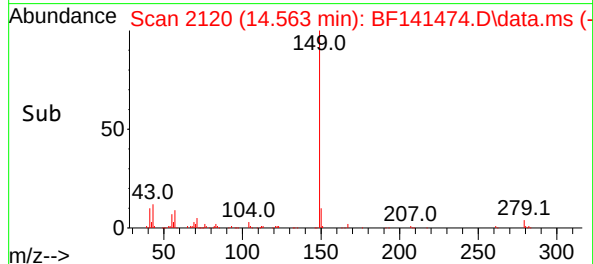
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



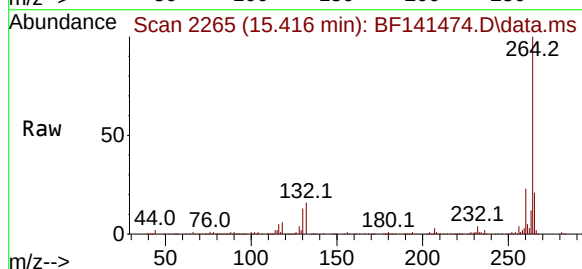
Tgt Ion:149 Resp: 115875
Ion Ratio Lower Upper
149 100
167 1.7 1.3 1.9
43 12.1 9.5 14.3

Manual Integrations
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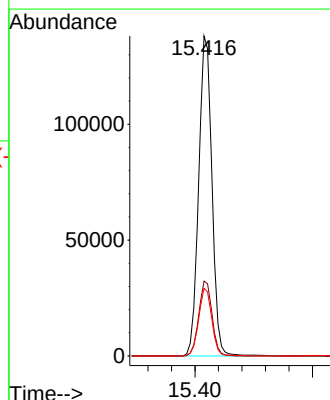
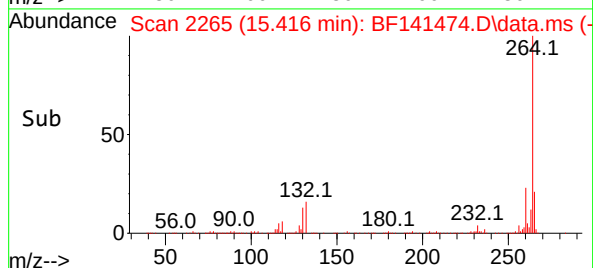
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

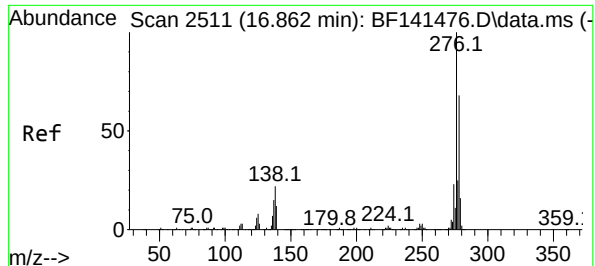


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00



Tgt Ion:264 Resp: 215900
Ion Ratio Lower Upper
264 100
260 23.4 18.6 28.0
265 21.2 17.0 25.4





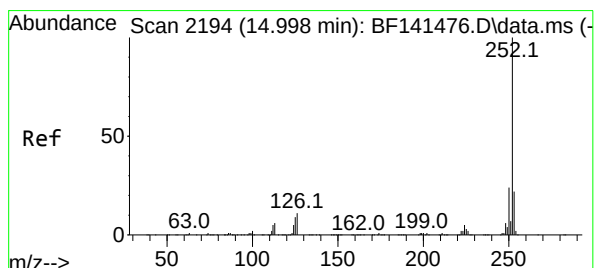
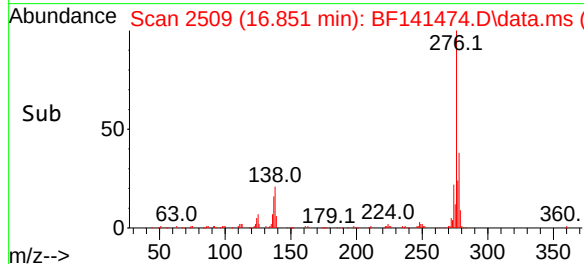
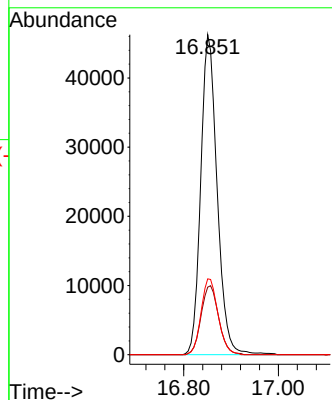
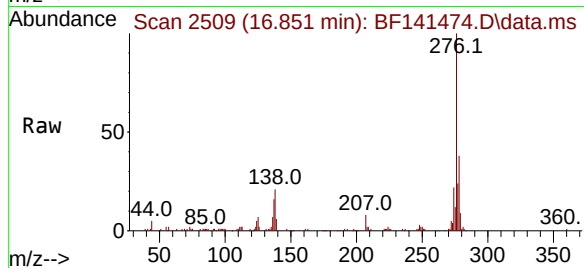
#87
Indeno(1,2,3-cd)pyrene
Concen: 8.327 ng
RT: 16.851 min Scan# 21108
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 11108
Ion Ratio Lower Upper
276 100
138 23.1 18.0 27.0
277 24.5 20.4 30.6

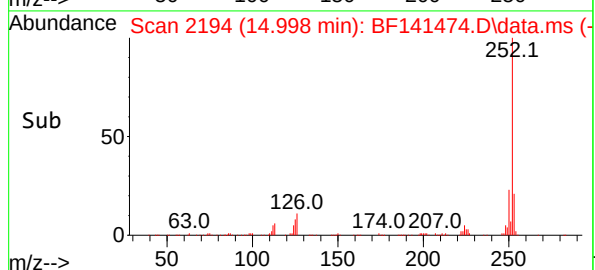
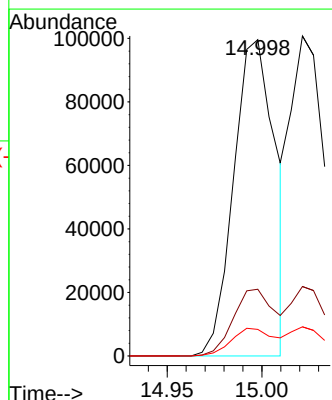
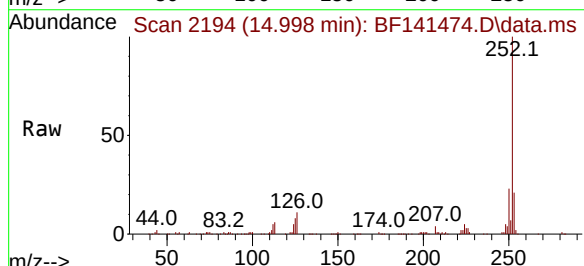
Manual Integrations
APPROVED

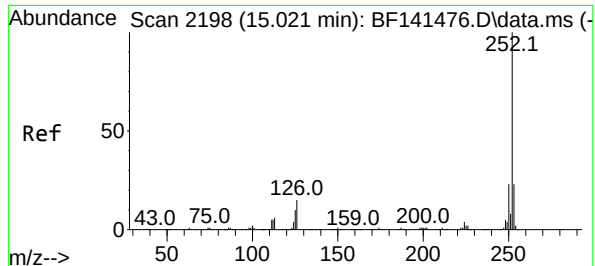
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#88
Benzo(b)fluoranthene
Concen: 10.476 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 151861
Ion Ratio Lower Upper
252 100
253 21.1 17.5 26.3
125 8.4 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 10.604 ng

RT: 15.021 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:252 Resp: 13126

Ion Ratio Lower Upper

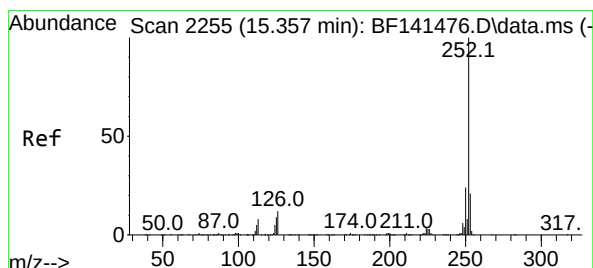
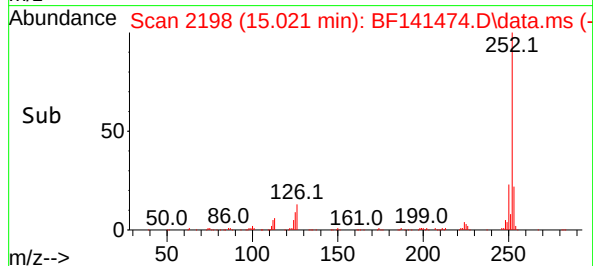
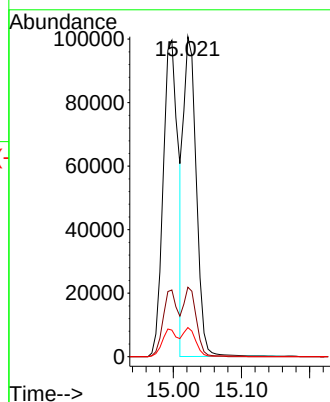
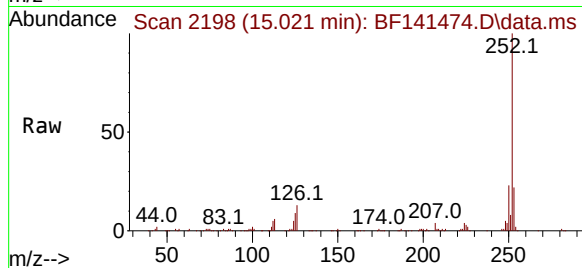
252 100

253 21.7 18.0 27.0

125 9.1 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#90

Benzo(a)pyrene

Concen: 9.885 ng

RT: 15.357 min Scan# 2255

Delta R.T. -0.006 min

Lab File: BF141474.D

Acq: 06 Feb 2025 12:00

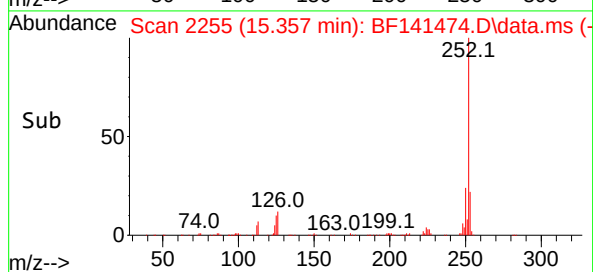
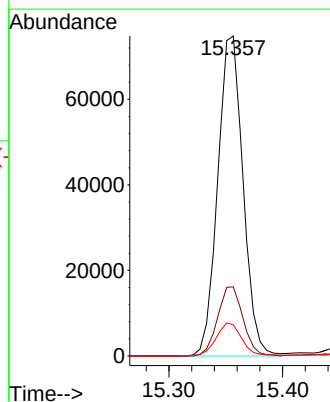
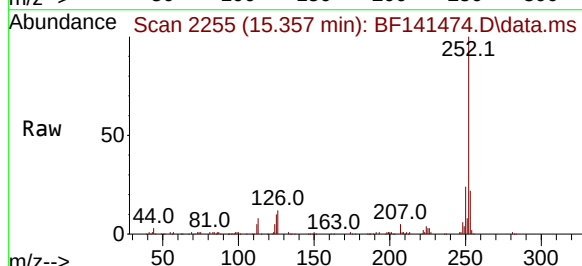
Tgt Ion:252 Resp: 115948

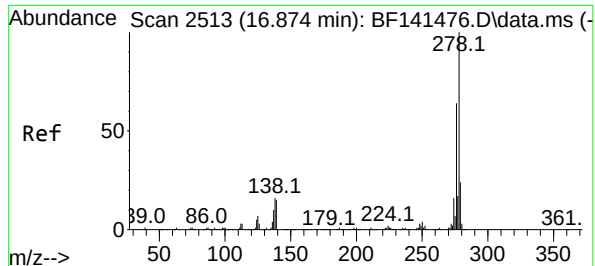
Ion Ratio Lower Upper

252 100

253 21.6 17.1 25.7

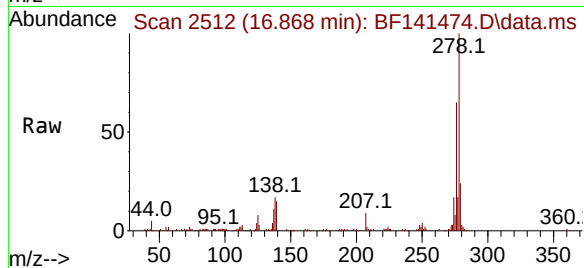
125 9.8 7.4 11.2





#91
Dibenzo(a,h)anthracene
Concen: 8.271 ng
RT: 16.868 min Scan# 2513
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

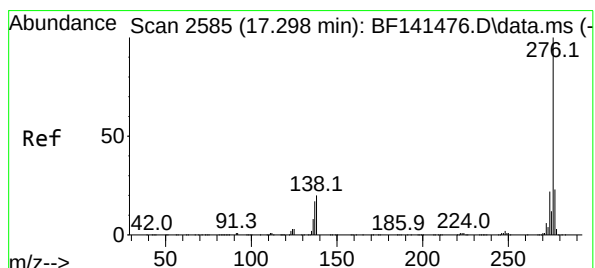
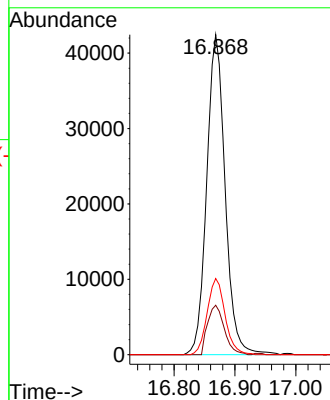
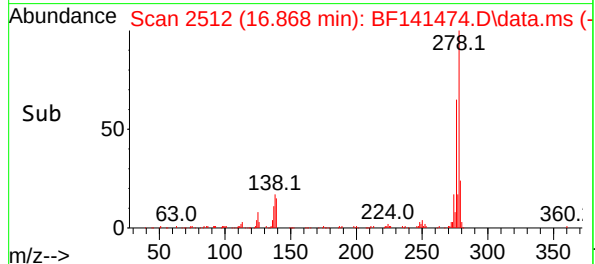
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:278 Resp: 89400
Ion Ratio Lower Upper
278 100
139 15.4 11.8 17.6
279 23.8 19.1 28.7

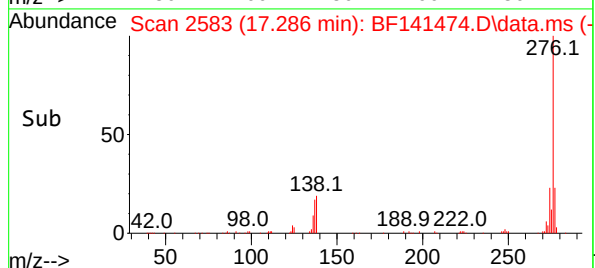
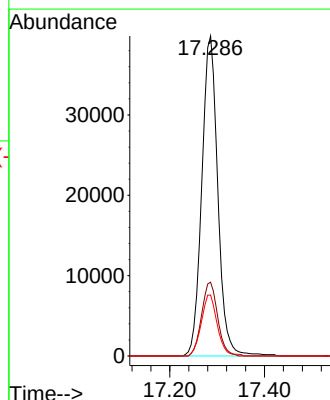
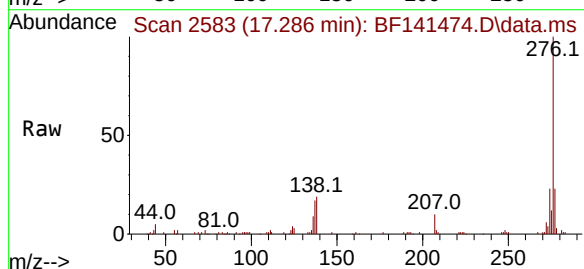
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#92
Benzo(g,h,i)perylene
Concen: 8.243 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:276 Resp: 93242
Ion Ratio Lower Upper
276 100
277 23.1 18.6 28.0
138 19.0 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141475.D
 Acq On : 06 Feb 2025 12:26
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	86149	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	348017	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193091	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	333651	20.000	ng	0.00
76) Chrysene-d12	13.957	240	251741	20.000	ng	0.00
86) Perylene-d12	15.416	264	191435	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	235106	42.785	ng	0.00
7) Phenol-d6	6.422	99	293602	42.273	ng	-0.02
23) Nitrobenzene-d5	7.351	82	275773	41.331	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	80912	41.714	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	534841	42.674	ng	0.00
79) Terphenyl-d14	12.898	244	609819	40.894	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.481	88	45027	20.359	ng	98
3) Pyridine	3.211	79	112903	21.453	ng	96
4) n-Nitrosodimethylamine	3.152	42	70658	20.276	ng	98
6) Aniline	6.446	93	142156	21.820	ng	97
8) 2-Chlorophenol	6.575	128	124573	20.980	ng	98
9) Benzaldehyde	6.340	77	84531	22.903	ng	98
10) Phenol	6.440	94	156515	21.652	ng	96
11) bis(2-Chloroethyl)ether	6.522	93	111675	20.568	ng	98
12) 1,3-Dichlorobenzene	6.728	146	133906	21.362	ng	99
13) 1,4-Dichlorobenzene	6.804	146	135357	21.134	ng	99
14) 1,2-Dichlorobenzene	6.957	146	126931	21.354	ng	99
15) Benzyl Alcohol	6.928	79	113901	21.386	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	199281	21.441	ng	99
17) 2-Methylphenol	7.046	107	96607	20.792	ng	99
18) Hexachloroethane	7.298	117	50745	21.409	ng	99
19) n-Nitroso-di-n-propyla...	7.199	70	89512	21.546	ng	99
20) 3+4-Methylphenols	7.199	107	125707	21.287	ng	91
22) Acetophenone	7.199	105	181333	20.946	ng	100
24) Nitrobenzene	7.369	77	133285	20.485	ng	99
25) Isophorone	7.604	82	220291	20.706	ng	99
26) 2-Nitrophenol	7.687	139	66195	20.449	ng	98
27) 2,4-Dimethylphenol	7.728	122	76751	20.296	ng	97
28) bis(2-Chloroethoxy)met...	7.822	93	142151	20.852	ng	99
29) 2,4-Dichlorophenol	7.934	162	108456	21.227	ng	97
30) 1,2,4-Trichlorobenzene	8.010	180	115050	20.678	ng	100
31) Naphthalene	8.093	128	381547	21.062	ng	99
32) Benzoic acid	7.828	122	75462	19.212	ng	99
33) 4-Chloroaniline	8.146	127	132911	21.014	ng	98
34) Hexachlorobutadiene	8.210	225	69492	20.804	ng	98
35) Caprolactam	8.498	113	32746	21.050	ng	97
36) 4-Chloro-3-methylphenol	8.628	107	119021	21.029	ng	99
37) 2-Methylnaphthalene	8.781	142	250365	21.238	ng	98
38) 1-Methylnaphthalene	8.881	142	240408	21.056	ng	99
40) 1,2,4,5-Tetrachloroben...	8.945	216	115936	20.753	ng	99
41) Hexachlorocyclopentadiene	8.934	237	34729	18.691	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	75161	20.817	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141475.D
 Acq On : 06 Feb 2025 12:26
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025

Quant Time: Feb 06 16:00:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	83112	21.240	ng	97
46) 1,1'-Biphenyl	9.245	154	315040	21.045	ng	99
47) 2-Chloronaphthalene	9.269	162	233789	21.119	ng	99
48) 2-Nitroaniline	9.369	65	75990	20.455	ng	99
49) Acenaphthylene	9.687	152	345829	21.004	ng	99
50) Dimethylphthalate	9.545	163	271920	20.744	ng	100
51) 2,6-Dinitrotoluene	9.610	165	60700	21.182	ng	98
52) Acenaphthene	9.857	154	229442m	20.728	ng	
53) 3-Nitroaniline	9.781	138	64626	20.954	ng	96
54) 2,4-Dinitrophenol	9.887	184	32186	18.898	ng	98
55) Dibenzofuran	10.028	168	342620	21.087	ng	100
56) 4-Nitrophenol	9.951	139	47721	20.843	ng	96
57) 2,4-Dinitrotoluene	10.016	165	79865	20.936	ng	95
58) Fluorene	10.375	166	265810	21.159	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	69328	20.579	ng	100
60) Diethylphthalate	10.245	149	270018	20.936	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	127216	21.049	ng	97
62) 4-Nitroaniline	10.387	138	64262	20.519	ng	98
63) Azobenzene	10.528	77	267372	20.853	ng	98
65) 4,6-Dinitro-2-methylph...	10.422	198	46877	20.226	ng	99
66) n-Nitrosodiphenylamine	10.487	169	224776	21.045	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	78167	20.962	ng	97
68) Hexachlorobenzene	10.922	284	80301	20.913	ng	97
69) Atrazine	11.010	200	71359	22.271	ng	97
70) Pentachlorophenol	11.122	266	50539	20.584	ng	98
71) Phenanthrene	11.339	178	387256	21.085	ng	99
72) Anthracene	11.386	178	386414	20.930	ng	100
73) Carbazole	11.545	167	358987	21.610	ng	99
74) Di-n-butylphthalate	11.875	149	408041	21.273	ng	100
75) Fluoranthene	12.528	202	414712	21.298	ng	99
77) Benzidine	12.651	184	84013	15.132	ng	98
78) Pyrene	12.757	202	432216	20.169	ng	99
80) Butylbenzylphthalate	13.375	149	152184	20.502	ng	99
81) Benzo(a)anthracene	13.945	228	339877	20.310	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	102367	21.355	ng	98
83) Chrysene	13.980	228	330823	21.411	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	172352	20.588	ng	99
85) Di-n-octyl phthalate	14.563	149	229060	19.180	ng	99
87) Indeno(1,2,3-cd)pyrene	16.857	276	227105	19.200	ng	99
88) Benzo(b)fluoranthene	14.998	252	267695	20.826	ng	100
89) Benzo(k)fluoranthene	15.022	252	238695	21.747	ng	97
90) Benzo(a)pyrene	15.357	252	213510	20.528	ng	100
91) Dibenzo(a,h)anthracene	16.868	278	185740	19.379	ng	98
92) Benzo(g,h,i)perylene	17.286	276	191595	19.103	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

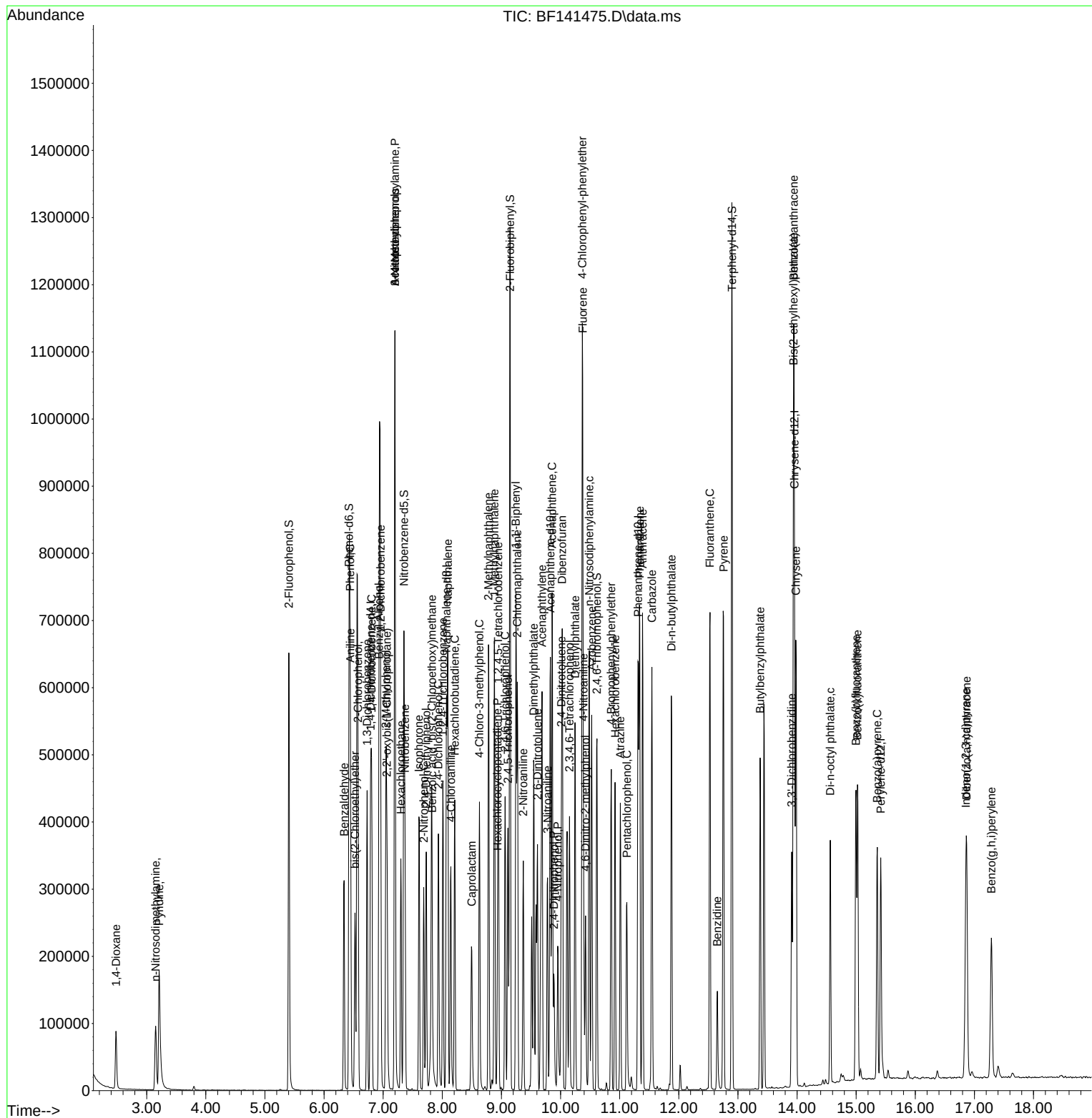
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141475.D
 Acq On : 06 Feb 2025 12:26
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

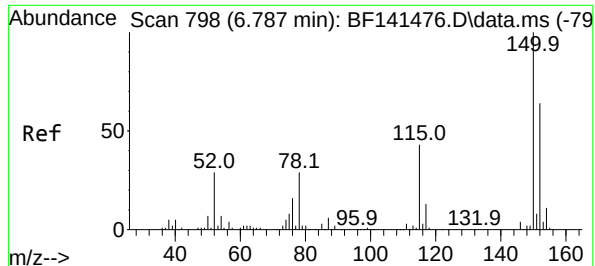
Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC020

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Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025

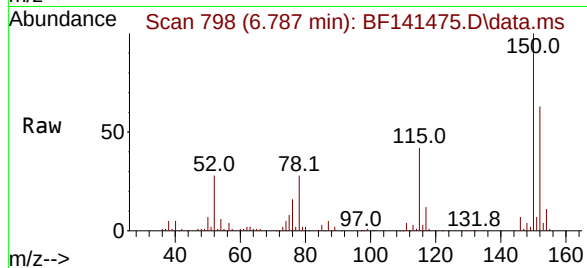
Quant Time: Feb 06 16:00:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

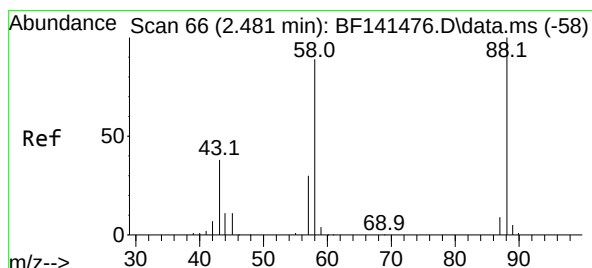
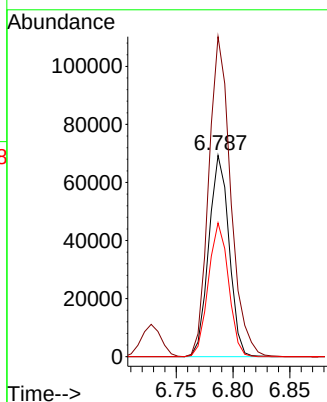
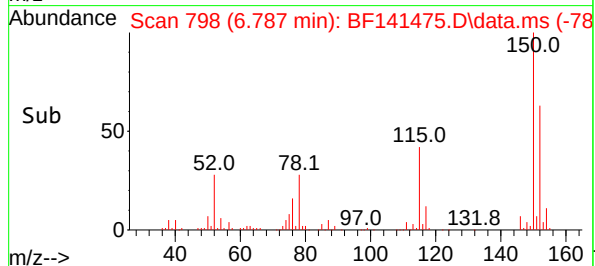
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:152 Resp: 86149
Ion Ratio Lower Upper
152 100
150 159.0 125.0 187.4
115 66.4 53.6 80.4

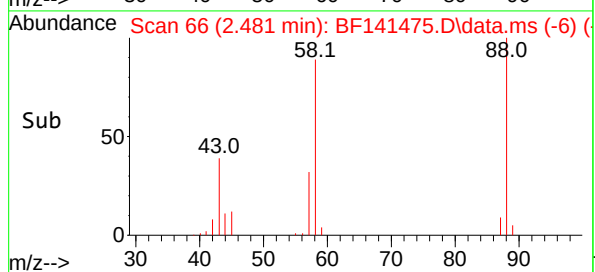
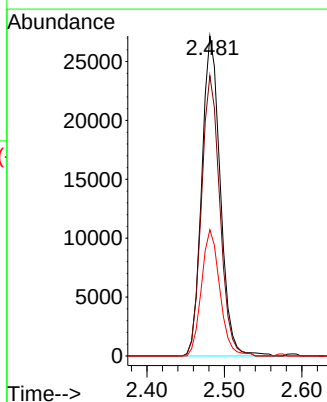
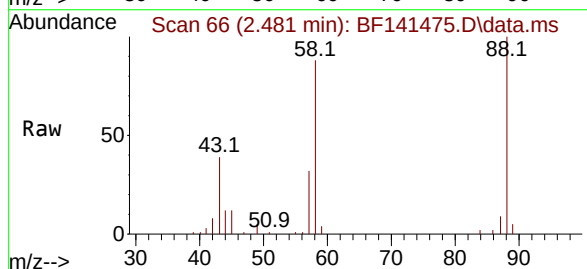
Manual Integrations
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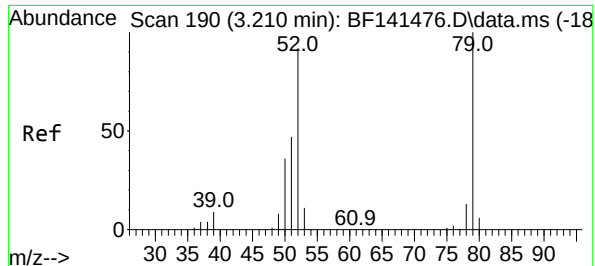
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#2
1,4-Dioxane
Concen: 20.359 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 88 Resp: 45027
Ion Ratio Lower Upper
88 100
58 87.1 71.1 106.7
43 39.2 30.6 46.0





#3

Pyridine

Concen: 21.453 ng

RT: 3.211 min Scan# 190

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 79 Resp: 11290

Ion Ratio Lower Upper

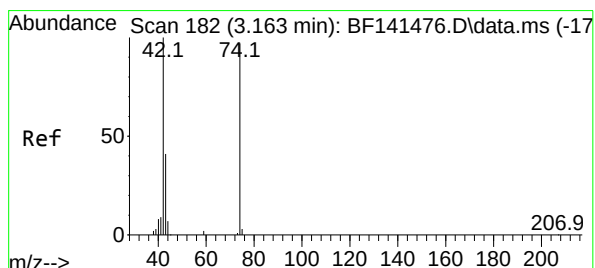
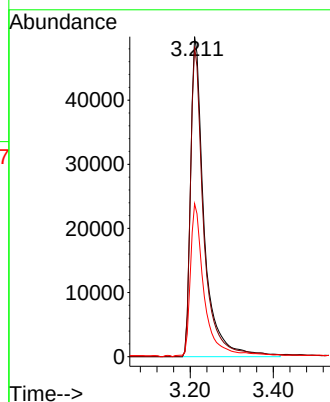
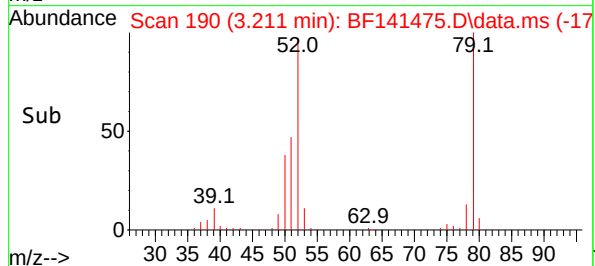
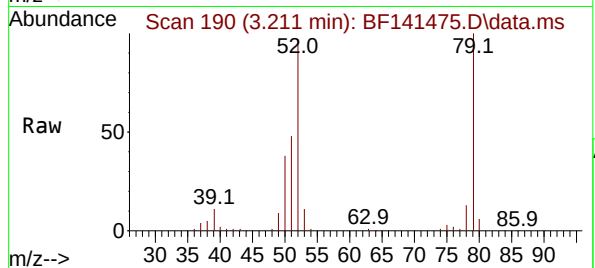
79 100

52 96.9 73.7 110.5

51 47.8 37.5 56.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#4

n-Nitrosodimethylamine

Concen: 20.276 ng

RT: 3.152 min Scan# 180

Delta R.T. -0.035 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

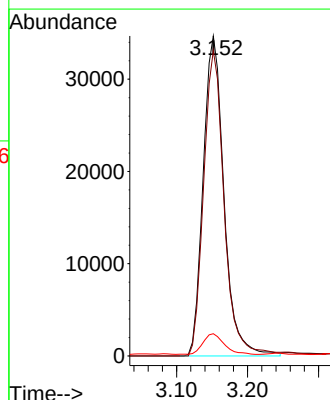
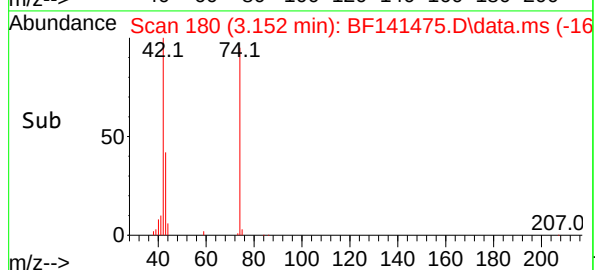
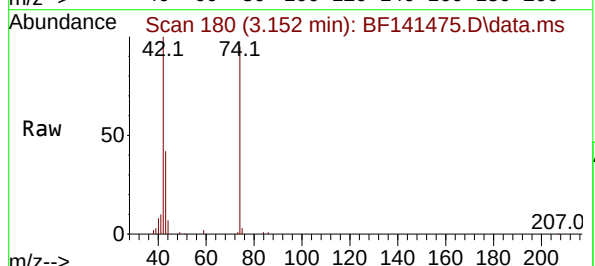
Tgt Ion: 42 Resp: 70658

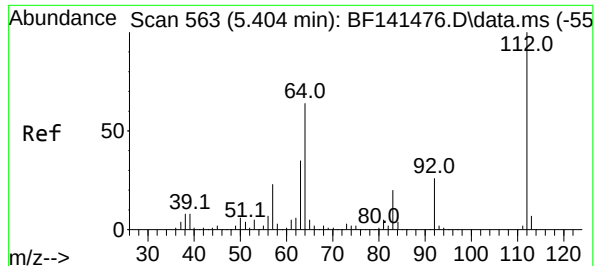
Ion Ratio Lower Upper

42 100

74 95.4 78.0 117.0

44 7.0 5.4 8.2





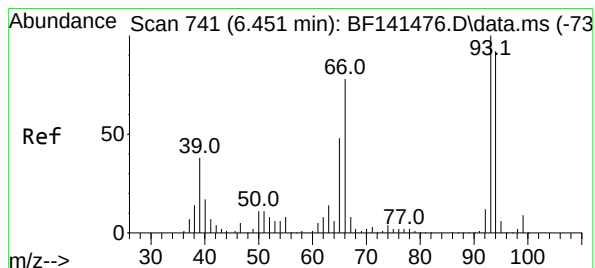
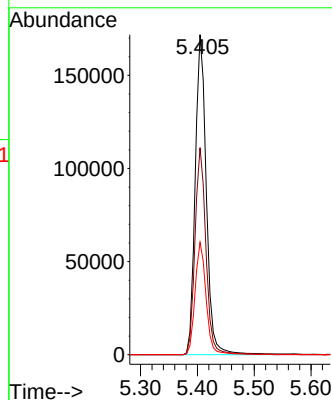
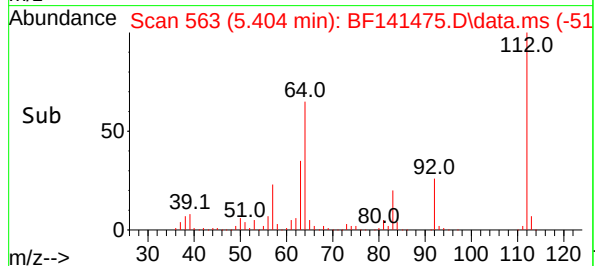
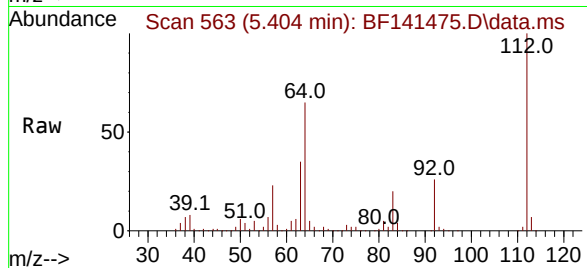
#5
2-Fluorophenol
Concen: 42.785 ng
RT: 5.404 min Scan# 50
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 235100
Ion Ratio Lower Upper
112 100
64 64.7 51.1 76.7
63 35.1 28.4 42.6

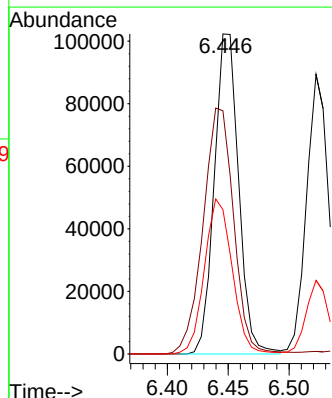
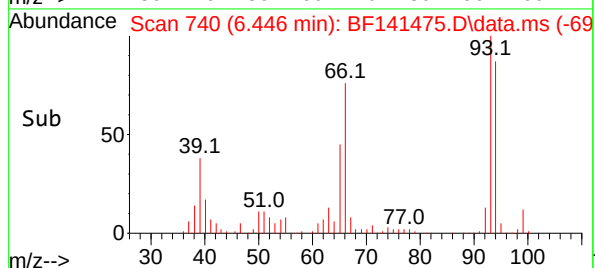
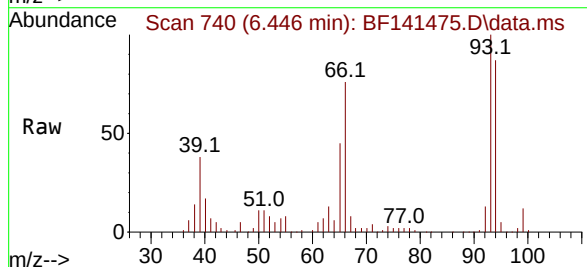
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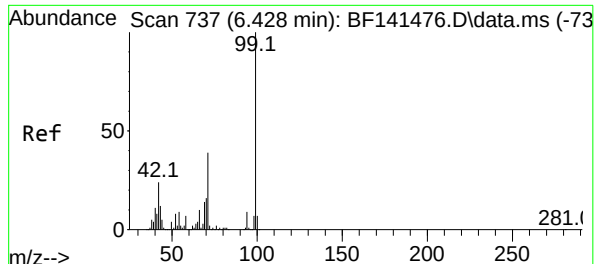
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#6
Aniline
Concen: 21.820 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142156
Ion Ratio Lower Upper
93 100
66 76.0 62.6 94.0
65 45.1 38.3 57.5





#7

Phenol-d6

Concen: 42.273 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.017 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 99 Resp: 29360

Ion Ratio Lower Upper

99 100

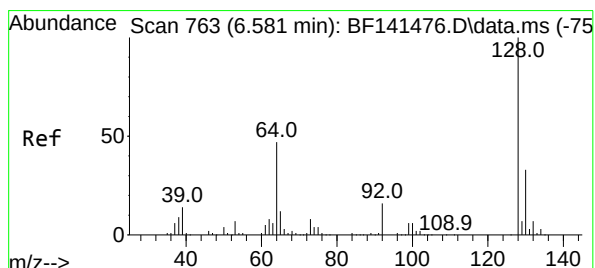
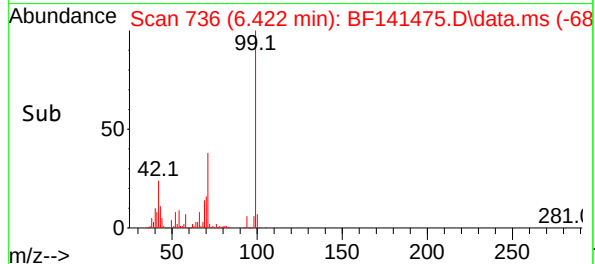
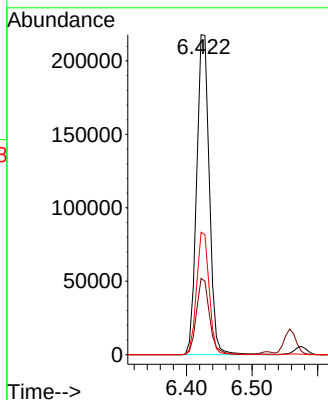
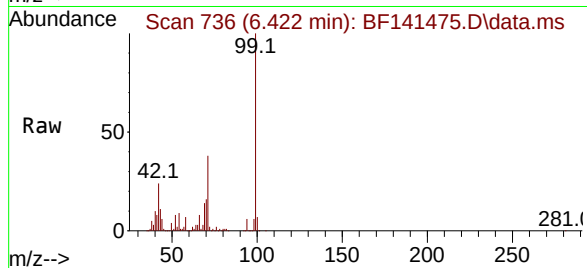
42 23.8 19.1 28.7

71 38.2 31.1 46.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
 Supervised By :mohammad ahmed 02/07/2025



#8

2-Chlorophenol

Concen: 20.980 ng

RT: 6.575 min Scan# 762

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

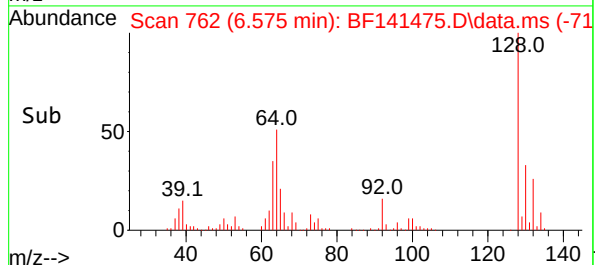
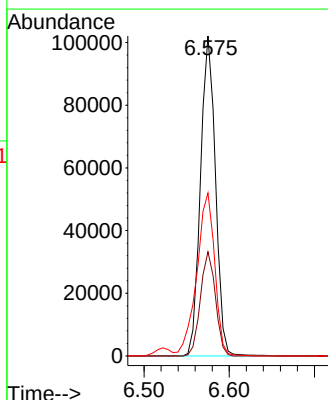
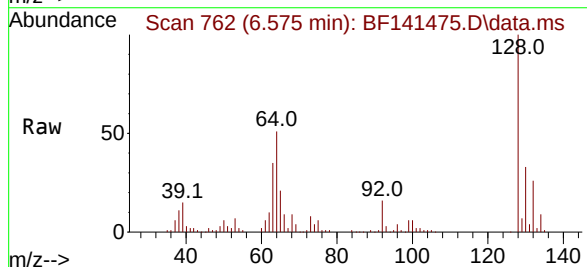
Tgt Ion:128 Resp: 124573

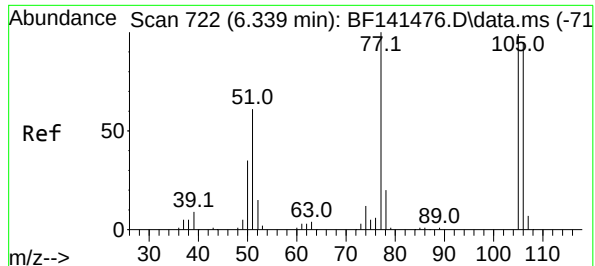
Ion Ratio Lower Upper

128 100

130 32.6 12.7 52.7

64 50.9 28.3 68.3





#9

Benzaldehyde

Concen: 22.903 ng

RT: 6.340 min Scan# 71

Delta R.T. 0.001 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 77 Resp: 8453

Ion Ratio Lower Upper

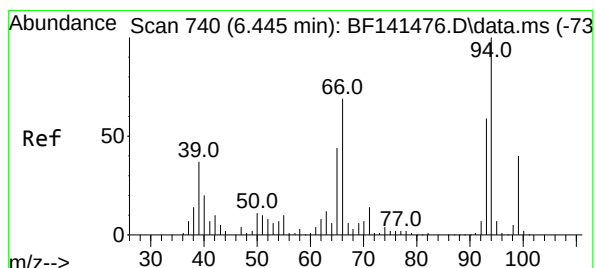
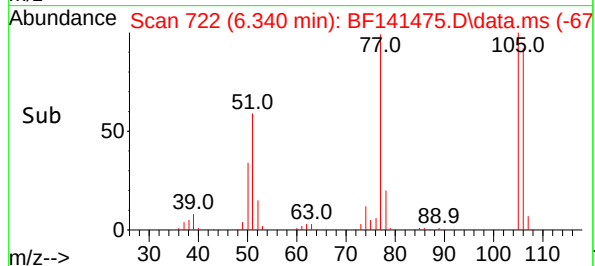
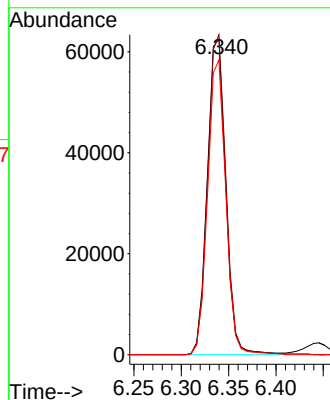
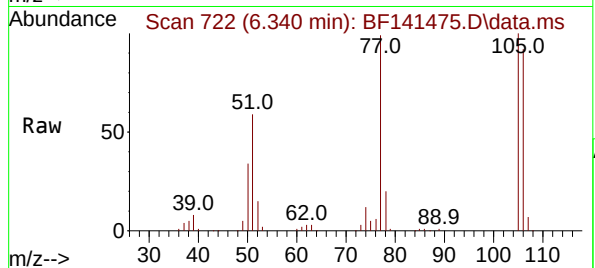
77 100

105 101.4 79.4 119.4

106 93.4 75.1 115.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#10

Phenol

Concen: 21.652 ng

RT: 6.440 min Scan# 739

Delta R.T. -0.017 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

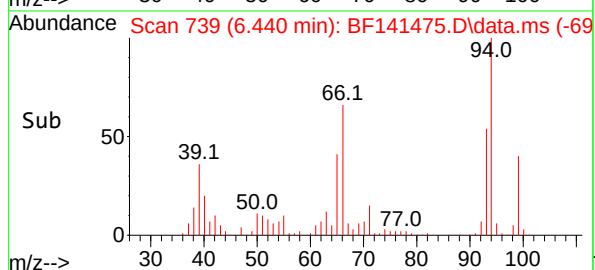
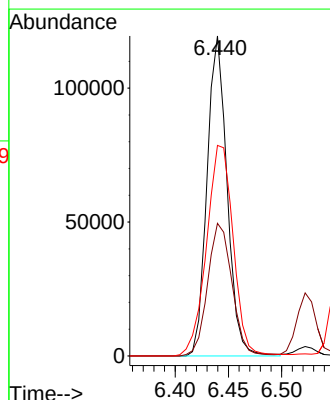
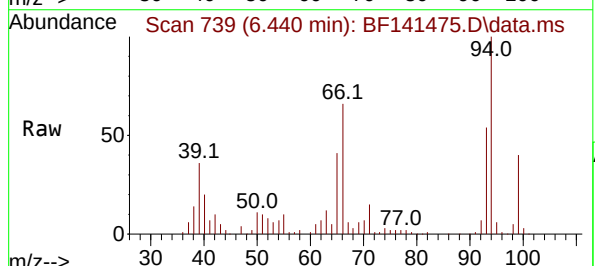
Tgt Ion: 94 Resp: 156515

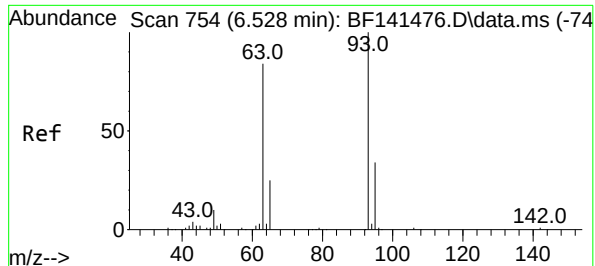
Ion Ratio Lower Upper

94 100

65 41.5 23.7 63.7

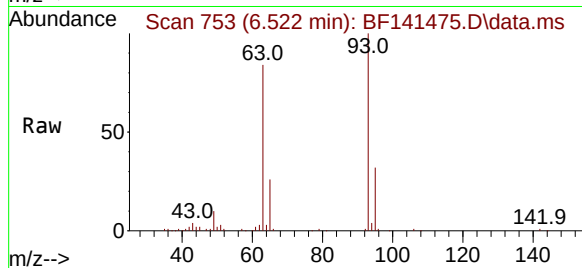
66 65.8 49.3 89.3





#11
bis(2-Chloroethyl)ether
Concen: 20.568 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

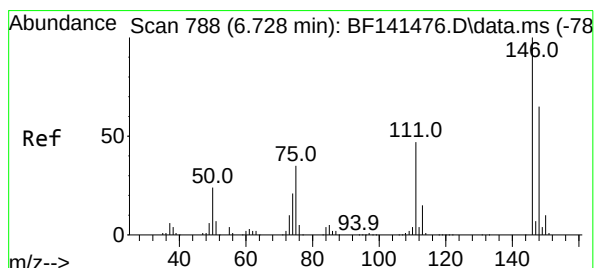
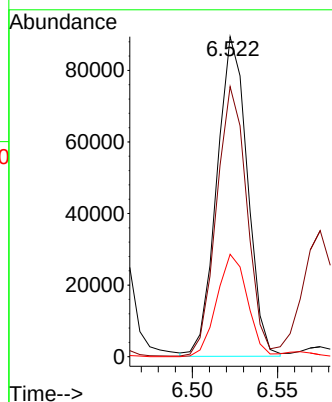
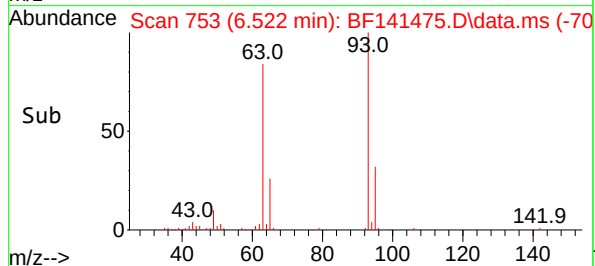
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion: 93 Resp: 11167
Ion Ratio Lower Upper
93 100
63 84.4 62.0 102.0
95 32.0 12.6 52.6

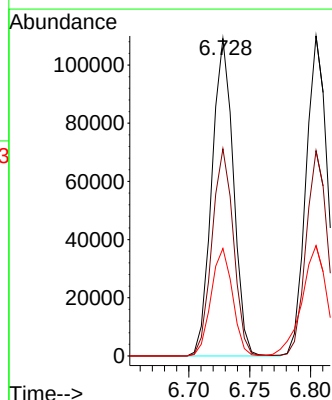
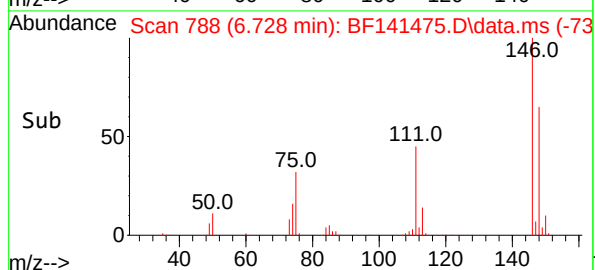
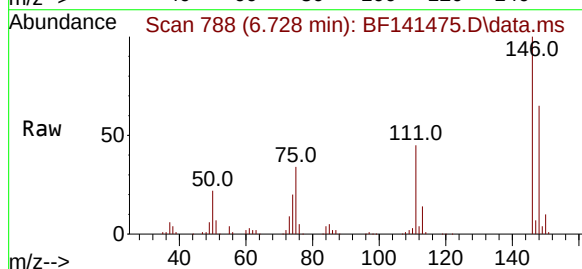
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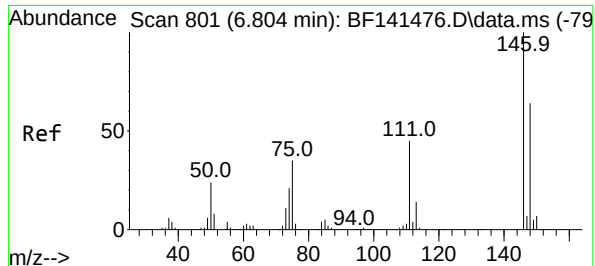
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#12
1,3-Dichlorobenzene
Concen: 21.362 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 133906
Ion Ratio Lower Upper
146 100
148 65.3 51.9 77.9
75 33.8 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 21.134 ng

RT: 6.804 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:146 Resp: 13535

Ion Ratio Lower Upper

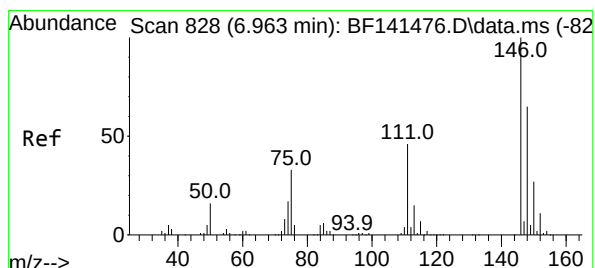
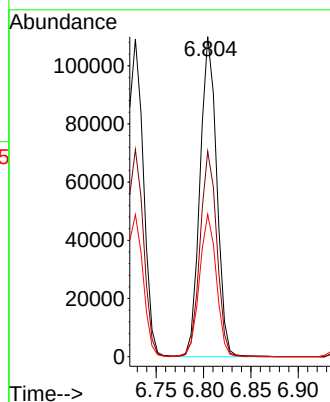
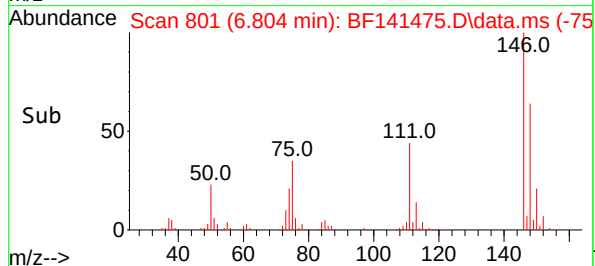
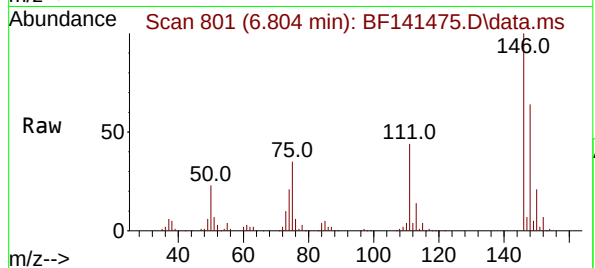
146 100

148 64.2 50.9 76.3

111 44.5 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#14

1,2-Dichlorobenzene

Concen: 21.354 ng

RT: 6.957 min Scan# 827

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

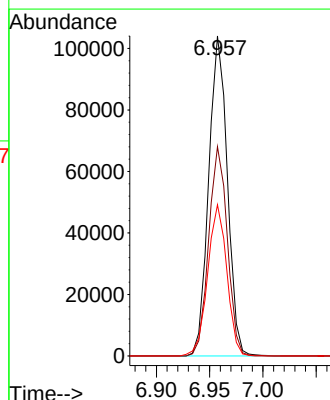
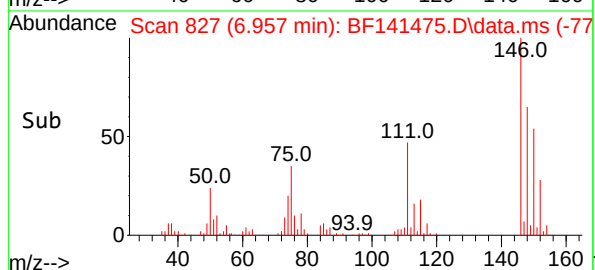
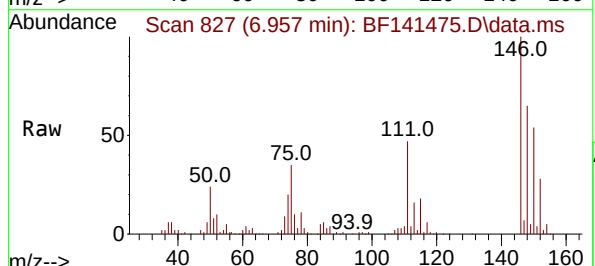
Tgt Ion:146 Resp: 126931

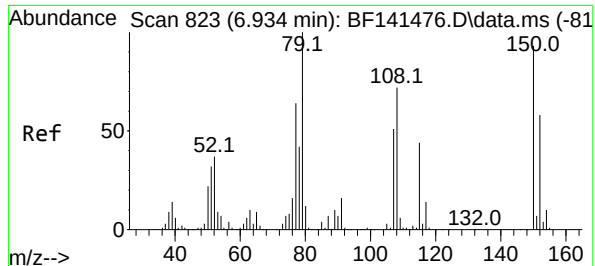
Ion Ratio Lower Upper

146 100

148 65.4 51.8 77.6

111 47.3 37.0 55.4





#15
Benzyl Alcohol
Concen: 21.386 ng
RT: 6.928 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

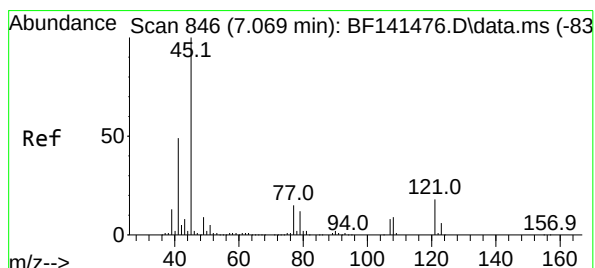
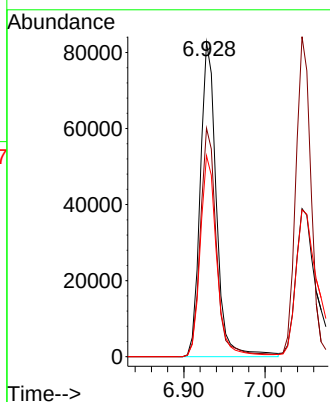
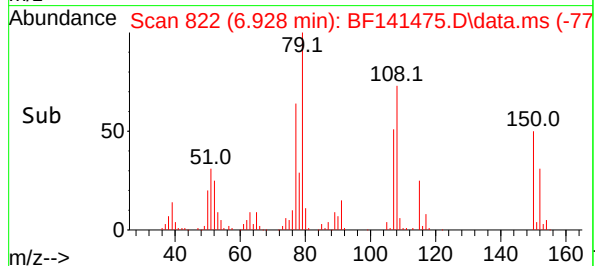
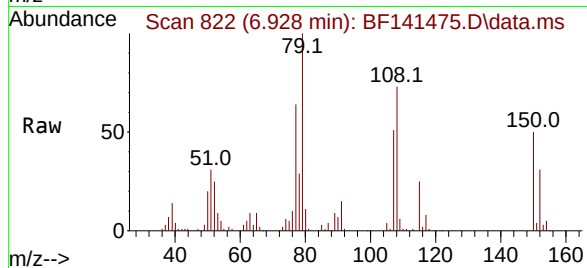
ClientSampleId :

SSTDICC020

Tgt Ion: 79 Resp: 11390
Ion Ratio Lower Upper
79 100
108 72.6 57.4 86.2
77 63.9 50.9 76.3

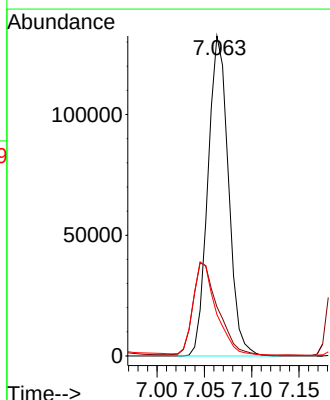
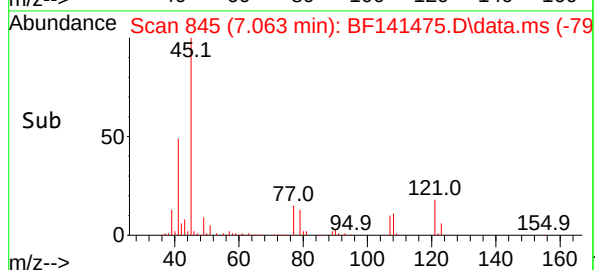
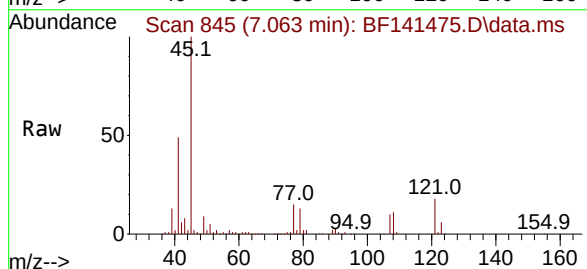
Manual Integrations
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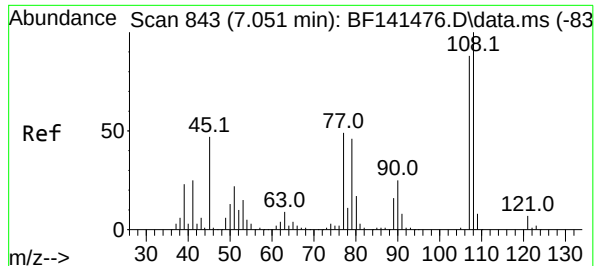
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.441 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

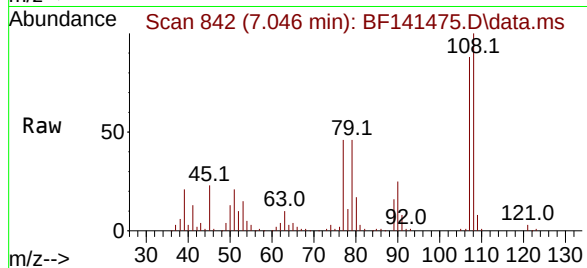
Tgt Ion: 45 Resp: 199281
Ion Ratio Lower Upper
45 100
77 15.3 0.0 35.8
79 12.9 0.0 32.7





#17
2-Methylphenol
Concen: 20.792 ng
RT: 7.046 min Scan# 842
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

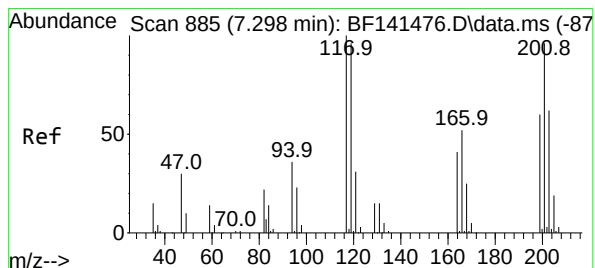
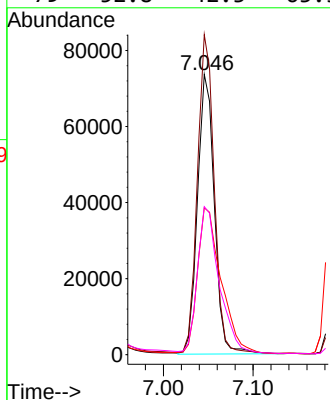
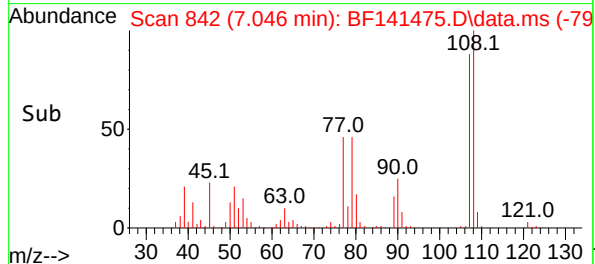
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



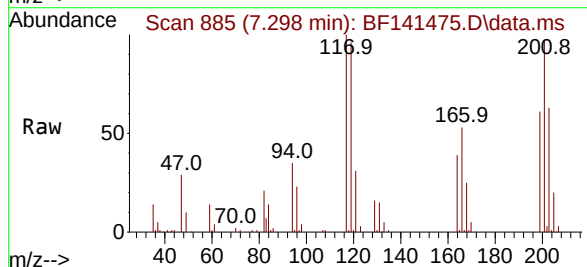
Tgt Ion:107 Resp: 9660
Ion Ratio Lower Upper
107 100
108 114.2 90.6 136.0
77 52.4 44.4 66.6
79 52.8 42.3 63.5

Manual Integrations
APPROVED

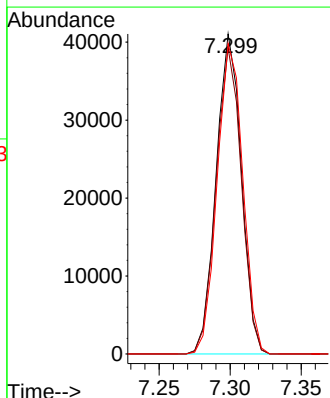
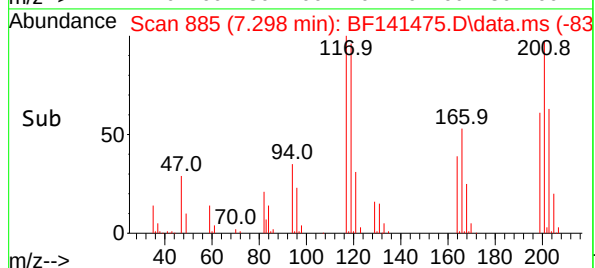
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

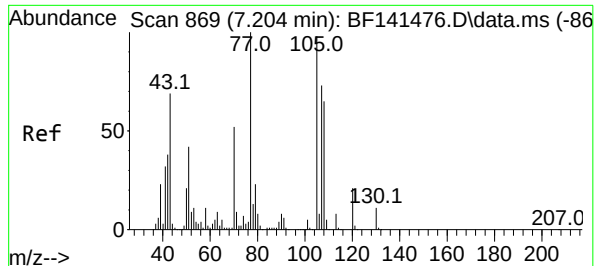


#18
Hexachloroethane
Concen: 21.409 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



Tgt Ion:117 Resp: 50745
Ion Ratio Lower Upper
117 100
119 95.7 76.5 114.7
201 97.0 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 21.546 ng

RT: 7.199 min Scan# 868

Delta R.T. -0.017 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 70 Resp: 8951

Ion Ratio Lower Upper

70 100

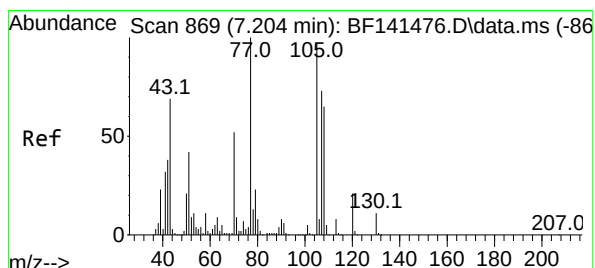
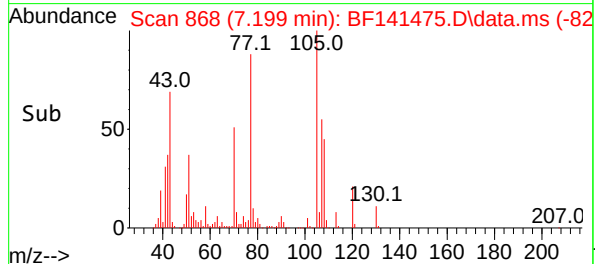
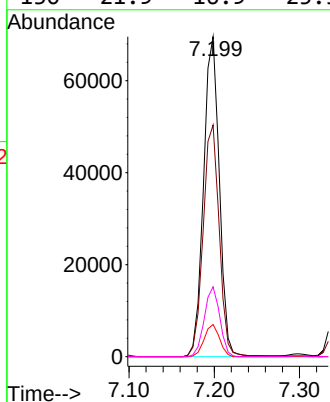
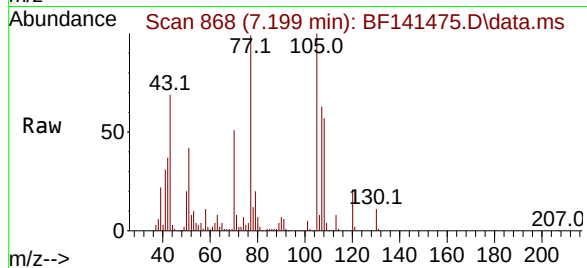
42 72.4 57.4 86.2

101 10.0 8.0 12.0

130 21.9 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#20

3+4-Methylphenols

Concen: 21.287 ng

RT: 7.199 min Scan# 868

Delta R.T. -0.017 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 125707

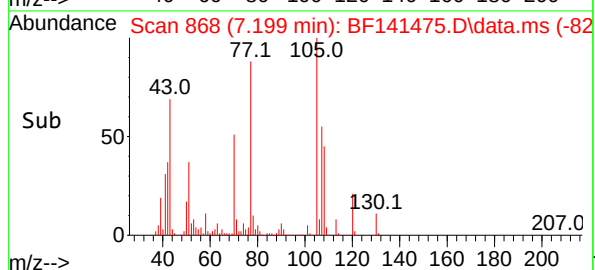
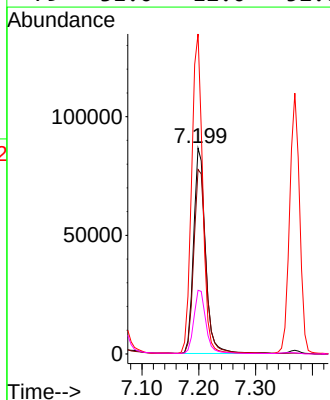
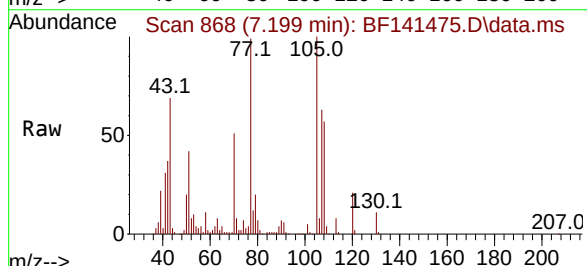
Ion Ratio Lower Upper

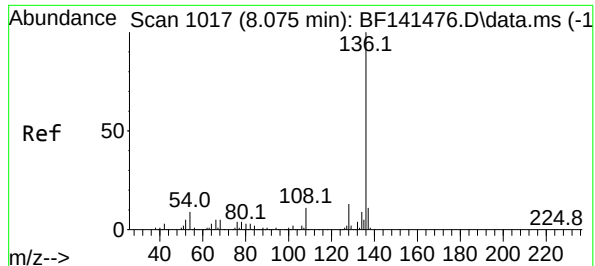
107 100

108 89.7 68.5 108.5

77 155.6 116.5 156.5

79 31.0 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1017

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:136 Resp: 34801

Ion Ratio Lower Upper

136 100

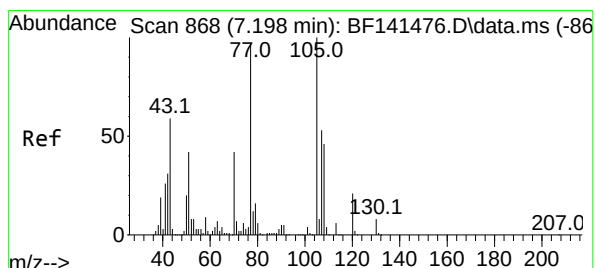
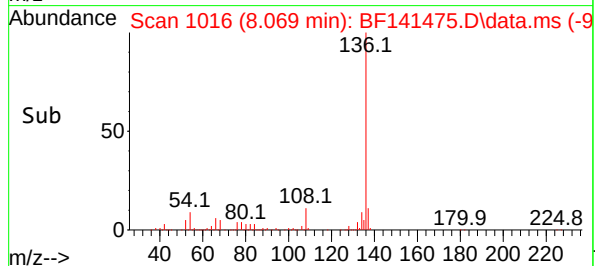
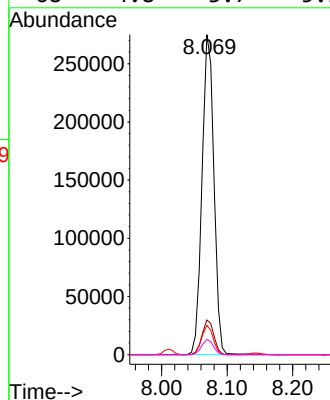
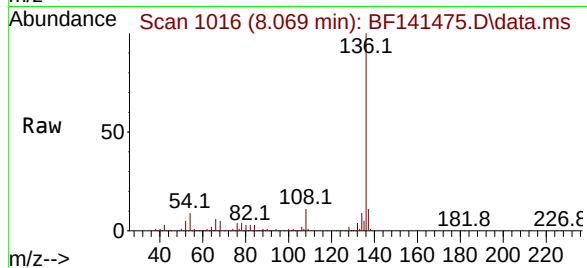
137 10.8 8.6 13.0

54 9.2 7.2 10.8

68 4.8 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#22

Acetophenone

Concen: 20.946 ng

RT: 7.199 min Scan# 868

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Tgt Ion:105 Resp: 181333

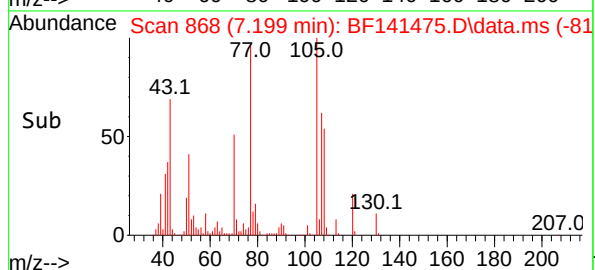
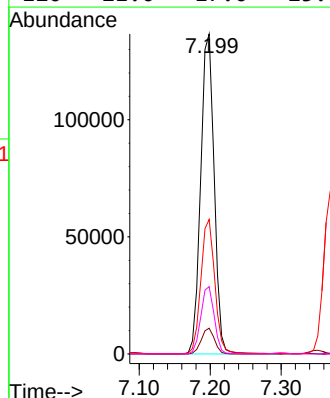
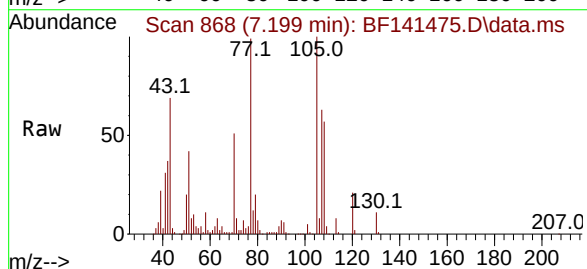
Ion Ratio Lower Upper

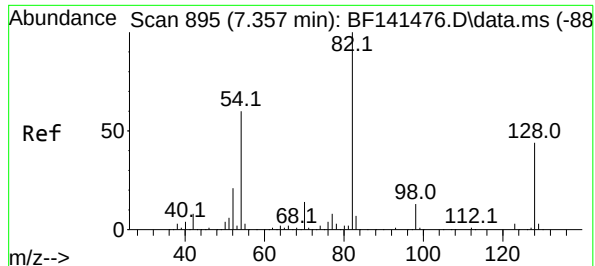
105 100

71 8.0 5.7 8.5

51 42.0 33.7 50.5

120 21.0 17.0 25.6





#23

Nitrobenzene-d5

Concen: 41.331 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 82 Resp: 27577

Ion Ratio Lower Upper

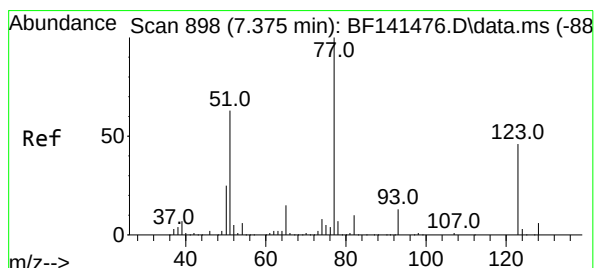
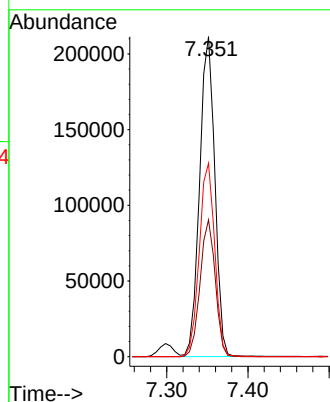
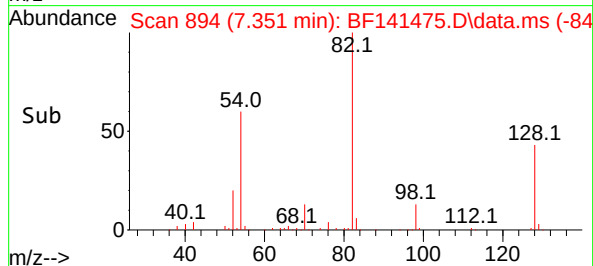
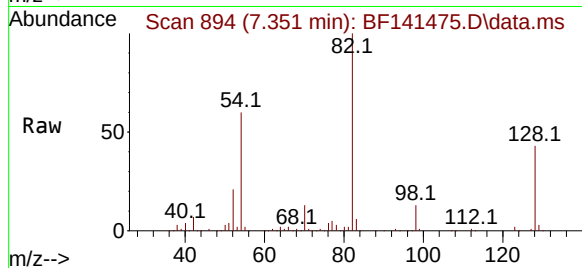
82 100

128 42.7 34.8 52.2

54 60.5 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#24

Nitrobenzene

Concen: 20.485 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

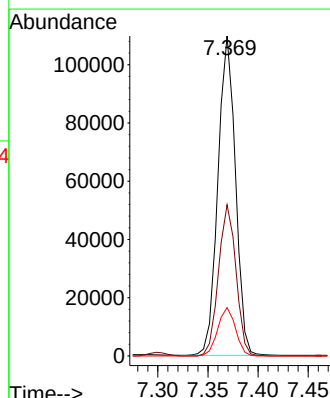
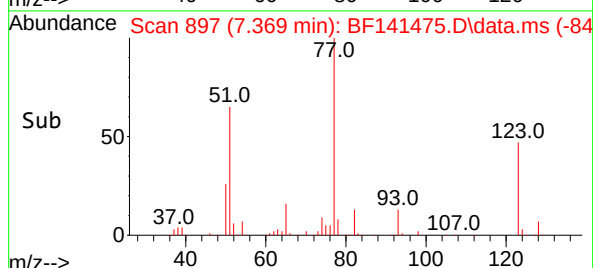
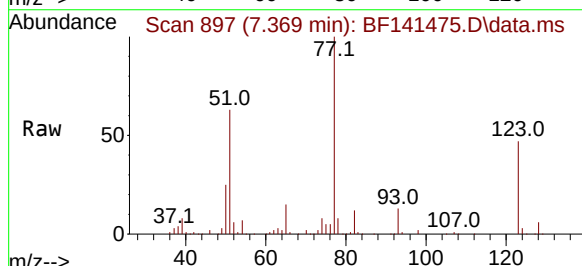
Tgt Ion: 77 Resp: 133285

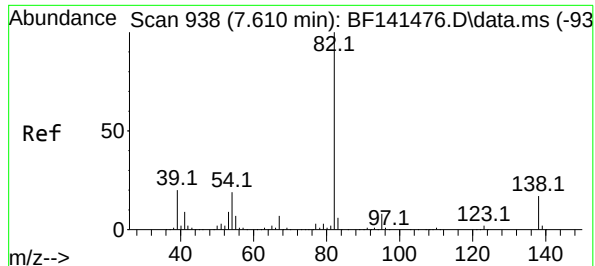
Ion Ratio Lower Upper

77 100

123 47.3 36.9 55.3

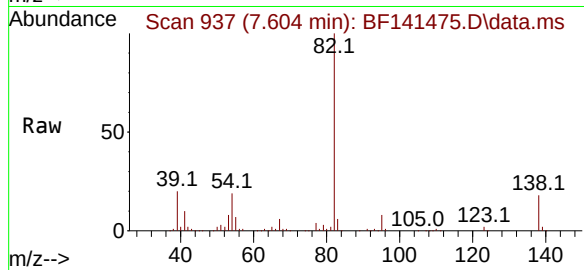
65 15.1 11.9 17.9





#25
Isophorone
Concen: 20.706 ng
RT: 7.604 min Scan# 91
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

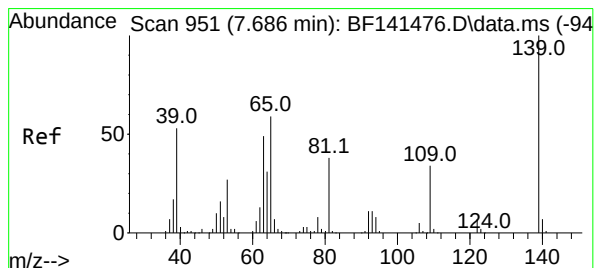
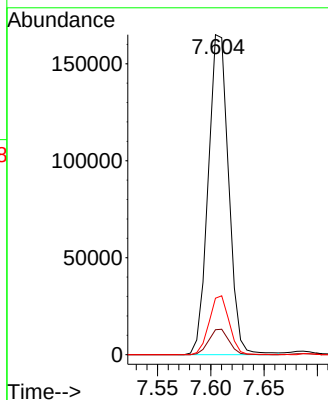
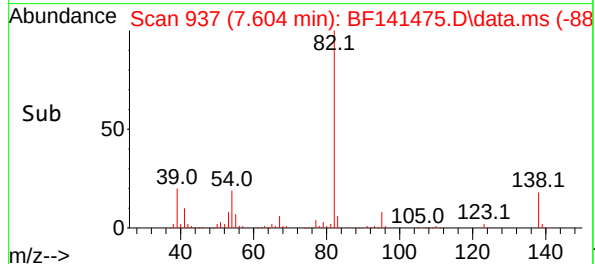
Instrument :
BNA_F
Client Sample Id :
SSTDICC020



Tgt Ion: 82 Resp: 22029
Ion Ratio Lower Upper
82 100
95 7.8 6.4 9.6
138 17.6 13.9 20.9

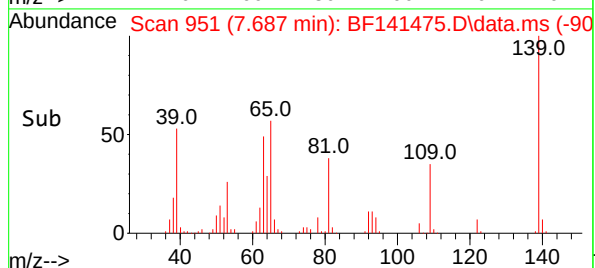
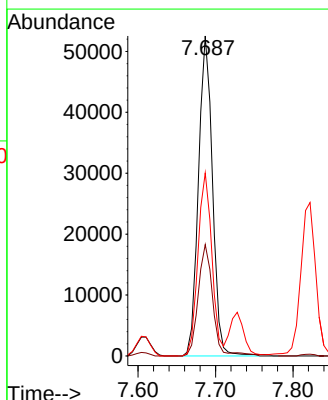
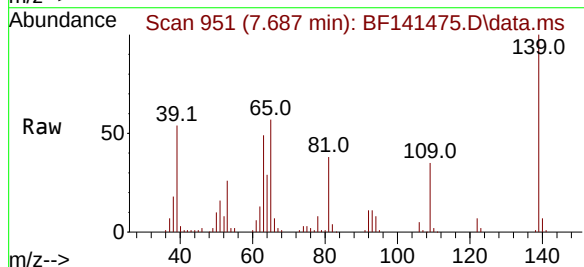
Manual Integrations
APPROVED

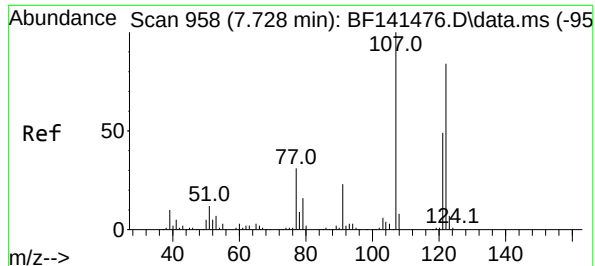
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#26
2-Nitrophenol
Concen: 20.449 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 66195
Ion Ratio Lower Upper
139 100
109 34.8 27.0 40.6
65 57.2 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 20.296 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

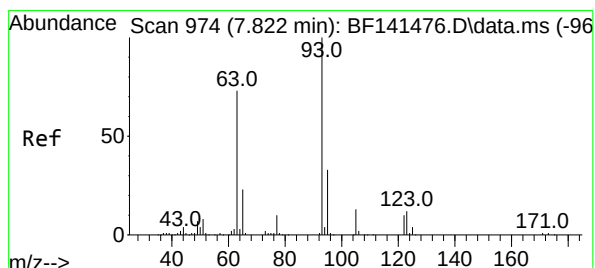
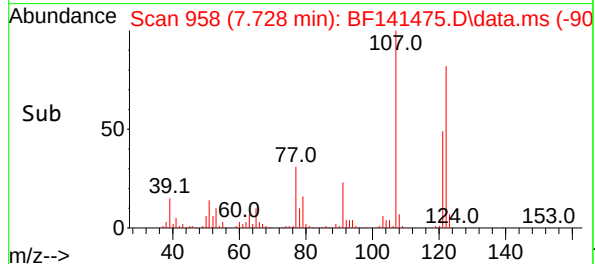
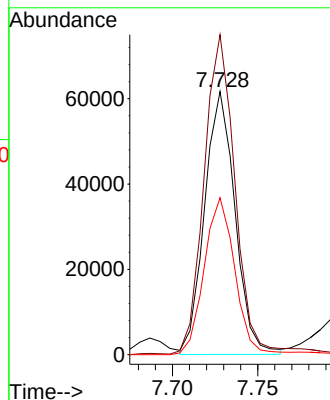
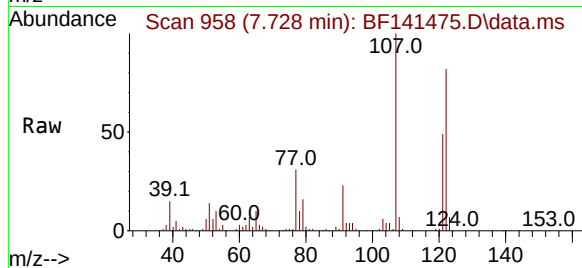
Tgt Ion:122 Resp: 7675

Ion	Ratio	Lower	Upper
122	100		
107	121.6	94.3	141.5
121	59.6	46.0	69.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#28

bis(2-Chloroethoxy)methane

Concen: 20.852 ng

RT: 7.822 min Scan# 974

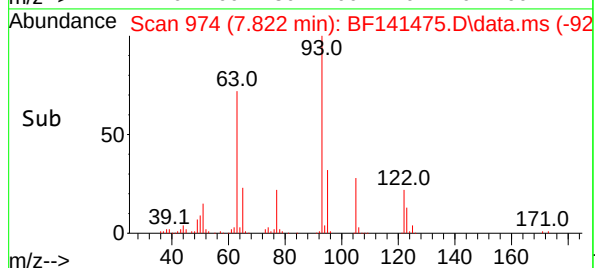
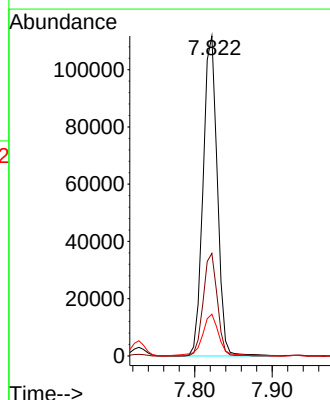
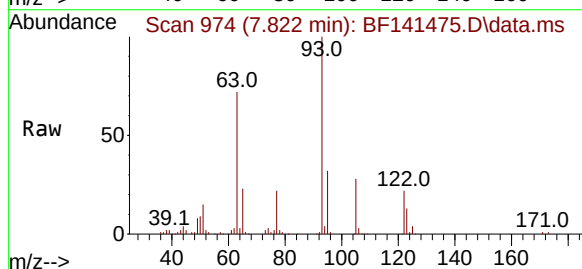
Delta R.T. -0.006 min

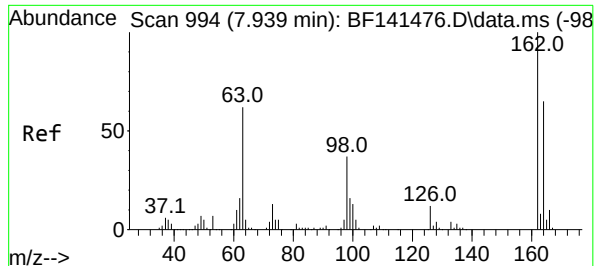
Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142151

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.1	39.1
123	13.0	9.5	14.3





#29

2,4-Dichlorophenol

Concen: 21.227 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:162 Resp: 108450

Ion Ratio Lower Upper

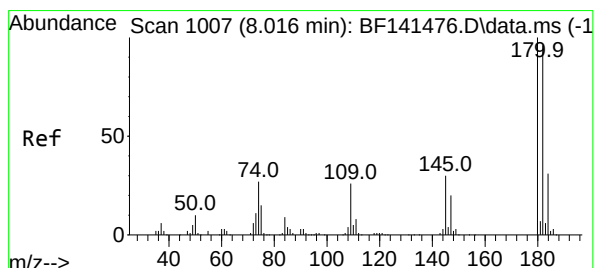
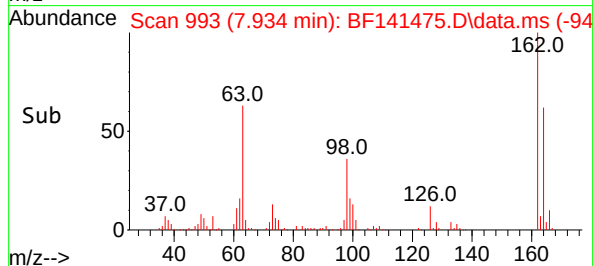
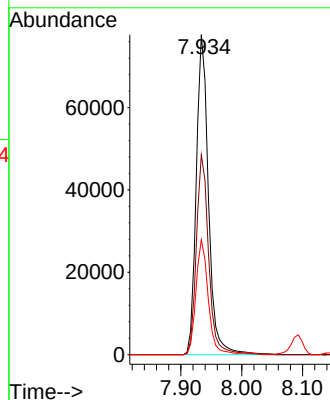
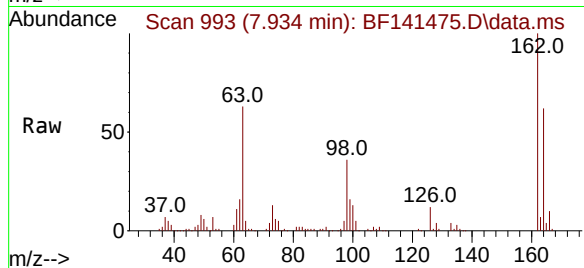
162 100

164 62.4 44.6 84.6

98 36.0 17.2 57.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#30

1,2,4-Trichlorobenzene

Concen: 20.678 ng

RT: 8.010 min Scan# 1006

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

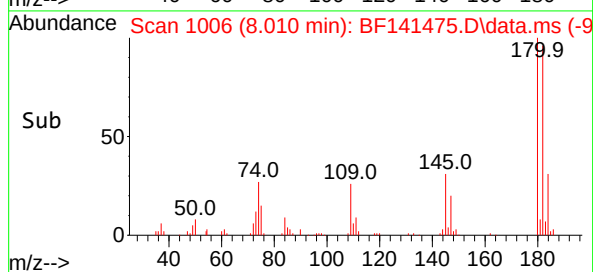
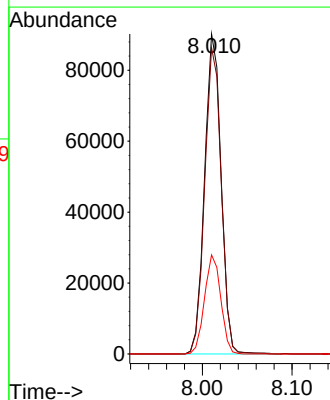
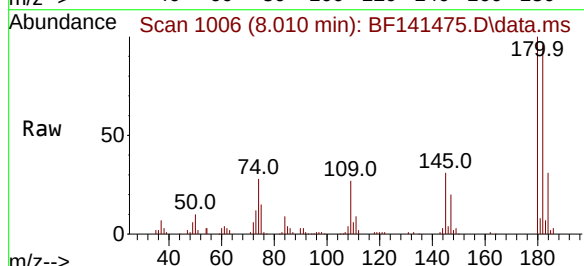
Tgt Ion:180 Resp: 115050

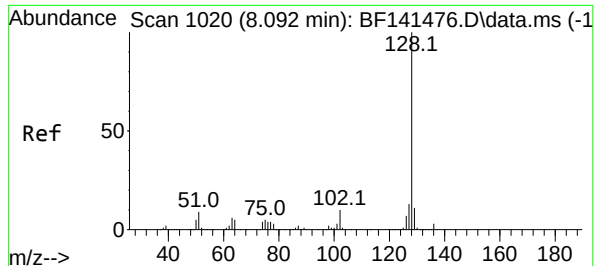
Ion Ratio Lower Upper

180 100

182 95.7 76.8 115.2

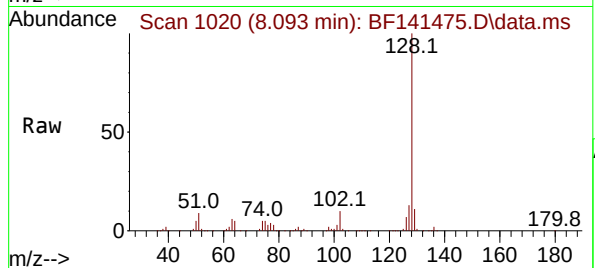
145 31.0 24.2 36.4





#31
Naphthalene
Concen: 21.062 ng
RT: 8.093 min Scan# 1020
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

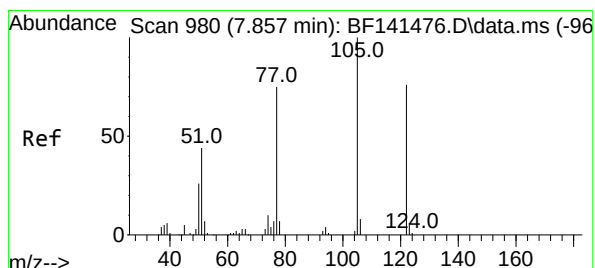
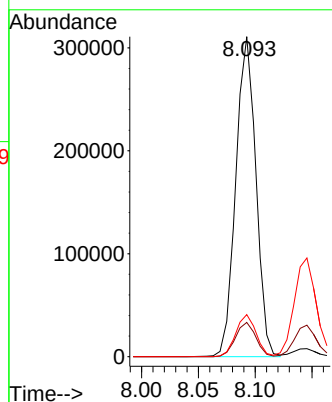
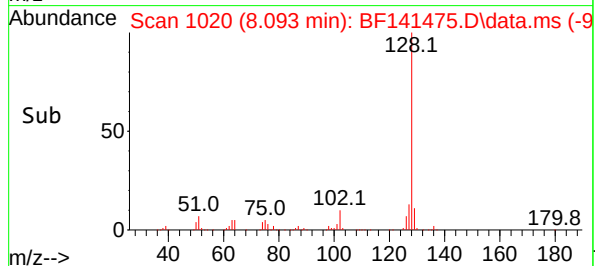
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:128 Resp: 38154
Ion Ratio Lower Upper
128 100
129 10.7 8.9 13.3
127 13.2 10.7 16.1

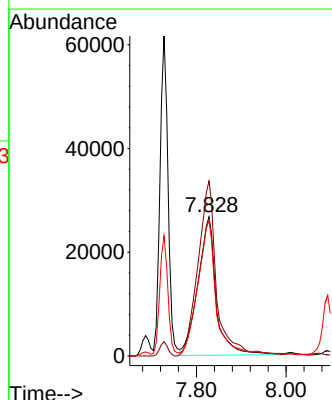
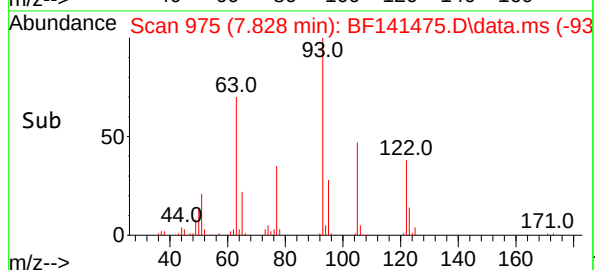
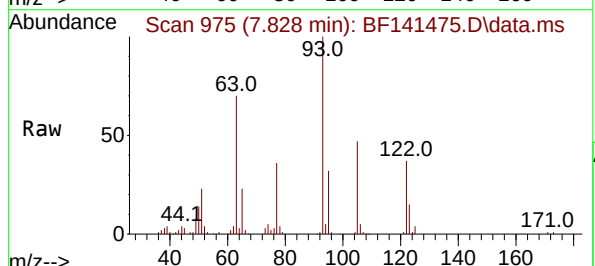
Manual Integrations
APPROVED

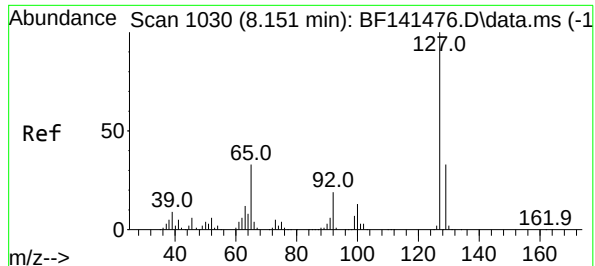
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#32
Benzoic acid
Concen: 19.212 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.064 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:122 Resp: 75462
Ion Ratio Lower Upper
122 100
105 125.8 106.5 146.5
77 97.6 76.3 116.3





#33

4-Chloroaniline

Concen: 21.014 ng

RT: 8.146 min Scan# 1029

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:127 Resp: 13291

Ion Ratio Lower Upper

127 100

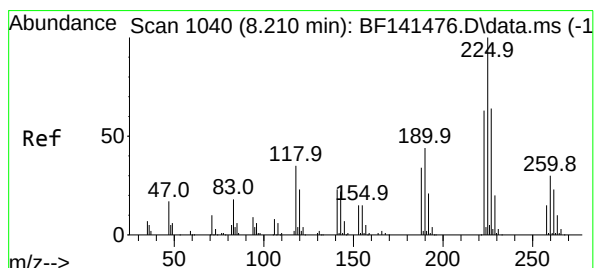
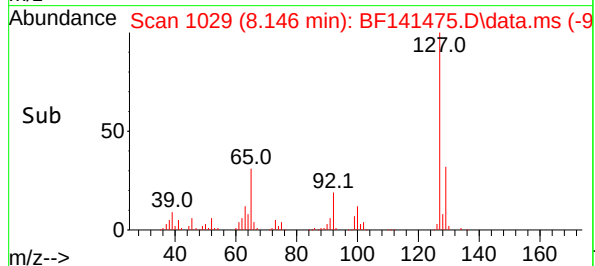
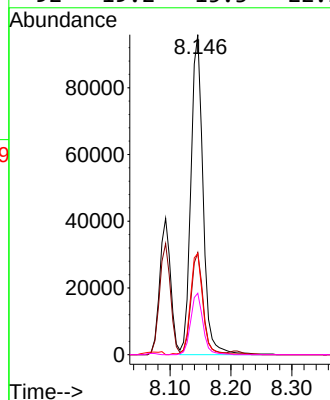
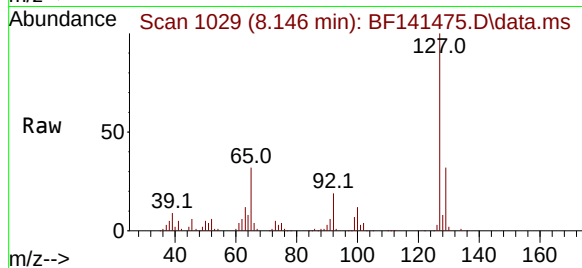
129 31.9 26.5 39.7

65 31.6 26.4 39.6

92 19.2 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#34

Hexachlorobutadiene

Concen: 20.804 ng

RT: 8.210 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

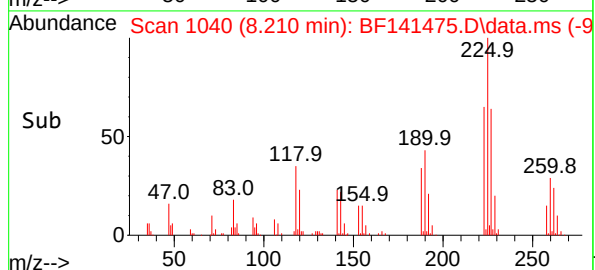
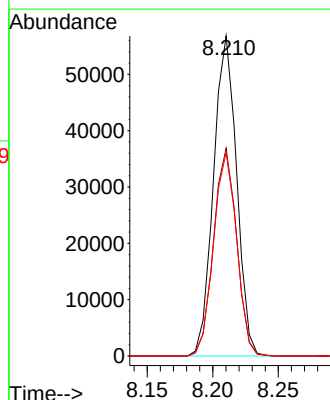
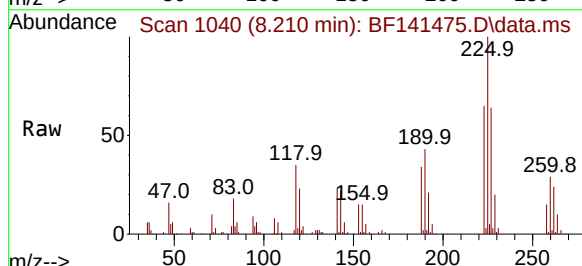
Tgt Ion:225 Resp: 69492

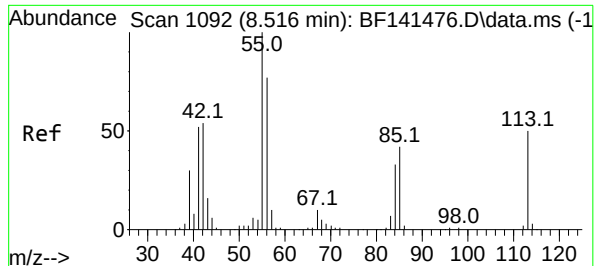
Ion Ratio Lower Upper

225 100

223 64.9 50.1 75.1

227 63.5 51.0 76.6





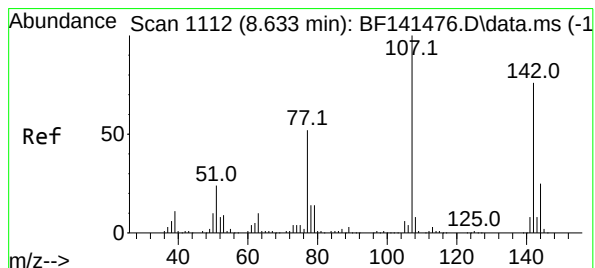
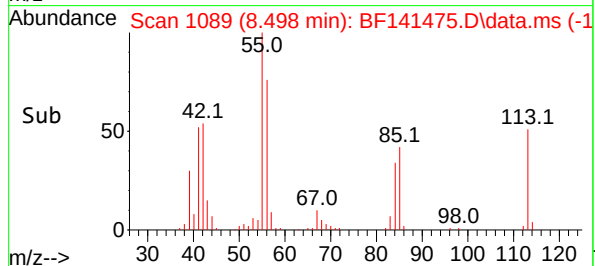
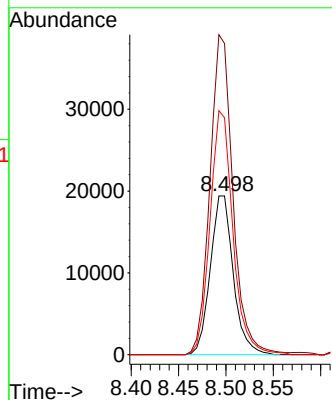
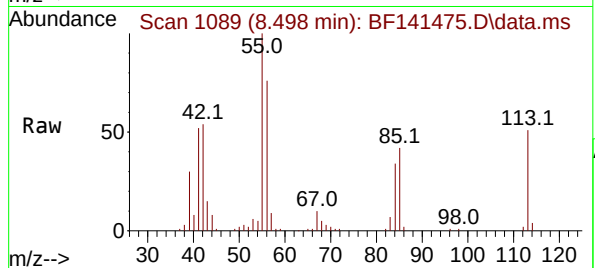
#35
Caprolactam
Concen: 21.050 ng
RT: 8.498 min Scan# 1089
Delta R.T. -0.047 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 32740
Ion Ratio Lower Upper
113 100
55 196.0 180.8 220.8
56 149.2 133.6 173.6

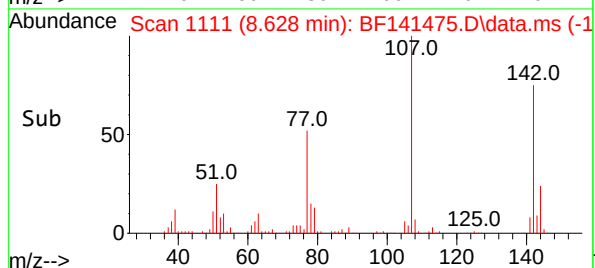
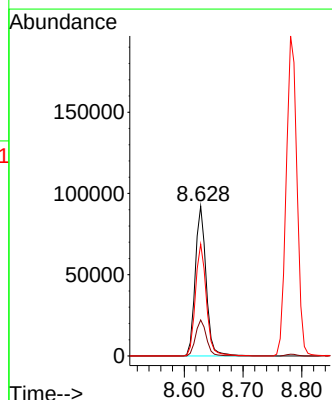
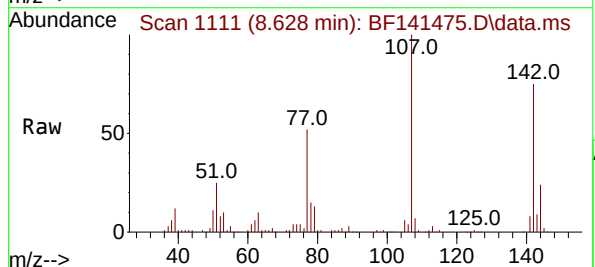
Manual Integrations
APPROVED

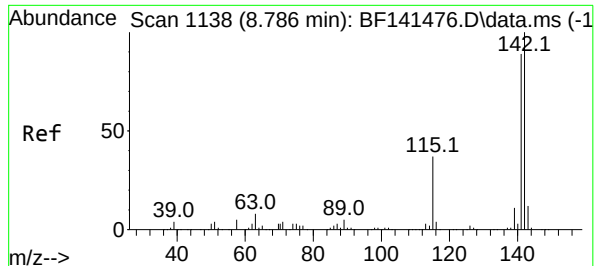
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#36
4-Chloro-3-methylphenol
Concen: 21.029 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 119021
Ion Ratio Lower Upper
107 100
144 24.1 19.7 29.5
142 74.7 60.8 91.2





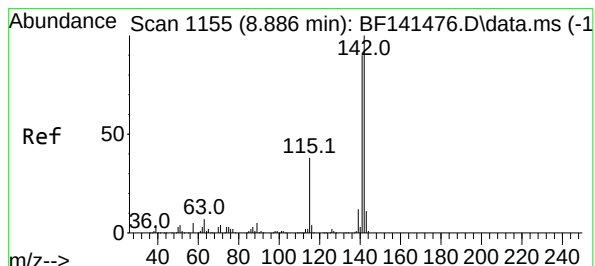
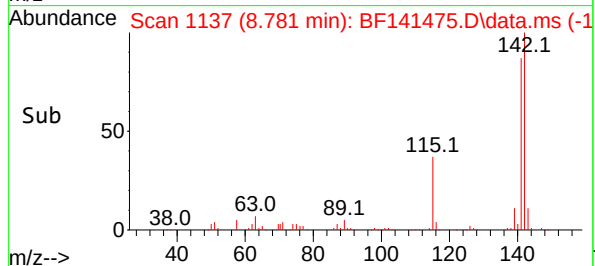
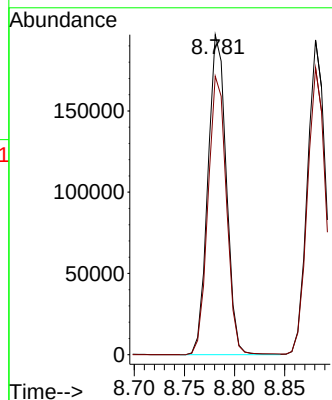
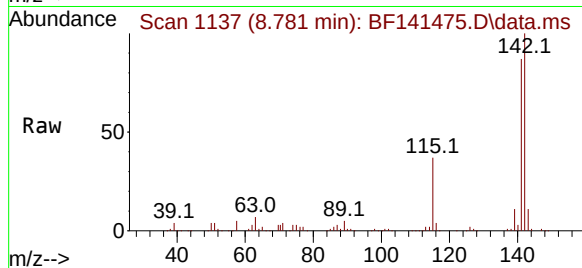
#37
2-Methylnaphthalene
Concen: 21.238 ng
RT: 8.781 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 25036
Ion Ratio Lower Upper
142 100
141 87.0 71.2 106.8

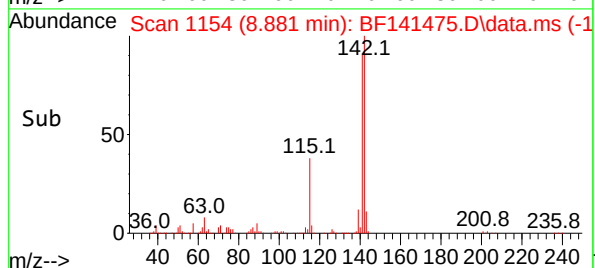
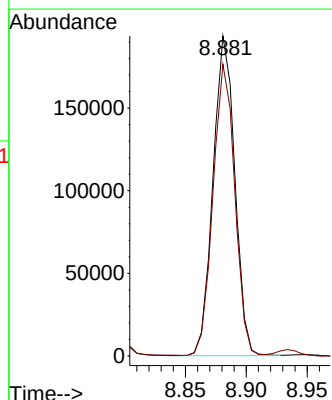
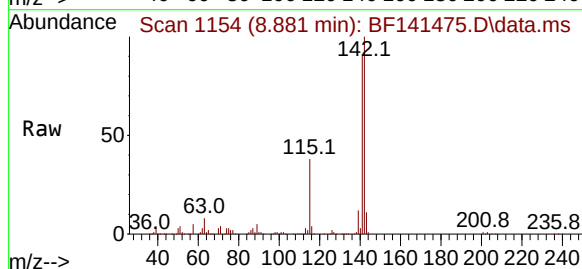
Manual Integrations
APPROVED

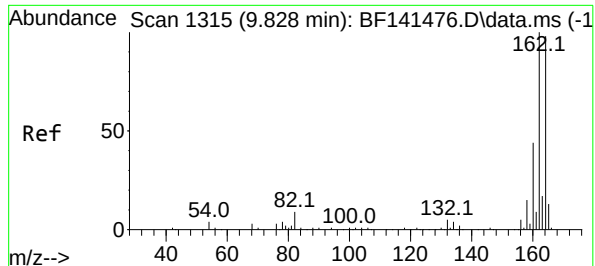
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#38
1-Methylnaphthalene
Concen: 21.056 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:142 Resp: 240408
Ion Ratio Lower Upper
142 100
141 91.1 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141475.D

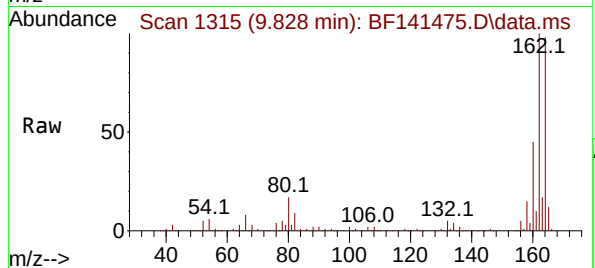
Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020



Tgt Ion:164 Resp: 19309

Ion Ratio Lower Upper

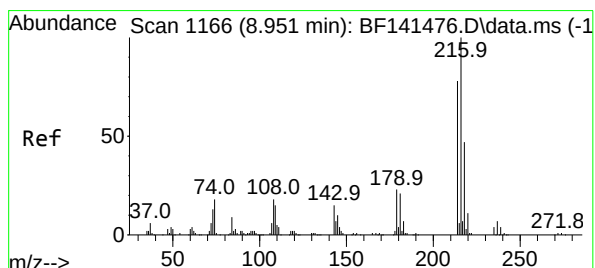
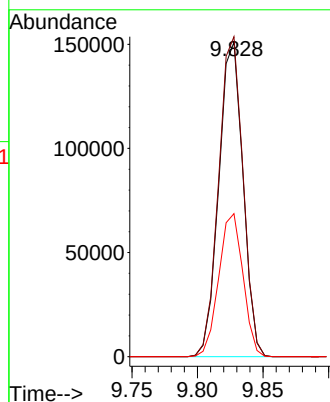
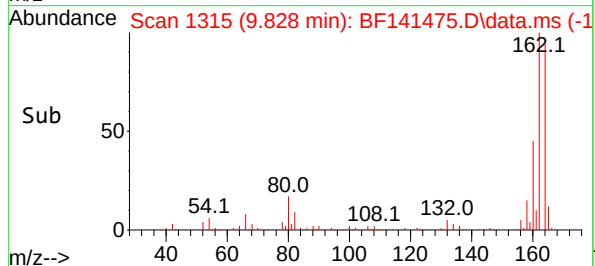
164 100

162 101.7 81.3 121.9

160 45.5 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#40

1,2,4,5-Tetrachlorobenzene

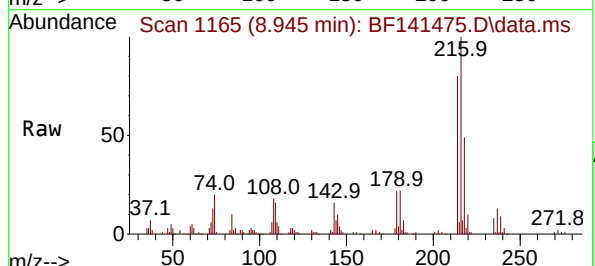
Concen: 20.753 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26



Tgt Ion:216 Resp: 115936

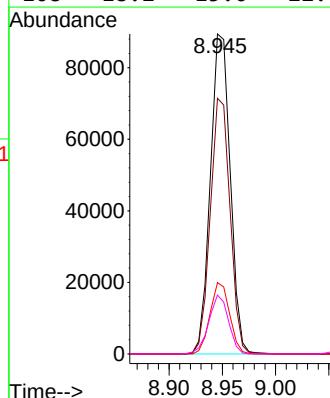
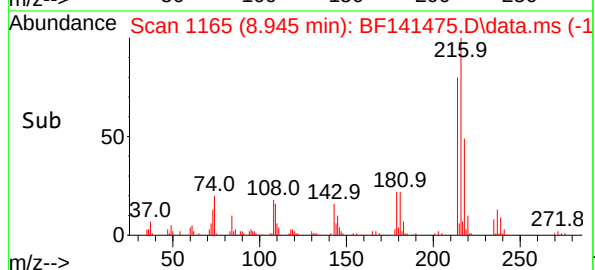
Ion Ratio Lower Upper

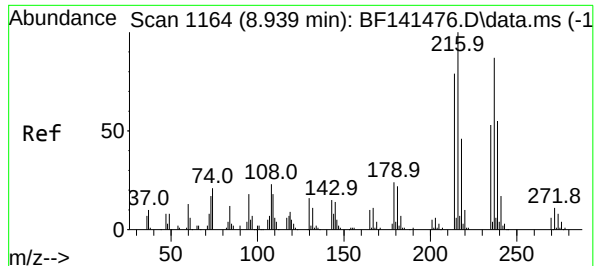
216 100

214 79.3 62.3 93.5

179 21.9 18.0 27.0

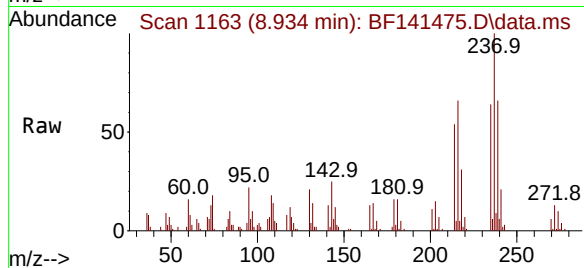
108 18.2 15.0 22.6





#41
Hexachlorocyclopentadiene
Concen: 18.691 ng
RT: 8.934 min Scan# 1163
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

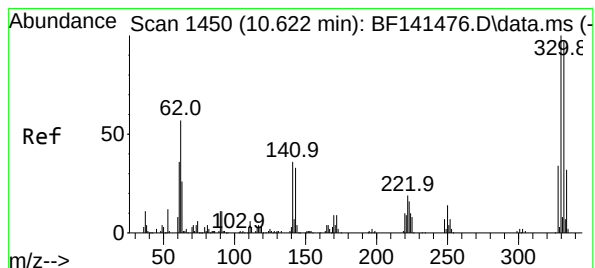
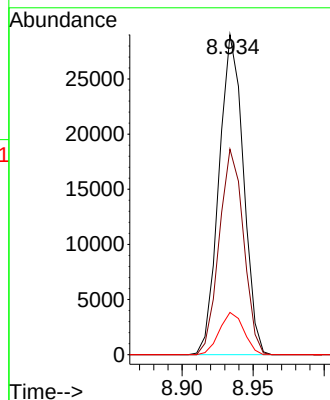
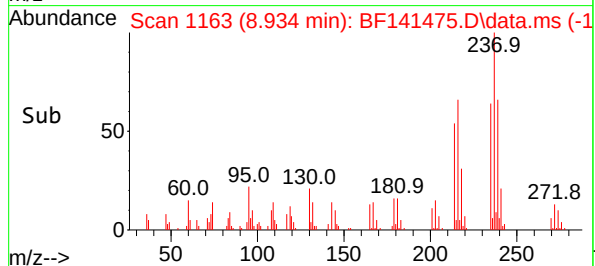
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



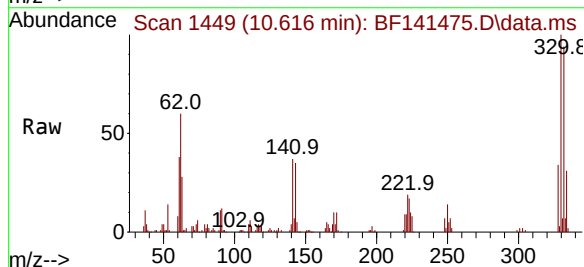
Tgt Ion:237 Resp: 34729
Ion Ratio Lower Upper
237 100
235 64.2 41.4 81.4
272 13.2 0.0 32.4

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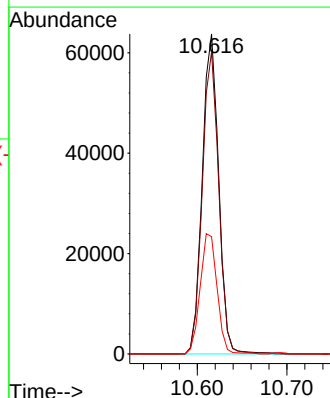
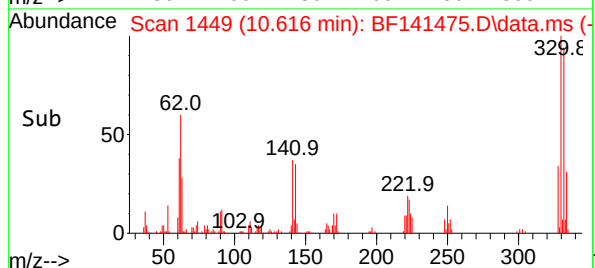
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

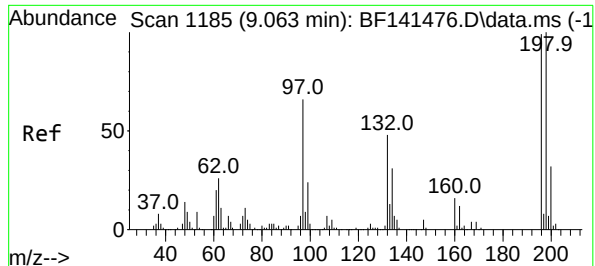


#42
2,4,6-Tribromophenol
Concen: 41.714 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



Tgt Ion:330 Resp: 80912
Ion Ratio Lower Upper
330 100
332 94.7 78.5 117.7
141 38.7 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 20.817 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:196 Resp: 7516

Ion Ratio Lower Upper

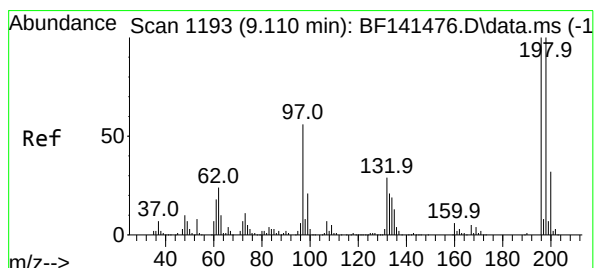
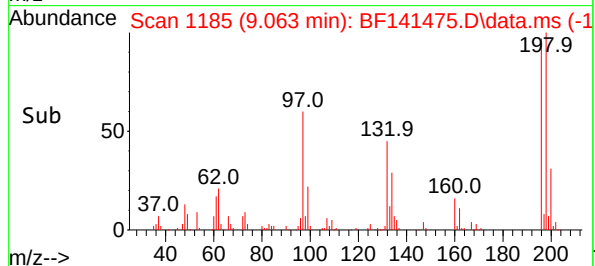
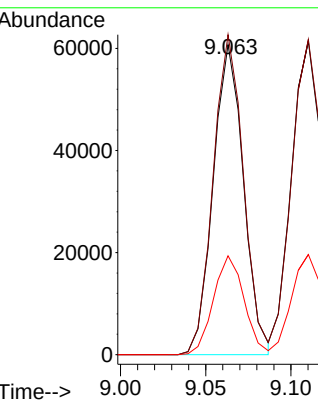
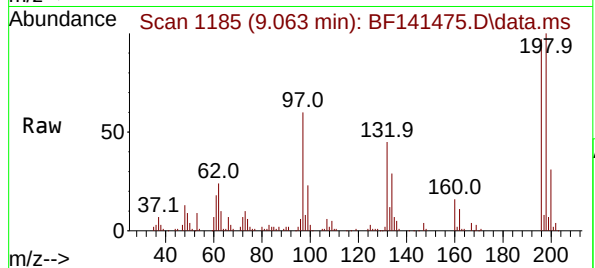
196 100

198 103.2 80.6 121.0

200 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#44

2,4,5-Trichlorophenol

Concen: 21.240 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Tgt Ion:196 Resp: 83112

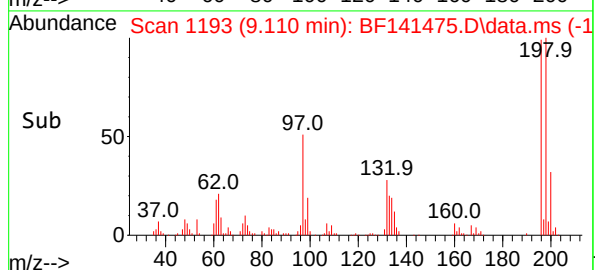
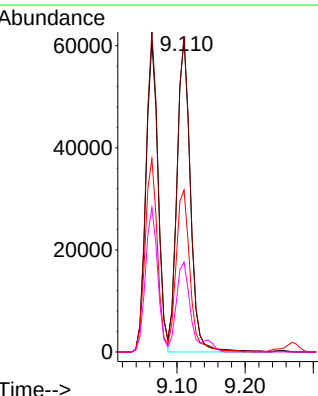
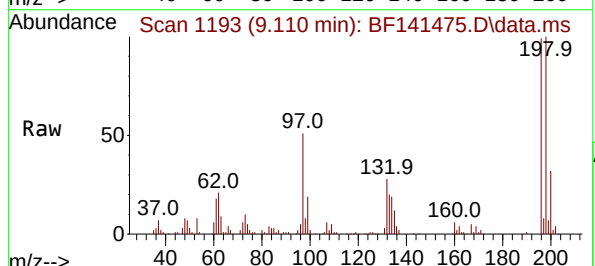
Ion Ratio Lower Upper

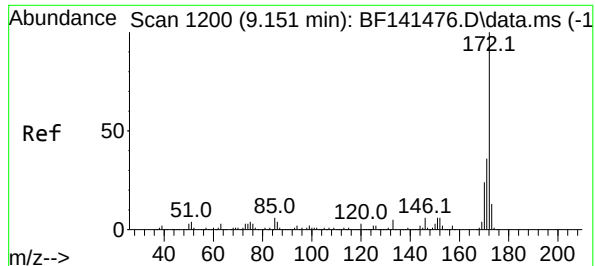
196 100

198 100.6 79.8 119.8

97 51.7 44.8 67.2

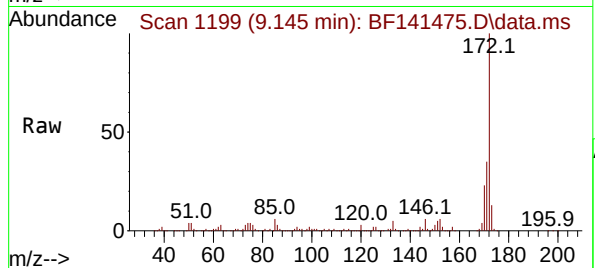
132 28.6 23.9 35.9





#45
2-Fluorobiphenyl
Concen: 42.674 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

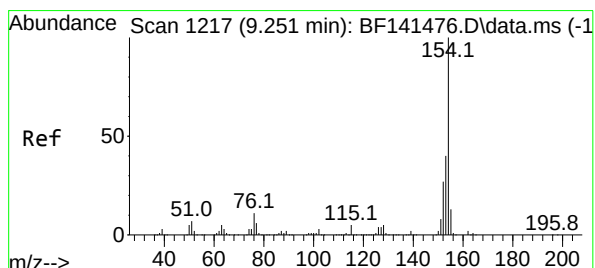
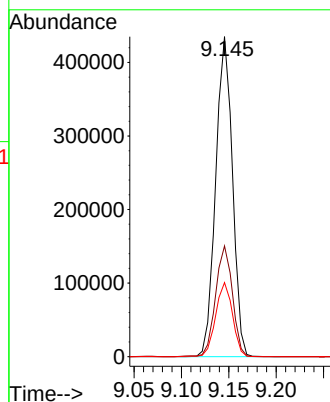
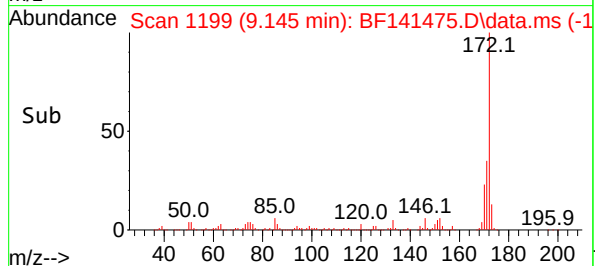
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:172 Resp: 53484
Ion Ratio Lower Upper
172 100
171 34.6 28.7 43.1
170 23.1 18.9 28.3

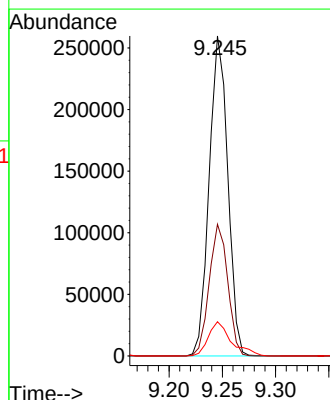
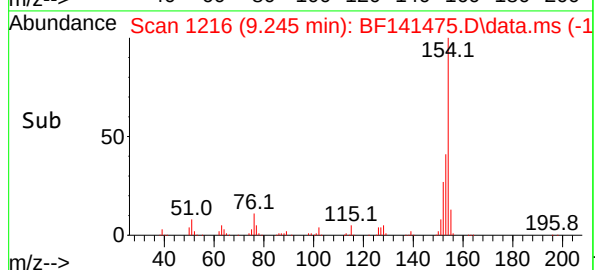
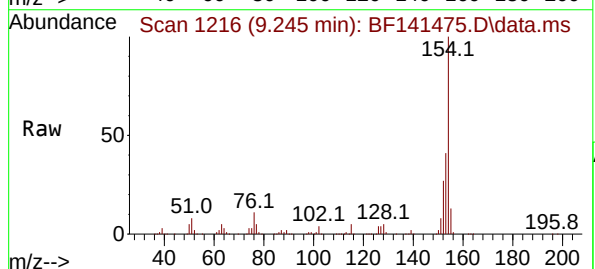
Manual Integrations
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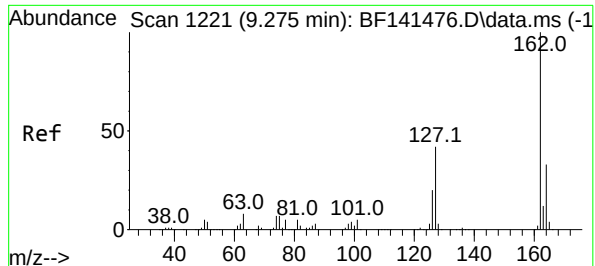
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#46
1,1'-Biphenyl
Concen: 21.045 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 315040
Ion Ratio Lower Upper
154 100
153 41.2 20.4 60.4
76 10.7 0.0 30.8





#47

2-Chloronaphthalene

Concen: 21.119 ng

RT: 9.269 min Scan# 1221

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:162 Resp: 233789

Ion Ratio Lower Upper

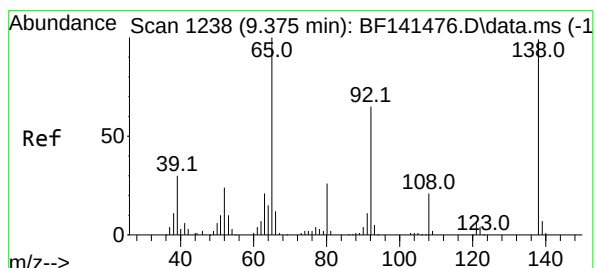
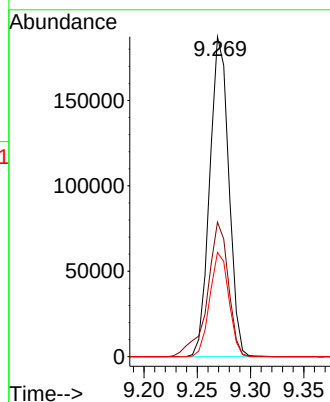
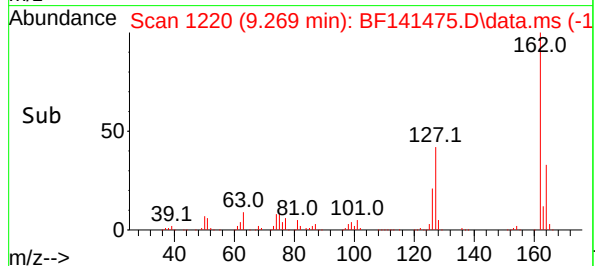
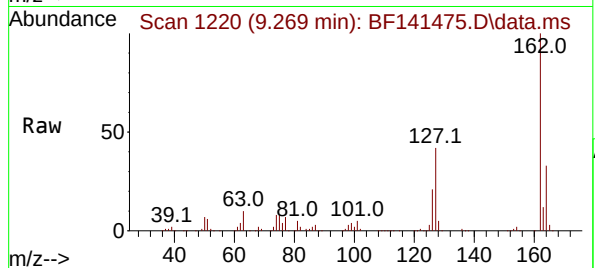
162 100

127 42.1 34.1 51.1

164 32.6 26.3 39.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#48

2-Nitroaniline

Concen: 20.455 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

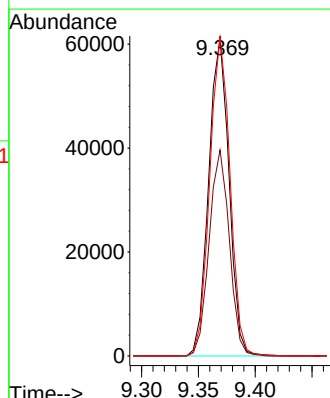
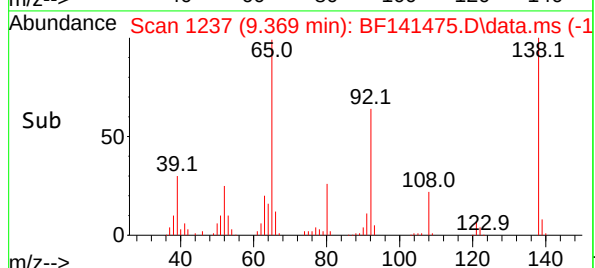
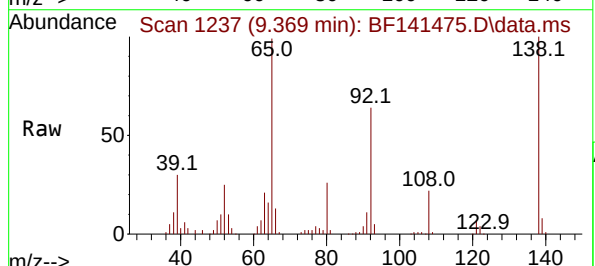
Tgt Ion: 65 Resp: 75990

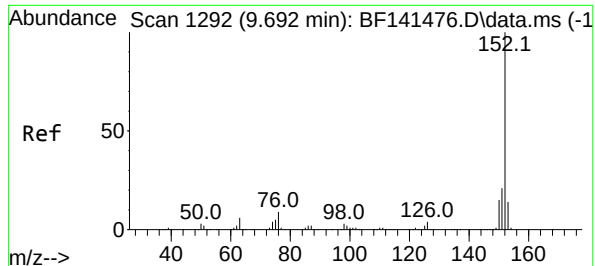
Ion Ratio Lower Upper

65 100

92 64.8 52.2 78.2

138 100.7 79.5 119.3





#49

Acenaphthylene

Concen: 21.004 ng

RT: 9.687 min Scan# 1291

Delta R.T. -0.006 min

Lab File: BF141475.D

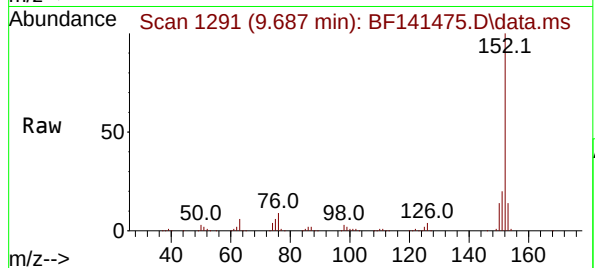
Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

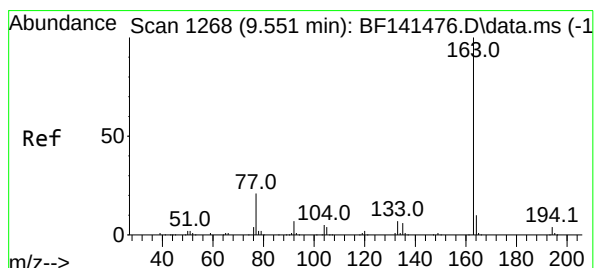
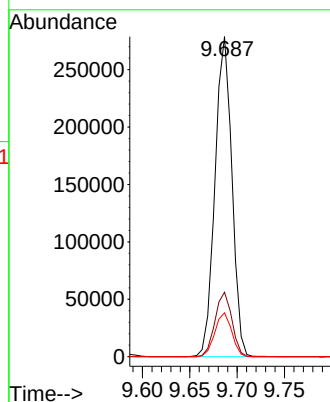
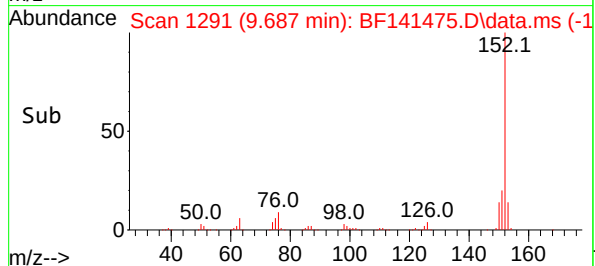


Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#50

Dimethylphthalate

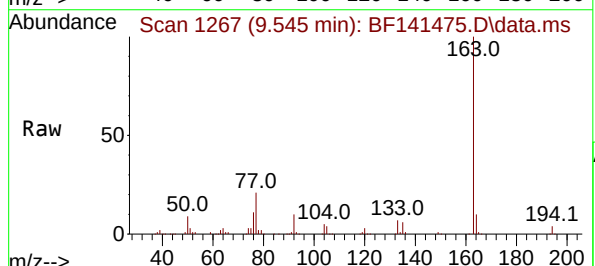
Concen: 20.744 ng

RT: 9.545 min Scan# 1267

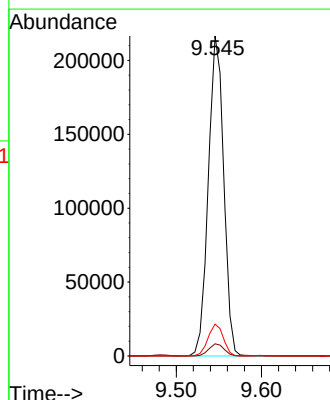
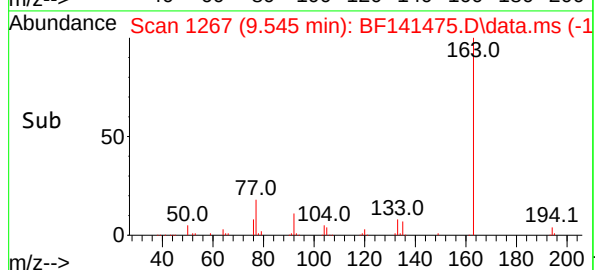
Delta R.T. -0.017 min

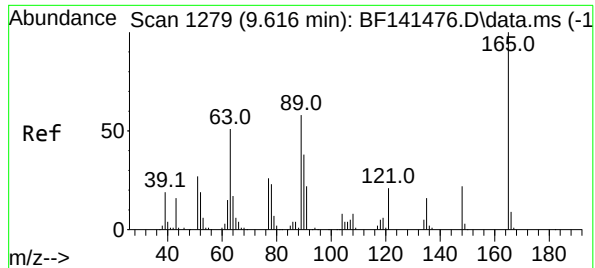
Lab File: BF141475.D

Acq: 06 Feb 2025 12:26



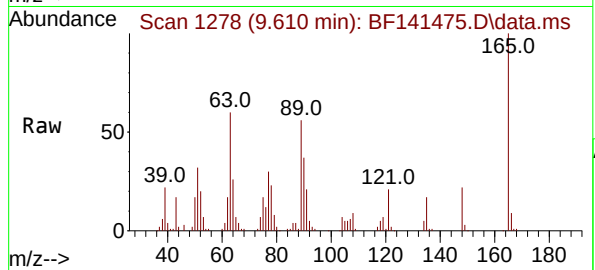
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.0	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 21.182 ng
RT: 9.610 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

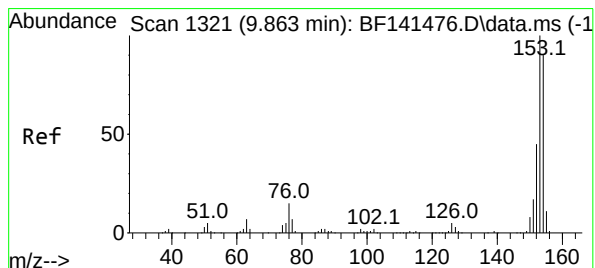
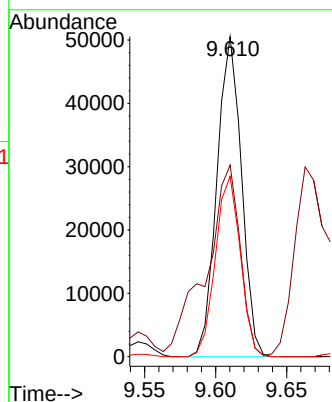
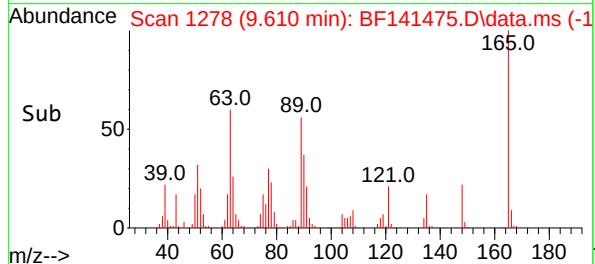
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:165 Resp: 60700
Ion Ratio Lower Upper
165 100
63 59.8 49.4 74.0
89 56.3 46.5 69.7

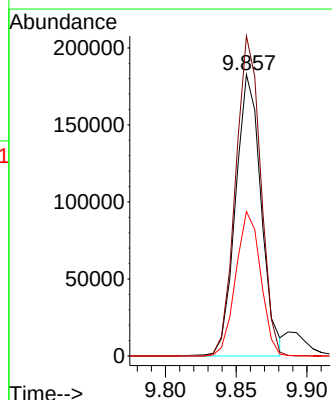
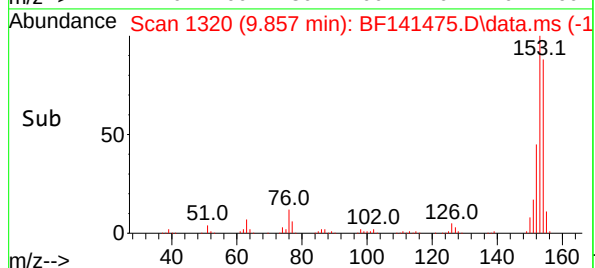
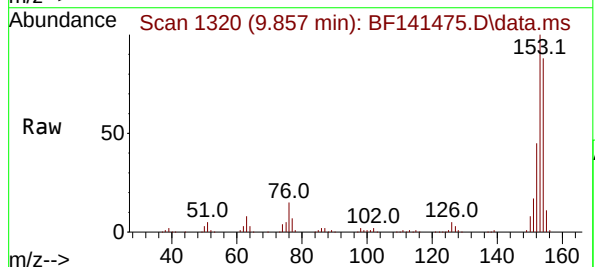
Manual Integrations
APPROVED

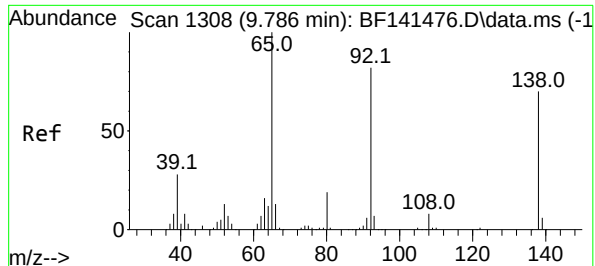
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#52
Acenaphthene
Concen: 20.728 ng m
RT: 9.857 min Scan# 1320
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

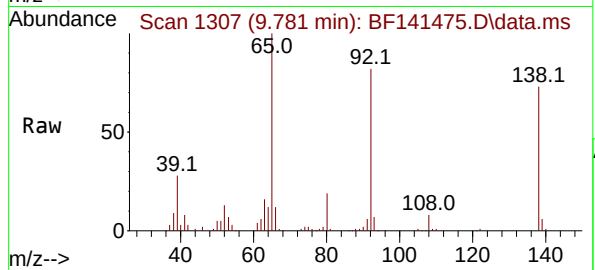
Tgt Ion:154 Resp: 229442
Ion Ratio Lower Upper
154 100
153 113.7 89.2 133.8
152 51.3 39.8 59.8





#53
3-Nitroaniline
Concen: 20.954 ng
RT: 9.781 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

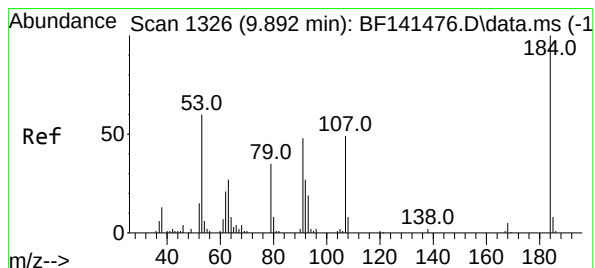
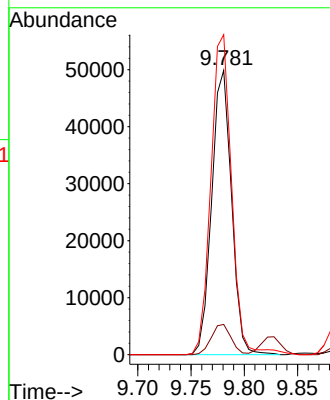
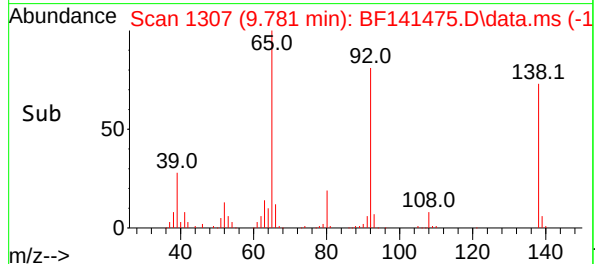
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:138 Resp: 64620
Ion Ratio Lower Upper
138 100
108 10.6 9.0 13.4
92 112.5 93.7 140.5

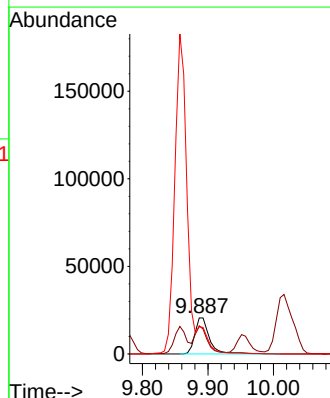
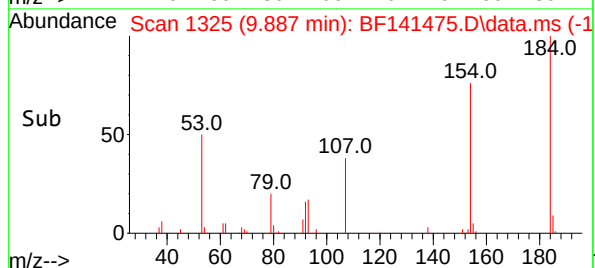
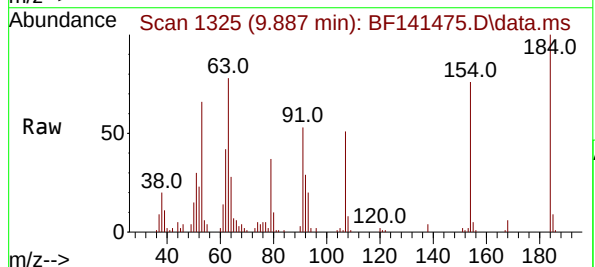
Manual Integrations
APPROVED

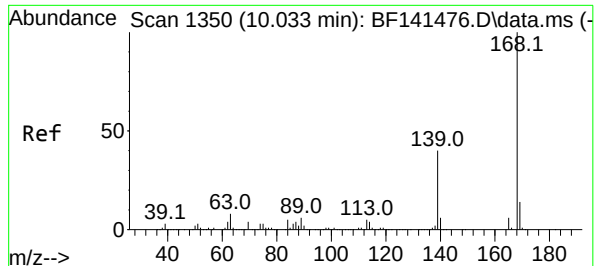
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#54
2,4-Dinitrophenol
Concen: 18.898 ng
RT: 9.887 min Scan# 1325
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

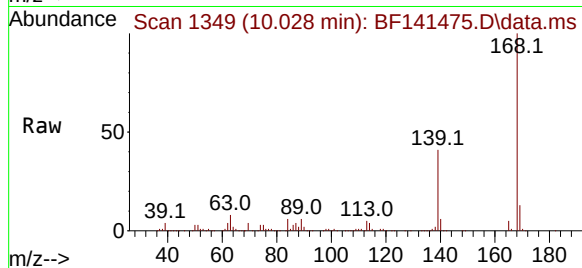
Tgt Ion:184 Resp: 32186
Ion Ratio Lower Upper
184 100
63 78.3 61.0 91.6
154 75.8 59.9 89.9





#55
Dibenzenofuran
Concen: 21.087 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

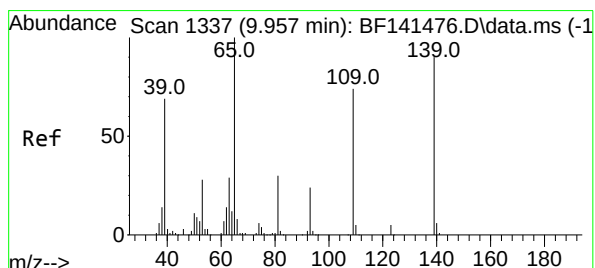
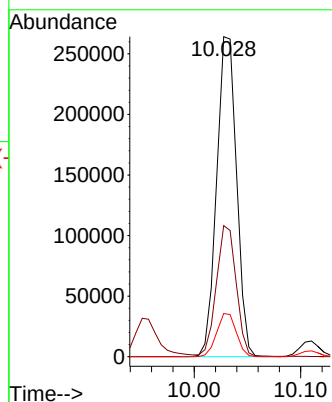
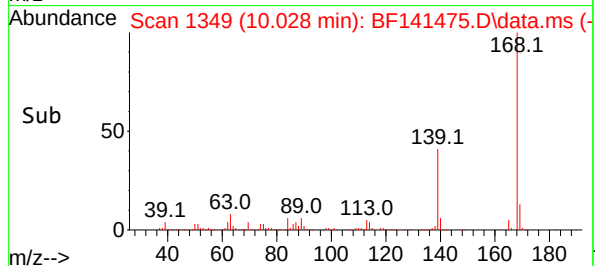
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:168 Resp: 342620
Ion Ratio Lower Upper
168 100
139 40.9 32.7 49.1
169 13.5 10.8 16.2

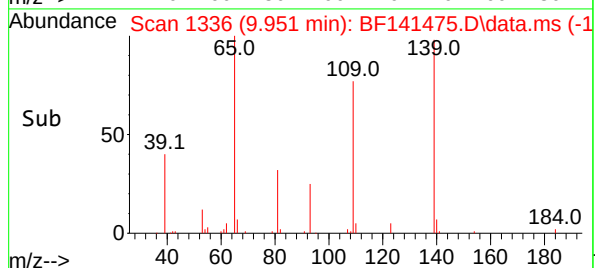
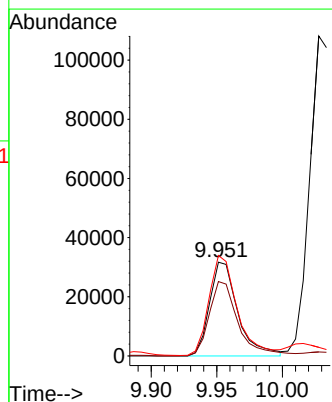
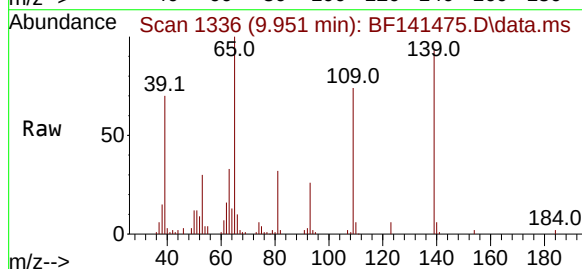
Manual Integrations
APPROVED

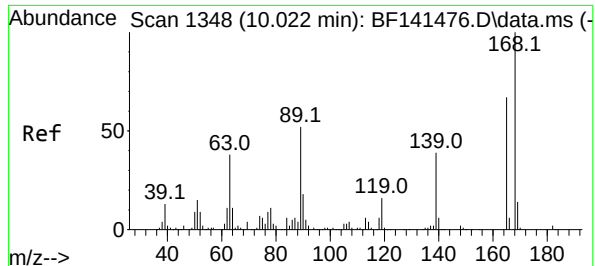
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#56
4-Nitrophenol
Concen: 20.843 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.018 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

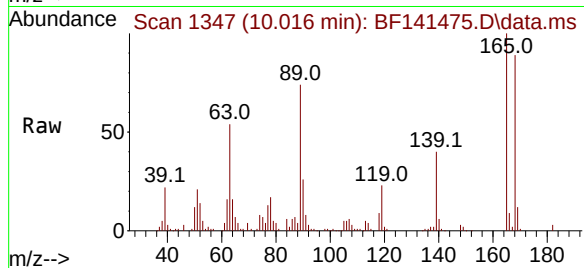
Tgt Ion:139 Resp: 47721
Ion Ratio Lower Upper
139 100
109 79.3 62.0 102.0
65 107.1 91.2 131.2





#57
2,4-Dinitrotoluene
Concen: 20.936 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

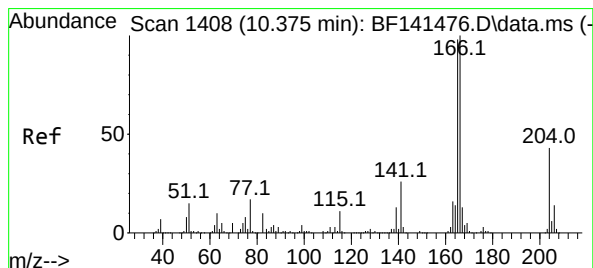
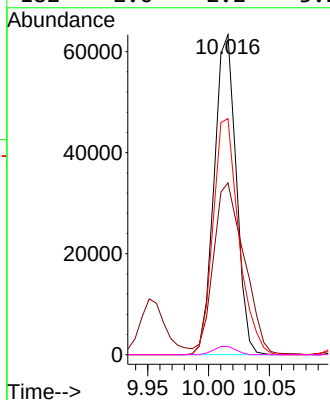
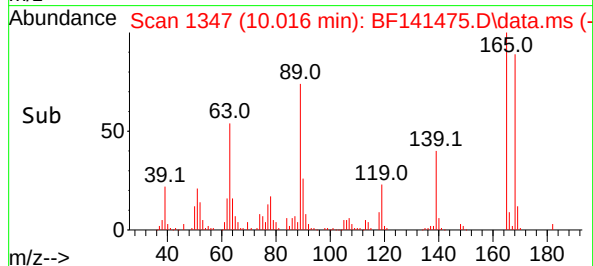
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:165 Resp: 7986
Ion Ratio Lower Upper
165 100
63 53.7 46.4 69.6
89 73.8 61.8 92.6
182 2.6 2.2 3.2

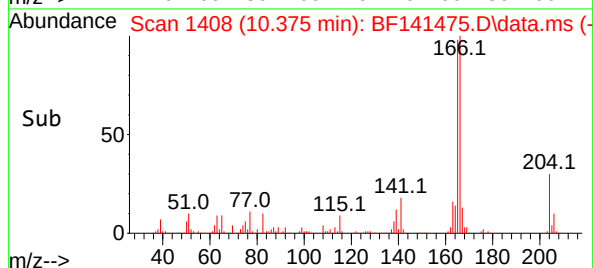
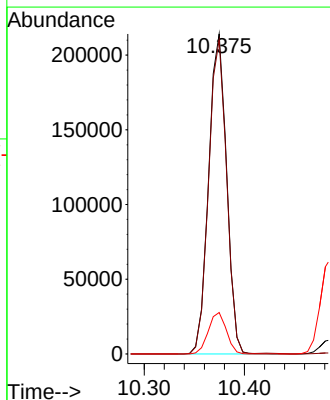
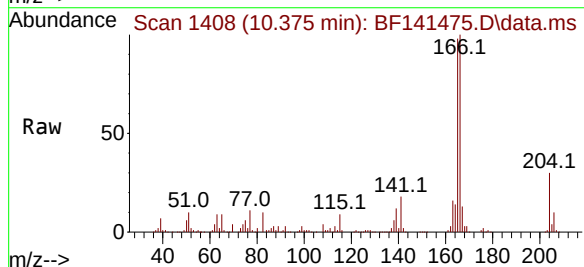
Manual Integrations
APPROVED

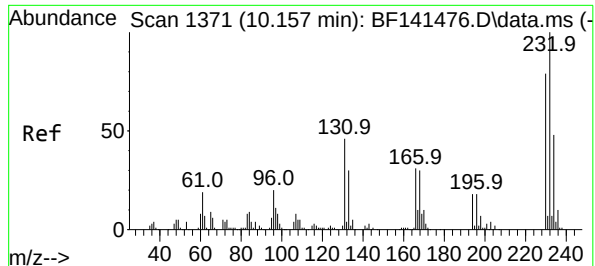
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#58
Fluorene
Concen: 21.159 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

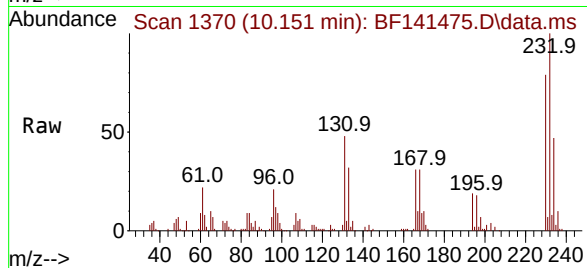
Tgt Ion:166 Resp: 265810
Ion Ratio Lower Upper
166 100
165 98.1 78.2 117.2
167 13.0 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 20.579 ng
RT: 10.151 min Scan# 1370
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

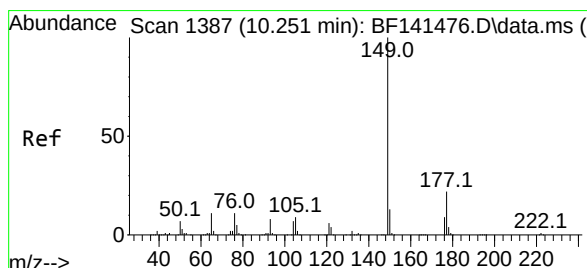
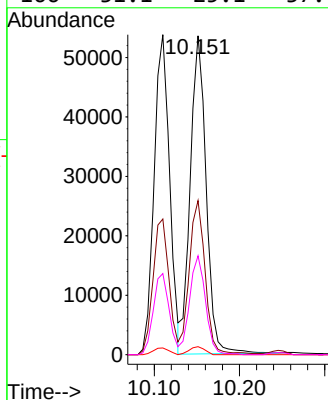
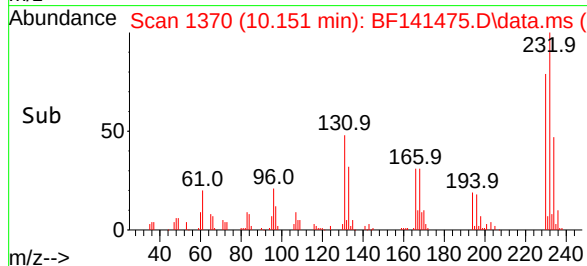
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



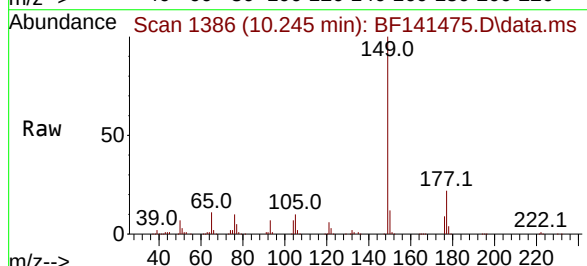
Tgt Ion:232 Resp: 69328
Ion Ratio Lower Upper
232 100
131 49.0 39.2 58.8
130 2.4 2.1 3.1
166 31.1 25.1 37.7

Manual Integrations
APPROVED

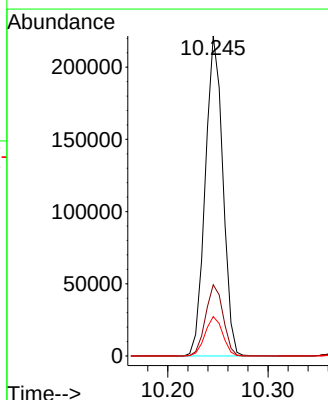
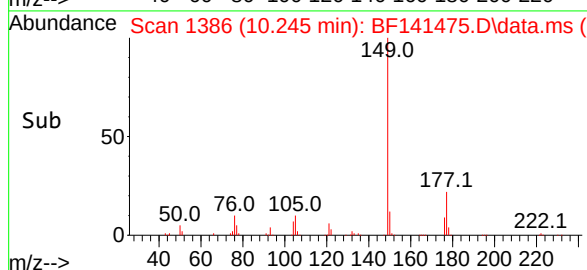
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

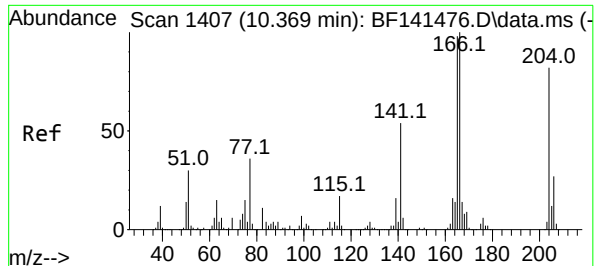


#60
Diethylphthalate
Concen: 20.936 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



Tgt Ion:149 Resp: 270018
Ion Ratio Lower Upper
149 100
177 22.2 17.8 26.6
150 12.3 10.1 15.1





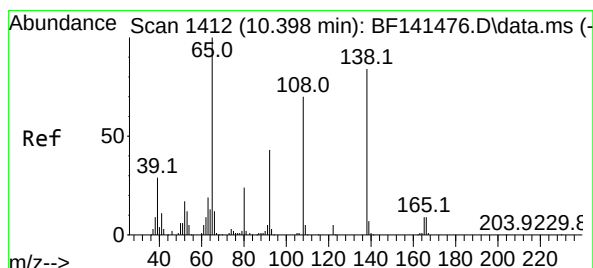
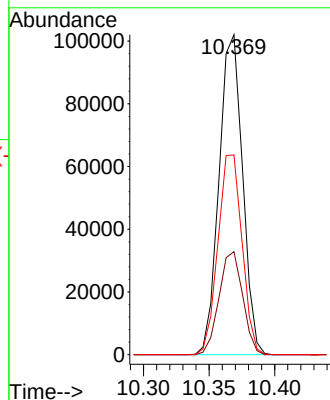
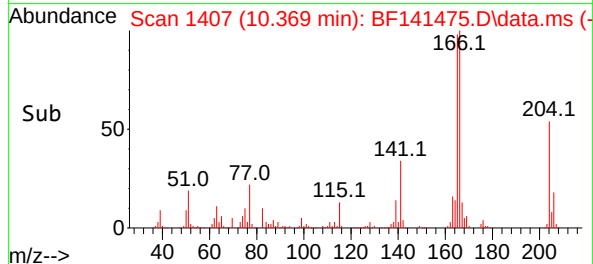
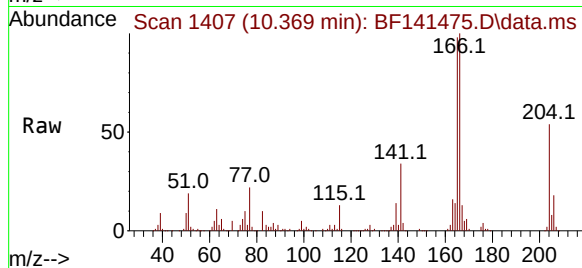
#61
4-Chlorophenyl-phenylether
Concen: 21.049 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 127210
Ion Ratio Lower Upper
204 100
206 32.2 26.6 40.0
141 62.4 51.9 77.9

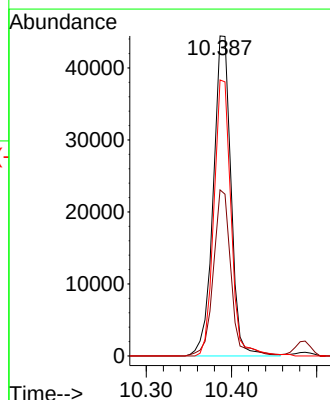
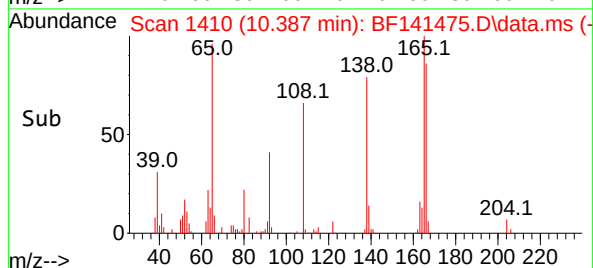
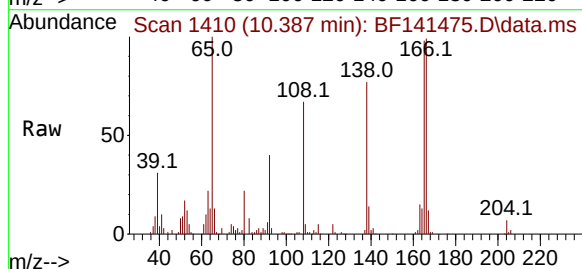
Manual Integrations
APPROVED

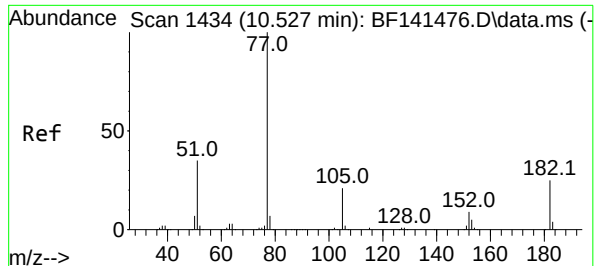
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#62
4-Nitroaniline
Concen: 20.519 ng
RT: 10.387 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:138 Resp: 64262
Ion Ratio Lower Upper
138 100
92 51.9 31.3 71.3
108 86.2 63.7 103.7





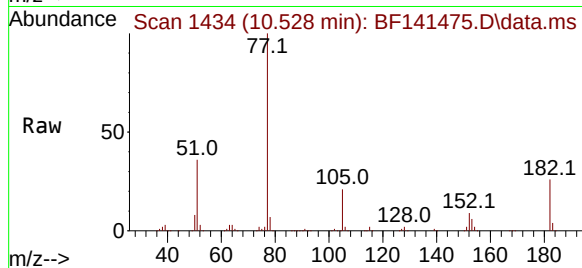
#63
Azobenzene
Concen: 20.853 ng
RT: 10.528 min Scan# 1434
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

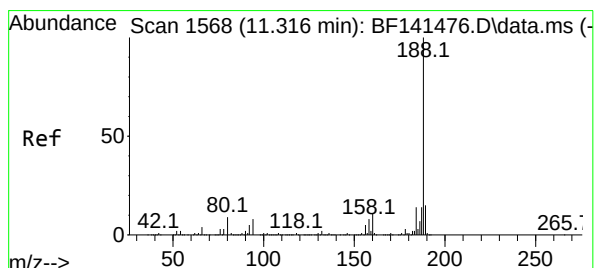
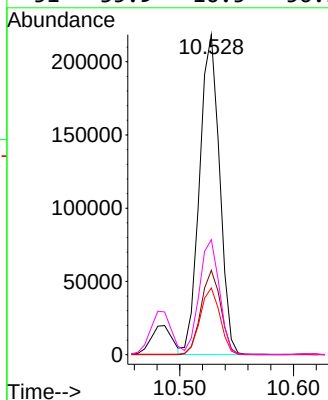
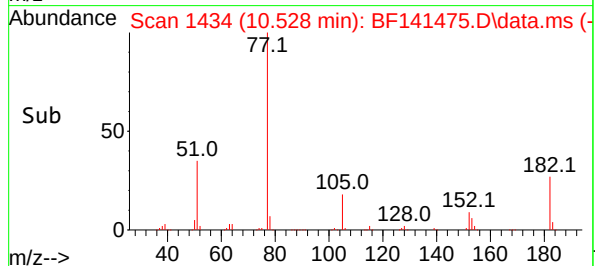


Tgt Ion: 77 Resp: 267372
Ion Ratio Lower Upper
77 100
182 26.4 4.7 44.7
105 20.9 0.4 40.4
51 35.9 16.5 56.5

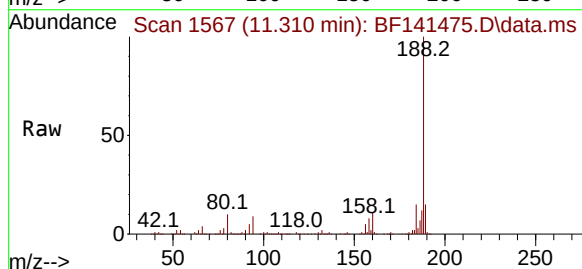
Manual Integrations

APPROVED

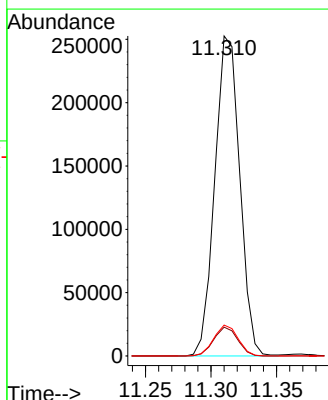
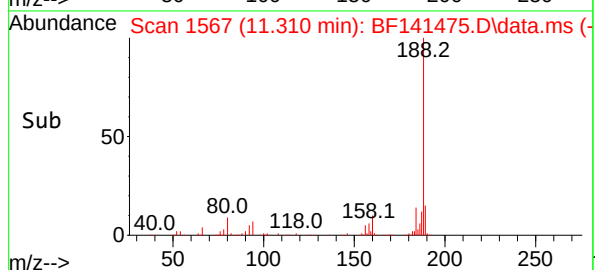
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

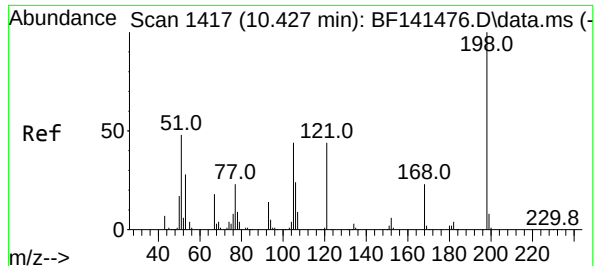


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



Tgt Ion:188 Resp: 333651
Ion Ratio Lower Upper
188 100
94 9.0 6.6 10.0
80 9.7 7.3 10.9





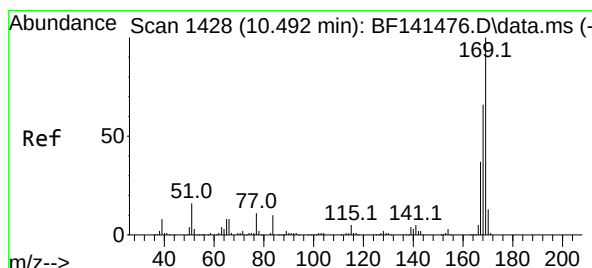
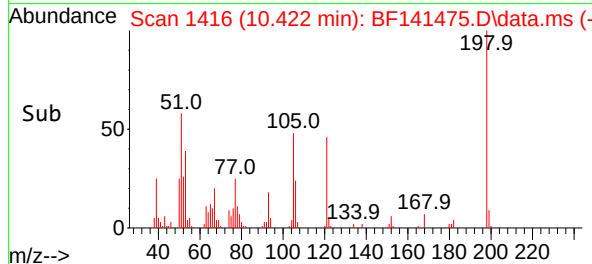
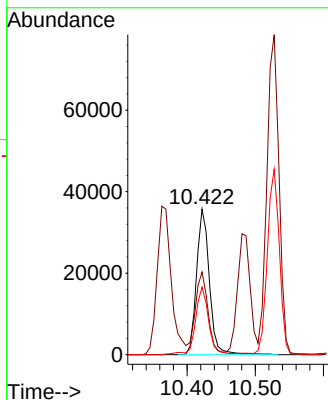
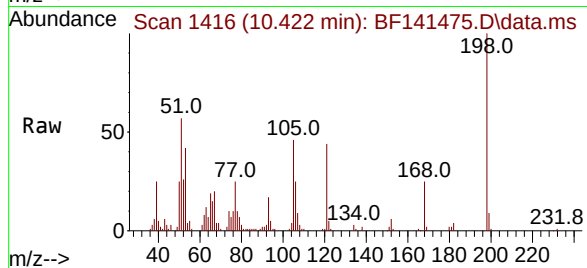
#65
4,6-Dinitro-2-methylphenol
Concen: 20.226 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 4687
Ion Ratio Lower Upper
198 100
51 56.7 37.4 77.4
105 46.4 25.2 65.2

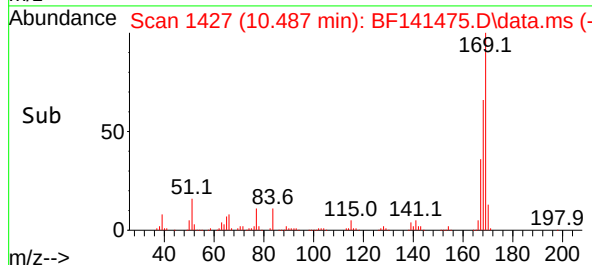
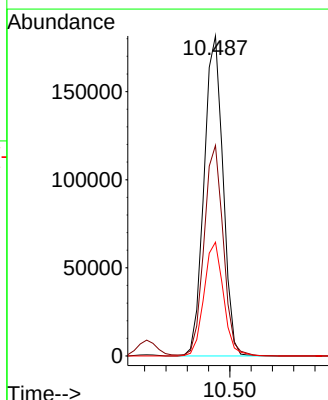
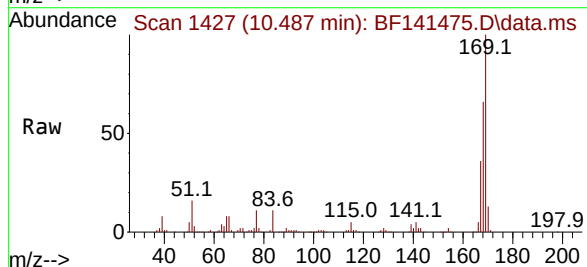
Manual Integrations
APPROVED

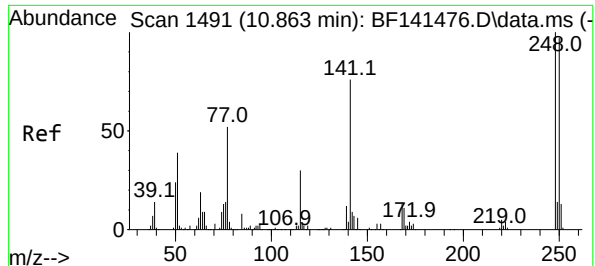
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#66
n-Nitrosodiphenylamine
Concen: 21.045 ng
RT: 10.487 min Scan# 1427
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

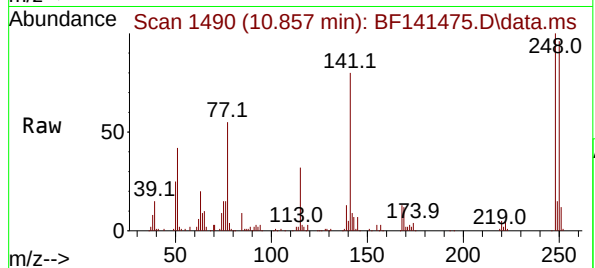
Tgt Ion:169 Resp: 224776
Ion Ratio Lower Upper
169 100
168 65.8 53.3 79.9
167 35.6 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 20.962 ng
RT: 10.857 min Scan# 1490
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

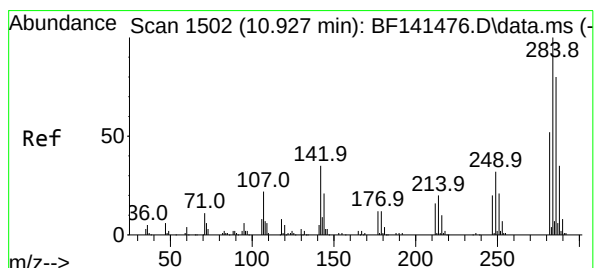
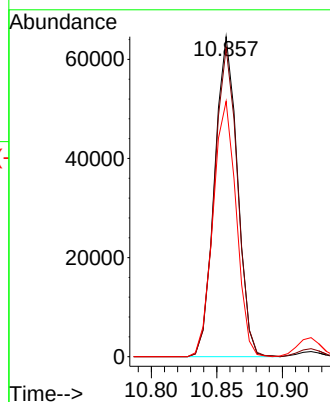
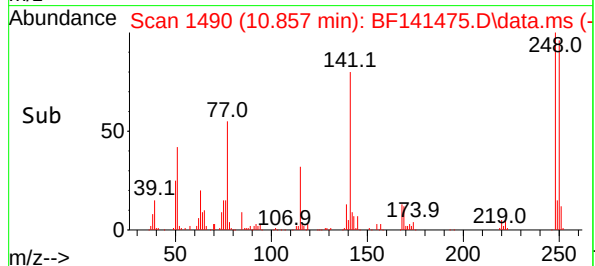
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



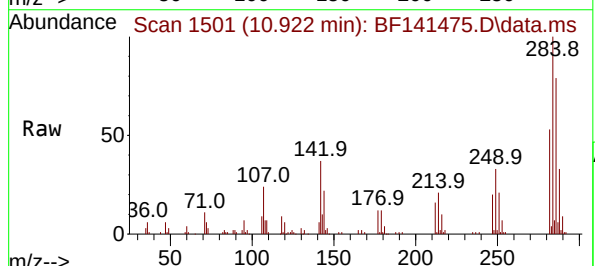
Tgt Ion:248 Resp: 7816
Ion Ratio Lower Upper
248 100
250 96.5 77.8 116.6
141 79.8 60.6 90.8

Manual Integrations
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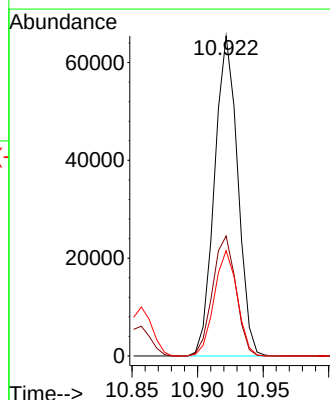
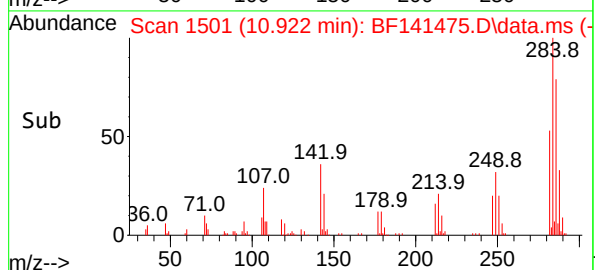
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

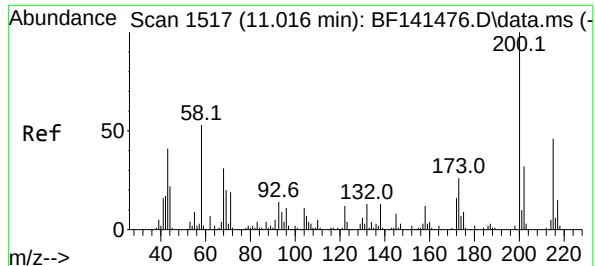


#68
Hexachlorobenzene
Concen: 20.913 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



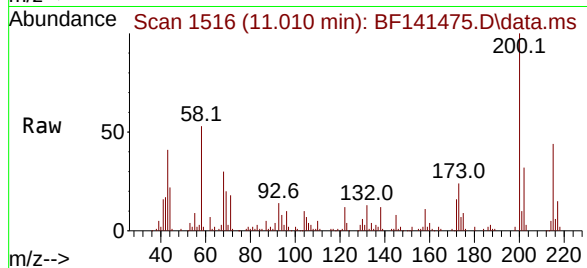
Tgt Ion:284 Resp: 80301
Ion Ratio Lower Upper
284 100
142 37.5 28.0 42.0
249 32.9 25.8 38.8





#69
Atrazine
Concen: 22.271 ng
RT: 11.010 min Scan# 1516
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

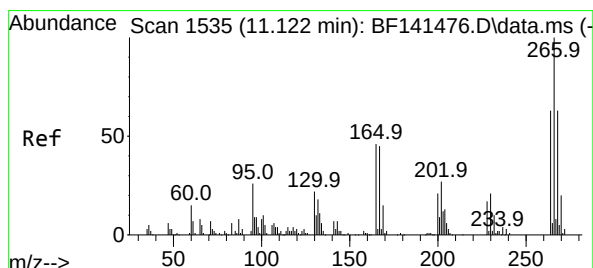
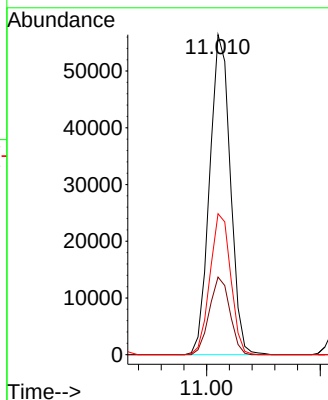
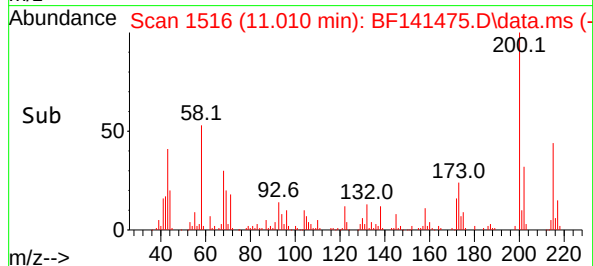
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:200 Resp: 71359
Ion Ratio Lower Upper
200 100
173 24.3 5.9 45.9
215 44.1 25.9 65.9

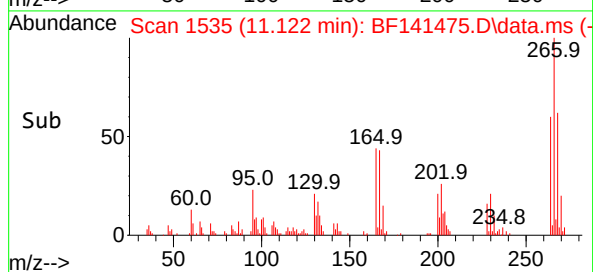
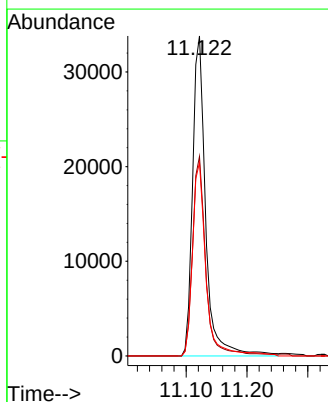
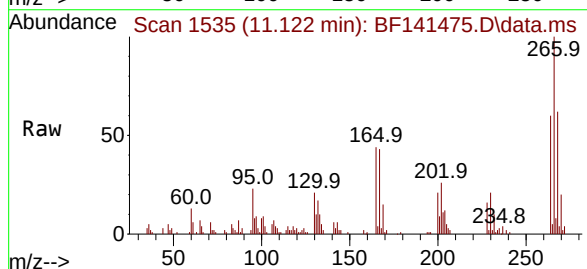
Manual Integrations
APPROVED

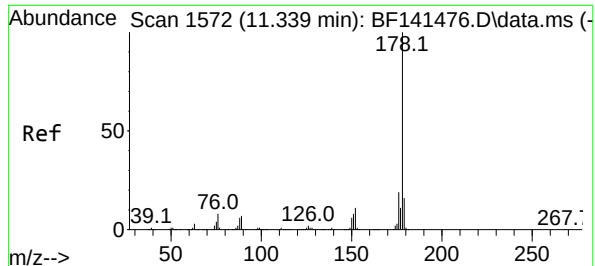
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#70
Pentachlorophenol
Concen: 20.584 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:266 Resp: 50539
Ion Ratio Lower Upper
266 100
268 62.4 50.1 75.1
264 60.5 50.1 75.1





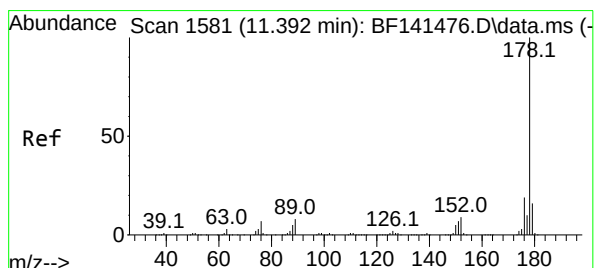
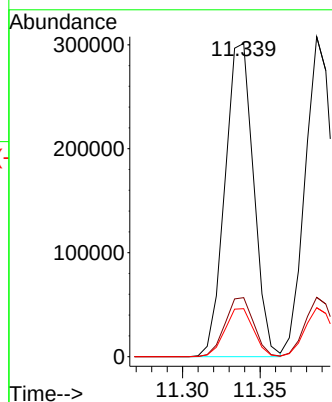
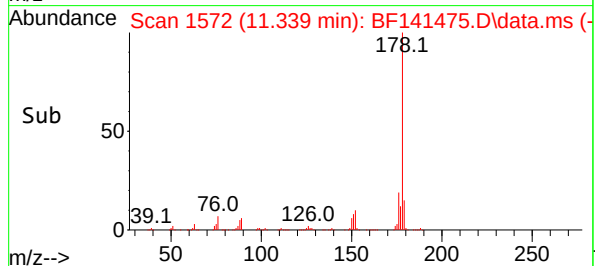
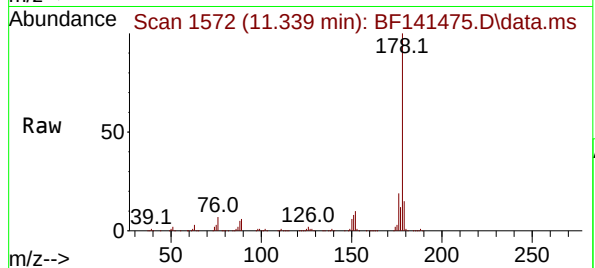
#71
Phenanthrene
Concen: 21.085 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 387250
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.3 12.4 18.6

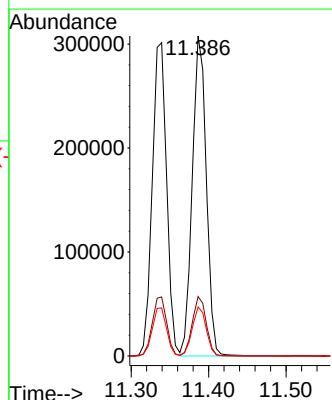
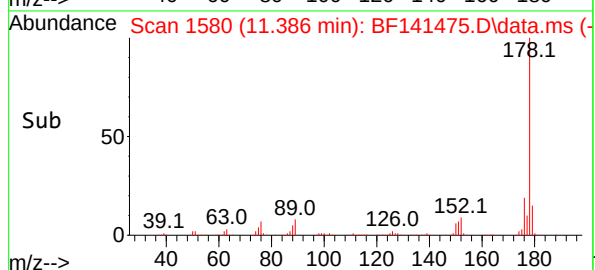
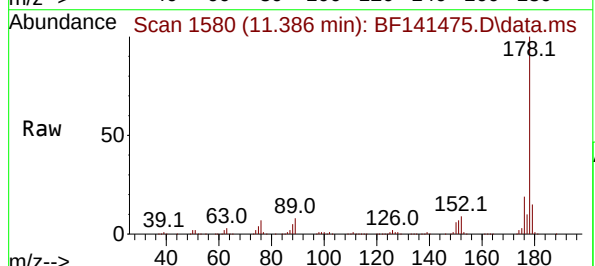
Manual Integrations
APPROVED

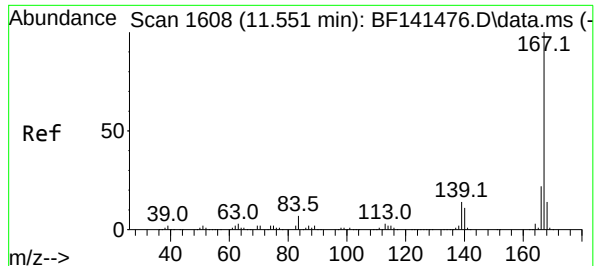
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#72
Anthracene
Concen: 20.930 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

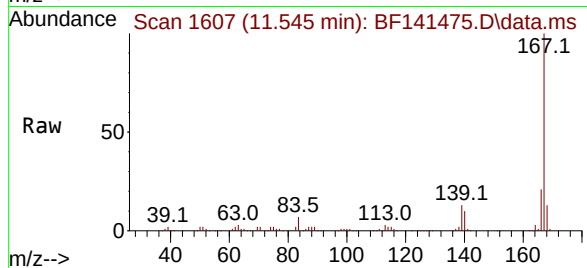
Tgt Ion:178 Resp: 386414
Ion Ratio Lower Upper
178 100
176 18.5 14.8 22.2
179 15.3 12.4 18.6





#73
Carbazole
Concen: 21.610 ng
RT: 11.545 min Scan# 1607
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

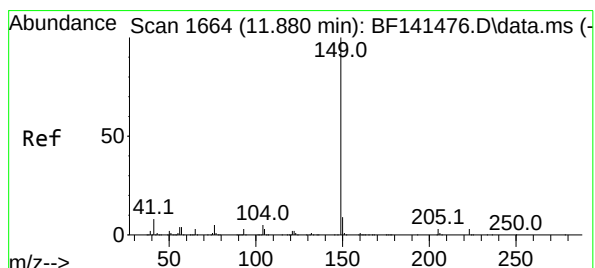
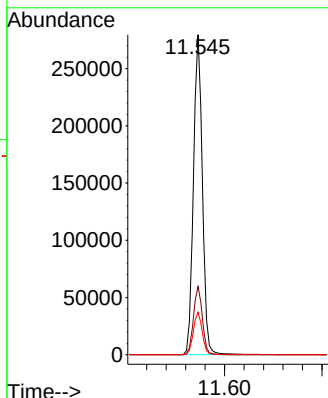
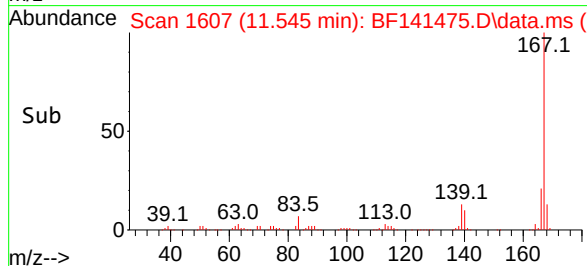
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



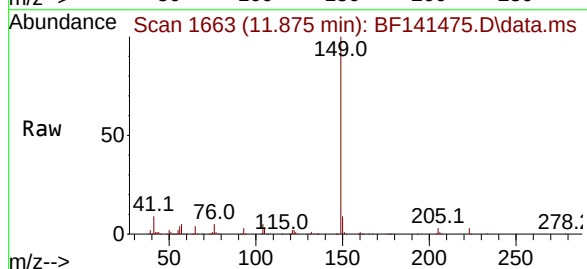
Tgt Ion:167 Resp: 35898
Ion Ratio Lower Upper
167 100
166 21.3 17.4 26.2
139 13.3 10.9 16.3

Manual Integrations
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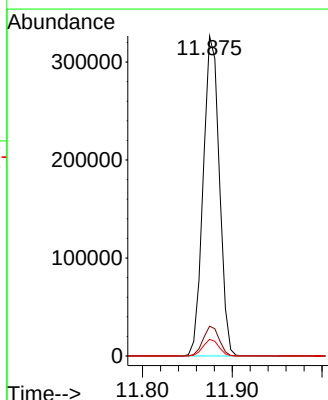
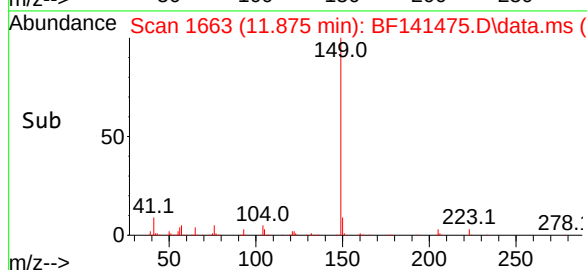
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

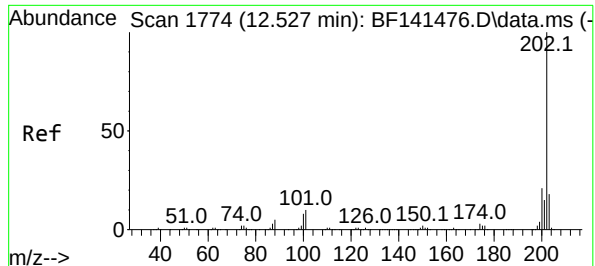


#74
Di-n-butylphthalate
Concen: 21.273 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



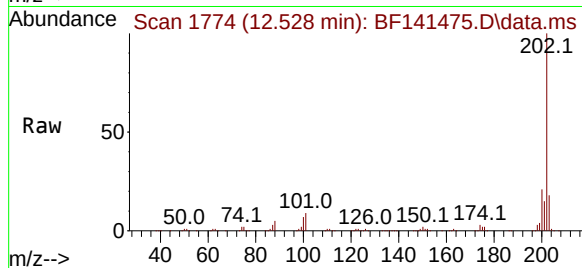
Tgt Ion:149 Resp: 408041
Ion Ratio Lower Upper
149 100
150 9.3 7.4 11.0
104 5.2 4.2 6.2





#75
Fluoranthene
Concen: 21.298 ng
RT: 12.528 min Scan# 1774
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

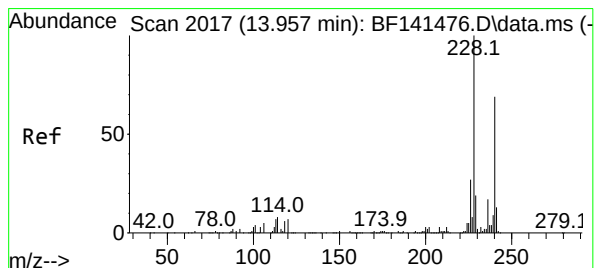
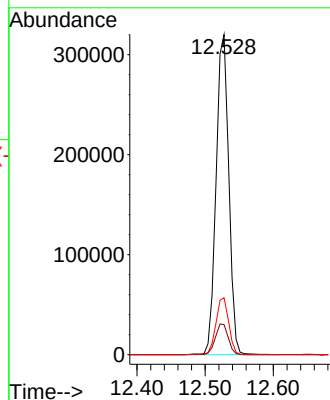
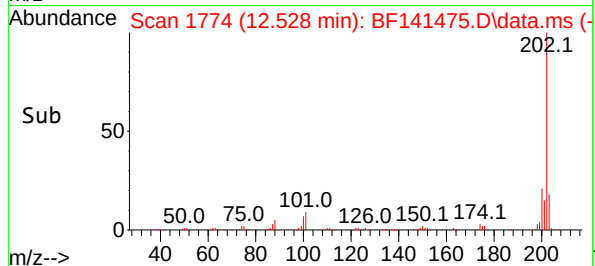
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:202 Resp: 414712
Ion Ratio Lower Upper
202 100
101 9.4 0.0 30.2
203 17.8 0.0 37.6

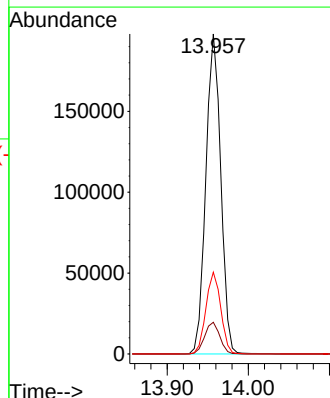
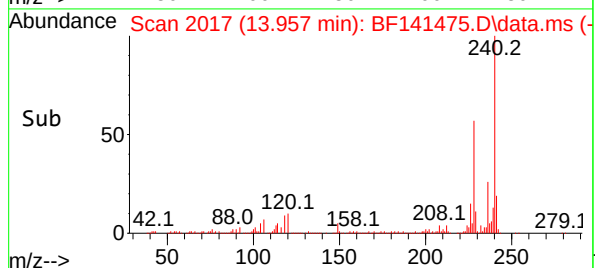
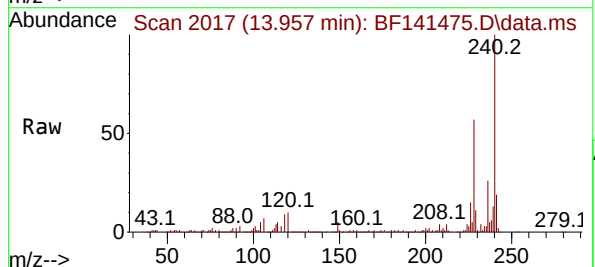
Manual Integrations
APPROVED

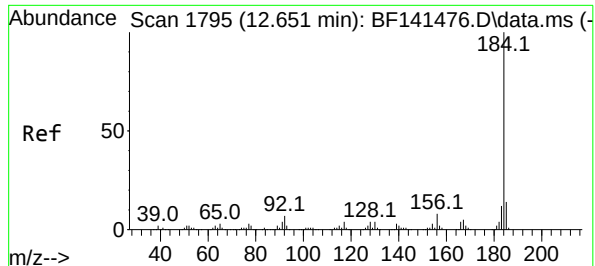
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:240 Resp: 251741
Ion Ratio Lower Upper
240 100
120 9.9 8.0 12.0
236 25.5 19.8 29.8





#77

Benzidine

Concen: 15.132 ng

RT: 12.651 min Scan# 1795

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

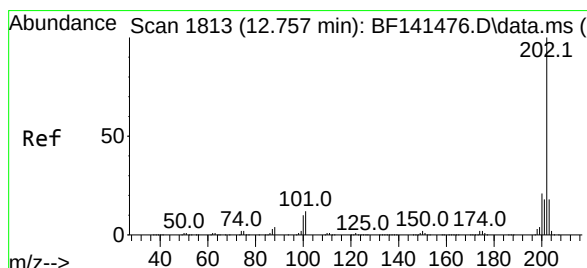
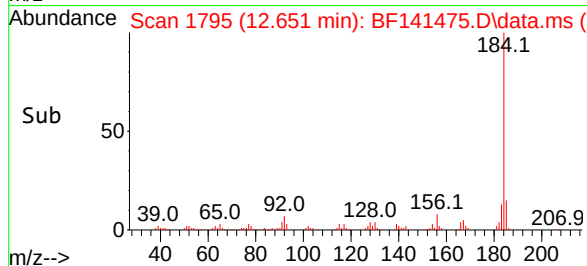
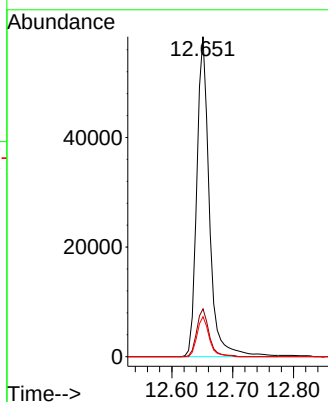
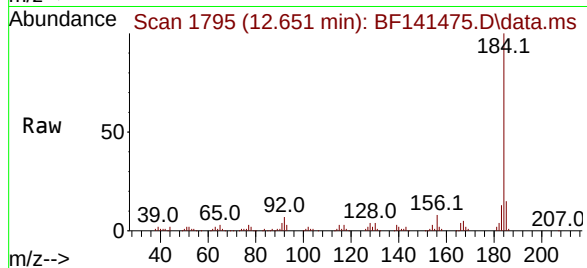
SSTDICC020

Tgt Ion:184	Resp:	8401
Ion Ratio	Lower	Upper
184	100	
185	14.9	11.3 16.9
183	12.5	9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#78

Pyrene

Concen: 20.169 ng

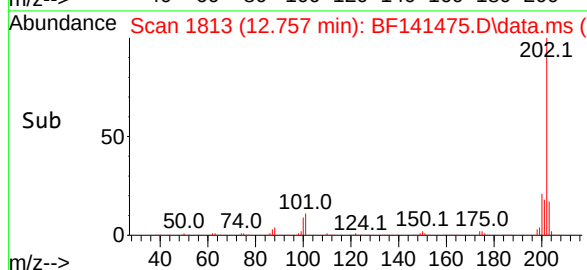
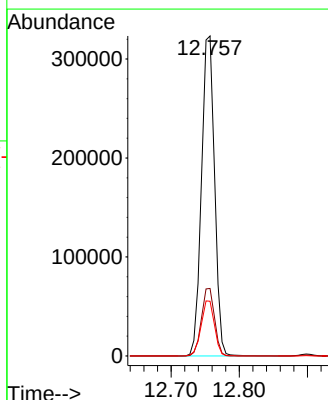
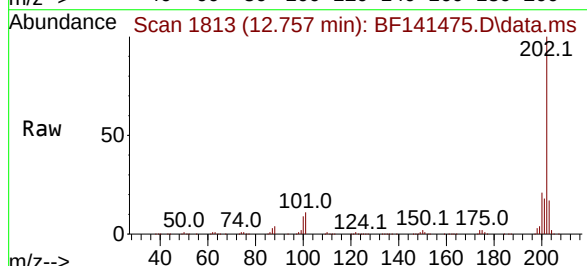
RT: 12.757 min Scan# 1813

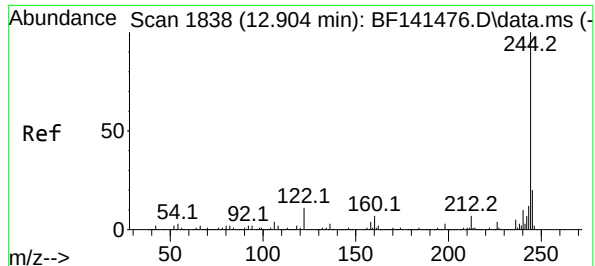
Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

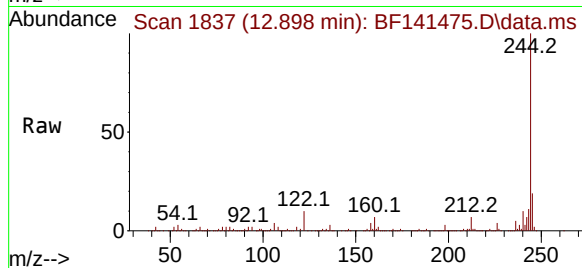
Tgt Ion:202	Resp:	432216
Ion Ratio	Lower	Upper
202	100	
200	21.1	17.0 25.4
203	17.1	14.3 21.5





#79
Terphenyl-d14
Concen: 40.894 ng
RT: 12.898 min Scan# 1837
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

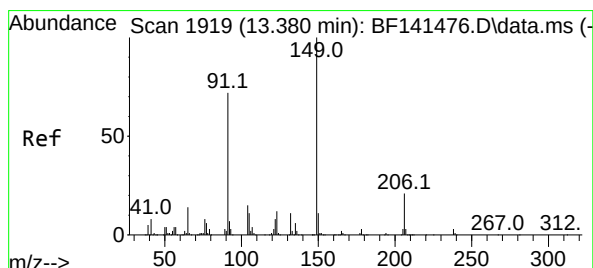
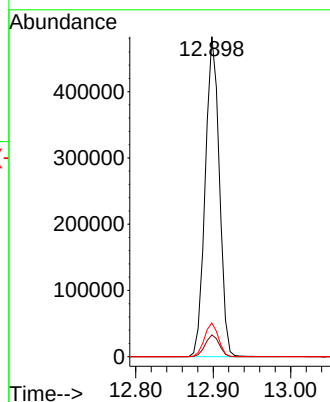
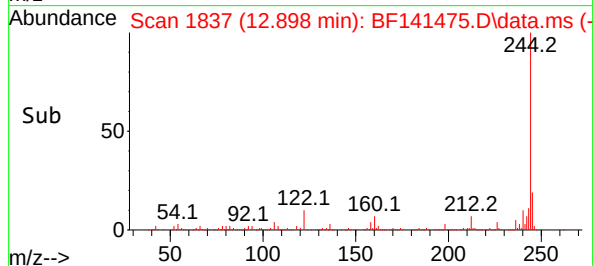
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:244 Resp: 609819
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 10.5 8.4 12.6

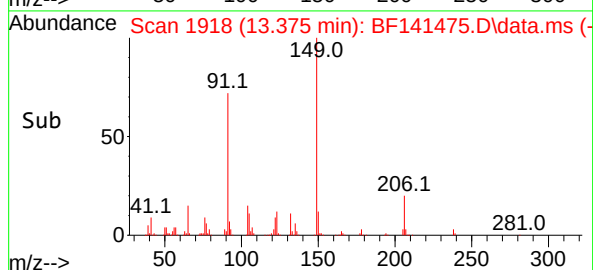
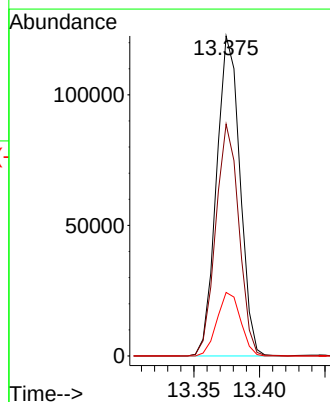
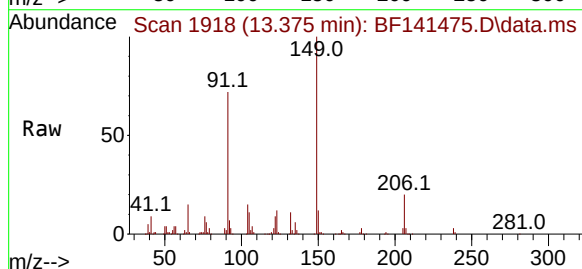
Manual Integrations
APPROVED

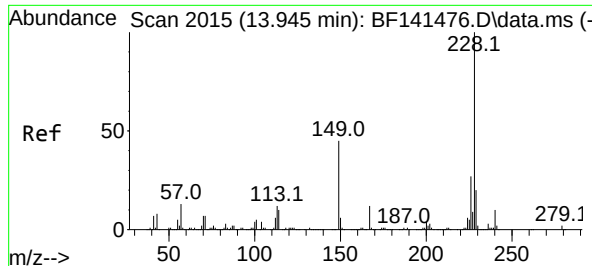
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#80
Butylbenzylphthalate
Concen: 20.502 ng
RT: 13.375 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

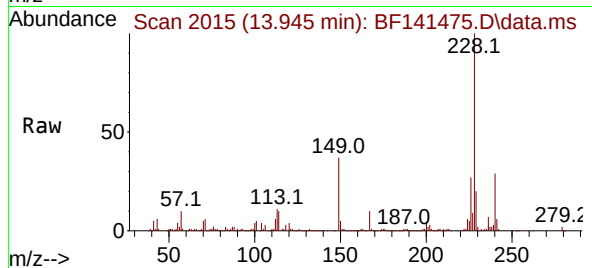
Tgt Ion:149 Resp: 152184
Ion Ratio Lower Upper
149 100
91 72.5 57.8 86.8
206 19.8 16.7 25.1





#81
Benzo(a)anthracene
Concen: 20.310 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

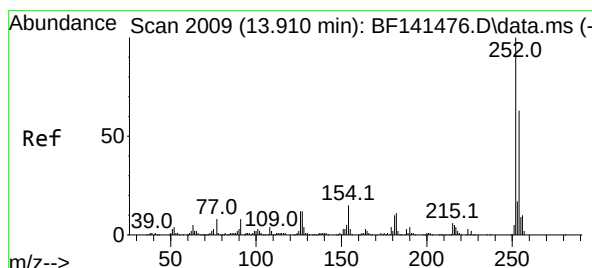
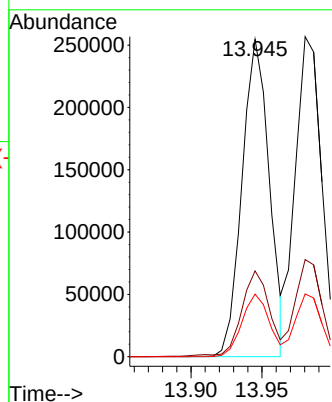
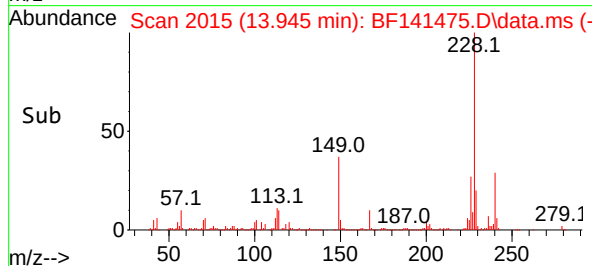
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



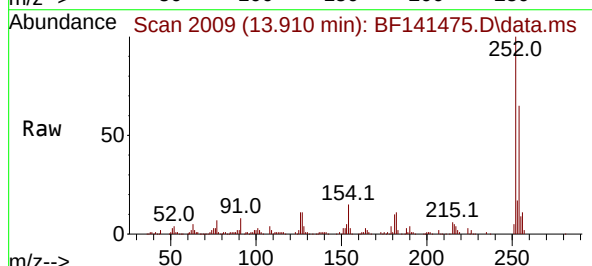
Tgt Ion:228 Resp: 33987
Ion Ratio Lower Upper
228 100
226 27.1 21.8 32.8
229 19.7 15.8 23.6

Manual Integrations
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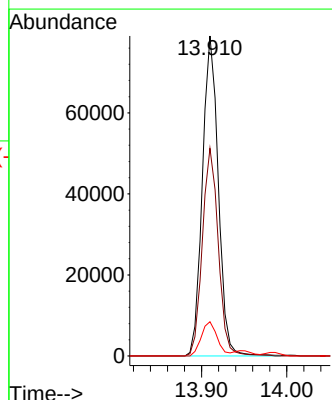
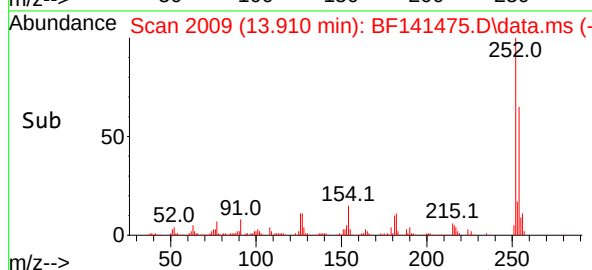
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

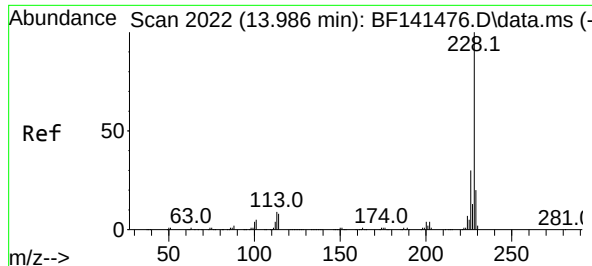


#82
3,3'-Dichlorobenzidine
Concen: 21.355 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



Tgt Ion:252 Resp: 102367
Ion Ratio Lower Upper
252 100
254 64.9 50.6 76.0
126 10.7 9.3 13.9





#83

Chrysene

Concen: 21.411 ng

RT: 13.980 min Scan# 2021

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:228 Resp: 33082

Ion Ratio Lower Upper

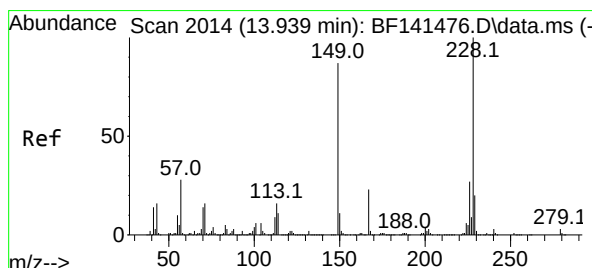
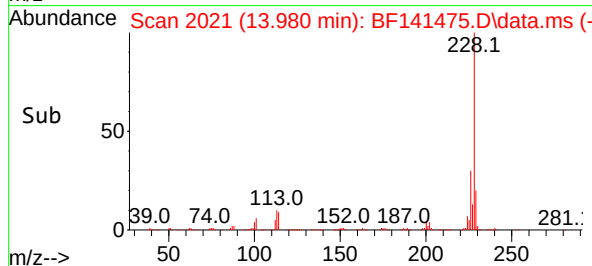
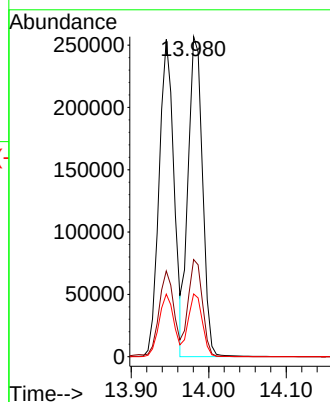
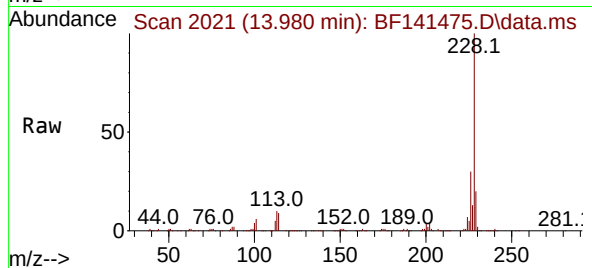
228 100

226 30.3 24.0 36.0

229 19.6 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

#84

Bis(2-ethylhexyl)phthalate

Concen: 20.588 ng

RT: 13.939 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

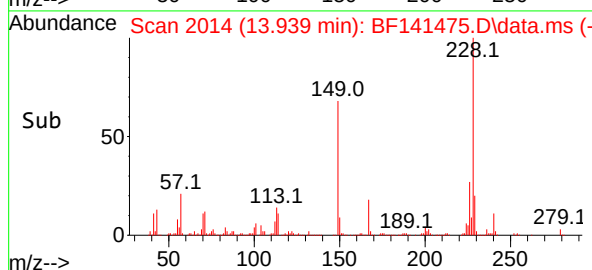
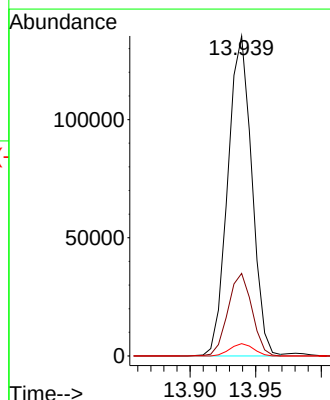
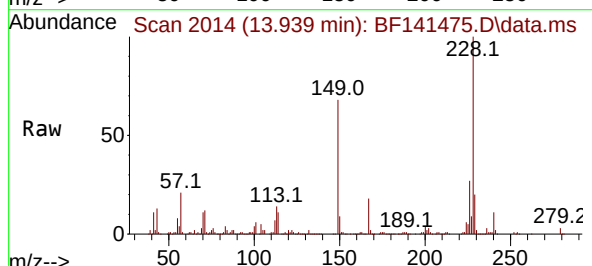
Tgt Ion:149 Resp: 172352

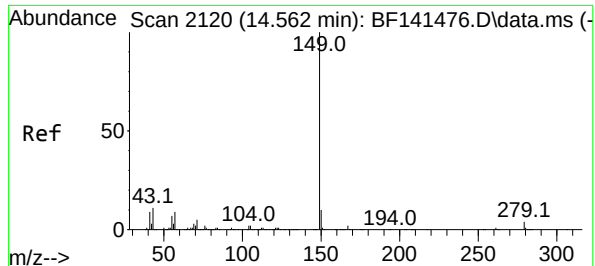
Ion Ratio Lower Upper

149 100

167 25.8 21.4 32.0

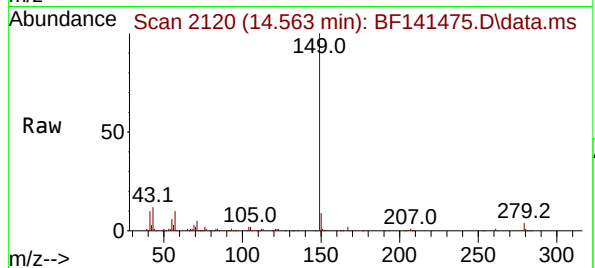
279 3.9 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 19.180 ng
RT: 14.563 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

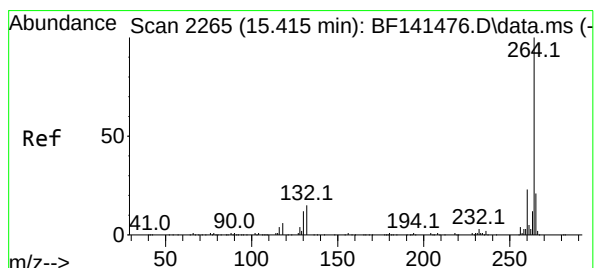
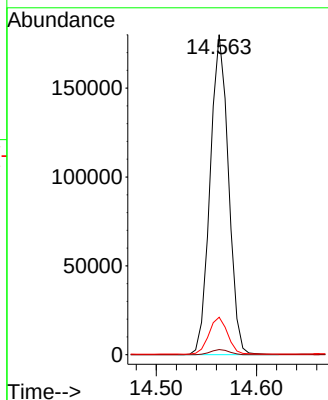
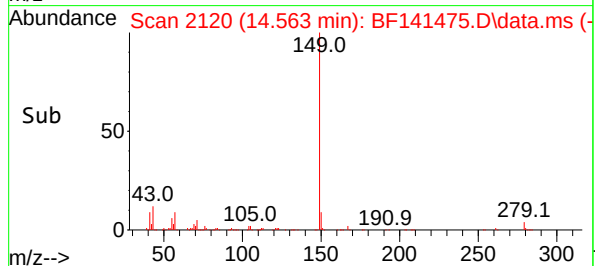
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:149 Resp: 229060
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 11.7 9.5 14.3

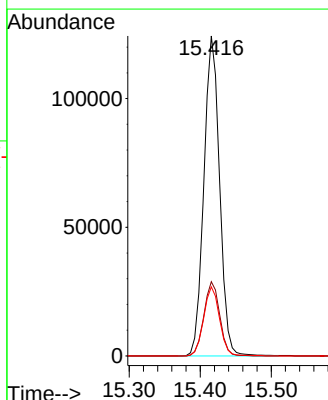
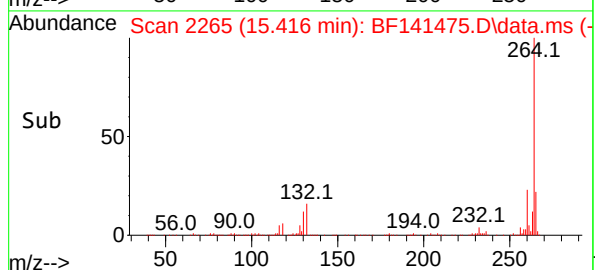
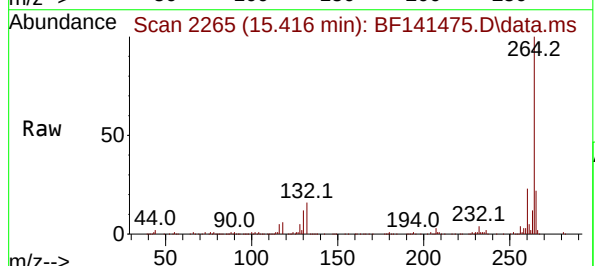
Manual Integrations
APPROVED

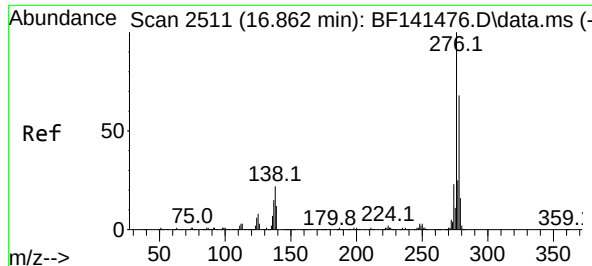
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:264 Resp: 191435
Ion Ratio Lower Upper
264 100
260 23.2 18.6 28.0
265 21.6 17.0 25.4





#87
Indeno(1,2,3-cd)pyrene
Concen: 19.200 ng
RT: 16.857 min Scan# 2511
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

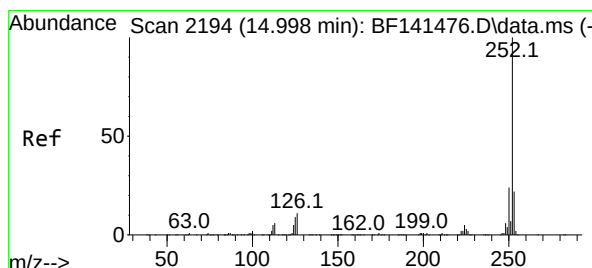
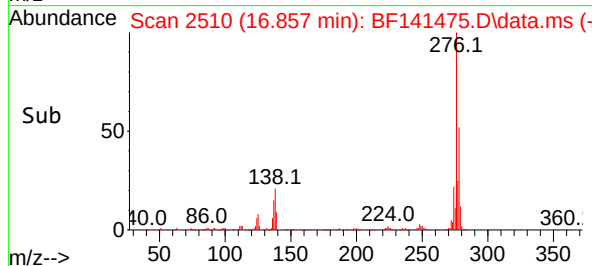
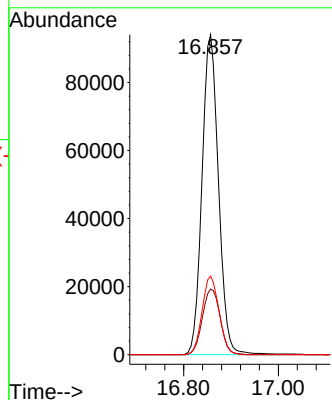
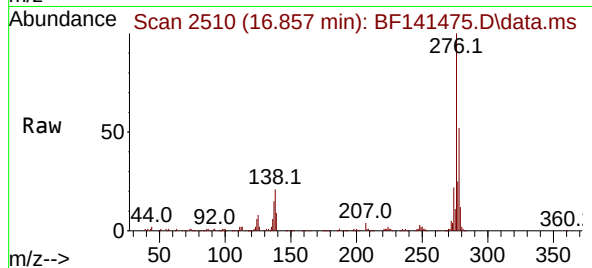
SSTDICC020

Tgt Ion:276 Resp: 227105
Ion Ratio Lower Upper
276 100
138 22.1 18.0 27.0
277 25.1 20.4 30.6

Manual Integrations

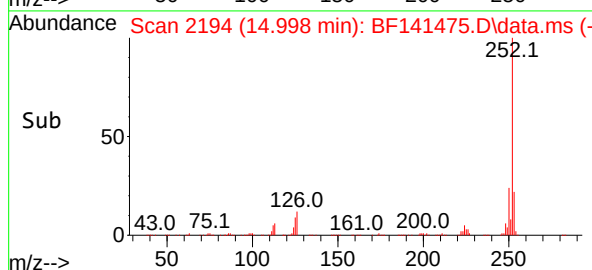
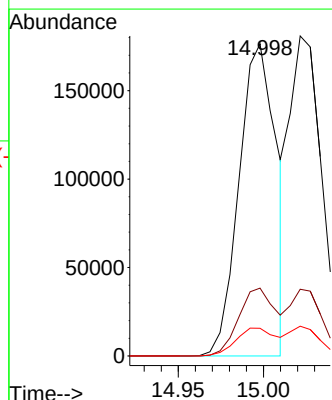
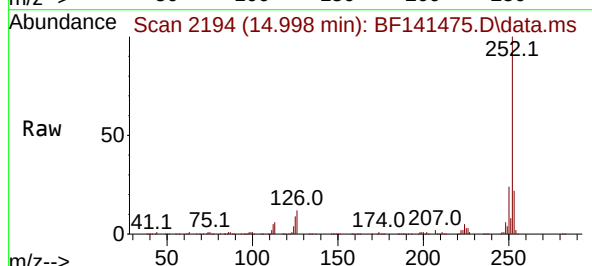
APPROVED

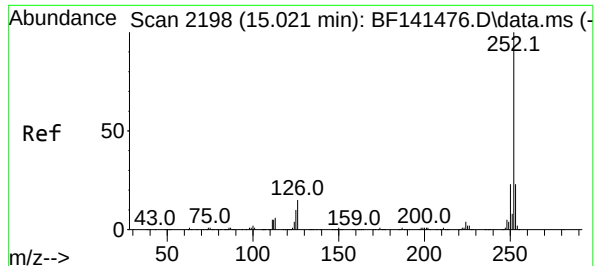
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#88
Benzo(b)fluoranthene
Concen: 20.826 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 267695
Ion Ratio Lower Upper
252 100
253 21.7 17.5 26.3
125 8.9 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 21.747 ng

RT: 15.022 min Scan# 2198

Delta R.T. -0.011 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:252 Resp: 23869

Ion Ratio Lower Upper

252 100

253 20.9 18.0 27.0

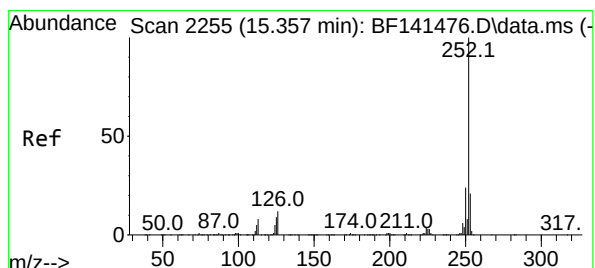
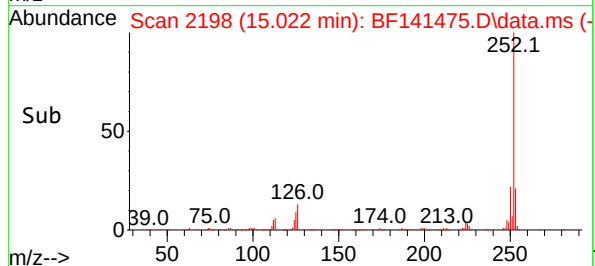
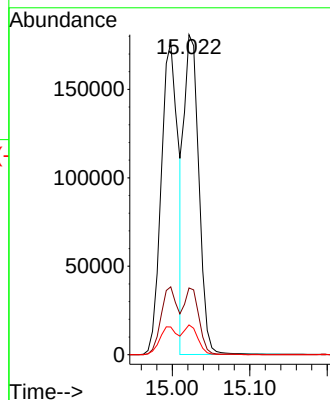
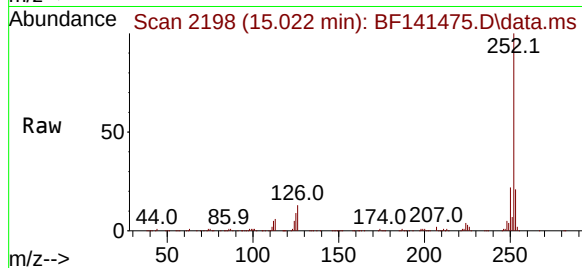
125 9.3 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/07/2025

Supervised By :mohammad ahmed 02/07/2025



#90

Benzo(a)pyrene

Concen: 20.528 ng

RT: 15.357 min Scan# 2255

Delta R.T. -0.006 min

Lab File: BF141475.D

Acq: 06 Feb 2025 12:26

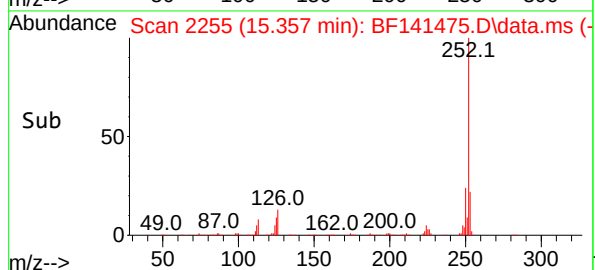
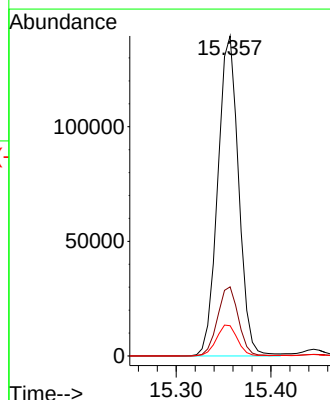
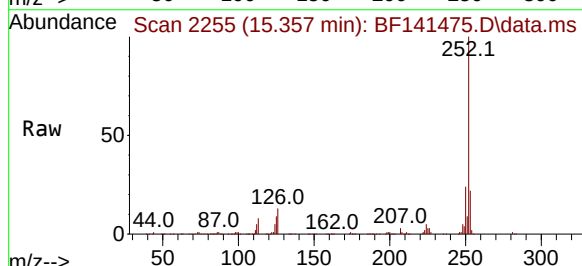
Tgt Ion:252 Resp: 213510

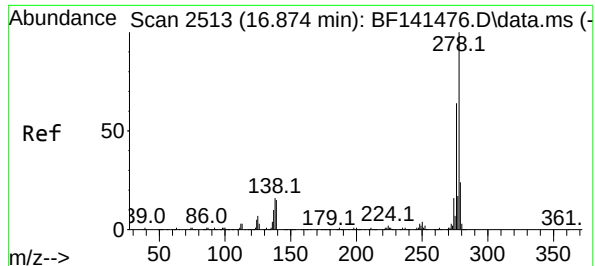
Ion Ratio Lower Upper

252 100

253 21.6 17.1 25.7

125 9.5 7.4 11.2





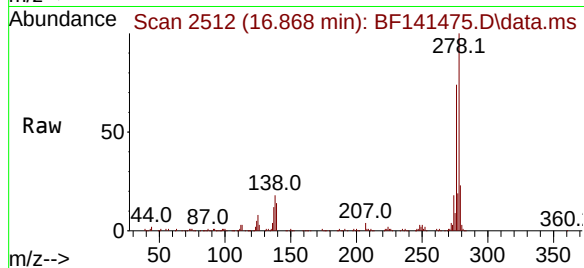
#91
Dibenzo(a,h)anthracene
Concen: 19.379 ng
RT: 16.868 min Scan# 2512
Delta R.T. -0.023 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

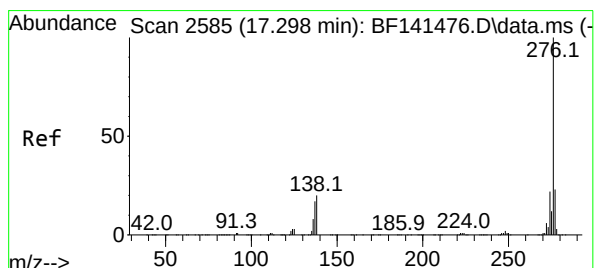
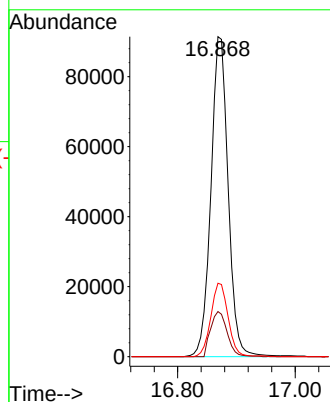
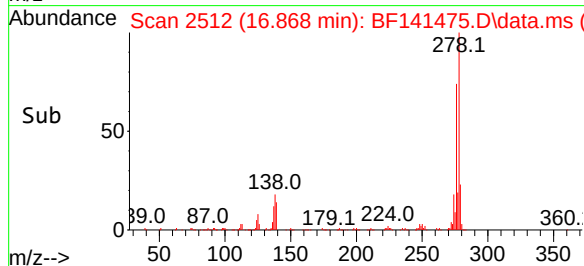


Tgt Ion:278 Resp: 185740
Ion Ratio Lower Upper
278 100
139 14.1 11.8 17.6
279 23.0 19.1 28.7

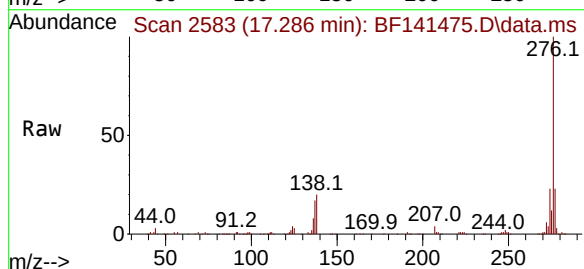
Manual Integrations

APPROVED

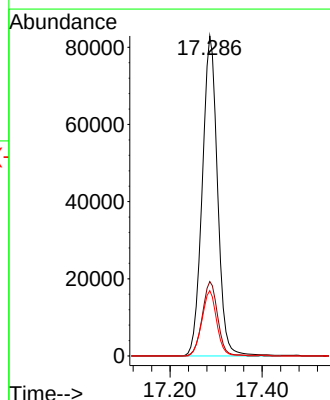
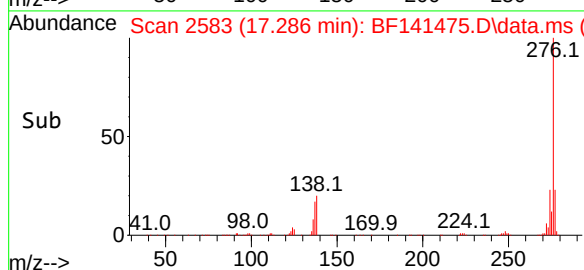
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#92
Benzo(g,h,i)perylene
Concen: 19.103 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26



Tgt Ion:276 Resp: 191595
Ion Ratio Lower Upper
276 100
277 23.3 18.6 28.0
138 20.4 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141476.D
 Acq On : 06 Feb 2025 12:55
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	89095	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	351555	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193385	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	336425	20.000	ng	0.00
76) Chrysene-d12	13.957	240	225462	20.000	ng	0.00
86) Perylene-d12	15.415	264	182907	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	459422	80.841	ng	0.00
7) Phenol-d6	6.428	99	574808	80.025	ng	-0.01
23) Nitrobenzene-d5	7.357	82	540793	80.234	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	154725	79.647	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	981440	78.189	ng	0.00
79) Terphenyl-d14	12.904	244	1080174	80.879	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	92090	40.262	ng	100
3) Pyridine	3.210	79	225032	41.344	ng	100
4) n-Nitrosodimethylamine	3.163	42	145802	40.456	ng	100
6) Aniline	6.451	93	274102	40.681	ng	100
8) 2-Chlorophenol	6.581	128	245676	40.008	ng	100
9) Benzaldehyde	6.339	77	146382	38.350	ng	100
10) Phenol	6.445	94	300315	40.171	ng	100
11) bis(2-Chloroethyl)ether	6.528	93	225665	40.188	ng	100
12) 1,3-Dichlorobenzene	6.728	146	256806	39.613	ng	100
13) 1,4-Dichlorobenzene	6.804	146	262121	39.574	ng	100
14) 1,2-Dichlorobenzene	6.963	146	244757	39.814	ng	100
15) Benzyl Alcohol	6.934	79	224961	40.841	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	385739	40.130	ng	100
17) 2-Methylphenol	7.051	107	191970	39.951	ng	100
18) Hexachloroethane	7.298	117	98581	40.215	ng	100
19) n-Nitroso-di-n-propyla...	7.204	70	172712	40.198	ng	100
20) 3+4-Methylphenols	7.204	107	244439	40.024	ng	100
22) Acetophenone	7.198	105	346731	39.649	ng	100
24) Nitrobenzene	7.375	77	263188	40.044	ng	100
25) Isophorone	7.610	82	429323	39.948	ng	100
26) 2-Nitrophenol	7.686	139	135355	41.394	ng	100
27) 2,4-Dimethylphenol	7.728	122	156665	41.012	ng	100
28) bis(2-Chloroethoxy)met...	7.822	93	276730	40.185	ng	100
29) 2,4-Dichlorophenol	7.939	162	208390	40.375	ng	100
30) 1,2,4-Trichlorobenzene	8.016	180	222679	39.619	ng	100
31) Naphthalene	8.092	128	729358	39.856	ng	100
32) Benzoic acid	7.857	122	161196	40.625	ng	100
33) 4-Chloroaniline	8.151	127	255749	40.029	ng	100
34) Hexachlorobutadiene	8.210	225	135140	40.051	ng	100
35) Caprolactam	8.516	113	65155	41.461	ng	100
36) 4-Chloro-3-methylphenol	8.633	107	231344	40.464	ng	100
37) 2-Methylnaphthalene	8.786	142	470332	39.496	ng	100
38) 1-Methylnaphthalene	8.886	142	461189	39.987	ng	100
40) 1,2,4,5-Tetrachloroben...	8.951	216	225938	40.383	ng	100
41) Hexachlorocyclopentadiene	8.939	237	78762	42.325	ng	100
43) 2,4,6-Trichlorophenol	9.063	196	145682	40.288	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141476.D
 Acq On : 06 Feb 2025 12:55
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

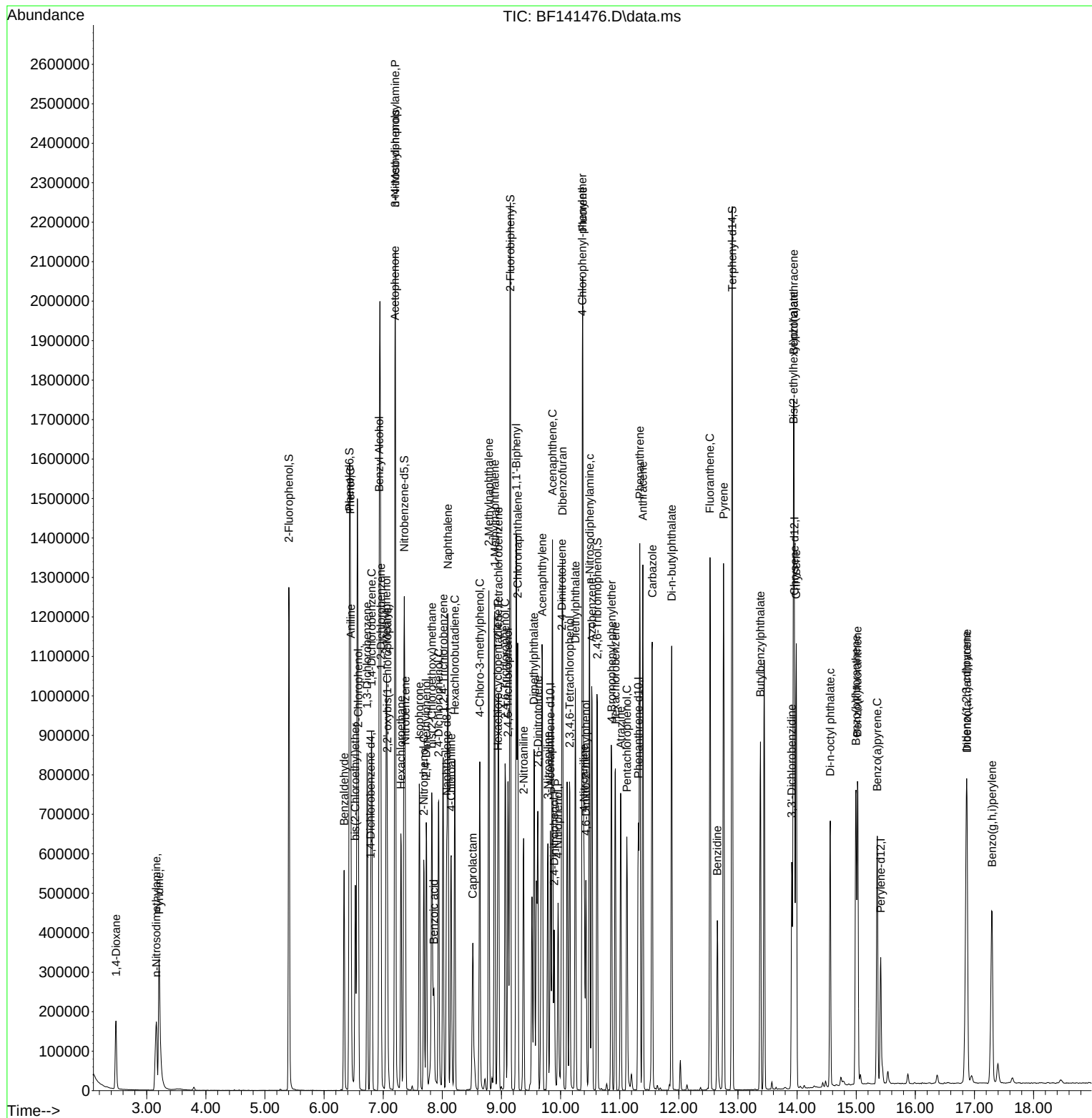
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	158685	40.492	ng	100
46) 1,1'-Biphenyl	9.251	154	597404	39.846	ng	100
47) 2-Chloronaphthalene	9.275	162	438926	39.590	ng	100
48) 2-Nitroaniline	9.375	65	150922	40.563	ng	100
49) Acenaphthylene	9.692	152	656124	39.789	ng	100
50) Dimethylphthalate	9.551	163	520384	39.638	ng	100
51) 2,6-Dinitrotoluene	9.616	165	116338	40.536	ng	100
52) Acenaphthene	9.863	154	445515	40.186	ng	100
53) 3-Nitroaniline	9.786	138	123530	39.991	ng	100
54) 2,4-Dinitrophenol	9.892	184	68489	40.153	ng	100
55) Dibenzofuran	10.033	168	647242	39.775	ng	100
56) 4-Nitrophenol	9.957	139	96456	42.065	ng	100
57) 2,4-Dinitrotoluene	10.022	165	153824	40.262	ng	100
58) Fluorene	10.375	166	498929	39.654	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	134581	39.888	ng	100
60) Diethylphthalate	10.251	149	514358	39.821	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	240707	39.767	ng	100
62) 4-Nitroaniline	10.398	138	129392	41.253	ng	100
63) Azobenzene	10.527	77	512692	39.926	ng	100
65) 4,6-Dinitro-2-methylph...	10.427	198	95521	40.874	ng	100
66) n-Nitrosodiphenylamine	10.492	169	421937	39.180	ng	100
67) 4-Bromophenyl-phenylether	10.863	248	148603	39.522	ng	100
68) Hexachlorobenzene	10.927	284	152664	39.430	ng	100
69) Atrazine	11.016	200	124494	38.533	ng	100
70) Pentachlorophenol	11.122	266	103806	41.930	ng	100
71) Phenanthrene	11.339	178	729585	39.397	ng	100
72) Anthracene	11.392	178	728337	39.125	ng	100
73) Carbazole	11.551	167	663523	39.613	ng	100
74) Di-n-butylphthalate	11.880	149	767961	39.706	ng	100
75) Fluoranthene	12.527	202	774369	39.441	ng	100
77) Benzidine	12.651	184	238261	47.917	ng	100
78) Pyrene	12.757	202	786956	41.002	ng	100
80) Butylbenzylphthalate	13.380	149	274711	41.323	ng	100
81) Benzo(a)anthracene	13.945	228	606669	40.479	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	170181	39.640	ng	100
83) Chrysene	13.986	228	541376	39.121	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	310696	41.438	ng	100
85) Di-n-octyl phthalate	14.562	149	435142	40.682	ng	100
87) Indeno(1,2,3-cd)pyrene	16.862	276	471272	41.699	ng	100
88) Benzo(b)fluoranthene	14.998	252	488585	39.783	ng	100
89) Benzo(k)fluoranthene	15.021	252	417770	39.836	ng	100
90) Benzo(a)pyrene	15.357	252	395193	39.767	ng	100
91) Dibenzo(a,h)anthracene	16.874	278	384623	42.001	ng	100
92) Benzo(g,h,i)perylene	17.298	276	402413	41.992	ng	100

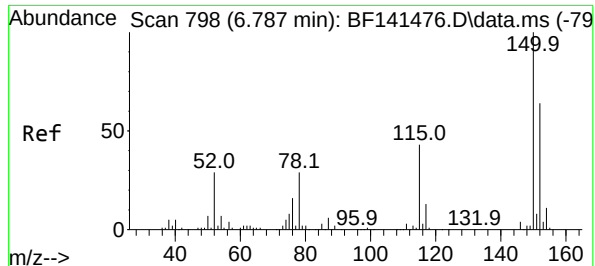
(#) = qualifier out of range (m) = manual integration (+) = signals summed


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Data File : BF141476.D  
Acq On    : 06 Feb 2025  12:55  
Operator  : RC/JU  
Sample    : SSTIDICC040  
Misc      :  
ALS Vial  : 6    Sample Multiplier: 1
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Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

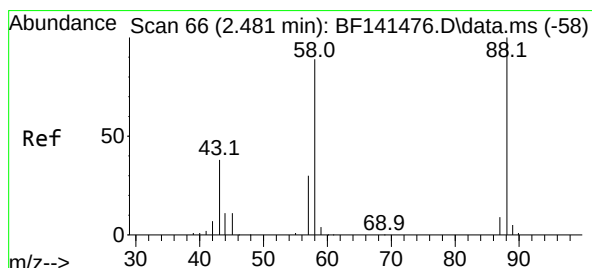
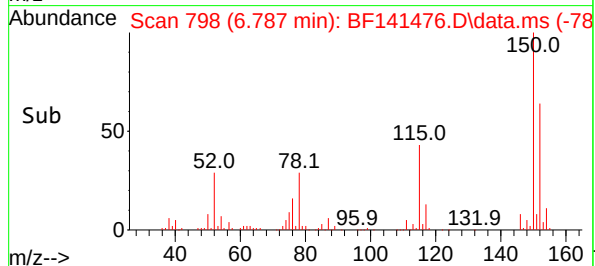
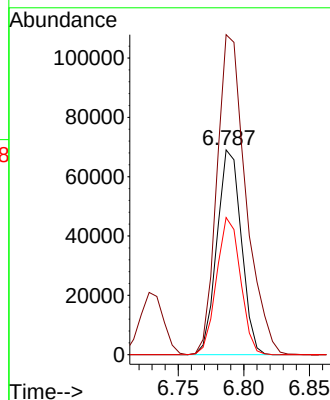
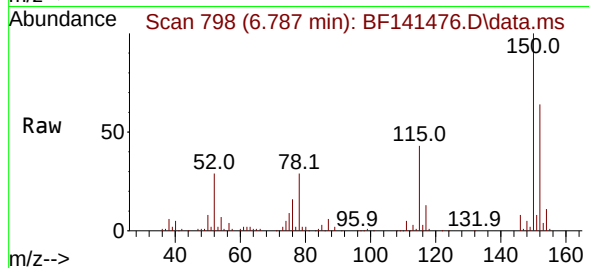




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

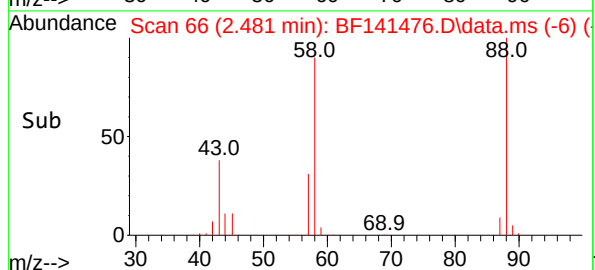
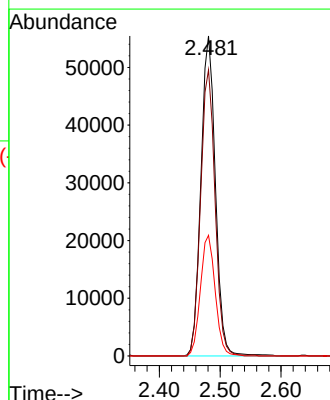
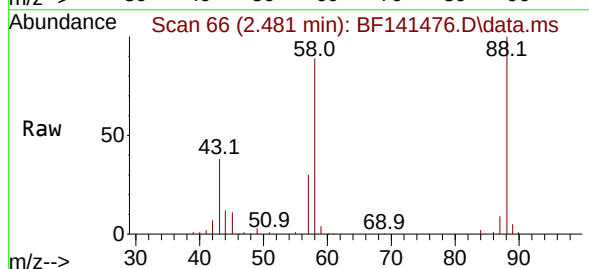
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

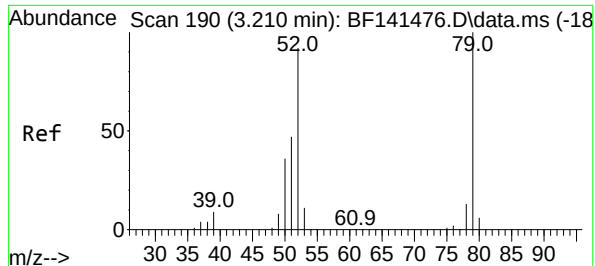
Tgt Ion:152 Resp: 89095
Ion Ratio Lower Upper
152 100
150 156.2 125.0 187.4
115 67.0 53.6 80.4



#2
1,4-Dioxane
Concen: 40.262 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 88 Resp: 92090
Ion Ratio Lower Upper
88 100
58 88.9 71.1 106.7
43 38.3 30.6 46.0

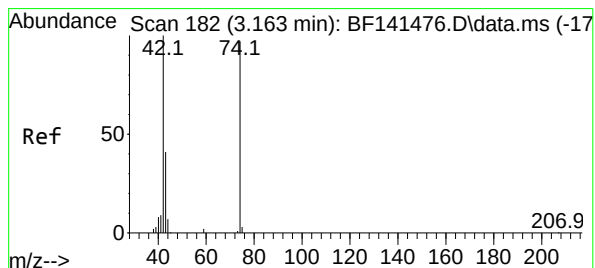
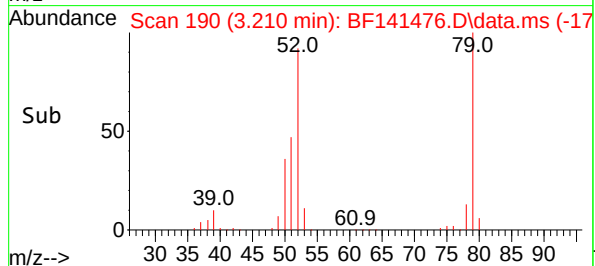
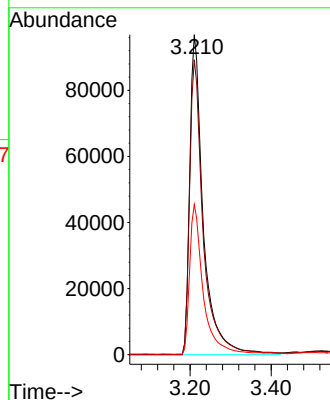
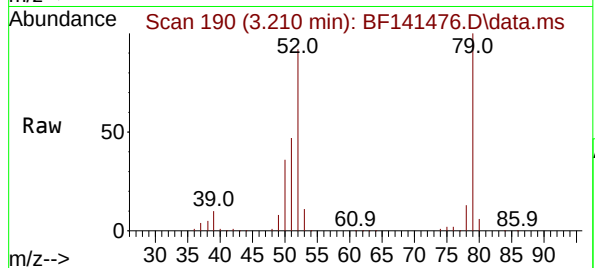




#3
Pyridine
Concen: 41.344 ng
RT: 3.210 min Scan# 190
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

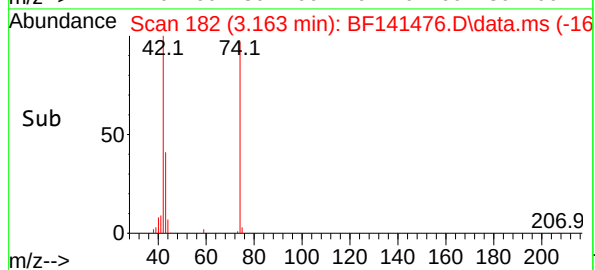
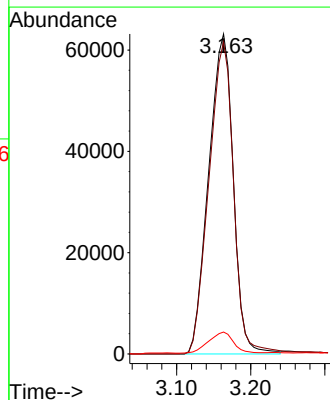
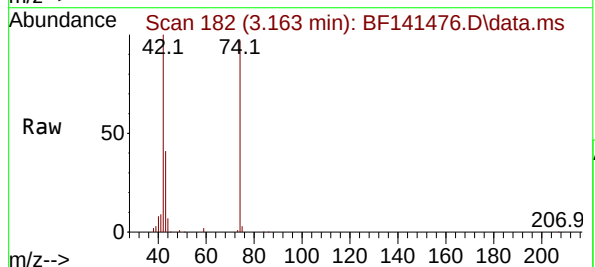
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

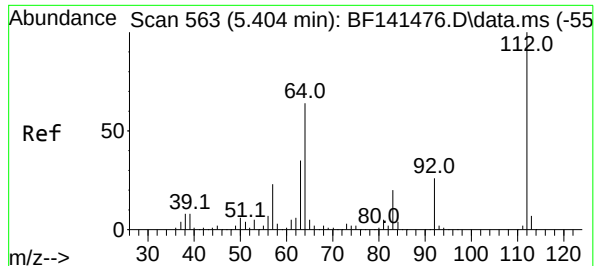
Tgt Ion: 79 Resp: 225032
Ion Ratio Lower Upper
79 100
52 92.1 73.7 110.5
51 46.9 37.5 56.3



#4
n-Nitrosodimethylamine
Concen: 40.456 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.023 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 42 Resp: 145802
Ion Ratio Lower Upper
42 100
74 97.5 78.0 117.0
44 6.8 5.4 8.2

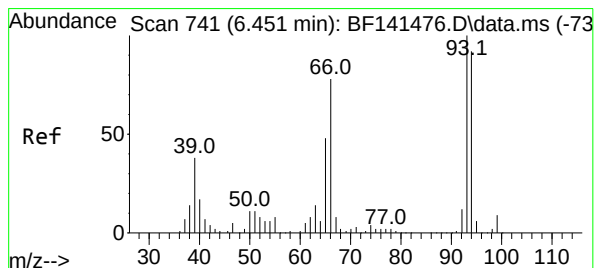
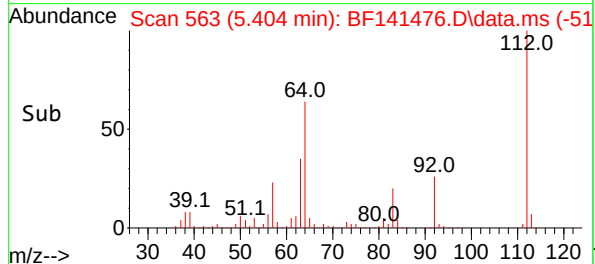
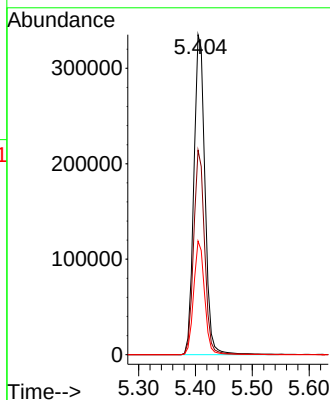
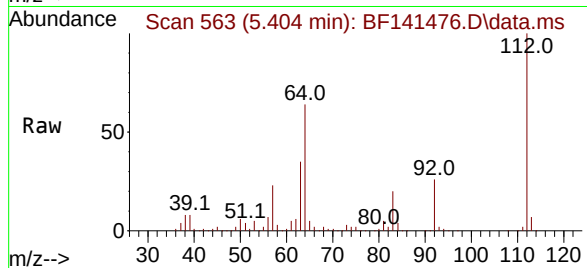




#5
2-Fluorophenol
Concen: 80.841 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

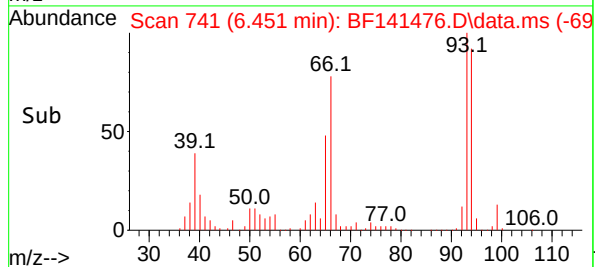
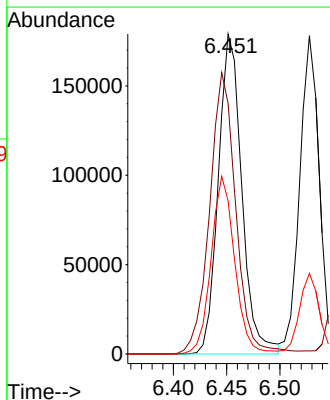
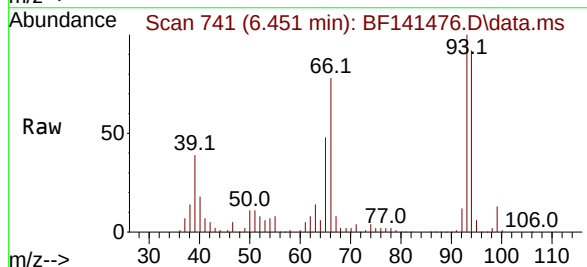
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

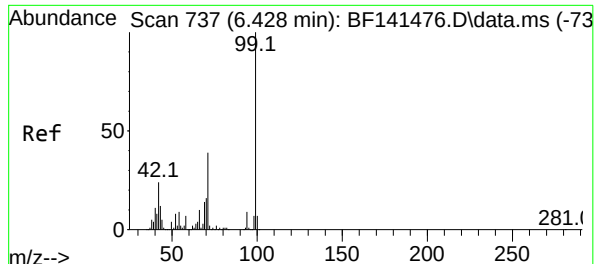
Tgt Ion:112 Resp: 459422
Ion Ratio Lower Upper
112 100
64 63.9 51.1 76.7
63 35.5 28.4 42.6



#6
Aniline
Concen: 40.681 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 93 Resp: 274102
Ion Ratio Lower Upper
93 100
66 78.3 62.6 94.0
65 47.9 38.3 57.5





#7

Phenol-d6

Concen: 80.025 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

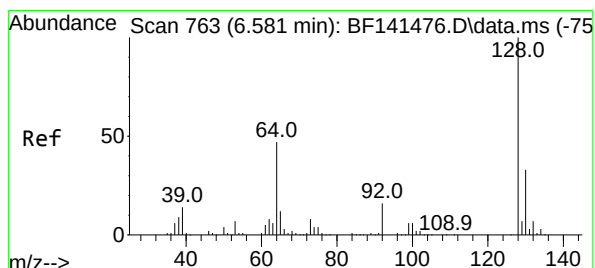
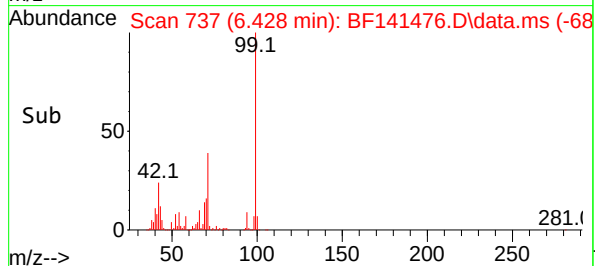
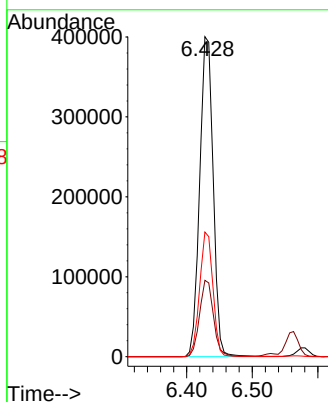
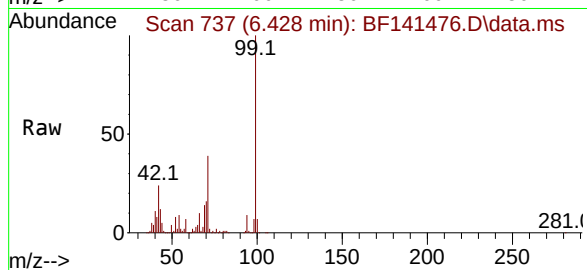
Tgt Ion: 99 Resp: 574808

Ion Ratio Lower Upper

99 100

42 23.9 19.1 28.7

71 38.9 31.1 46.7



#8

2-Chlorophenol

Concen: 40.008 ng

RT: 6.581 min Scan# 763

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

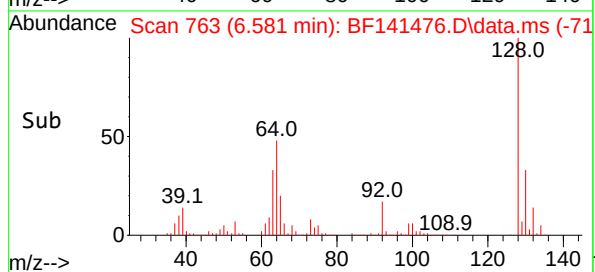
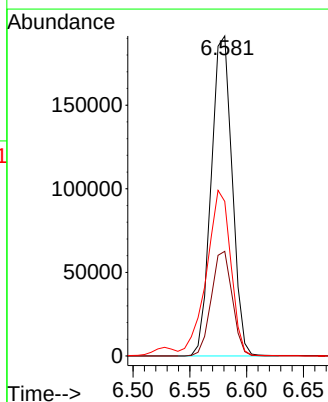
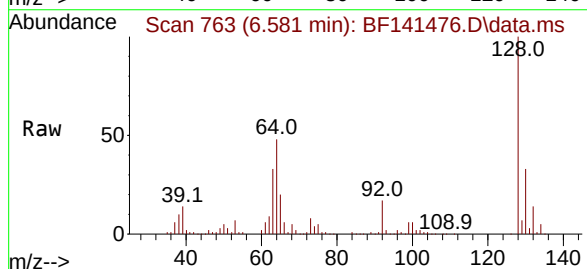
Tgt Ion: 128 Resp: 245676

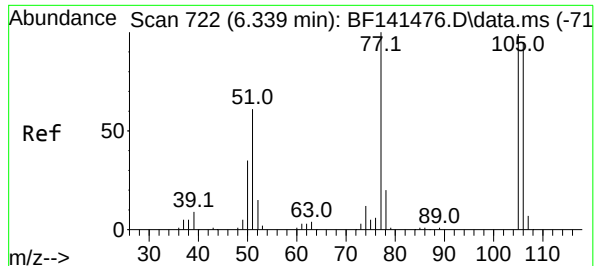
Ion Ratio Lower Upper

128 100

130 32.7 12.7 52.7

64 48.3 28.3 68.3

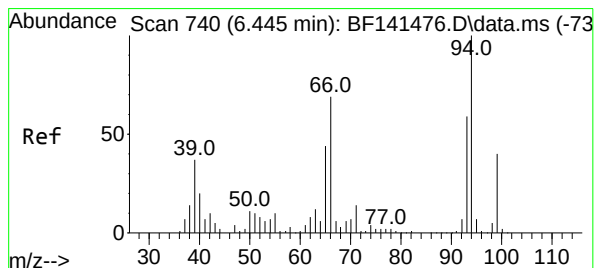
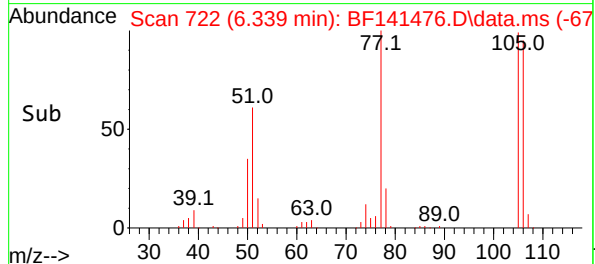
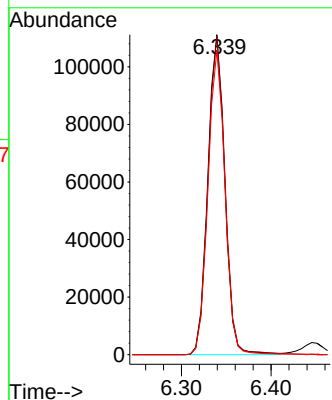
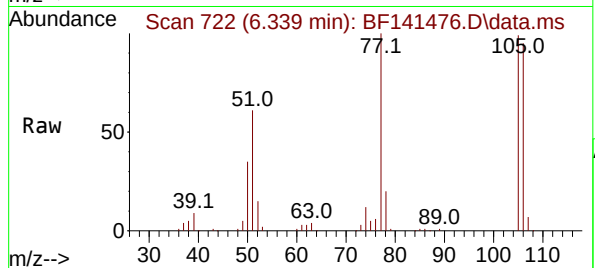




#9
Benzaldehyde
Concen: 38.350 ng
RT: 6.339 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

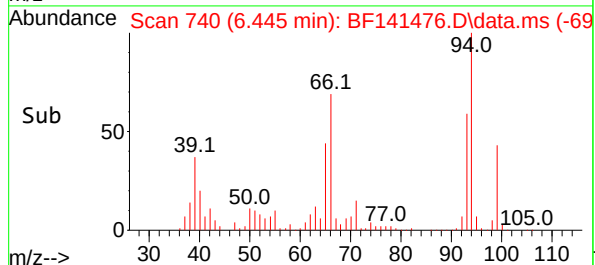
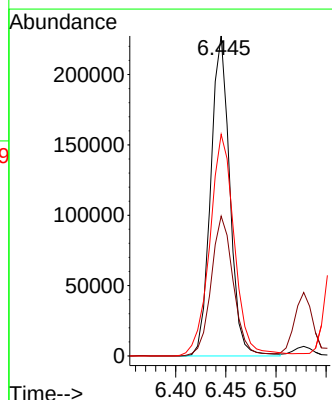
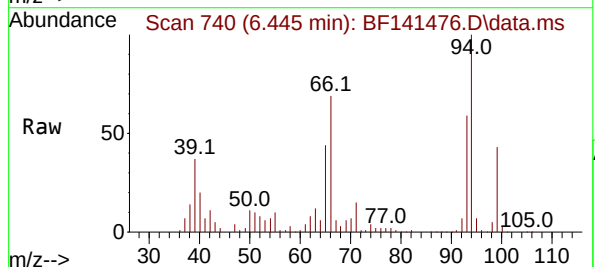
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

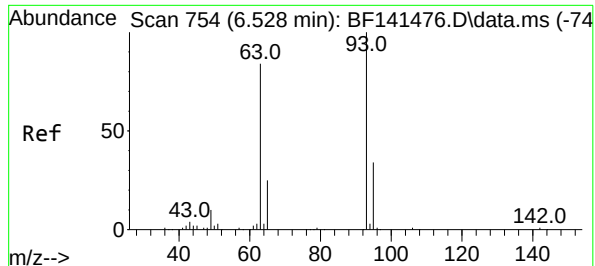
Tgt Ion: 77 Resp: 146382
Ion Ratio Lower Upper
77 100
105 99.4 79.4 119.4
106 95.1 75.1 115.1



#10
Phenol
Concen: 40.171 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 94 Resp: 300315
Ion Ratio Lower Upper
94 100
65 43.7 23.7 63.7
66 69.3 49.3 89.3





#11

bis(2-Chloroethyl)ether

Concen: 40.188 ng

RT: 6.528 min Scan# 754

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

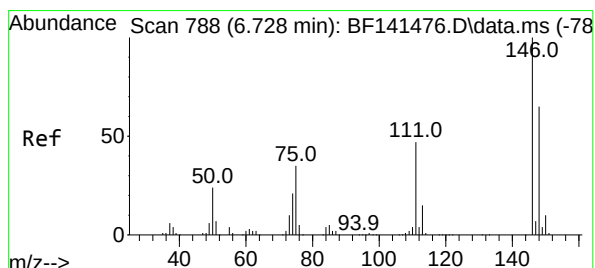
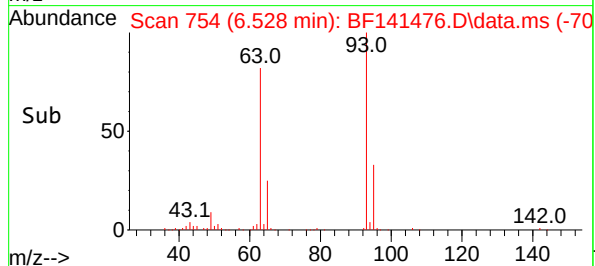
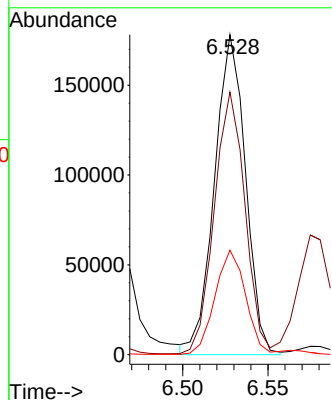
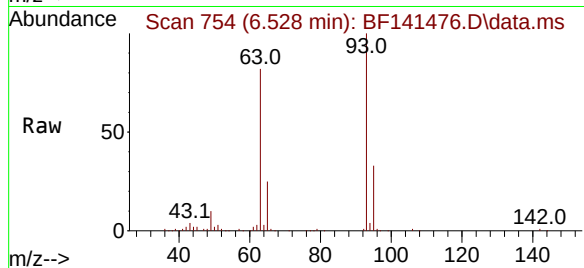
Tgt Ion: 93 Resp: 225665

Ion Ratio Lower Upper

93 100

63 82.0 62.0 102.0

95 32.6 12.6 52.6



#12

1,3-Dichlorobenzene

Concen: 39.613 ng

RT: 6.728 min Scan# 788

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

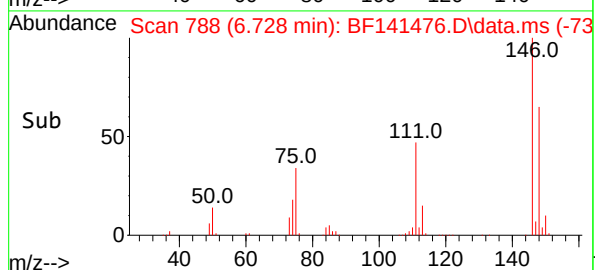
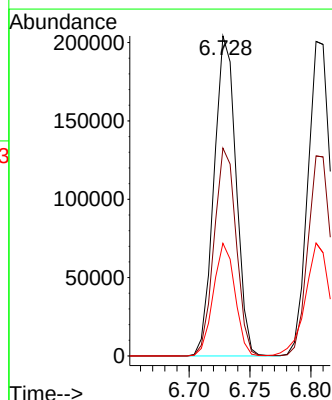
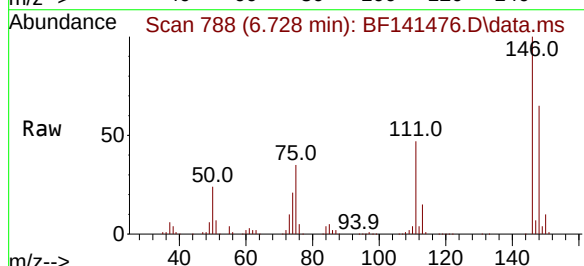
Tgt Ion:146 Resp: 256806

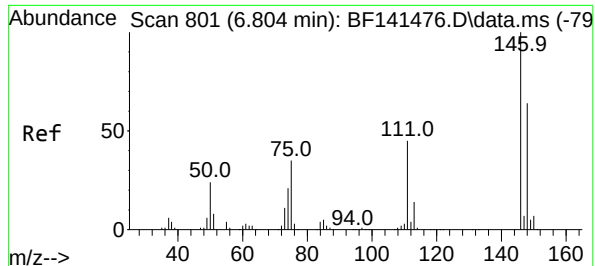
Ion Ratio Lower Upper

146 100

148 64.9 51.9 77.9

75 35.2 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 39.574 ng

RT: 6.804 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

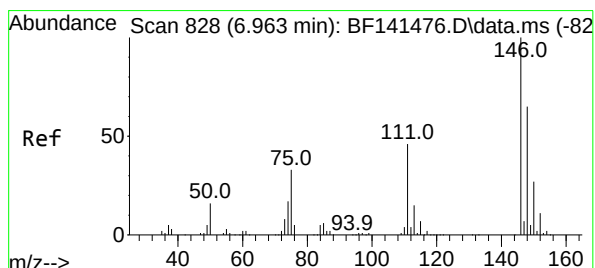
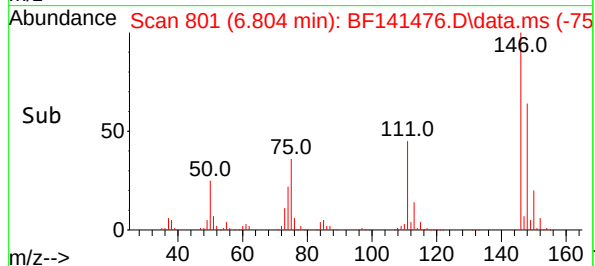
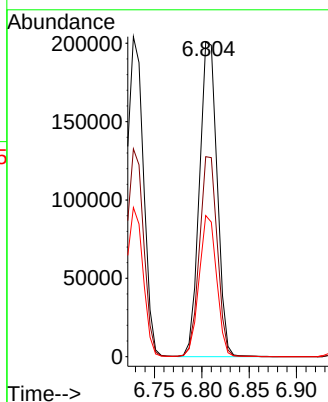
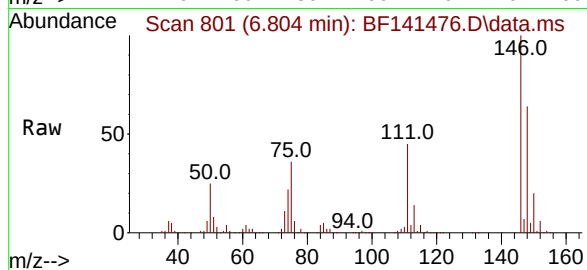
Tgt Ion:146 Resp: 262121

Ion Ratio Lower Upper

146 100

148 63.6 50.9 76.3

111 44.9 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 39.814 ng

RT: 6.963 min Scan# 828

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

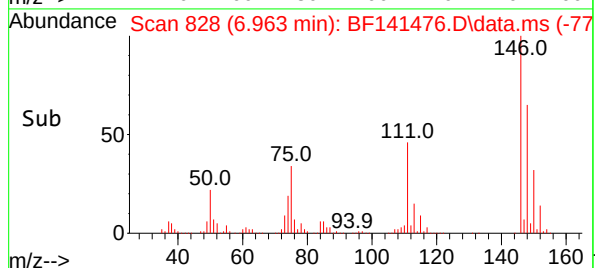
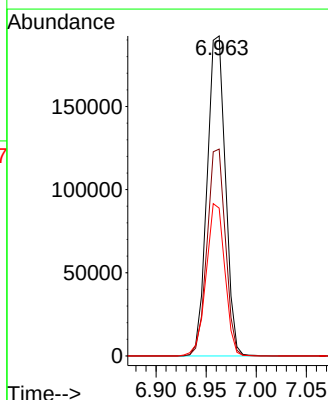
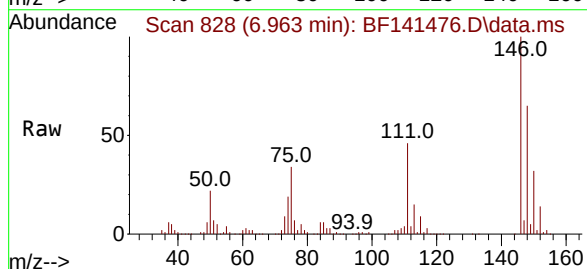
Tgt Ion:146 Resp: 244757

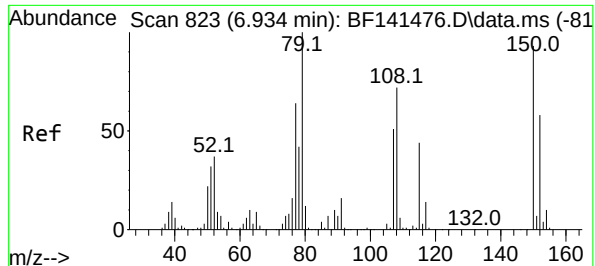
Ion Ratio Lower Upper

146 100

148 64.7 51.8 77.6

111 46.2 37.0 55.4

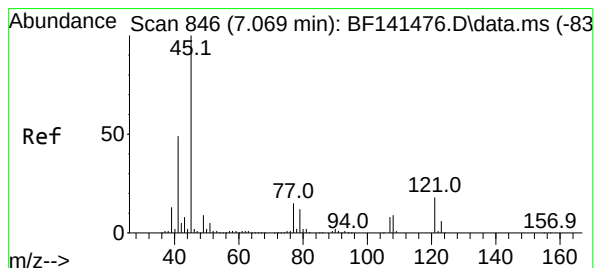
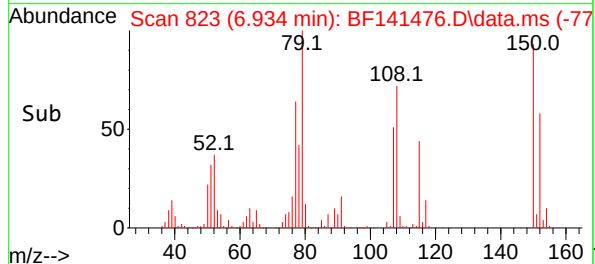
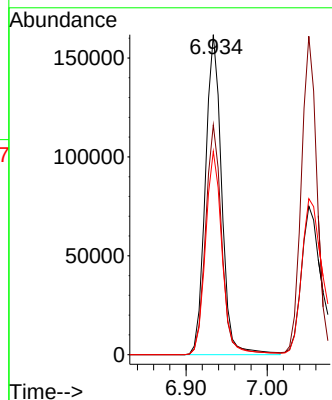
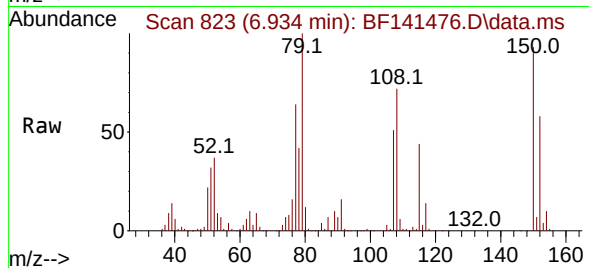




#15
Benzyl Alcohol
Concen: 40.841 ng
RT: 6.934 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

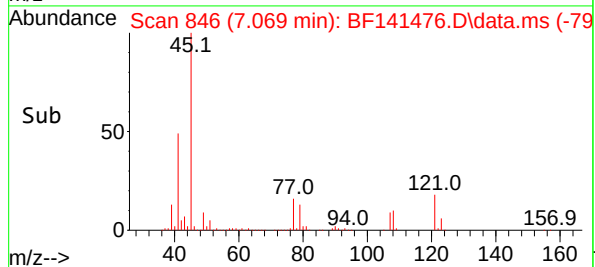
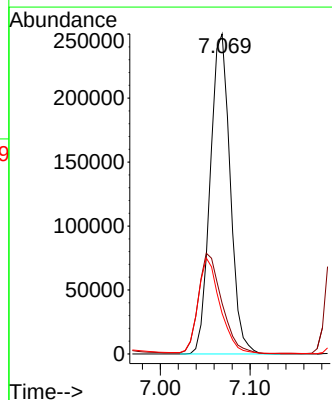
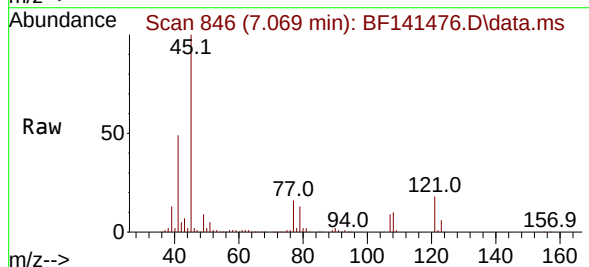
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

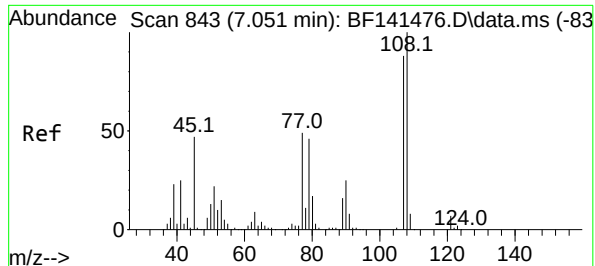
Tgt Ion: 79 Resp: 224961
Ion Ratio Lower Upper
79 100
108 71.8 57.4 86.2
77 63.6 50.9 76.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.130 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 45 Resp: 385739
Ion Ratio Lower Upper
45 100
77 15.8 0.0 35.8
79 12.7 0.0 32.7

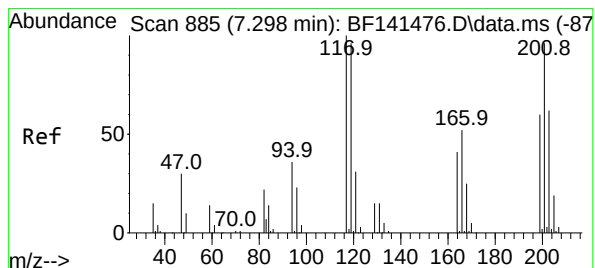
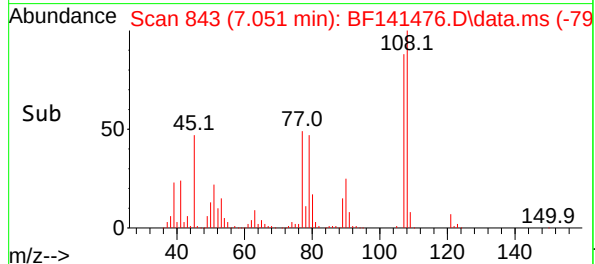
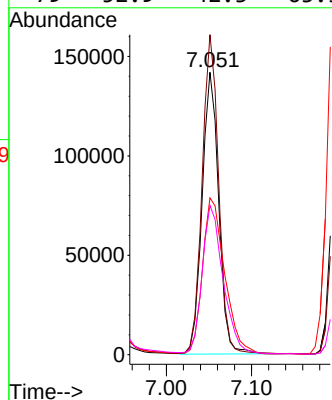
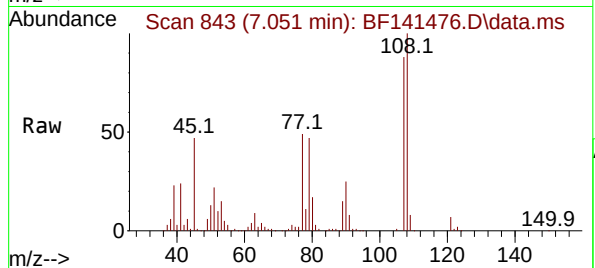




#17
2-Methylphenol
Concen: 39.951 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

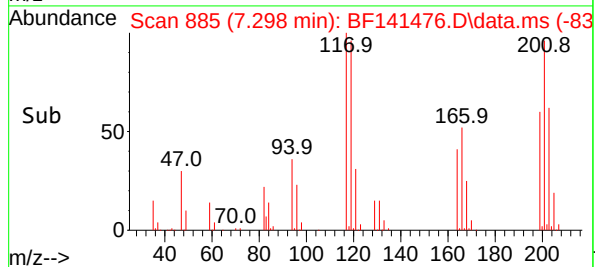
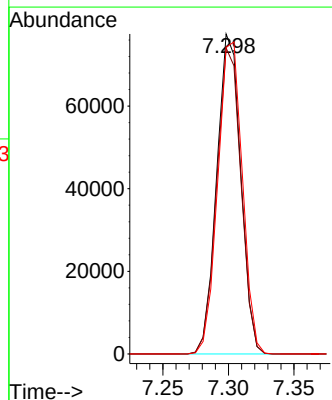
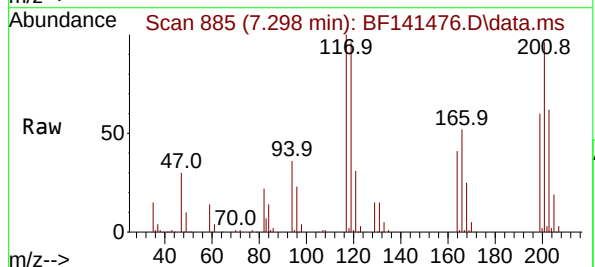
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

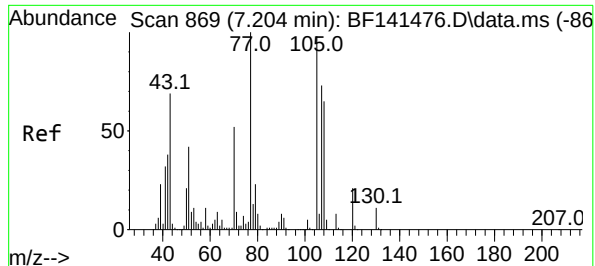
Tgt Ion:107 Resp: 191970
Ion Ratio Lower Upper
107 100
108 113.3 90.6 136.0
77 55.5 44.4 66.6
79 52.9 42.3 63.5



#18
Hexachloroethane
Concen: 40.215 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:117 Resp: 98581
Ion Ratio Lower Upper
117 100
119 95.6 76.5 114.7
201 95.9 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 40.198 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

Tgt Ion: 70 Resp: 172712

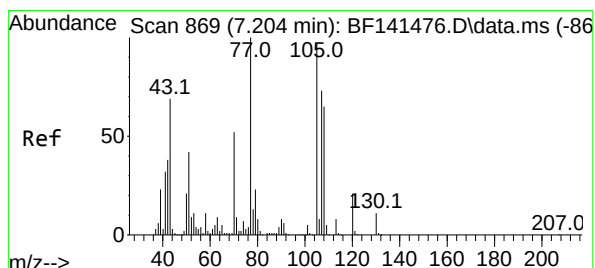
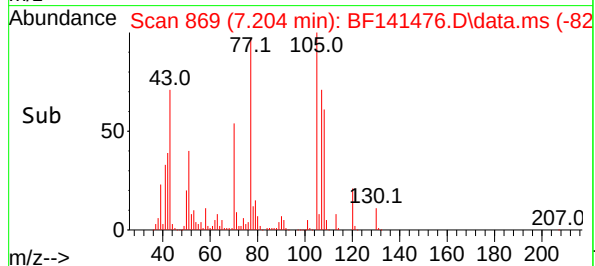
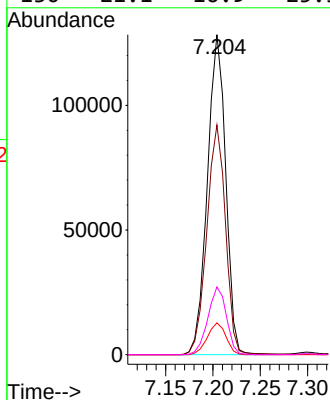
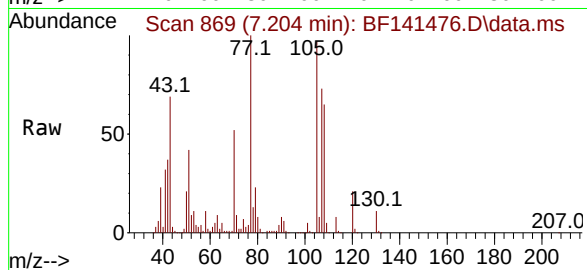
Ion Ratio Lower Upper

70 100

42 71.8 57.4 86.2

101 10.0 8.0 12.0

130 21.1 16.9 25.3



#20

3+4-Methylphenols

Concen: 40.024 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Tgt Ion:107 Resp: 244439

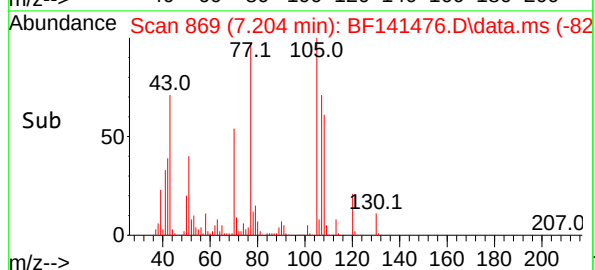
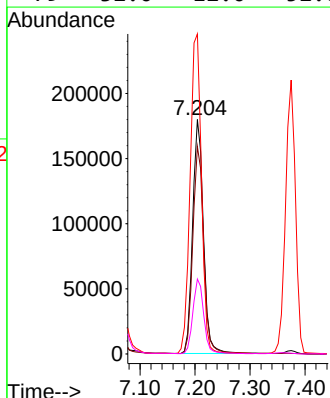
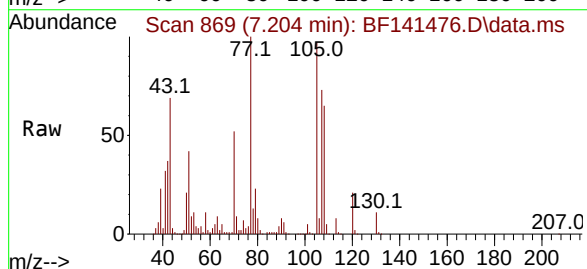
Ion Ratio Lower Upper

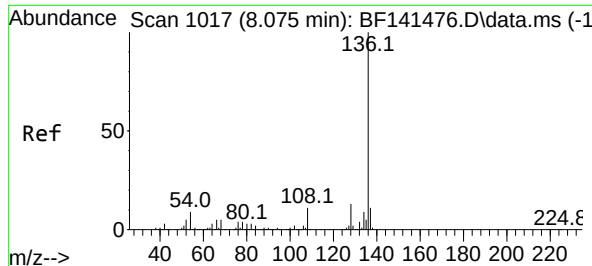
107 100

108 88.5 68.5 108.5

77 136.5 116.5 156.5

79 32.0 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1017

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

Tgt Ion:136 Resp: 351555

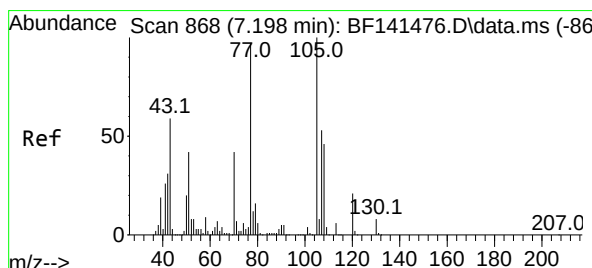
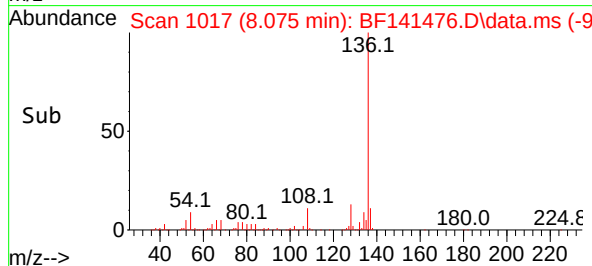
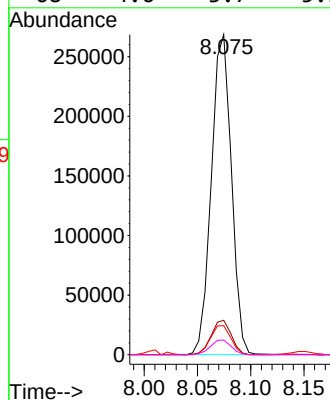
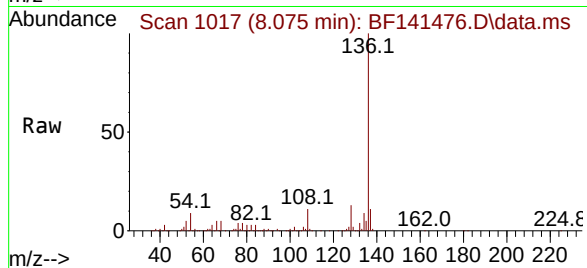
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 9.0 7.2 10.8

68 4.6 3.7 5.5



#22

Acetophenone

Concen: 39.649 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Tgt Ion:105 Resp: 346731

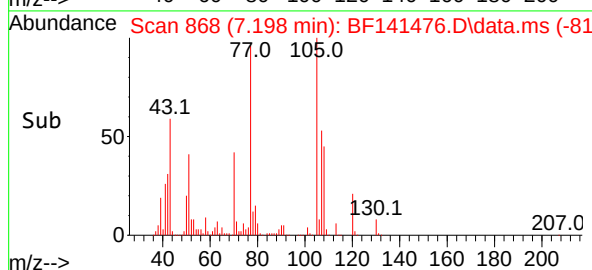
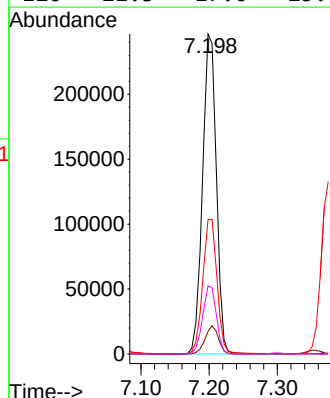
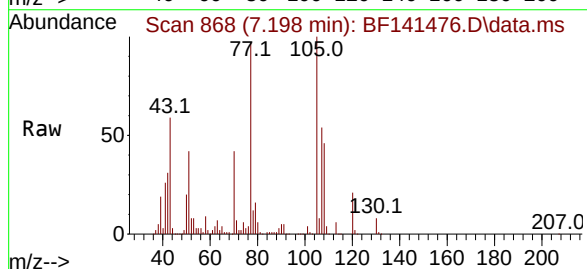
Ion Ratio Lower Upper

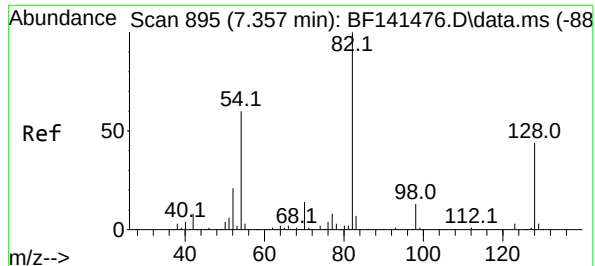
105 100

71 7.1 5.7 8.5

51 42.1 33.7 50.5

120 21.3 17.0 25.6





#23

Nitrobenzene-d5

Concen: 80.234 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

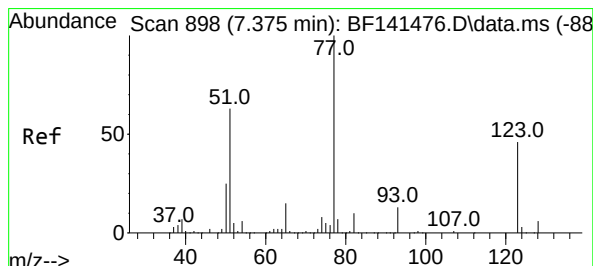
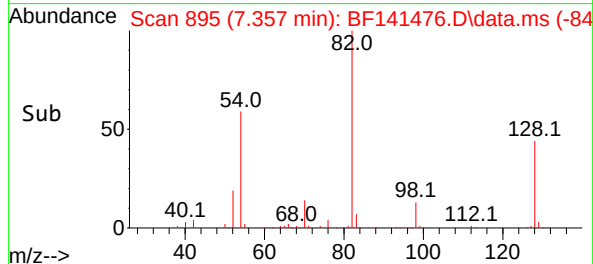
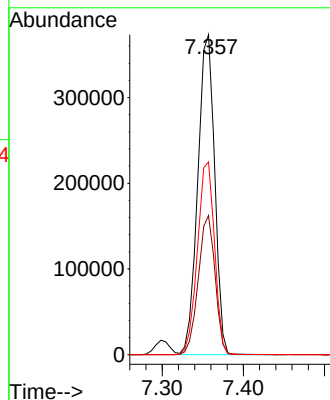
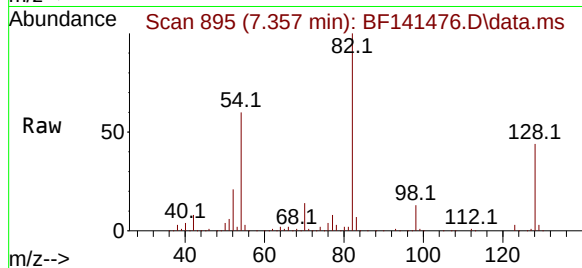
Tgt Ion: 82 Resp: 540793

Ion Ratio Lower Upper

82 100

128 43.5 34.8 52.2

54 60.3 48.2 72.4



#24

Nitrobenzene

Concen: 40.044 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

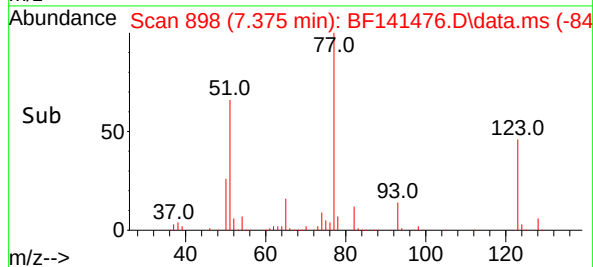
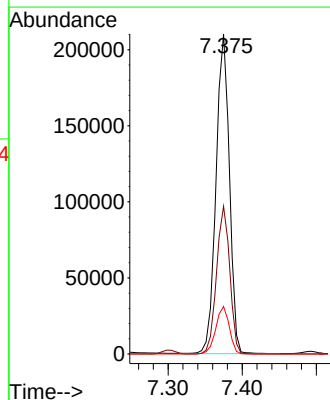
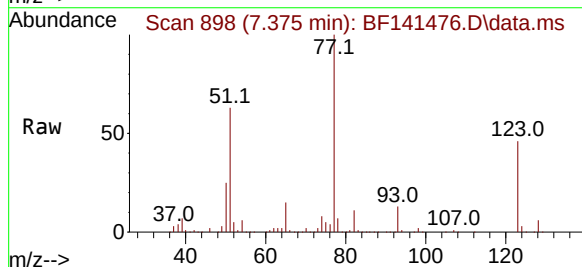
Tgt Ion: 77 Resp: 263188

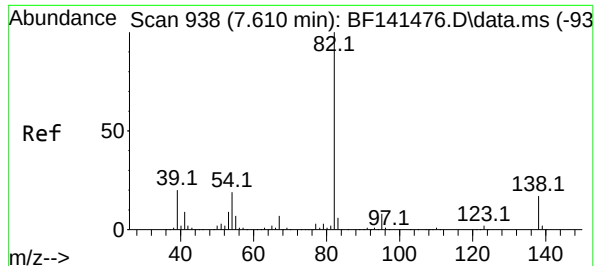
Ion Ratio Lower Upper

77 100

123 46.1 36.9 55.3

65 14.9 11.9 17.9

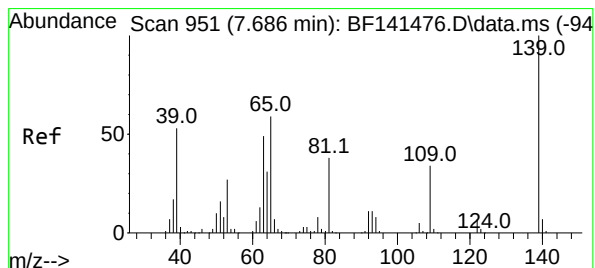
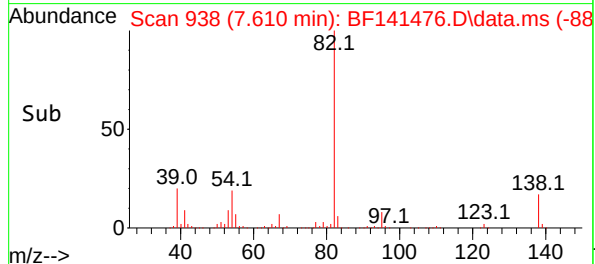
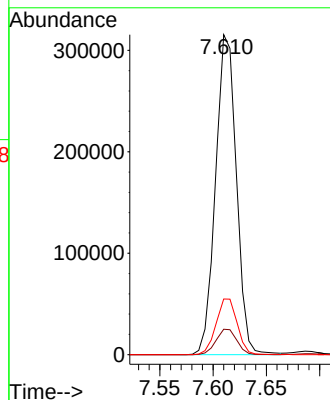
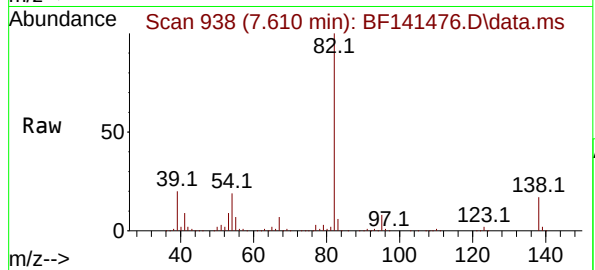




#25
Isophorone
Concen: 39.948 ng
RT: 7.610 min Scan# 910
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

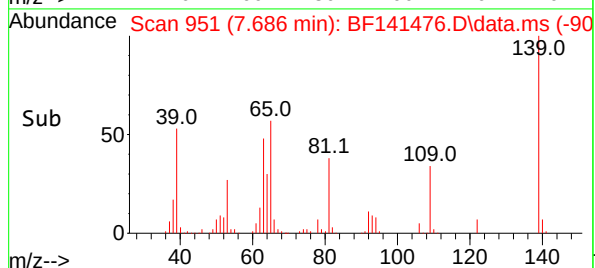
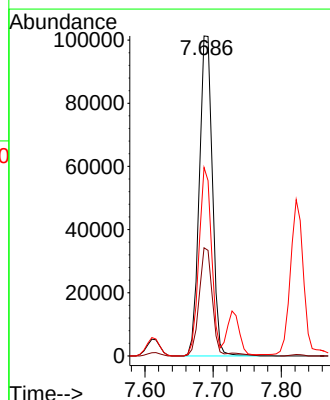
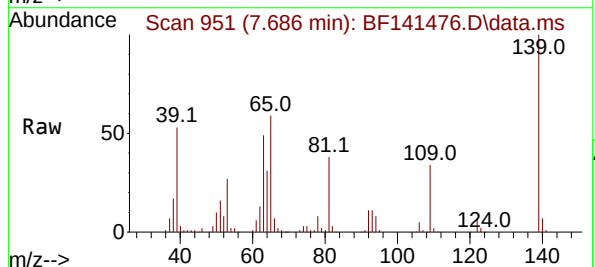
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

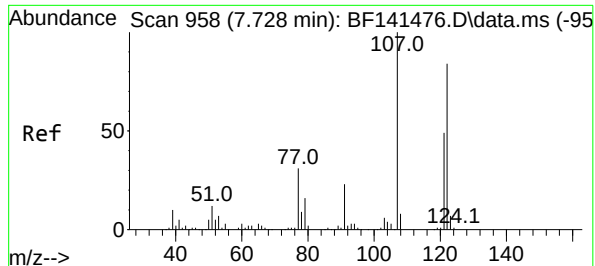
Tgt Ion: 82 Resp: 429323
Ion Ratio Lower Upper
82 100
95 8.0 6.4 9.6
138 17.4 13.9 20.9



#26
2-Nitrophenol
Concen: 41.394 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 139 Resp: 135355
Ion Ratio Lower Upper
139 100
109 33.8 27.0 40.6
65 58.9 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 41.012 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

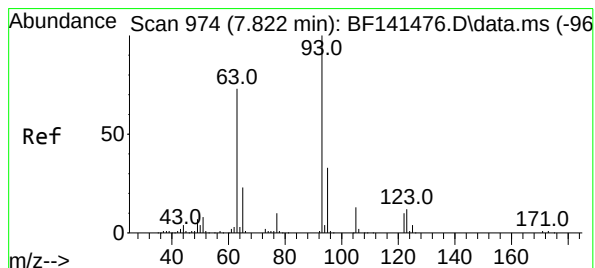
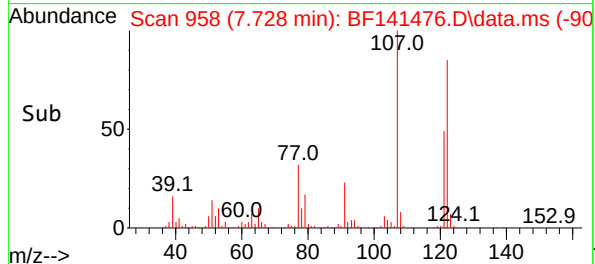
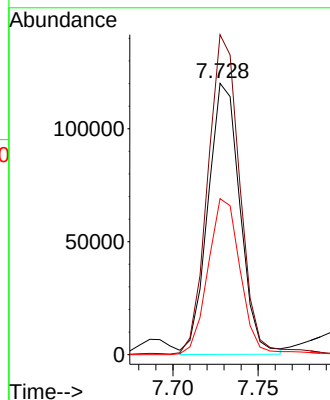
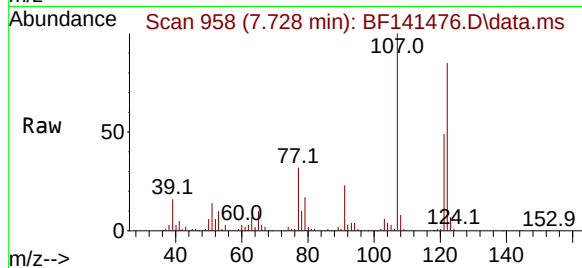
Tgt Ion:122 Resp: 156665

Ion Ratio Lower Upper

122 100

107 117.9 94.3 141.5

121 57.5 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 40.185 ng

RT: 7.822 min Scan# 974

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

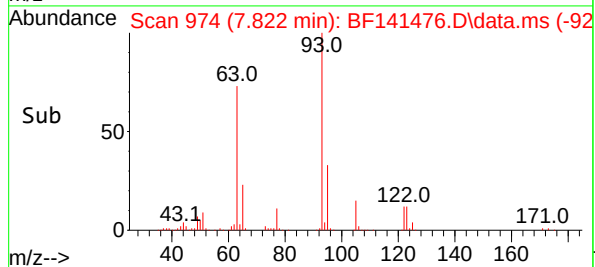
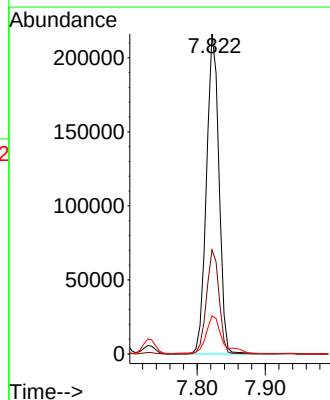
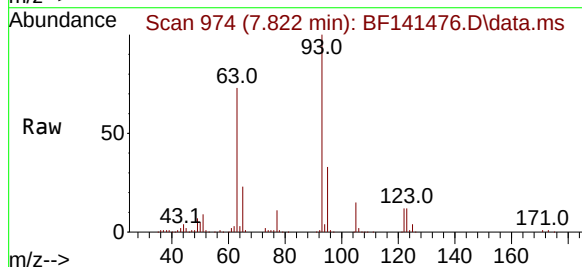
Tgt Ion: 93 Resp: 276730

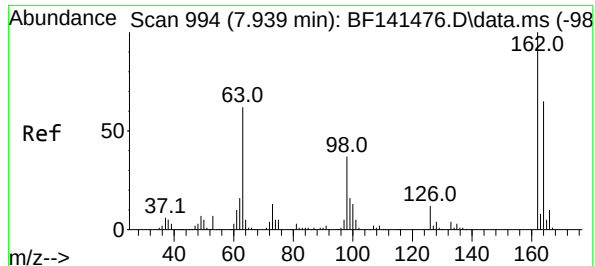
Ion Ratio Lower Upper

93 100

95 32.6 26.1 39.1

123 11.9 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 40.375 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

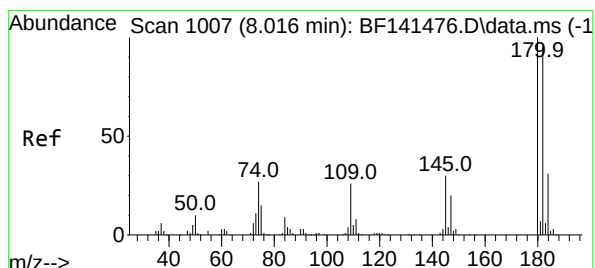
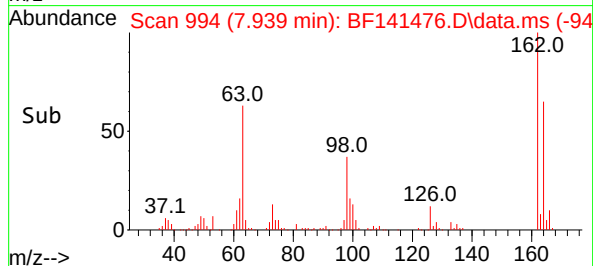
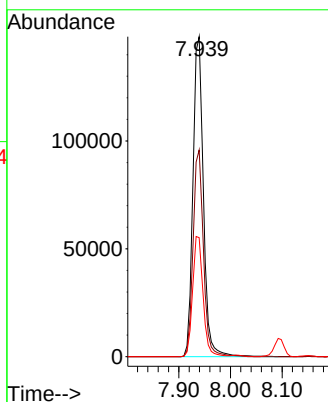
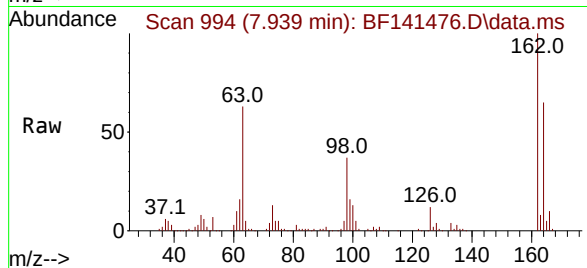
Tgt Ion:162 Resp: 208390

Ion Ratio Lower Upper

162 100

164 64.6 44.6 84.6

98 37.2 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 39.619 ng

RT: 8.016 min Scan# 1007

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

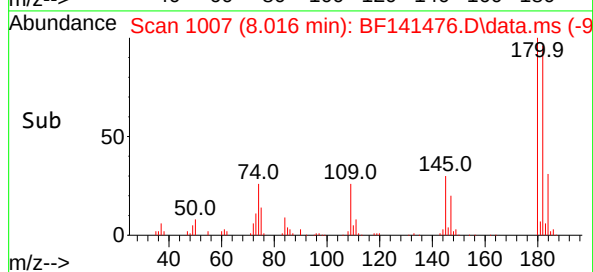
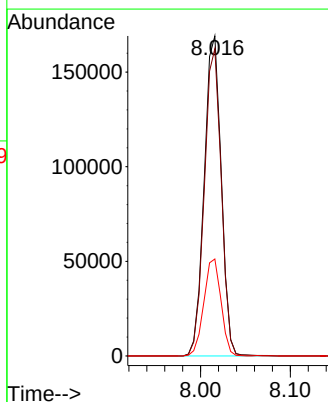
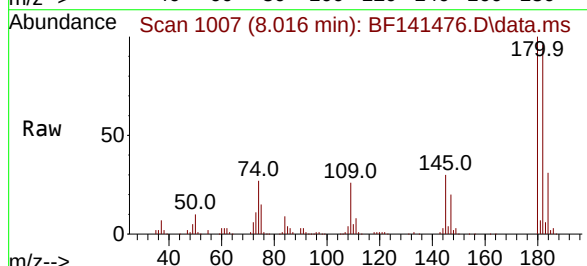
Tgt Ion:180 Resp: 222679

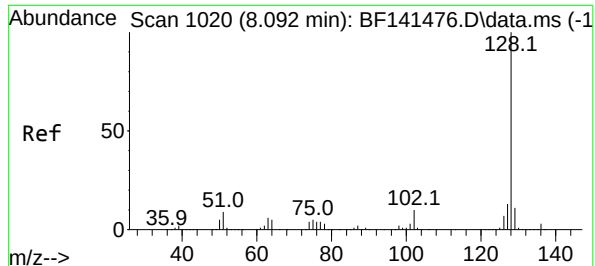
Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

145 30.3 24.2 36.4





#31

Naphthalene

Concen: 39.856 ng

RT: 8.092 min Scan# 10

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

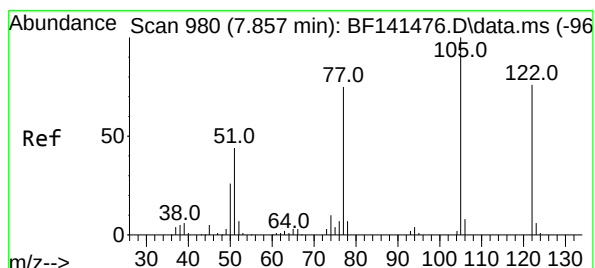
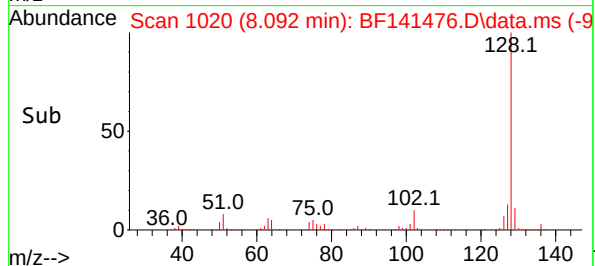
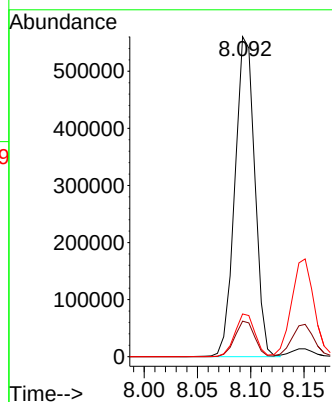
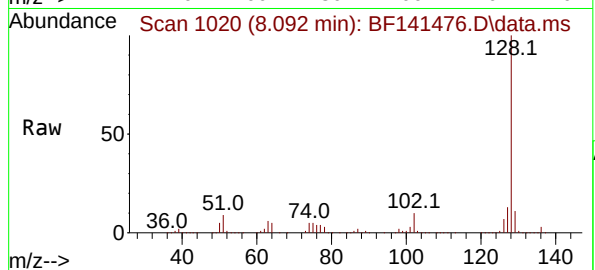
Tgt Ion:128 Resp: 729358

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.4 10.7 16.1



#32

Benzoic acid

Concen: 40.625 ng

RT: 7.857 min Scan# 980

Delta R.T. -0.035 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

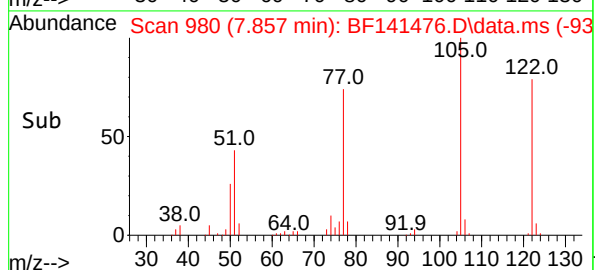
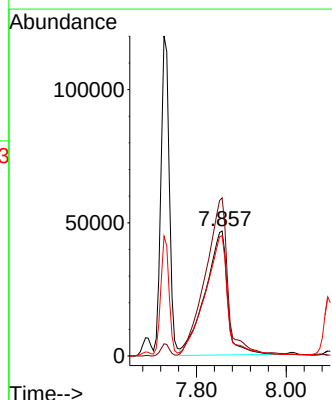
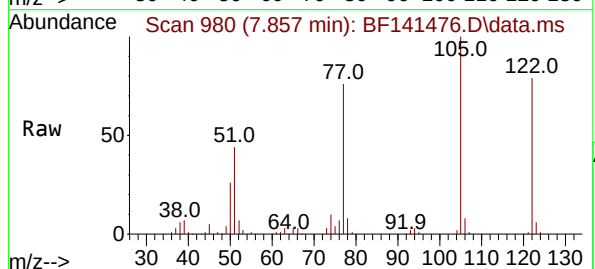
Tgt Ion:122 Resp: 161196

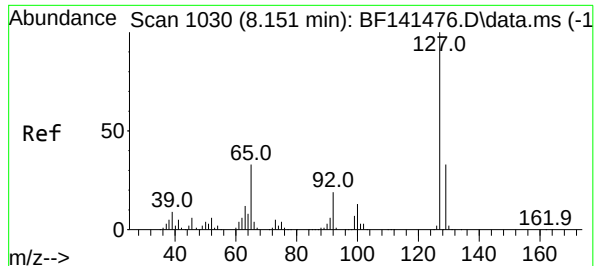
Ion Ratio Lower Upper

122 100

105 126.5 106.5 146.5

77 96.3 76.3 116.3





#33

4-Chloroaniline

Concen: 40.029 ng

RT: 8.151 min Scan# 1030

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

Tgt Ion:127 Resp: 255749

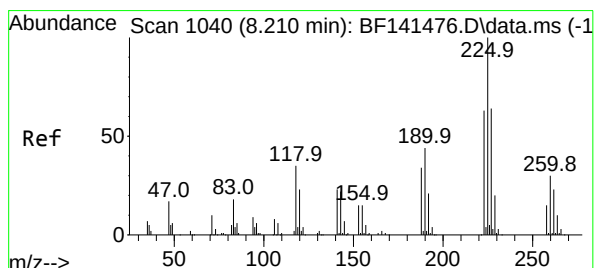
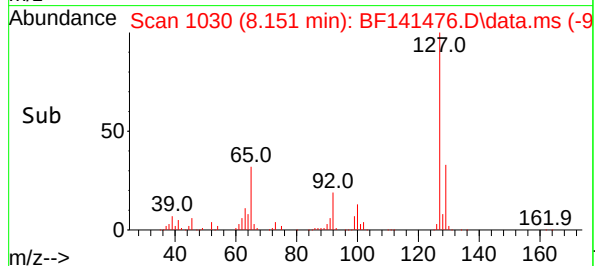
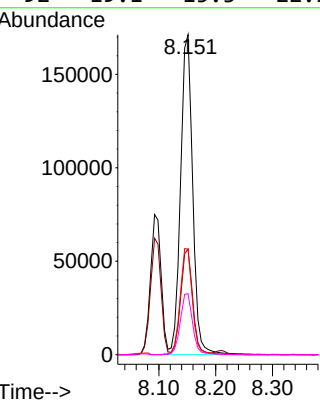
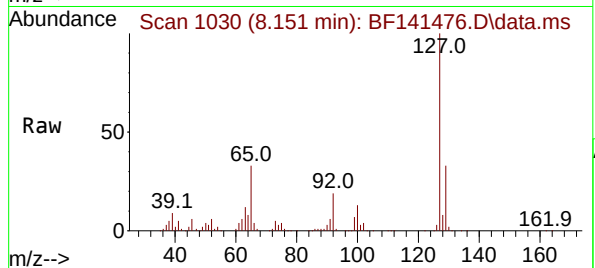
Ion Ratio Lower Upper

127 100

129 33.1 26.5 39.7

65 33.0 26.4 39.6

92 19.1 15.3 22.9



#34

Hexachlorobutadiene

Concen: 40.051 ng

RT: 8.210 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

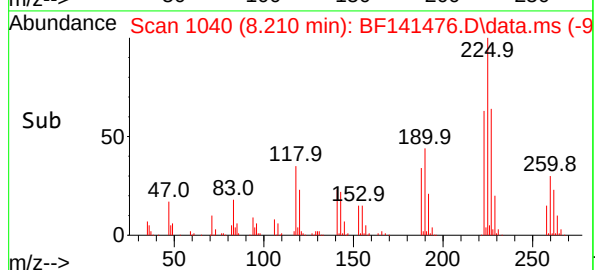
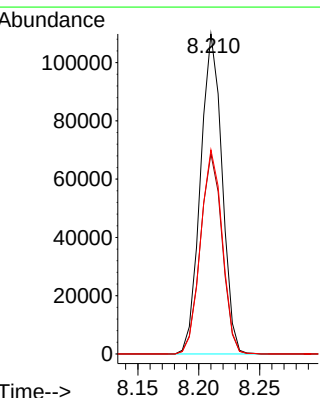
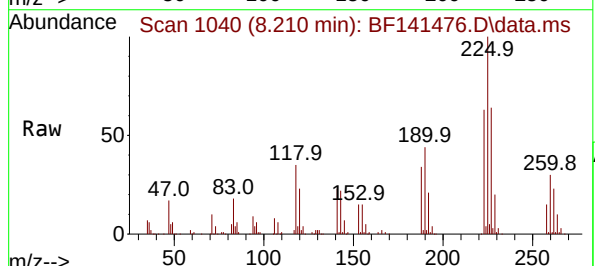
Tgt Ion:225 Resp: 135140

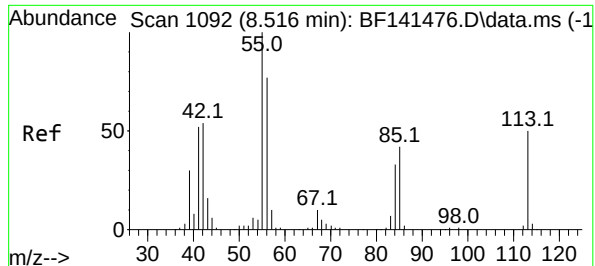
Ion Ratio Lower Upper

225 100

223 62.6 50.1 75.1

227 63.8 51.0 76.6





#35

Caprolactam

Concen: 41.461 ng

RT: 8.516 min Scan# 1092

Delta R.T. -0.029 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

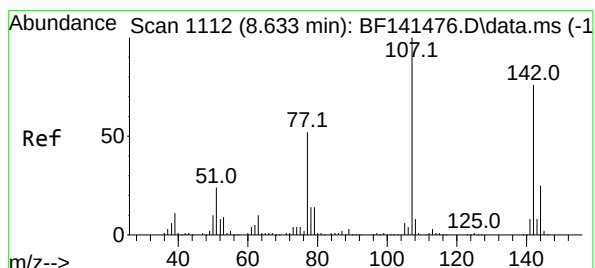
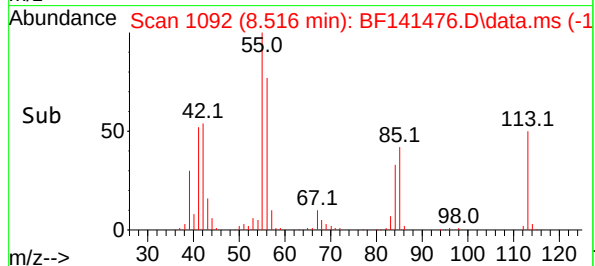
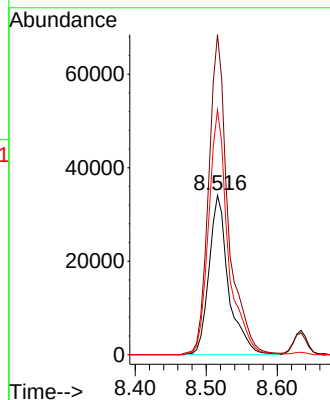
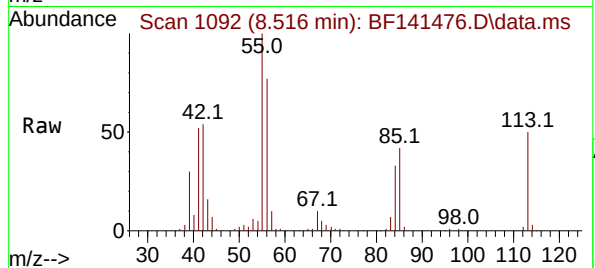
Tgt Ion:113 Resp: 65155

Ion Ratio Lower Upper

113 100

55 200.8 180.8 220.8

56 153.6 133.6 173.6



#36

4-Chloro-3-methylphenol

Concen: 40.464 ng

RT: 8.633 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

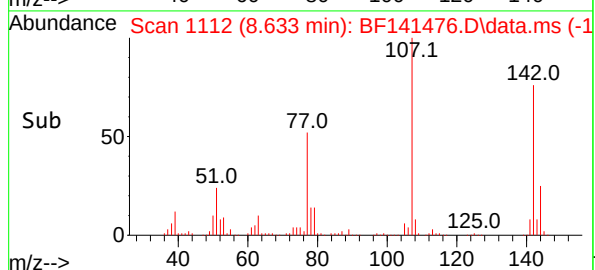
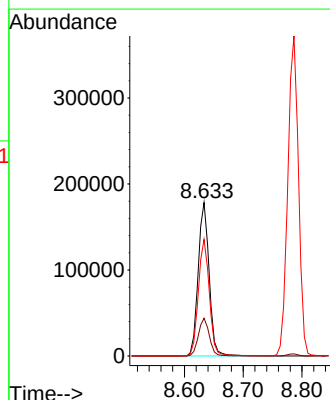
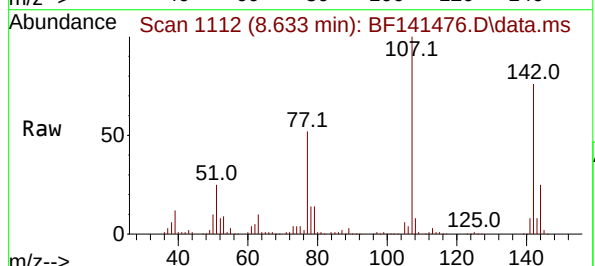
Tgt Ion:107 Resp: 231344

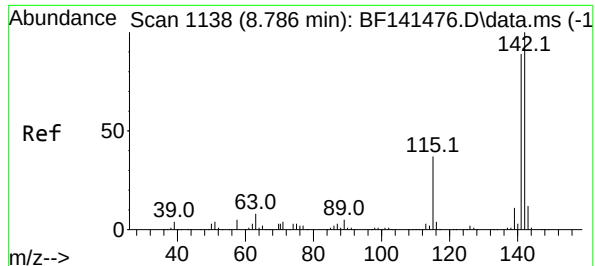
Ion Ratio Lower Upper

107 100

144 24.6 19.7 29.5

142 76.0 60.8 91.2





#37

2-Methylnaphthalene

Concen: 39.496 ng

RT: 8.786 min Scan# 1138

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

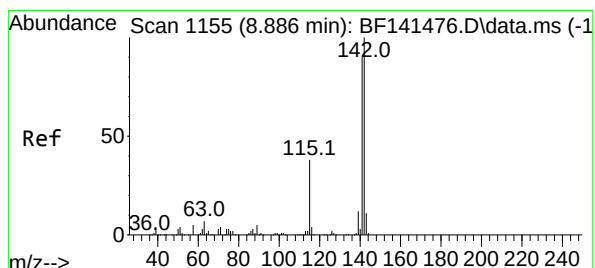
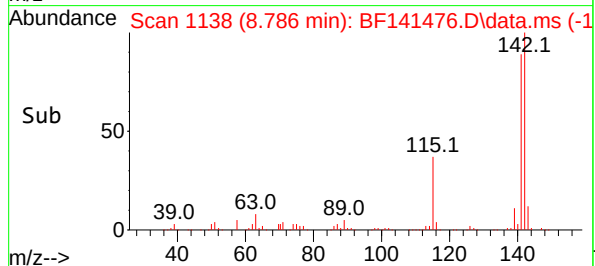
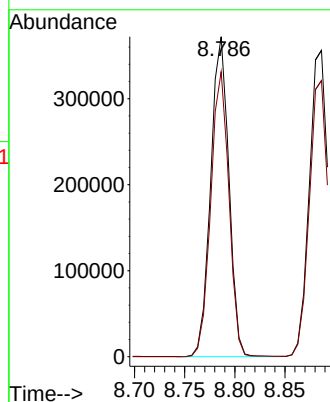
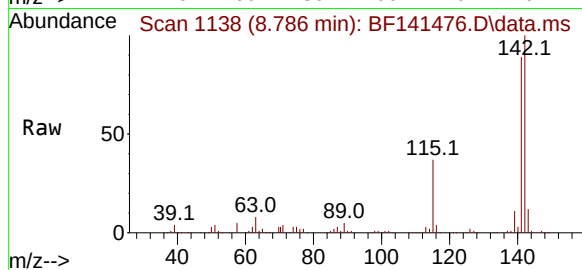
SSTDICCC040

Tgt Ion:142 Resp: 470332

Ion Ratio Lower Upper

142 100

141 89.0 71.2 106.8



#38

1-Methylnaphthalene

Concen: 39.987 ng

RT: 8.886 min Scan# 1155

Delta R.T. 0.000 min

Lab File: BF141476.D

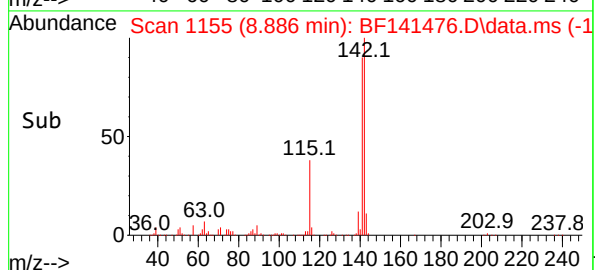
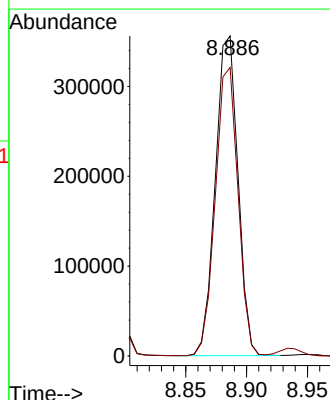
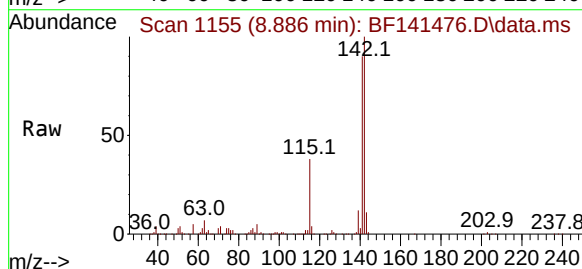
Acq: 06 Feb 2025 12:55

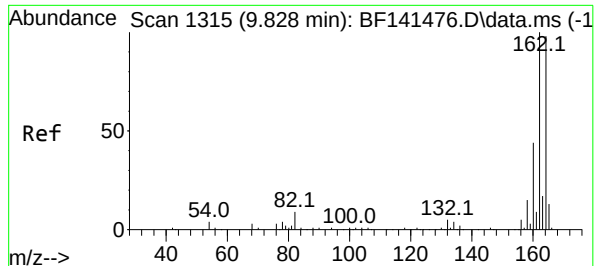
Tgt Ion:142 Resp: 461189

Ion Ratio Lower Upper

142 100

141 90.1 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 11315

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

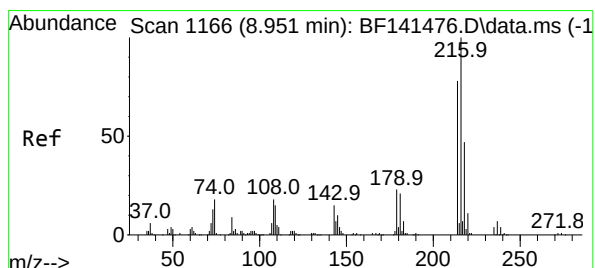
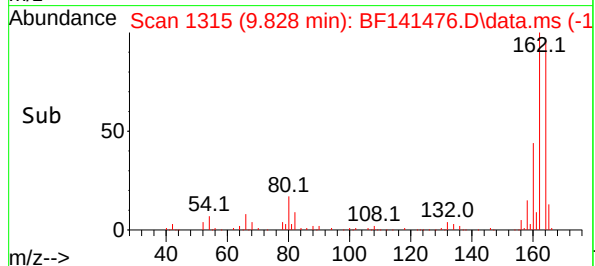
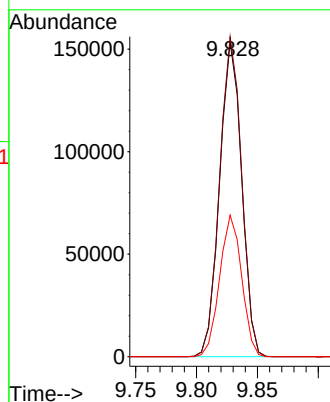
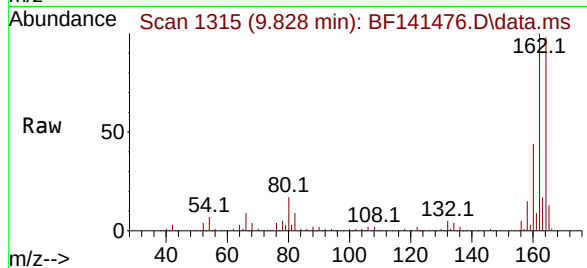
Tgt Ion:164 Resp: 193385

Ion Ratio Lower Upper

164 100

162 101.6 81.3 121.9

160 44.9 35.9 53.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 40.383 ng

RT: 8.951 min Scan# 1166

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Tgt Ion:216 Resp: 225938

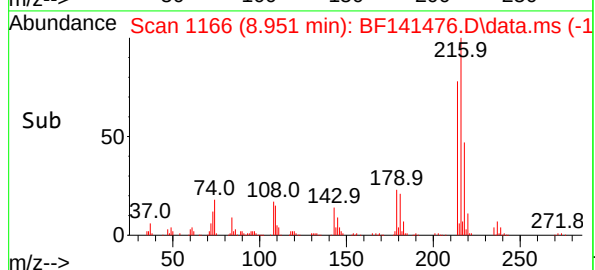
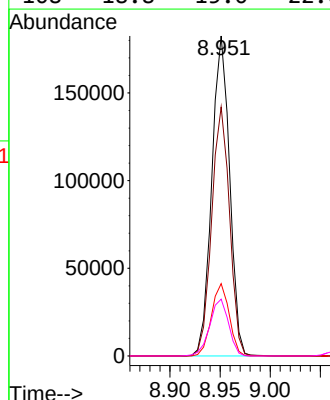
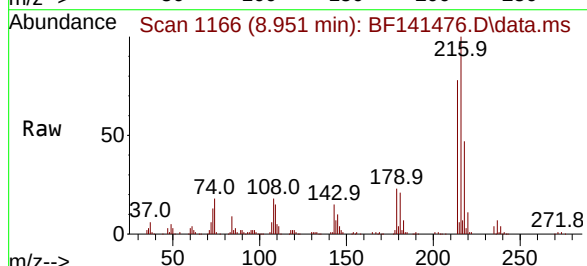
Ion Ratio Lower Upper

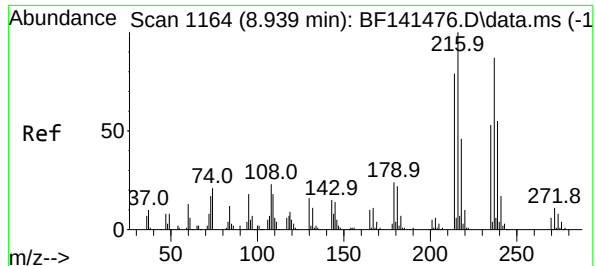
216 100

214 77.9 62.3 93.5

179 22.5 18.0 27.0

108 18.8 15.0 22.6

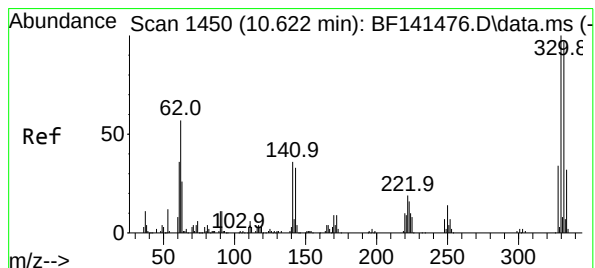
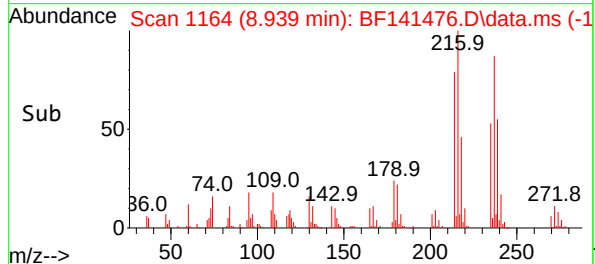
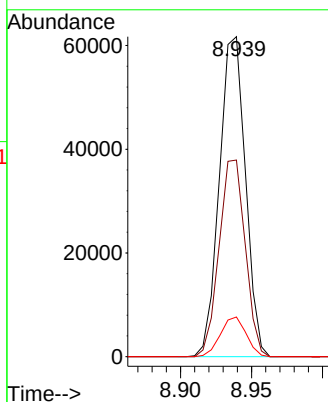
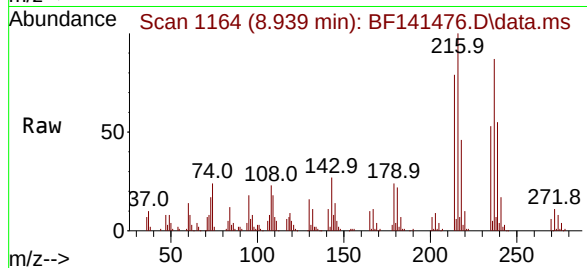




#41
Hexachlorocyclopentadiene
Concen: 42.325 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

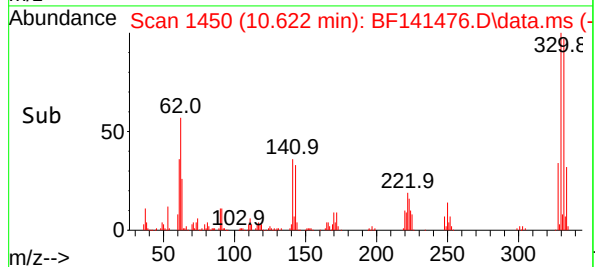
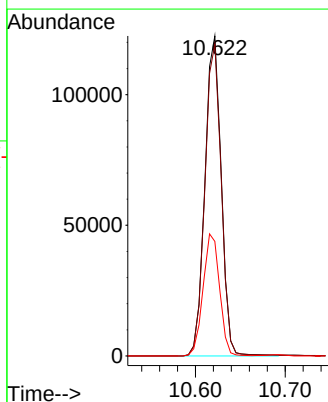
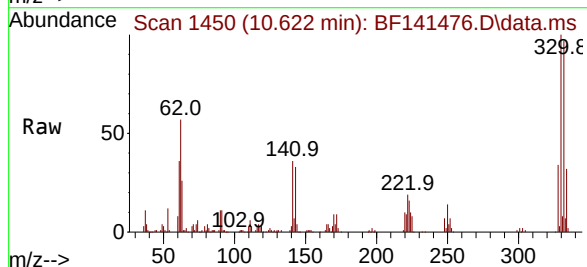
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

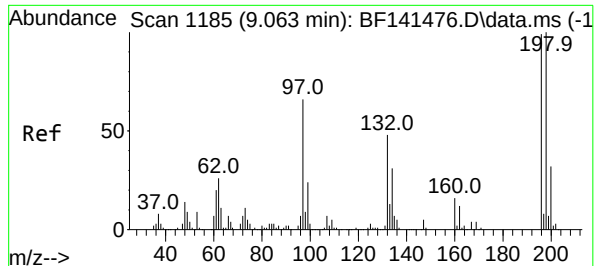
Tgt Ion:237 Resp: 78762
Ion Ratio Lower Upper
237 100
235 61.4 41.4 81.4
272 12.4 0.0 32.4



#42
2,4,6-Tribromophenol
Concen: 79.647 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:330 Resp: 154725
Ion Ratio Lower Upper
330 100
332 98.1 78.5 117.7
141 38.7 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 40.288 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

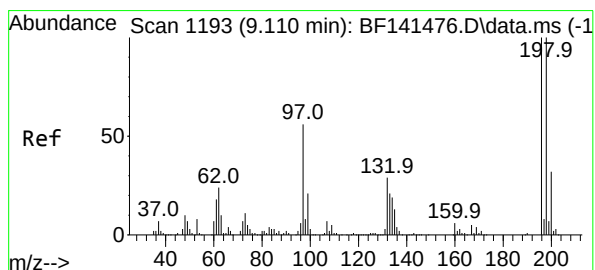
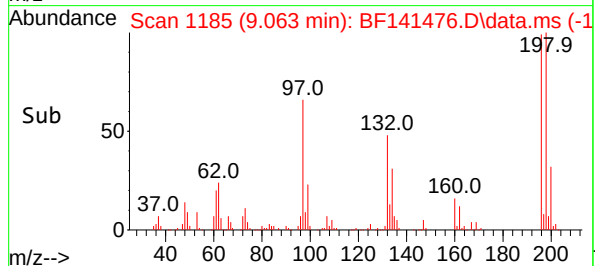
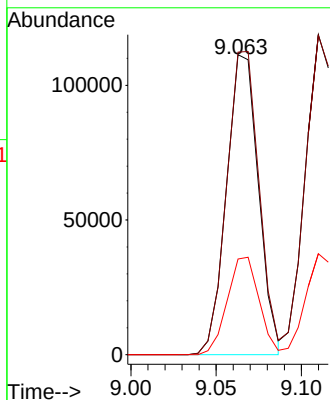
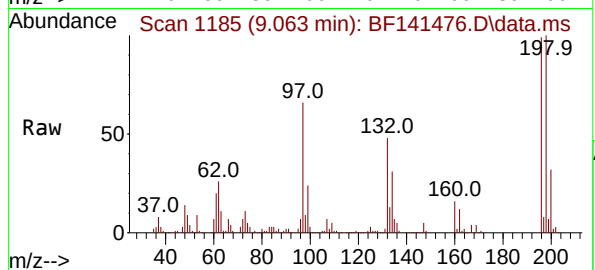
Tgt Ion:196 Resp: 145682

Ion Ratio Lower Upper

196 100

198 100.8 80.6 121.0

200 31.9 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 40.492 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Tgt Ion:196 Resp: 158685

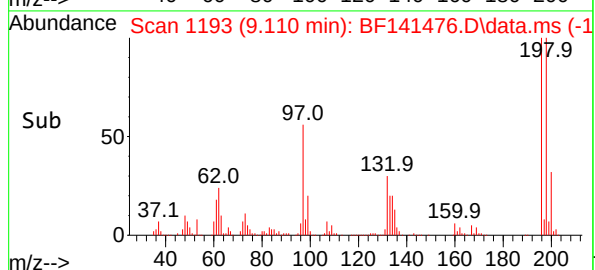
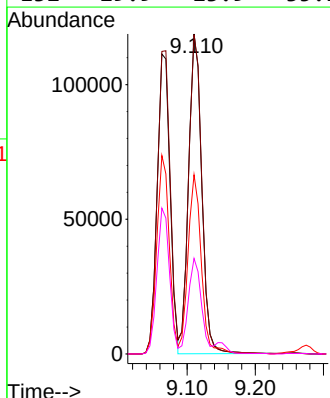
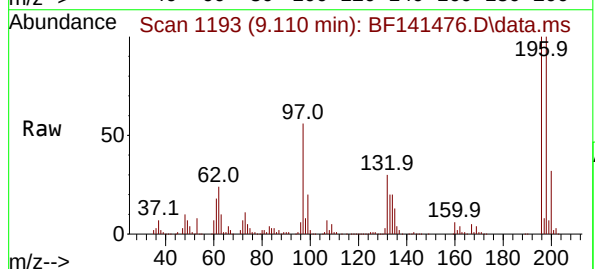
Ion Ratio Lower Upper

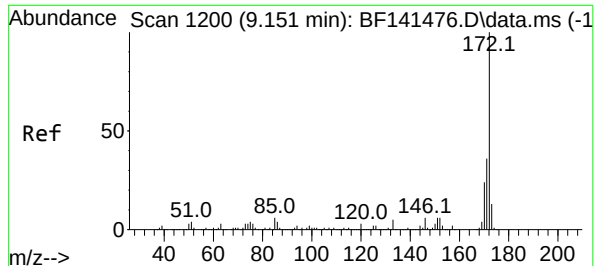
196 100

198 99.8 79.8 119.8

97 56.0 44.8 67.2

132 29.9 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 78.189 ng

RT: 9.151 min Scan# 1200

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

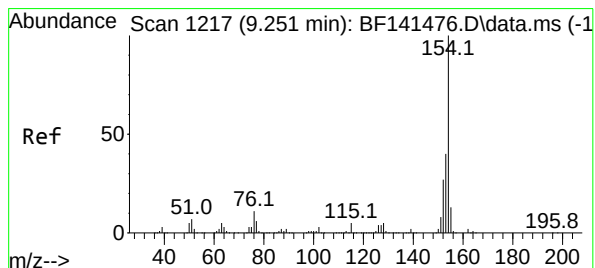
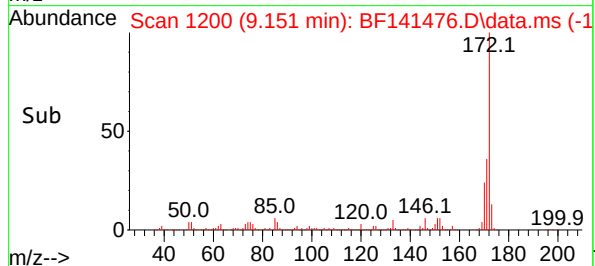
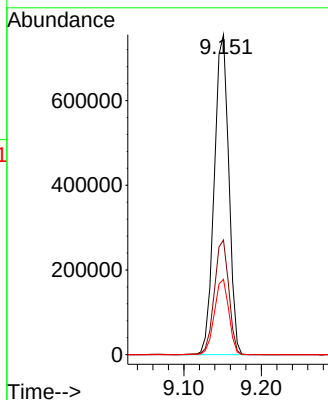
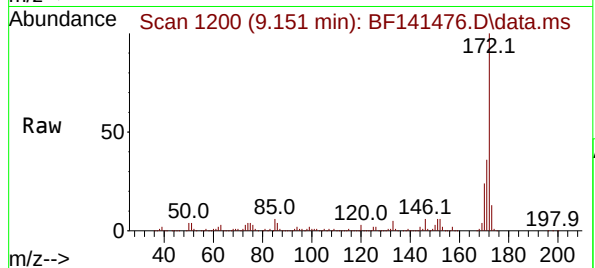
Tgt Ion:172 Resp: 981440

Ion Ratio Lower Upper

172 100

171 35.9 28.7 43.1

170 23.6 18.9 28.3



#46

1,1'-Biphenyl

Concen: 39.846 ng

RT: 9.251 min Scan# 1217

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

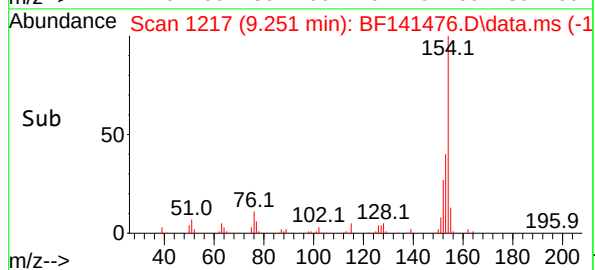
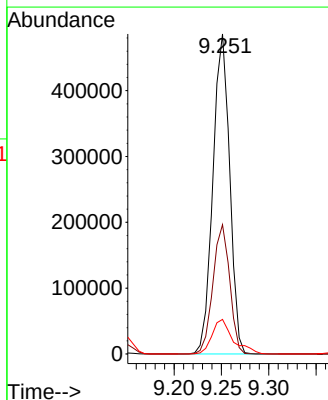
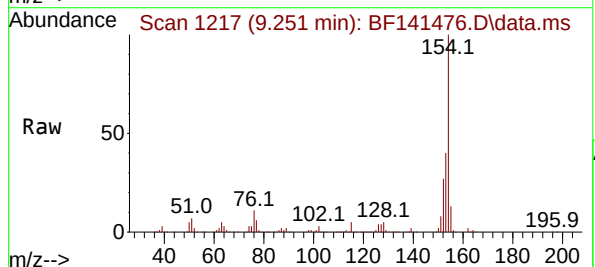
Tgt Ion:154 Resp: 597404

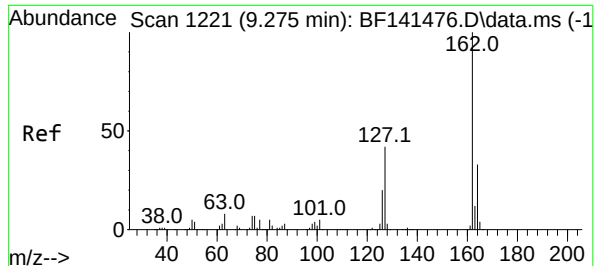
Ion Ratio Lower Upper

154 100

153 40.4 20.4 60.4

76 10.8 0.0 30.8





#47

2-Chloronaphthalene

Concen: 39.590 ng

RT: 9.275 min Scan# 1221

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

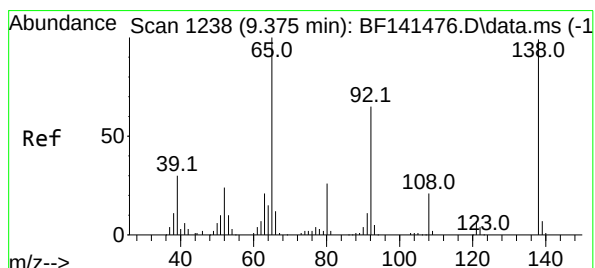
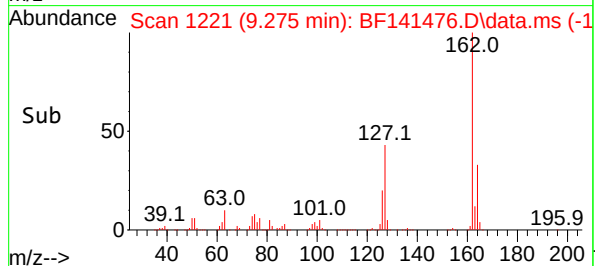
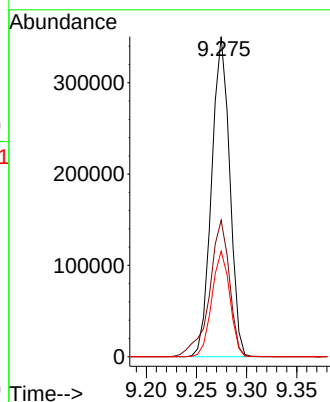
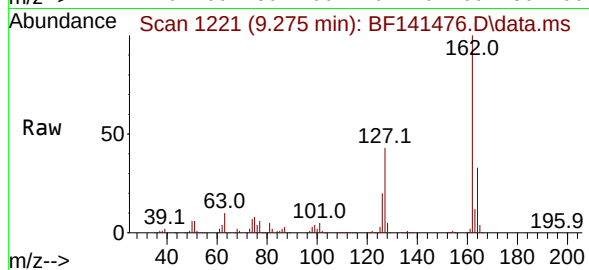
Tgt Ion:162 Resp: 438926

Ion Ratio Lower Upper

162 100

127 42.6 34.1 51.1

164 32.9 26.3 39.5



#48

2-Nitroaniline

Concen: 40.563 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

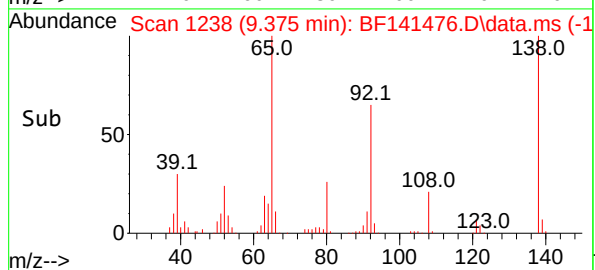
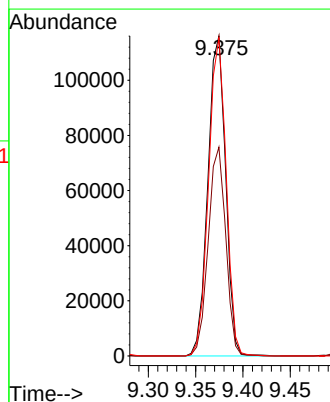
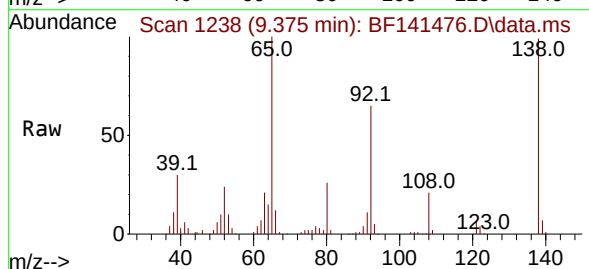
Tgt Ion: 65 Resp: 150922

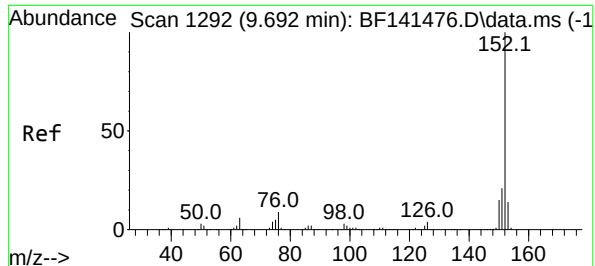
Ion Ratio Lower Upper

65 100

92 65.2 52.2 78.2

138 99.4 79.5 119.3





#49

Acenaphthylene

Concen: 39.789 ng

RT: 9.692 min Scan# 1292

Delta R.T. 0.000 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

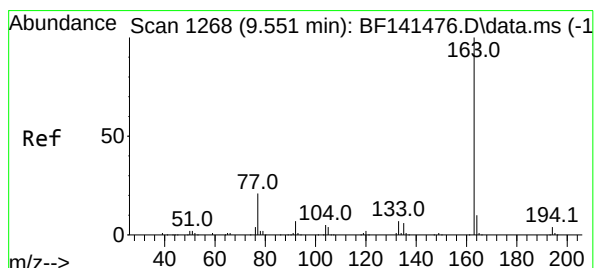
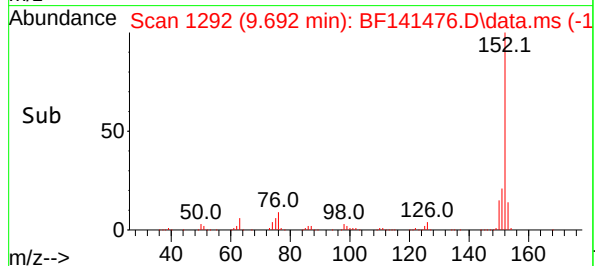
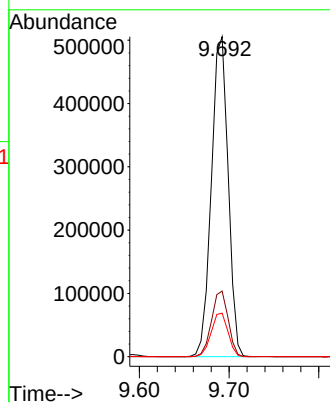
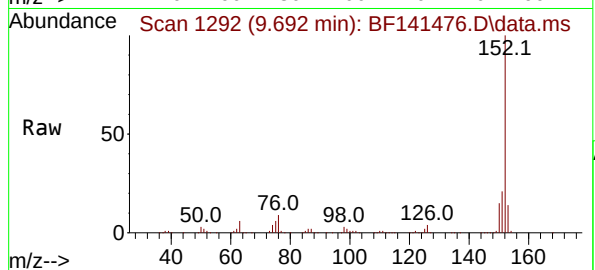
Tgt Ion:152 Resp: 656124

Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

153 13.6 10.9 16.3



#50

Dimethylphthalate

Concen: 39.638 ng

RT: 9.551 min Scan# 1268

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

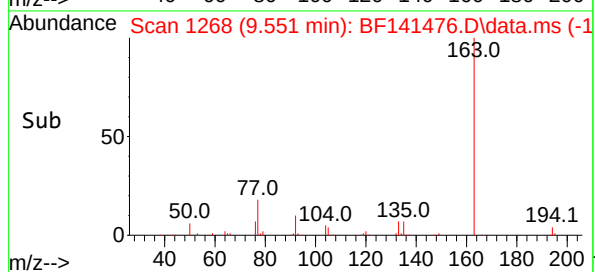
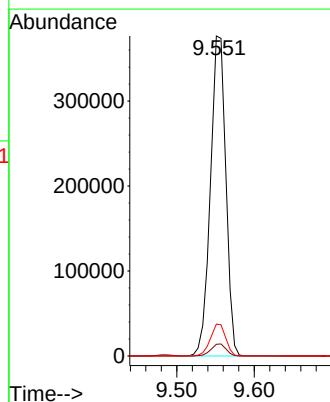
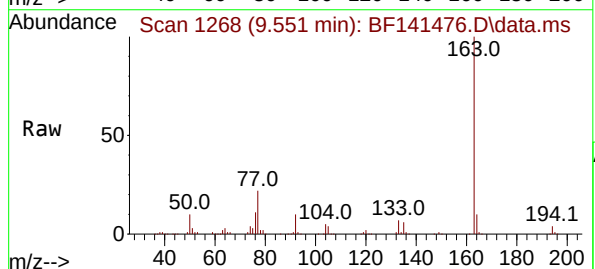
Tgt Ion:163 Resp: 520384

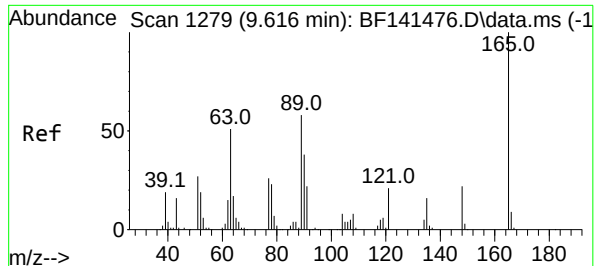
Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

164 9.9 7.9 11.9





#51

2,6-Dinitrotoluene

Concen: 40.536 ng

RT: 9.616 min Scan# 1279

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

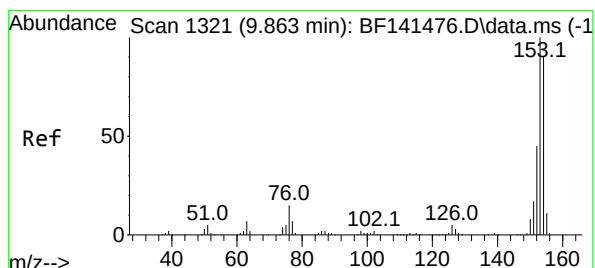
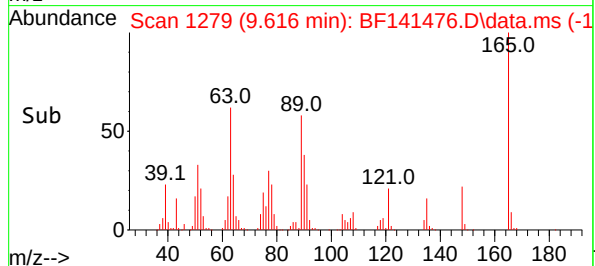
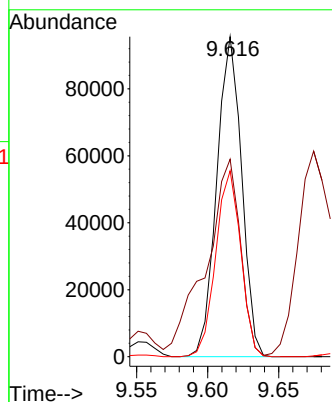
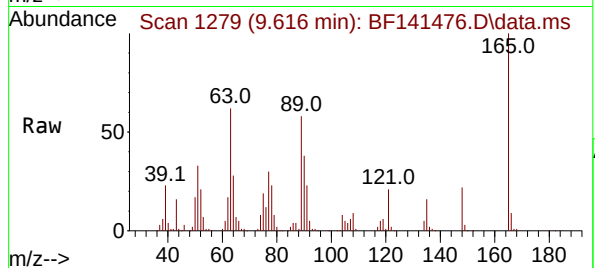
Tgt Ion:165 Resp: 116338

Ion Ratio Lower Upper

165 100

63 61.7 49.4 74.0

89 58.1 46.5 69.7



#52

Acenaphthene

Concen: 40.186 ng

RT: 9.863 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

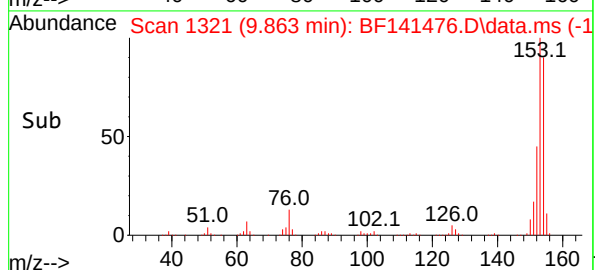
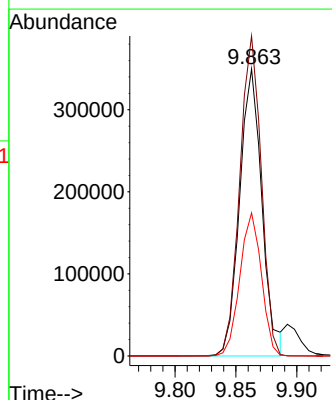
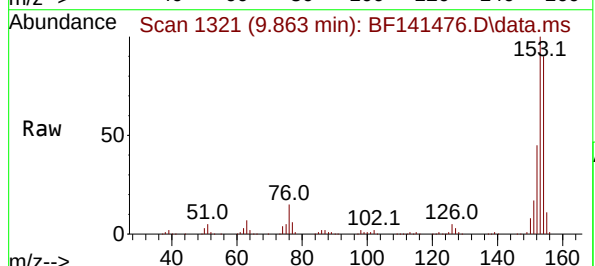
Tgt Ion:154 Resp: 445515

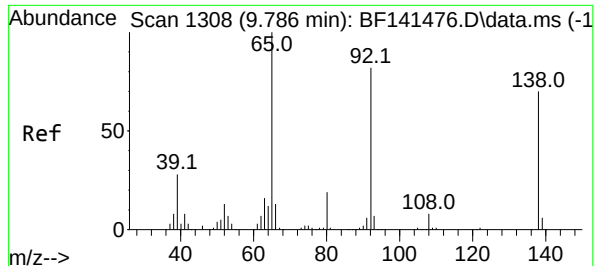
Ion Ratio Lower Upper

154 100

153 111.5 89.2 133.8

152 49.8 39.8 59.8

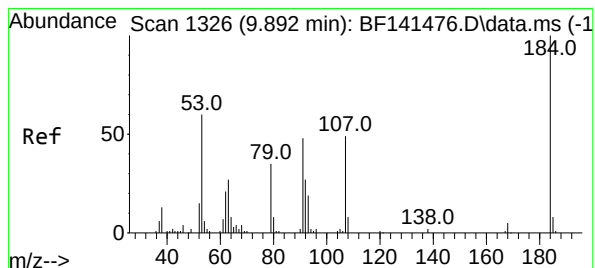
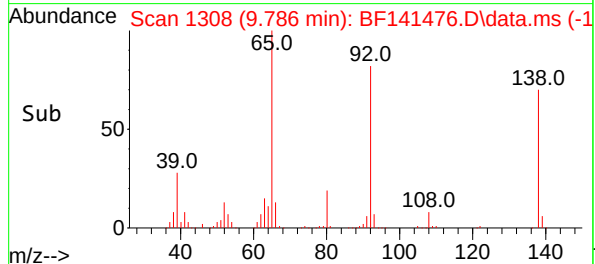
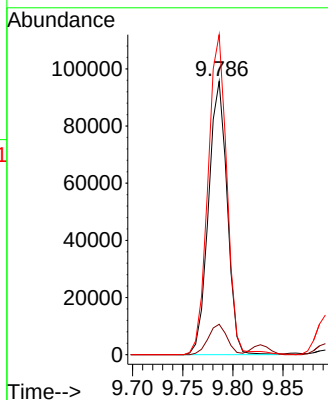
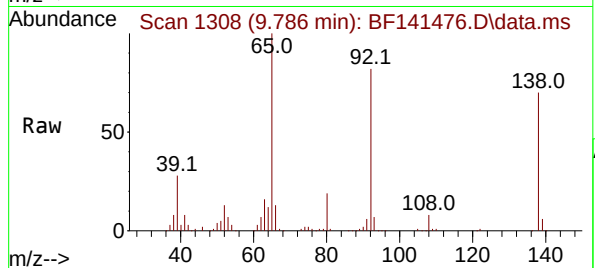




#53
3-Nitroaniline
Concen: 39.991 ng
RT: 9.786 min Scan# 1308
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

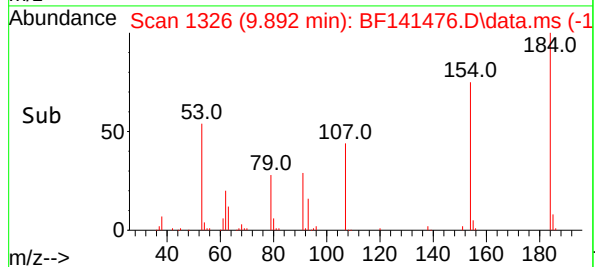
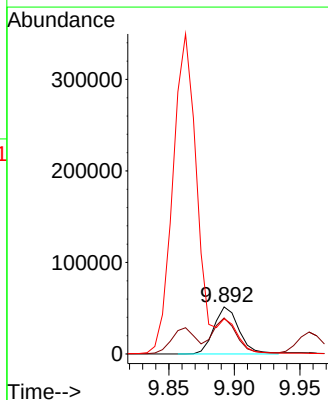
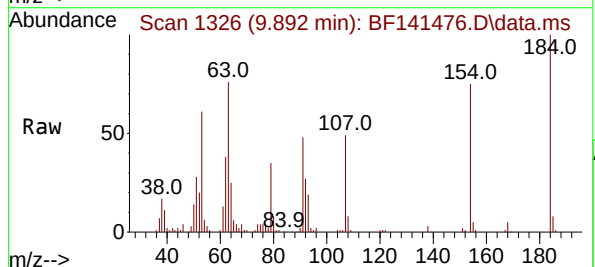
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

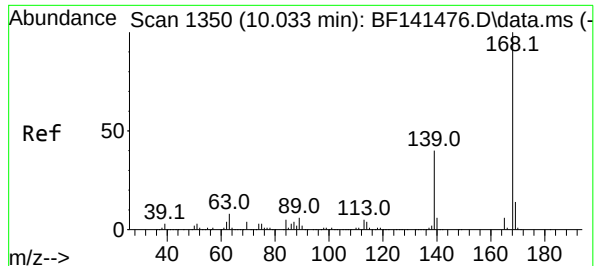
Tgt Ion:138 Resp: 123530
Ion Ratio Lower Upper
138 100
108 11.2 9.0 13.4
92 117.1 93.7 140.5



#54
2,4-Dinitrophenol
Concen: 40.153 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:184 Resp: 68489
Ion Ratio Lower Upper
184 100
63 76.3 61.0 91.6
154 74.9 59.9 89.9





#55

Dibenzenofuran

Concen: 39.775 ng

RT: 10.033 min Scan# 1350

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

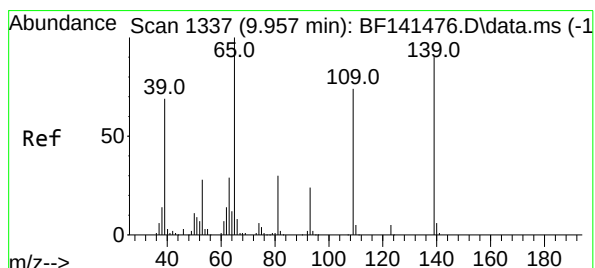
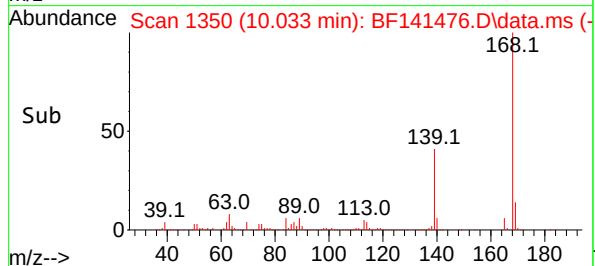
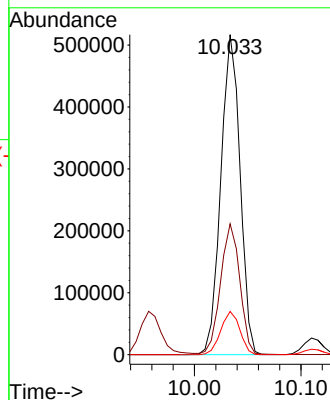
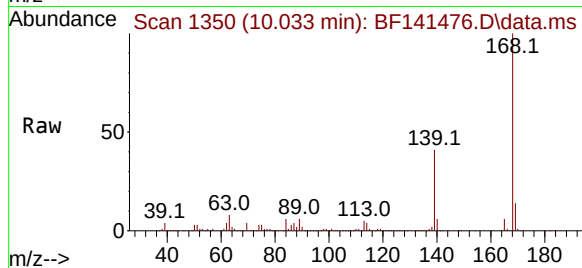
Tgt Ion:168 Resp: 647242

Ion Ratio Lower Upper

168 100

139 40.9 32.7 49.1

169 13.5 10.8 16.2



#56

4-Nitrophenol

Concen: 42.065 ng

RT: 9.957 min Scan# 1337

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

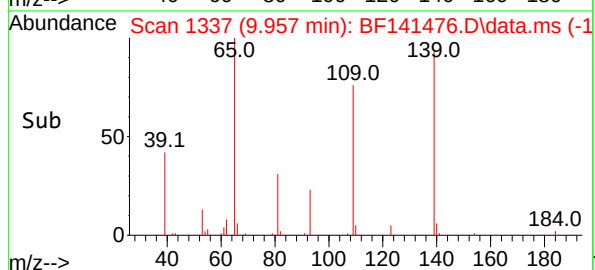
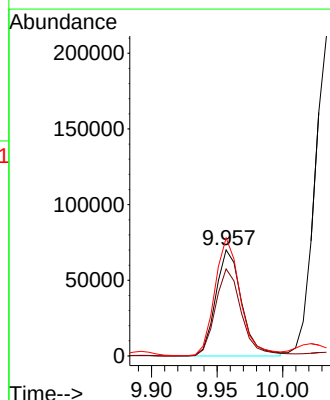
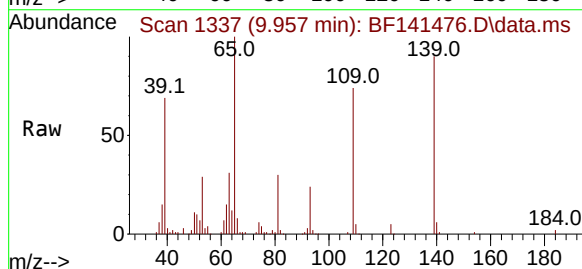
Tgt Ion:139 Resp: 96456

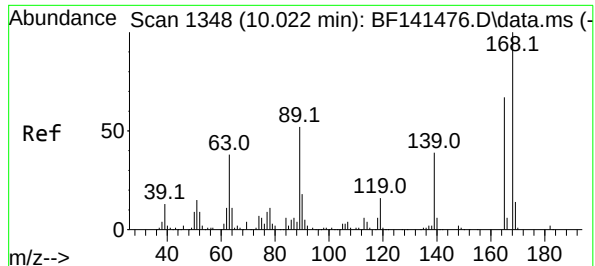
Ion Ratio Lower Upper

139 100

109 82.0 62.0 102.0

65 111.2 91.2 131.2

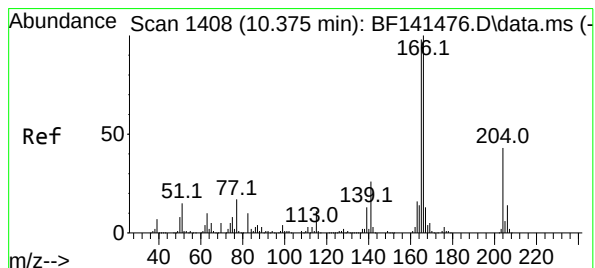
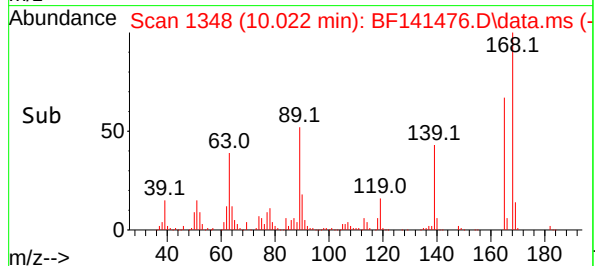
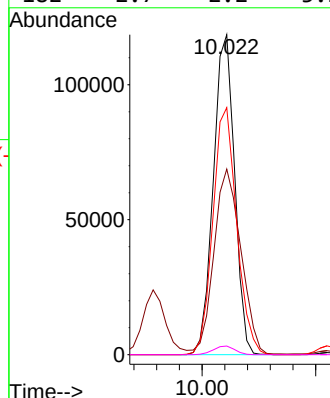
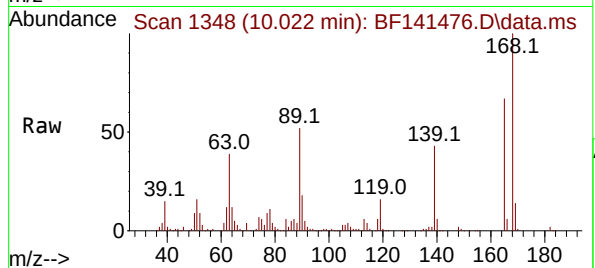




#57
2,4-Dinitrotoluene
Concen: 40.262 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

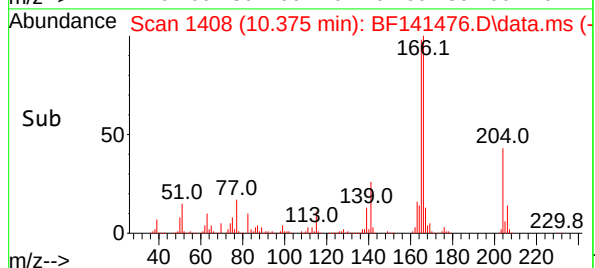
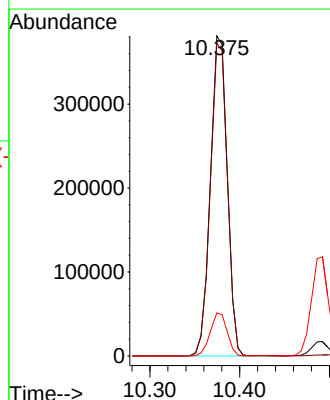
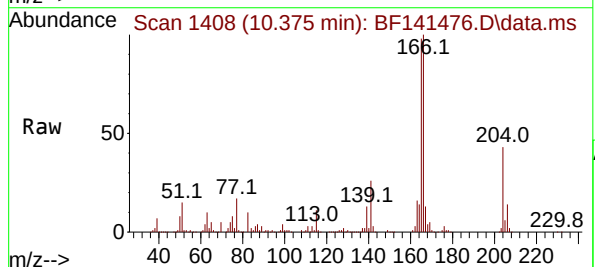
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

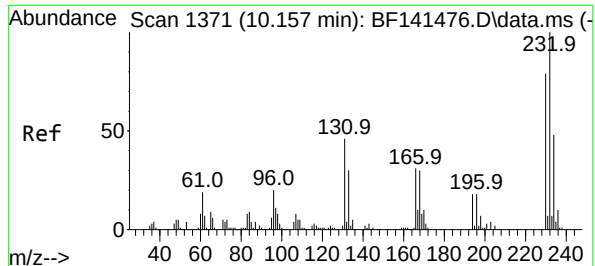
Tgt Ion:165 Resp: 153824
Ion Ratio Lower Upper
165 100
63 58.0 46.4 69.6
89 77.2 61.8 92.6
182 2.7 2.2 3.2



#58
Fluorene
Concen: 39.654 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:166 Resp: 498929
Ion Ratio Lower Upper
166 100
165 97.7 78.2 117.2
167 13.4 10.7 16.1

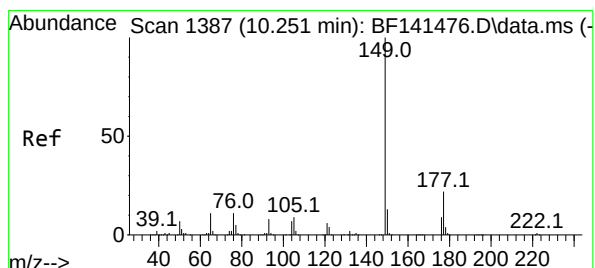
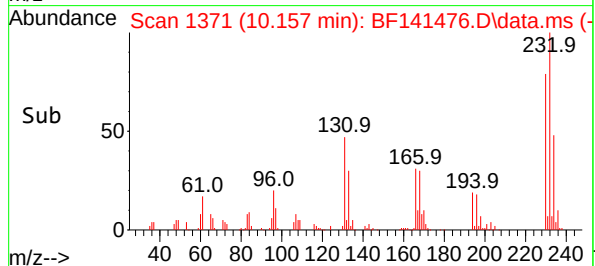
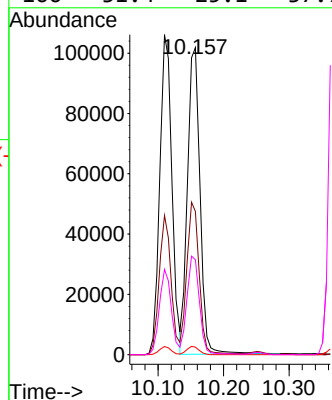
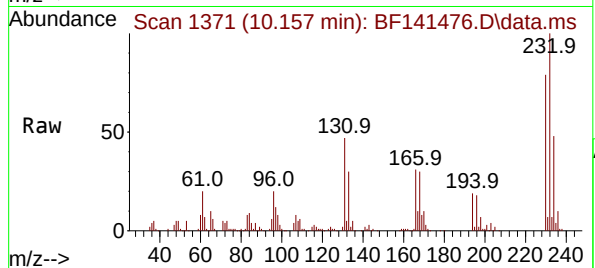




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.888 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

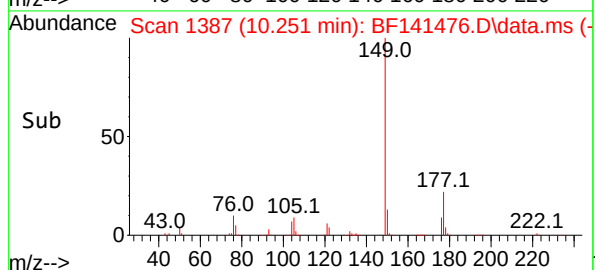
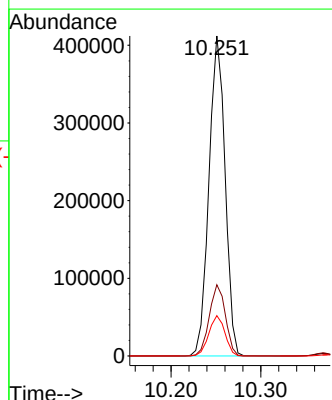
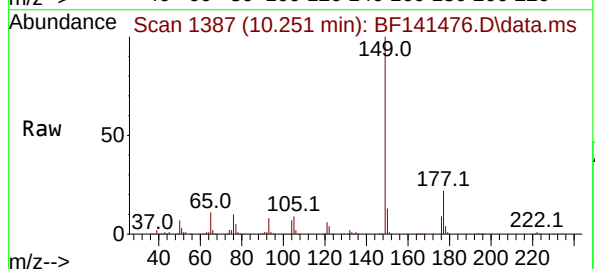
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

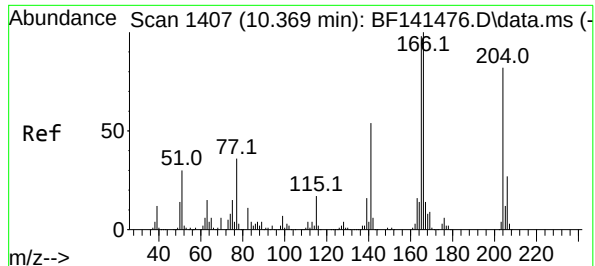
Tgt Ion:232 Resp: 134581
Ion Ratio Lower Upper
232 100
131 49.0 39.2 58.8
130 2.6 2.1 3.1
166 31.4 25.1 37.7



#60
Diethylphthalate
Concen: 39.821 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 514358
Ion Ratio Lower Upper
149 100
177 22.2 17.8 26.6
150 12.6 10.1 15.1

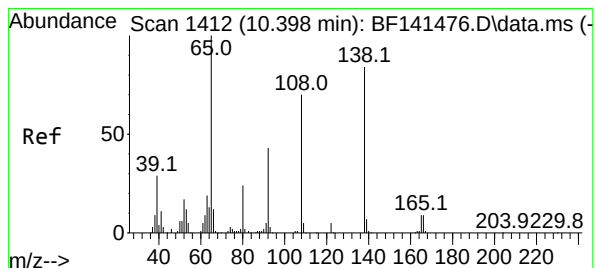
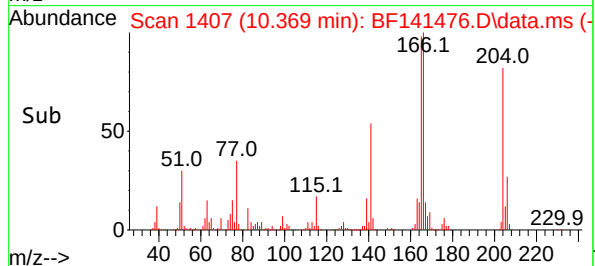
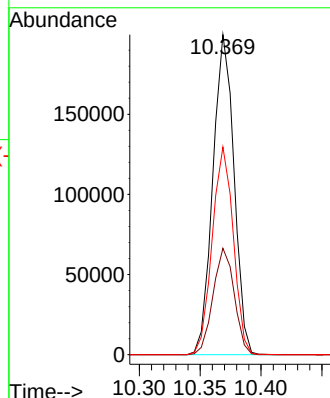
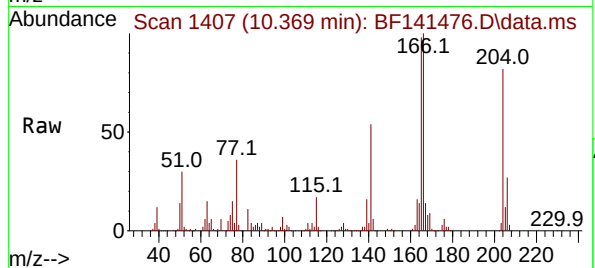




#61
4-Chlorophenyl-phenylether
Concen: 39.767 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

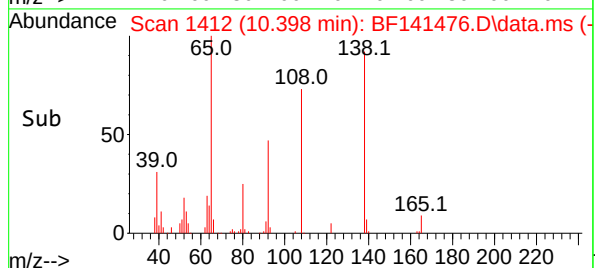
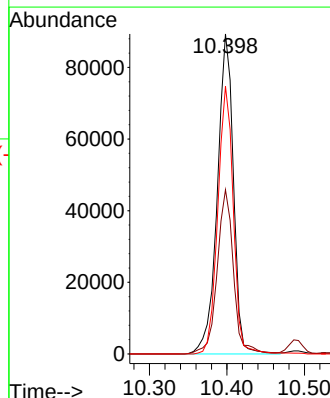
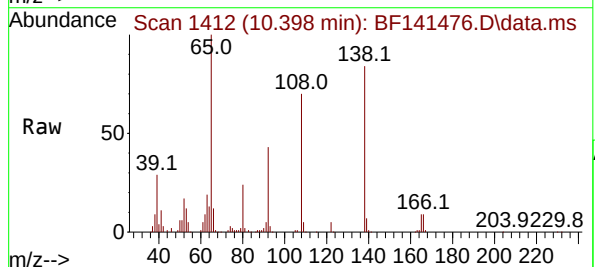
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

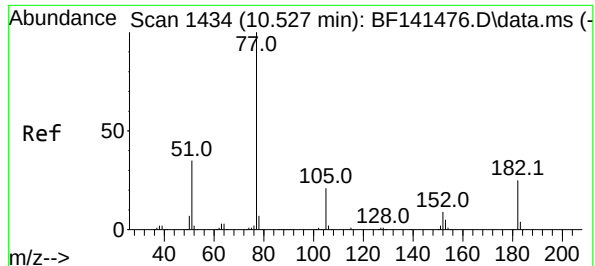
Tgt Ion:204 Resp: 240707
Ion Ratio Lower Upper
204 100
206 33.3 26.6 40.0
141 64.9 51.9 77.9



#62
4-Nitroaniline
Concen: 41.253 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:138 Resp: 129392
Ion Ratio Lower Upper
138 100
92 51.3 31.3 71.3
108 83.7 63.7 103.7

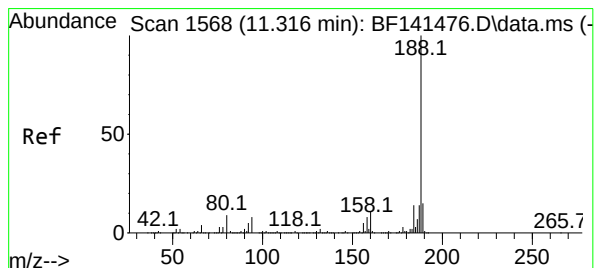
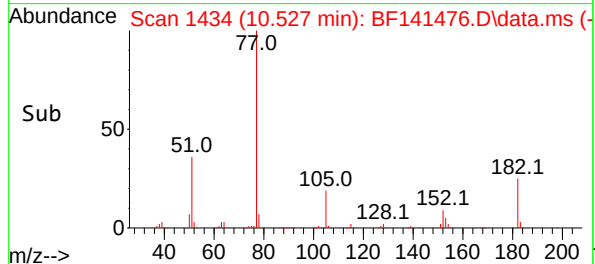
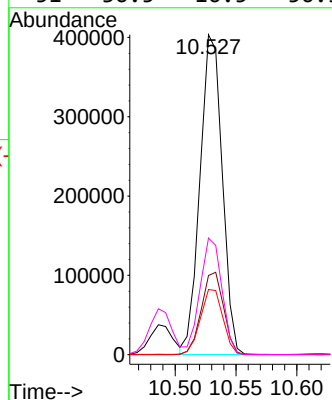
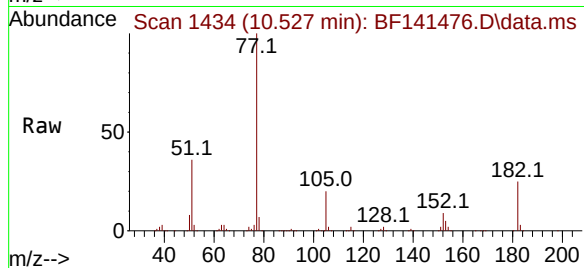




#63
Azobenzene
Concen: 39.926 ng
RT: 10.527 min Scan# 1434
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

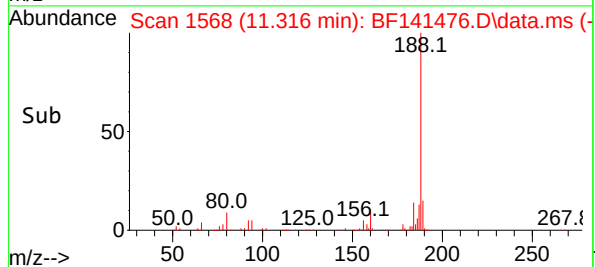
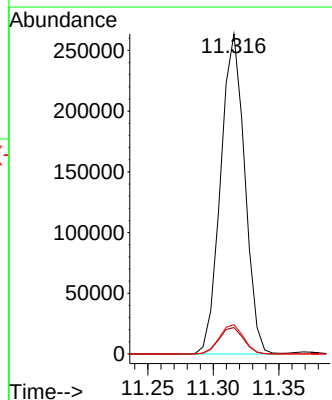
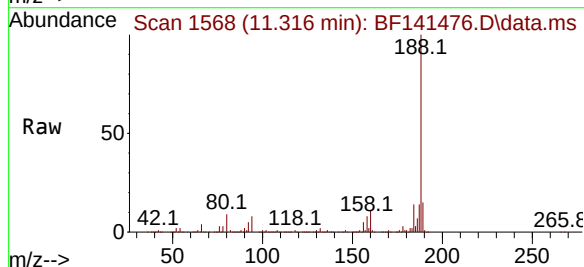
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

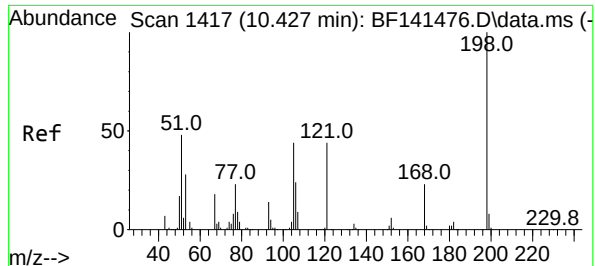
Tgt Ion: 77 Resp: 512692
Ion Ratio Lower Upper
77 100
182 24.7 4.7 44.7
105 20.4 0.4 40.4
51 36.5 16.5 56.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 188 Resp: 336425
Ion Ratio Lower Upper
188 100
94 8.3 6.6 10.0
80 9.1 7.3 10.9

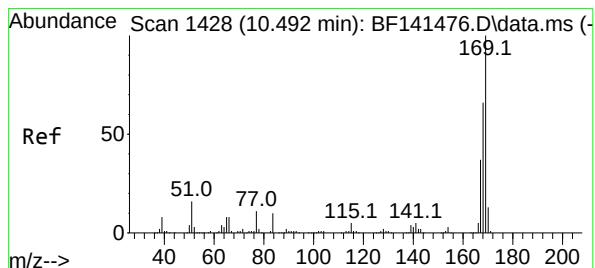
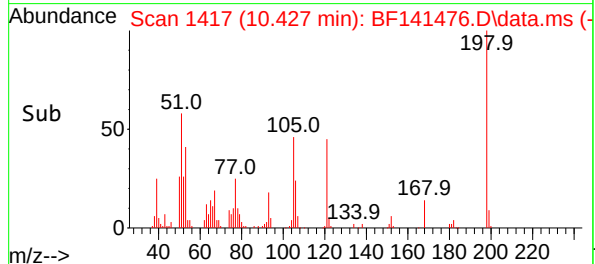
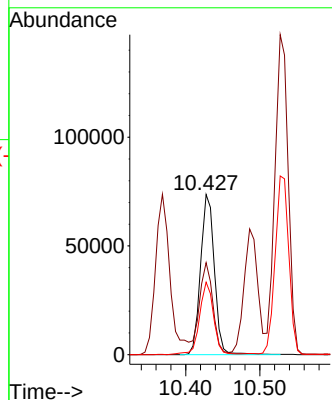
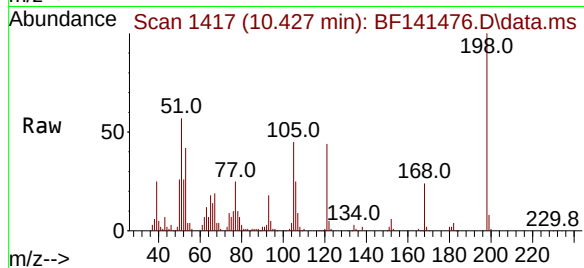




#65
4,6-Dinitro-2-methylphenol
Concen: 40.874 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

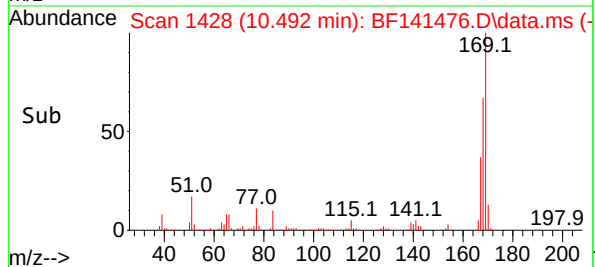
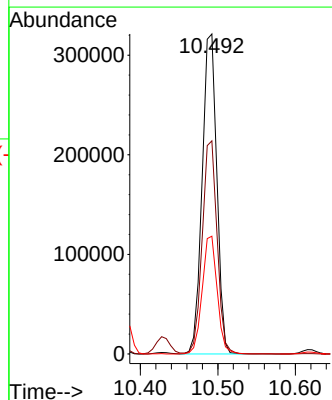
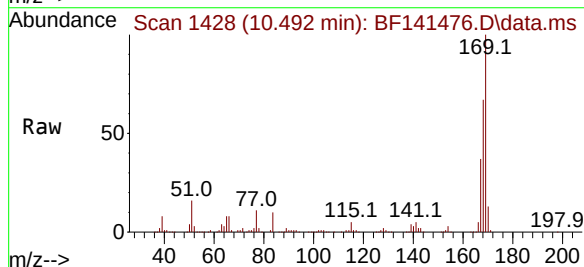
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

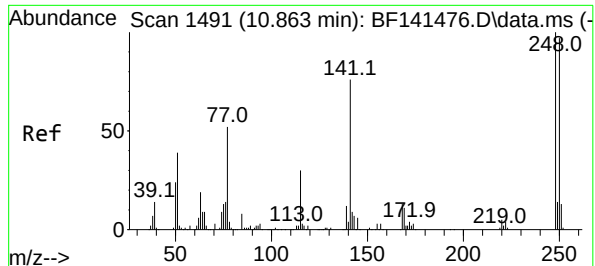
Tgt Ion:198 Resp: 95521
Ion Ratio Lower Upper
198 100
51 57.4 37.4 77.4
105 45.2 25.2 65.2



#66
n-Nitrosodiphenylamine
Concen: 39.180 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:169 Resp: 421937
Ion Ratio Lower Upper
169 100
168 66.6 53.3 79.9
167 36.8 29.4 44.2

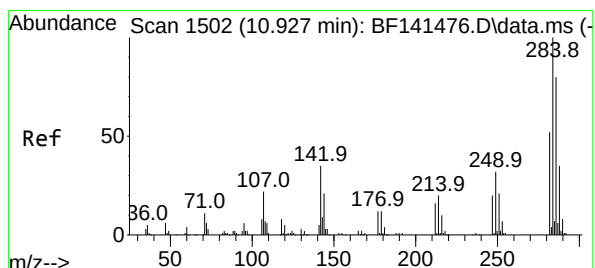
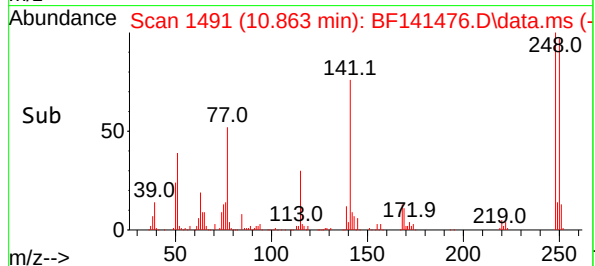
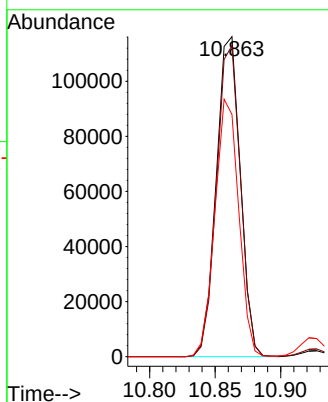
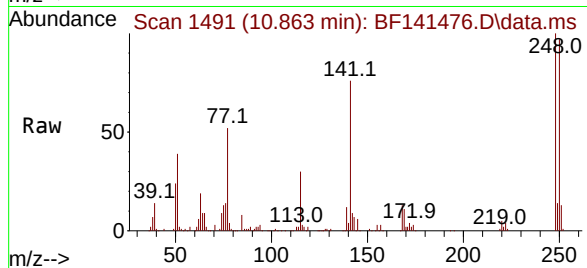




#67
4-Bromophenyl-phenylether
Concen: 39.522 ng
RT: 10.863 min Scan# 1491
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

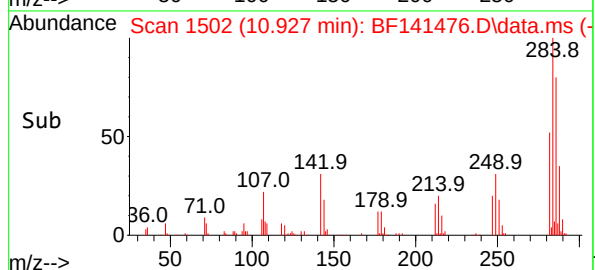
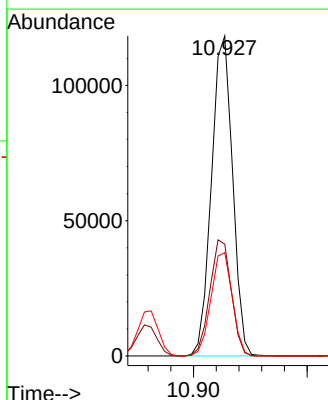
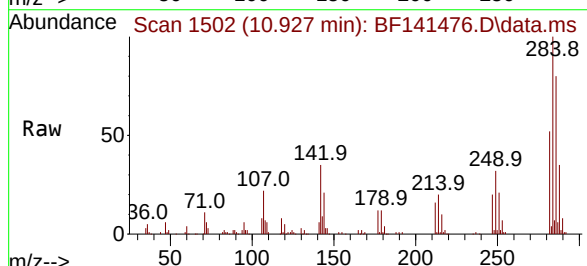
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

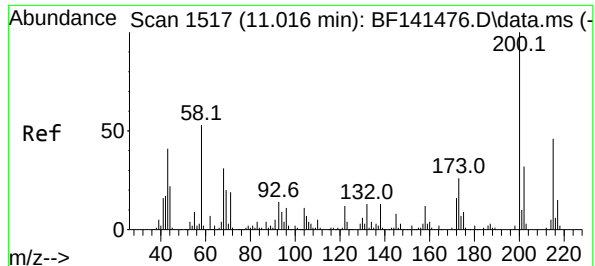
Tgt Ion:248 Resp: 148603
Ion Ratio Lower Upper
248 100
250 97.2 77.8 116.6
141 75.7 60.6 90.8



#68
Hexachlorobenzene
Concen: 39.430 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:284 Resp: 152664
Ion Ratio Lower Upper
284 100
142 35.0 28.0 42.0
249 32.3 25.8 38.8





#69

Atrazine

Concen: 38.533 ng

RT: 11.016 min Scan# 1517

Delta R.T. -0.005 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

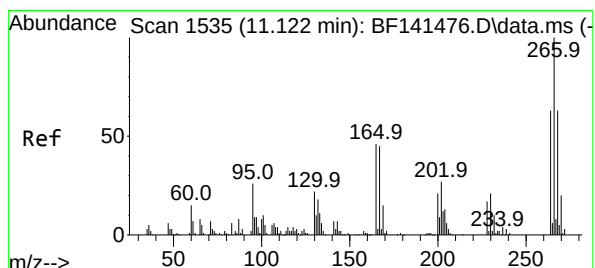
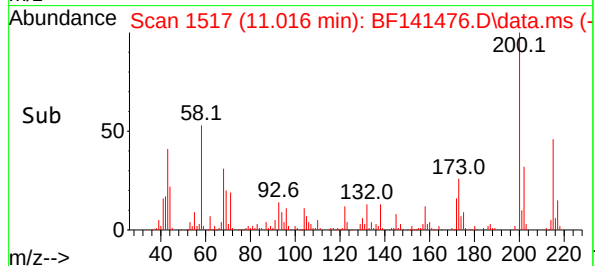
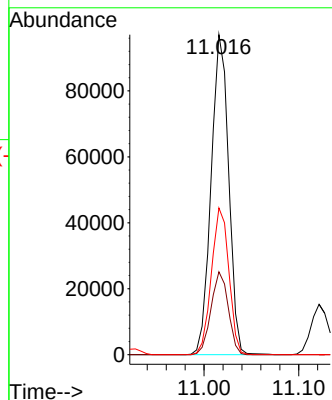
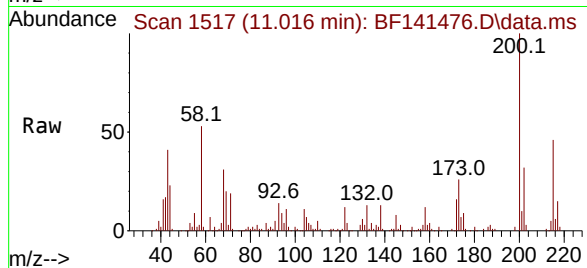
Tgt Ion:200 Resp: 124494

Ion Ratio Lower Upper

200 100

173 25.9 5.9 45.9

215 45.9 25.9 65.9



#70

Pentachlorophenol

Concen: 41.930 ng

RT: 11.122 min Scan# 1535

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

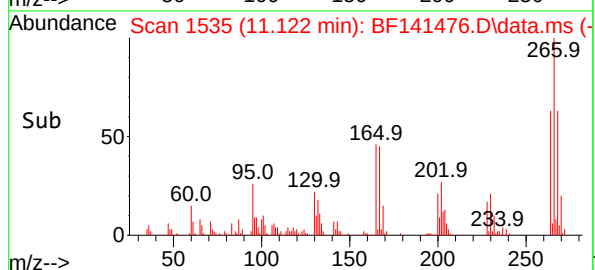
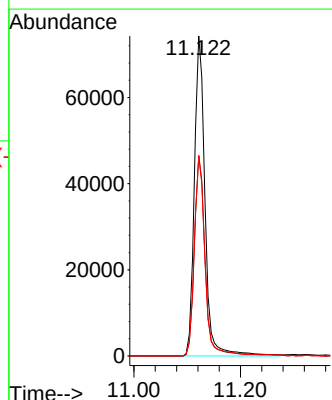
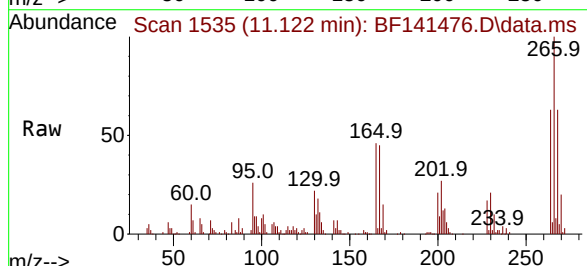
Tgt Ion:266 Resp: 103806

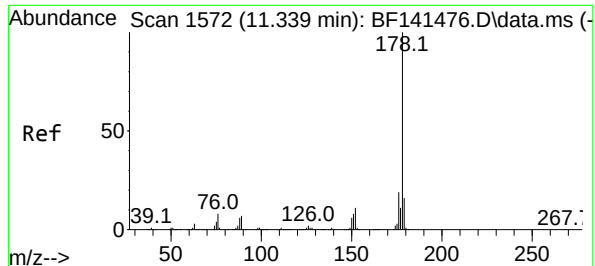
Ion Ratio Lower Upper

266 100

268 62.6 50.1 75.1

264 62.6 50.1 75.1

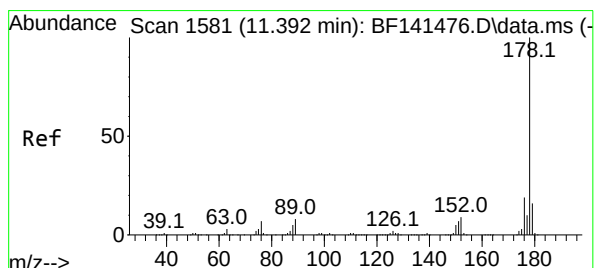
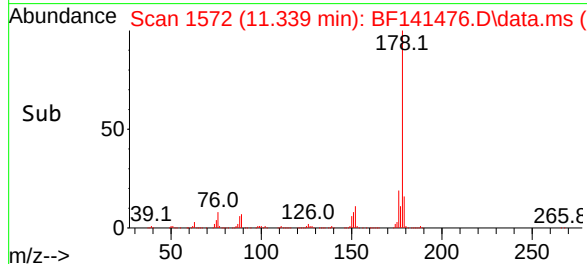
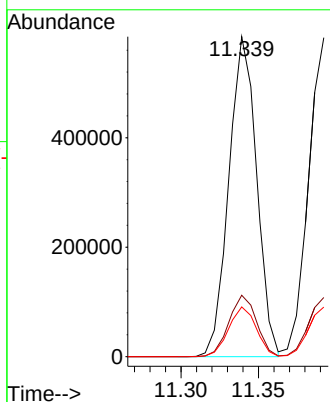
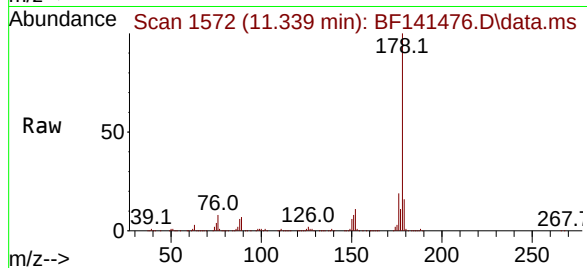




#71
Phenanthrene
Concen: 39.397 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

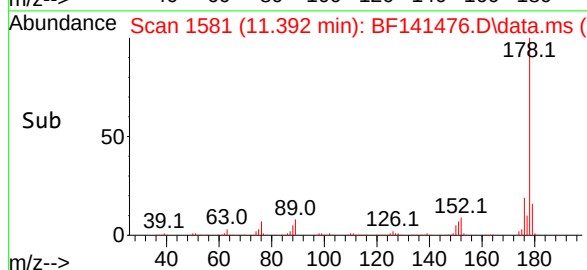
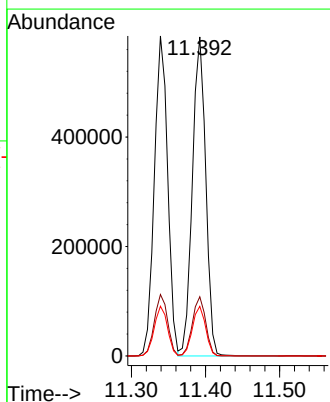
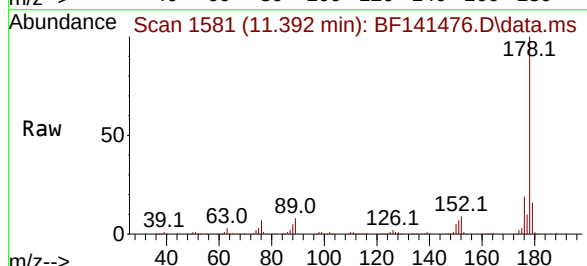
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

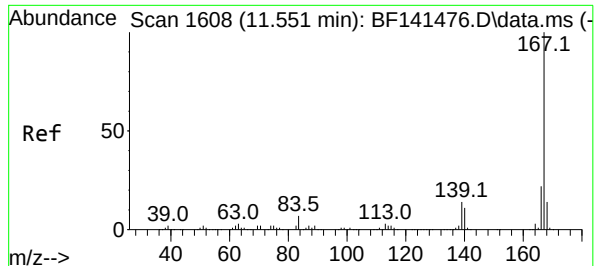
Tgt Ion:178 Resp: 729585
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.5 12.4 18.6



#72
Anthracene
Concen: 39.125 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:178 Resp: 728337
Ion Ratio Lower Upper
178 100
176 18.5 14.8 22.2
179 15.5 12.4 18.6

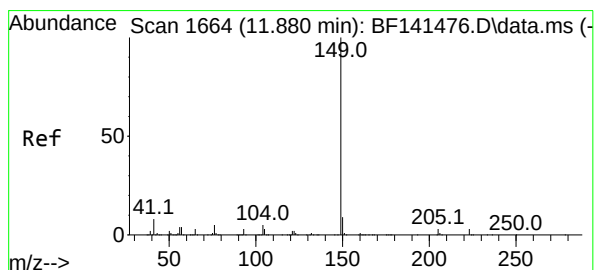
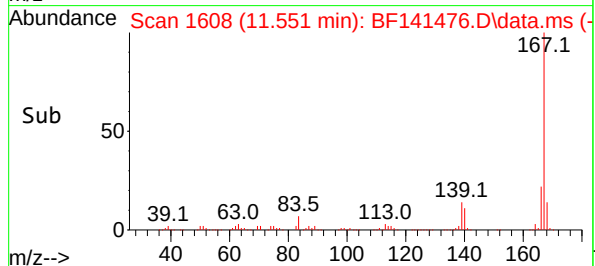
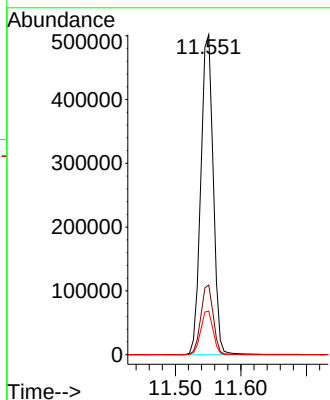
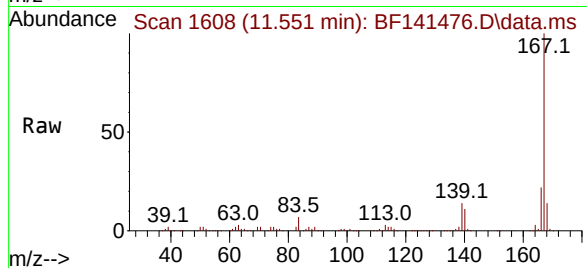




#73
Carbazole
Concen: 39.613 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

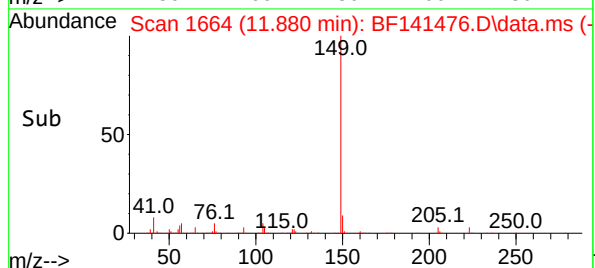
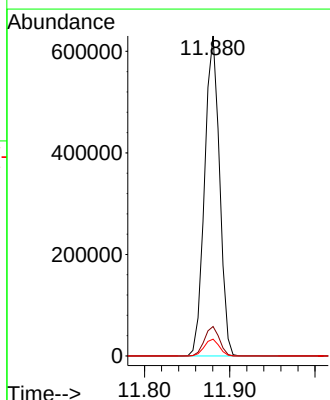
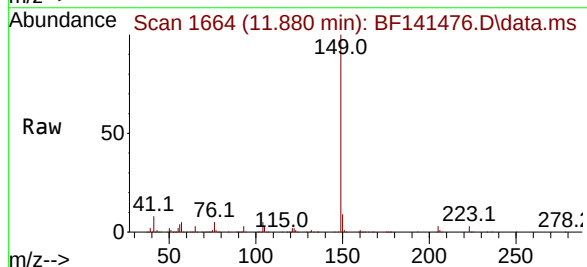
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

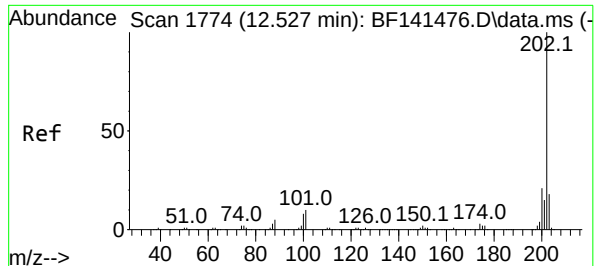
Tgt Ion:167 Resp: 663523
Ion Ratio Lower Upper
167 100
166 21.8 17.4 26.2
139 13.6 10.9 16.3



#74
Di-n-butylphthalate
Concen: 39.706 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 767961
Ion Ratio Lower Upper
149 100
150 9.2 7.4 11.0
104 5.2 4.2 6.2

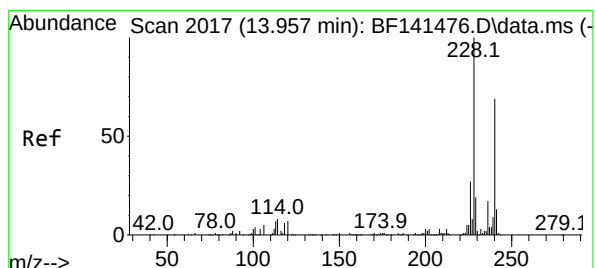
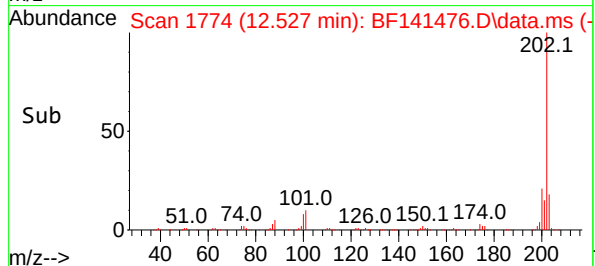
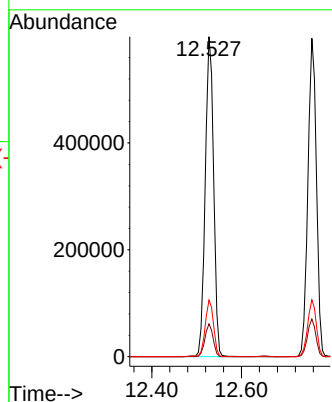
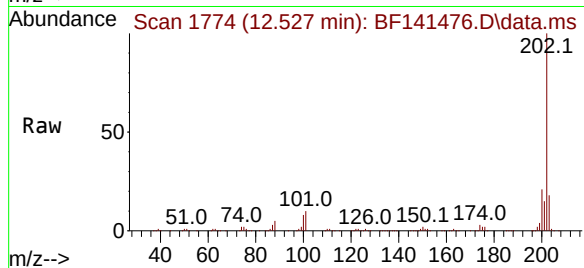




#75
Fluoranthene
Concen: 39.441 ng
RT: 12.527 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

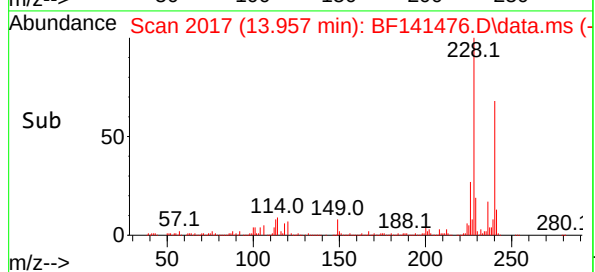
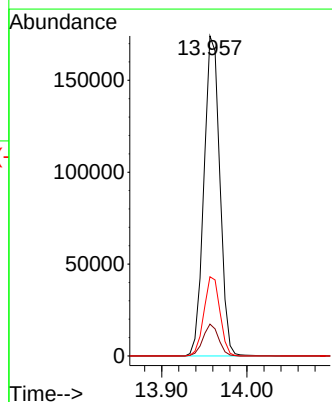
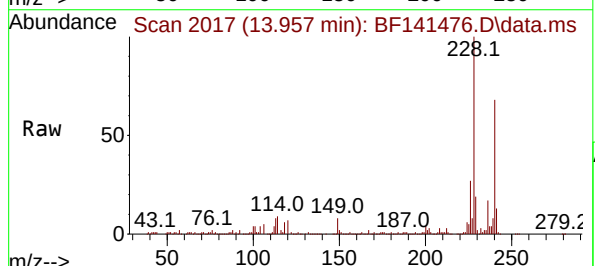
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

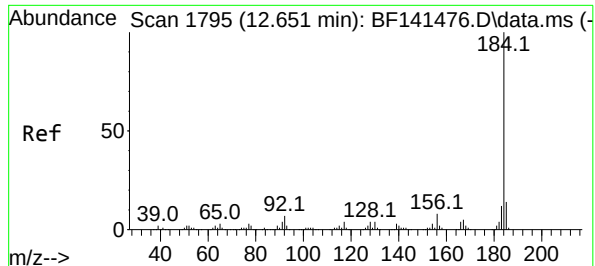
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.6	0.0	37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	24.8	19.8	29.8

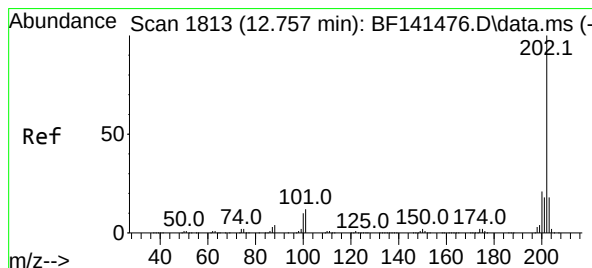
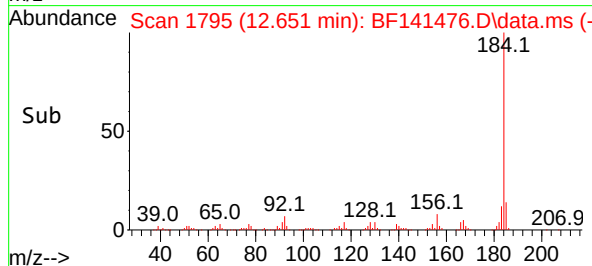
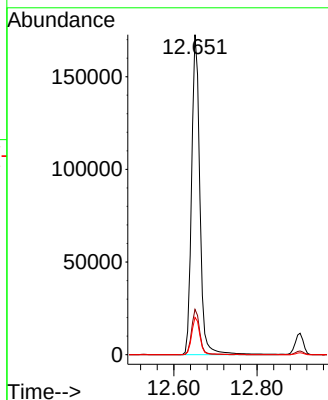
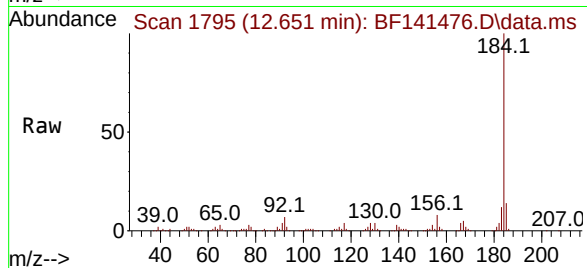




#77
Benzidine
Concen: 47.917 ng
RT: 12.651 min Scan# 1795
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

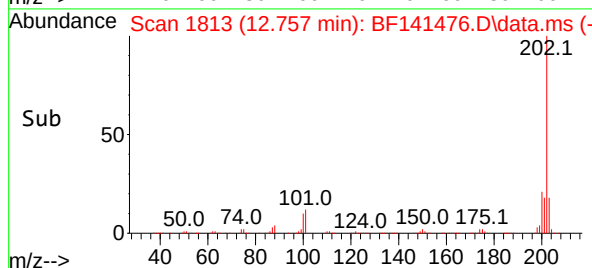
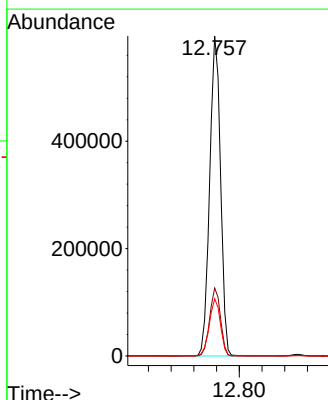
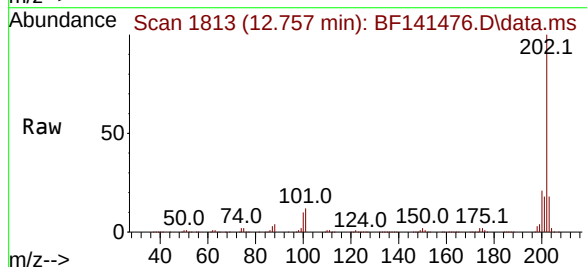
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

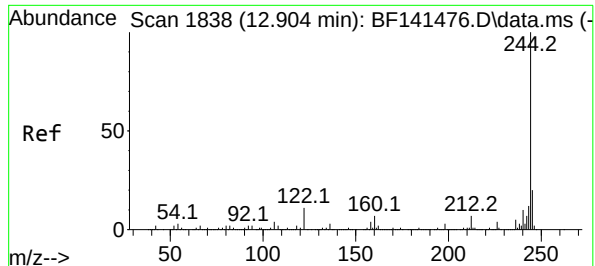
Tgt Ion:184 Resp: 238261
Ion Ratio Lower Upper
184 100
185 14.1 11.3 16.9
183 11.6 9.3 13.9



#78
Pyrene
Concen: 41.002 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:202 Resp: 786956
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.9 14.3 21.5

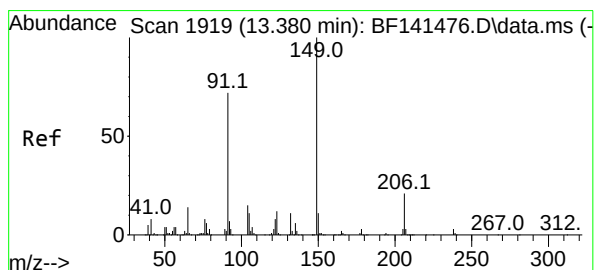
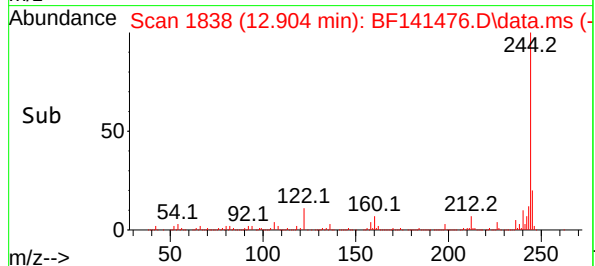
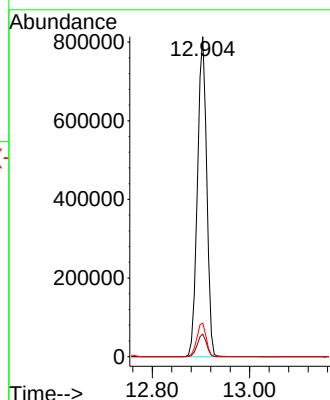
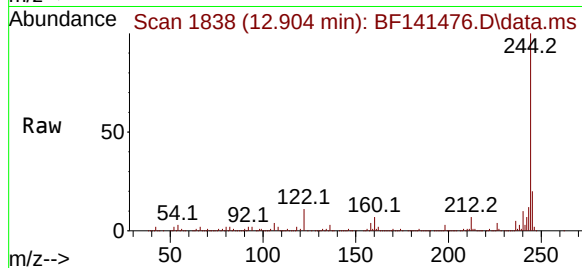




#79
Terphenyl-d14
Concen: 80.879 ng
RT: 12.904 min Scan# 1838
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

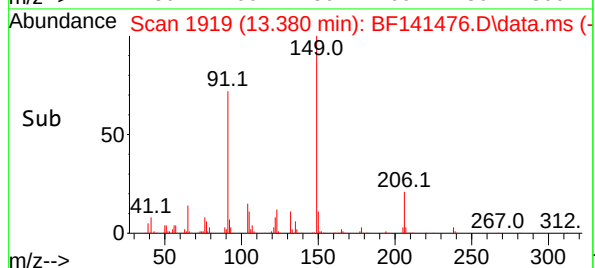
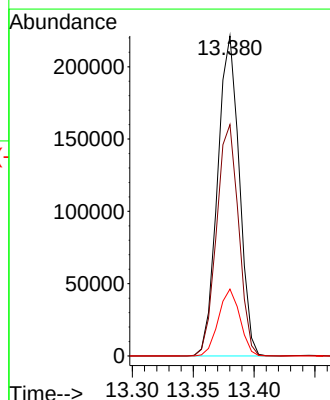
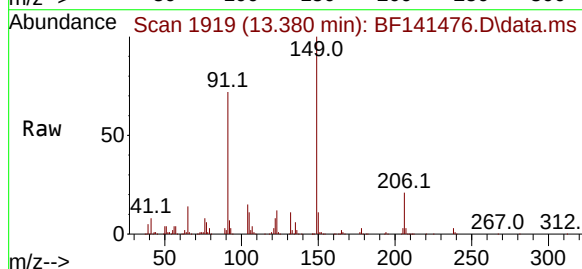
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

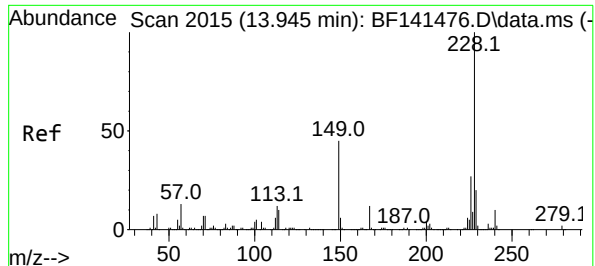
Tgt Ion:244 Resp: 1080174
Ion Ratio Lower Upper
244 100
212 7.0 5.6 8.4
122 10.5 8.4 12.6



#80
Butylbenzylphthalate
Concen: 41.323 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 274711
Ion Ratio Lower Upper
149 100
91 72.3 57.8 86.8
206 20.9 16.7 25.1

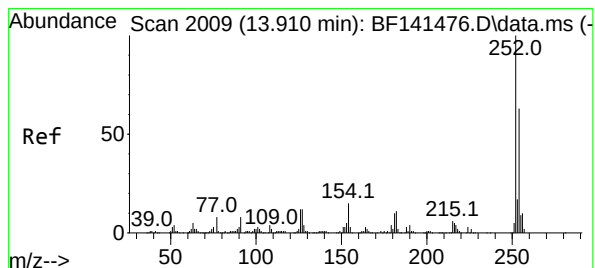
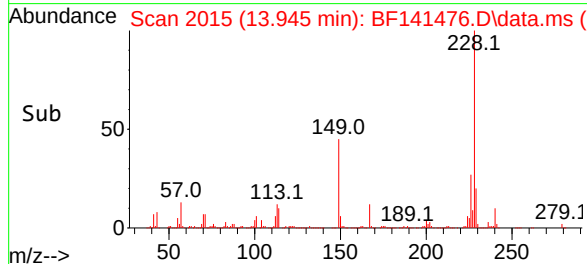
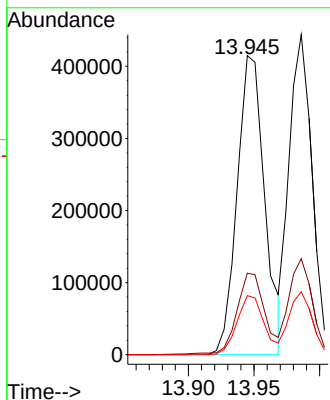
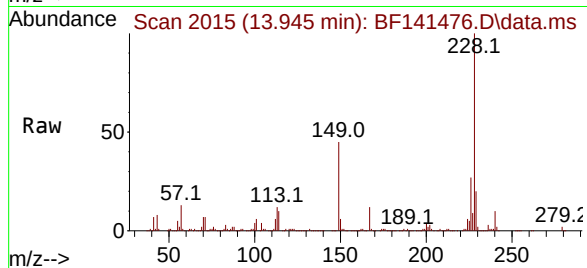




#81
Benzo(a)anthracene
Concen: 40.479 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

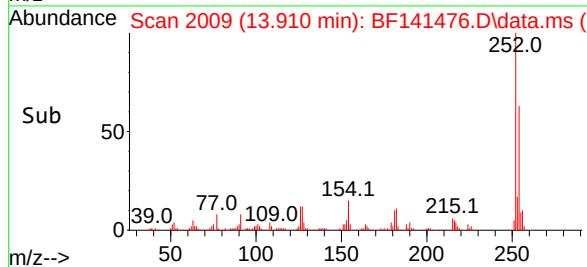
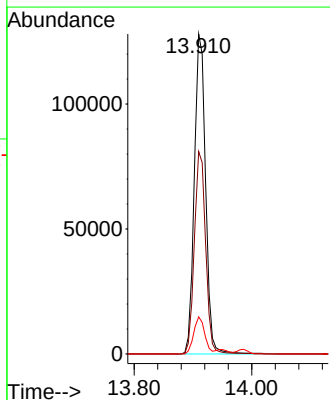
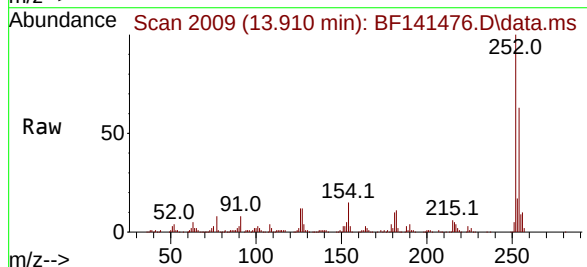
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

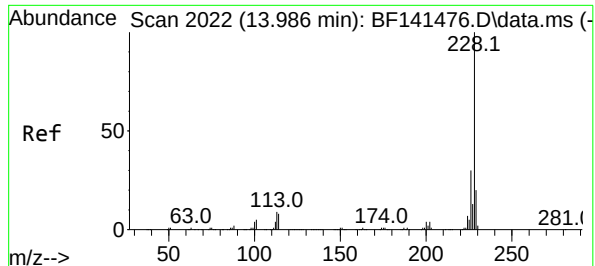
Tgt Ion:228 Resp: 606669
Ion Ratio Lower Upper
228 100
226 27.3 21.8 32.8
229 19.7 15.8 23.6



#82
3,3'-Dichlorobenzidine
Concen: 39.640 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 170181
Ion Ratio Lower Upper
252 100
254 63.3 50.6 76.0
126 11.6 9.3 13.9

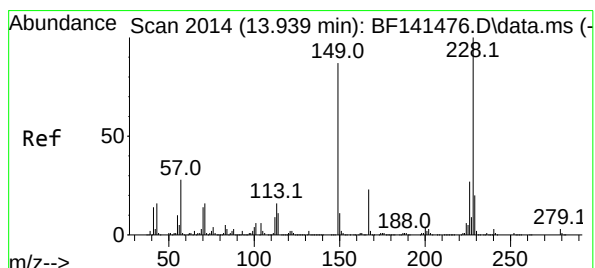
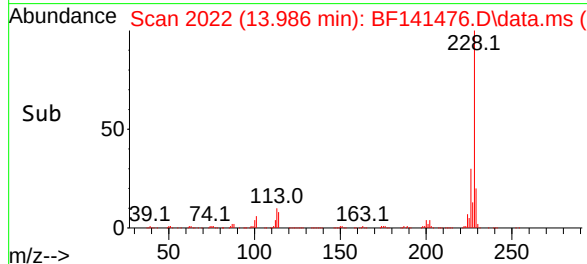
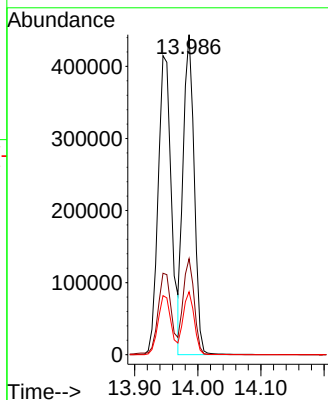
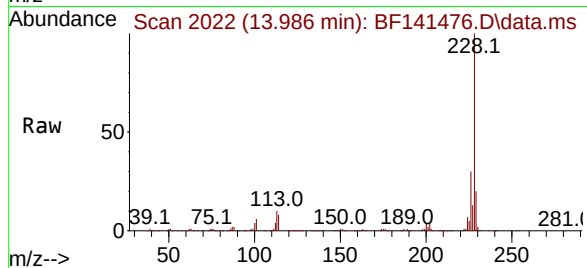




#83
Chrysene
Concen: 39.121 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

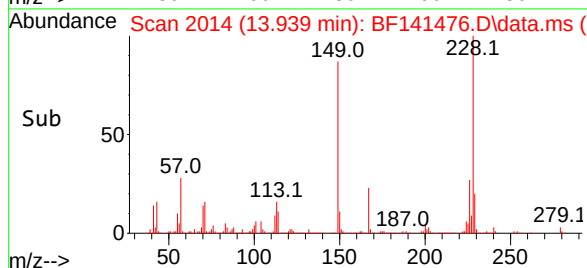
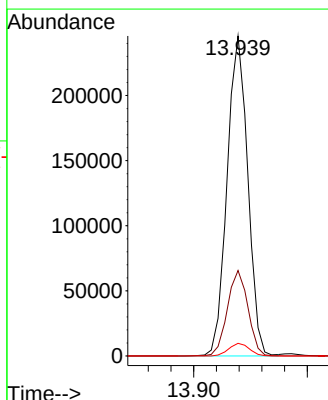
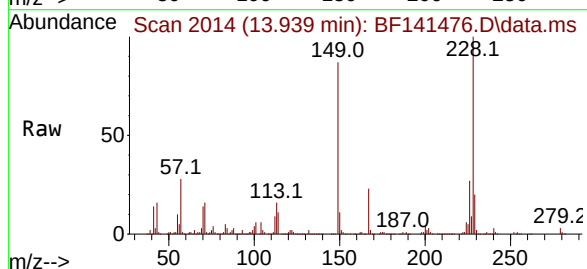
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

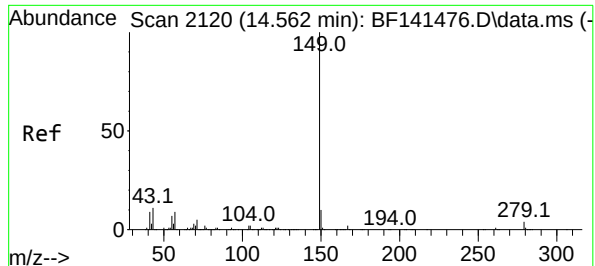
Tgt Ion:228 Resp: 541376
Ion Ratio Lower Upper
228 100
226 30.0 24.0 36.0
229 19.6 15.7 23.5



#84
Bis(2-ethylhexyl)phthalate
Concen: 41.438 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 310696
Ion Ratio Lower Upper
149 100
167 26.7 21.4 32.0
279 3.9 3.1 4.7

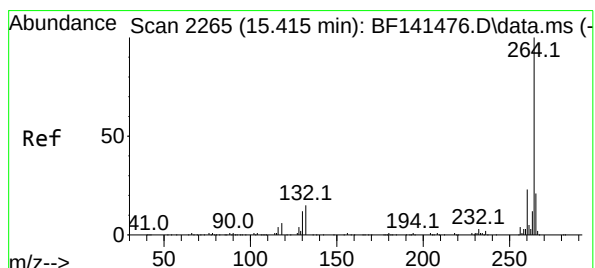
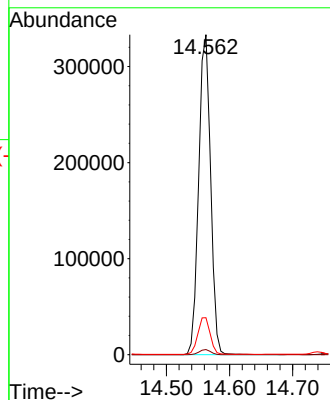
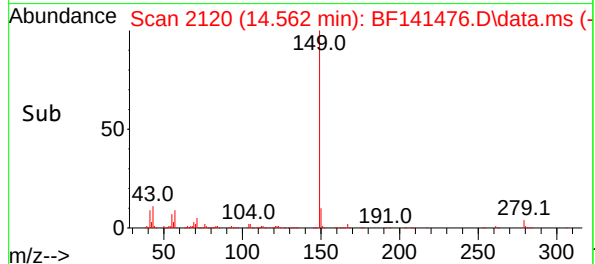
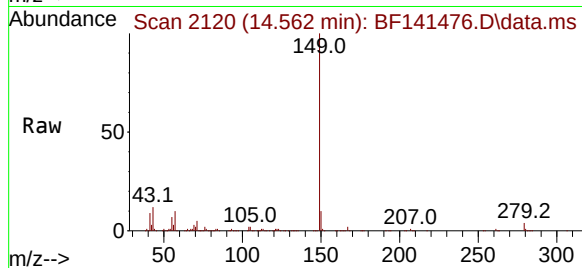




#85
Di-n-octyl phthalate
Concen: 40.682 ng
RT: 14.562 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

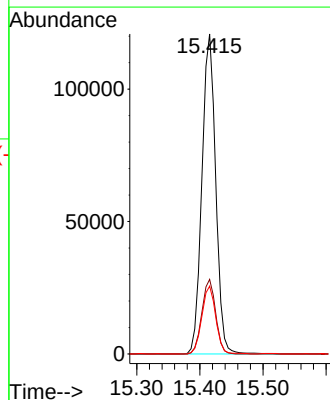
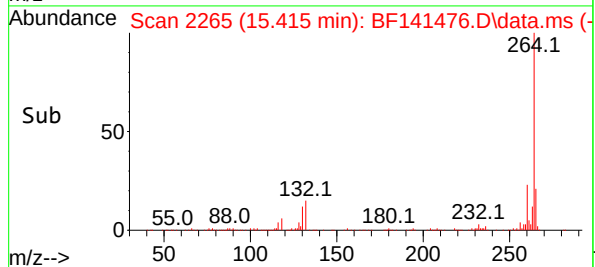
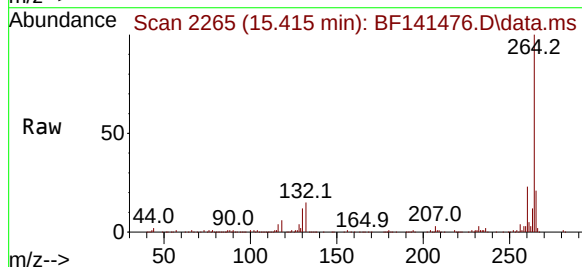
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

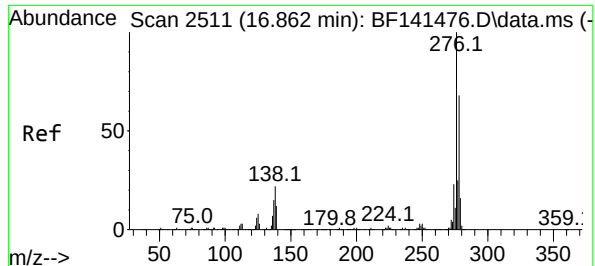
Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.5	14.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.2	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 41.699 ng

RT: 16.862 min Scan# 2194

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

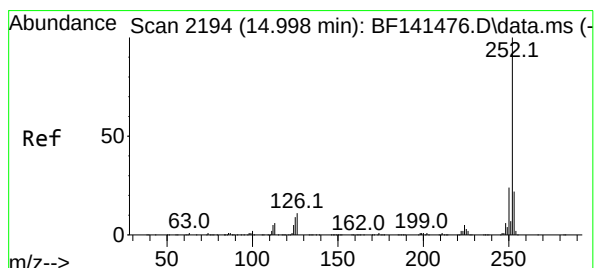
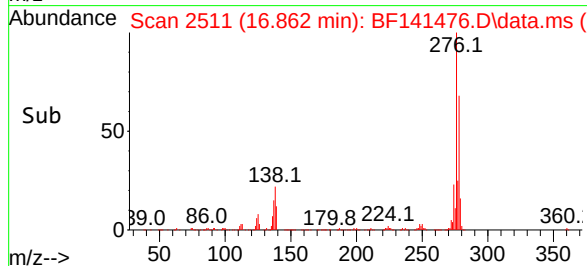
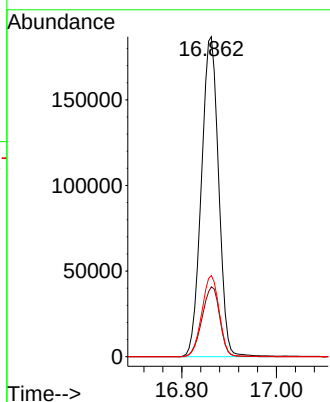
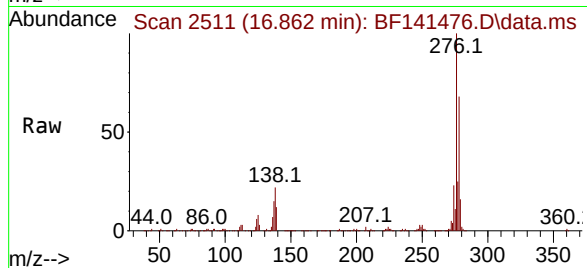
Tgt Ion:276 Resp: 471272

Ion Ratio Lower Upper

276 100

138 22.5 18.0 27.0

277 25.5 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 39.783 ng

RT: 14.998 min Scan# 2194

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

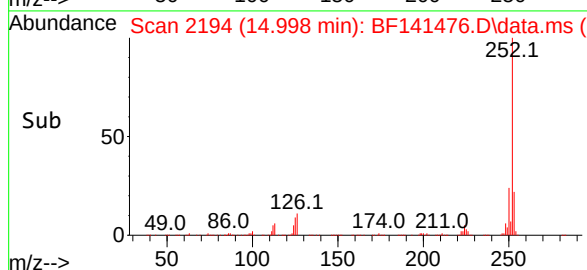
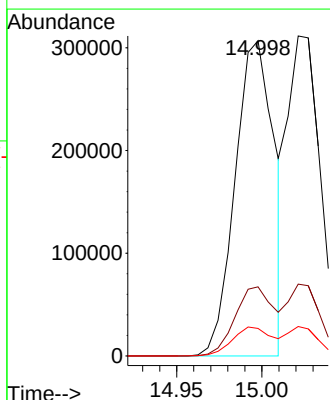
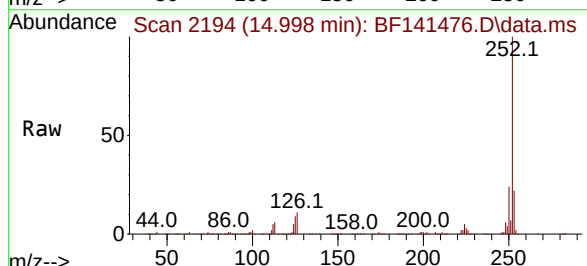
Tgt Ion:252 Resp: 488585

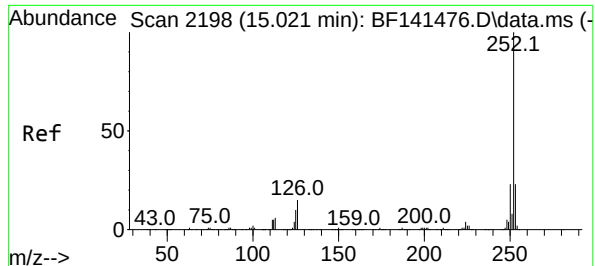
Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

125 8.8 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 39.836 ng

RT: 15.021 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

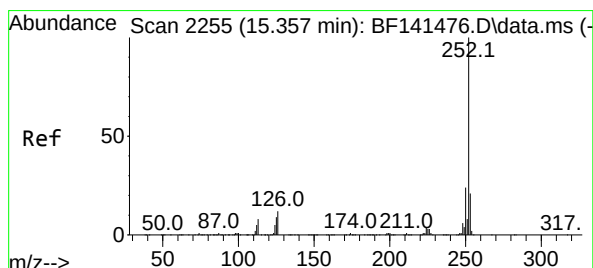
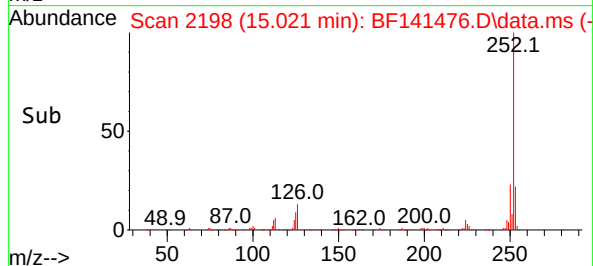
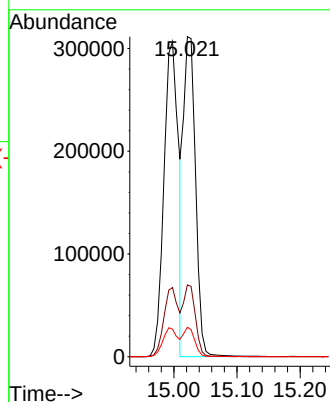
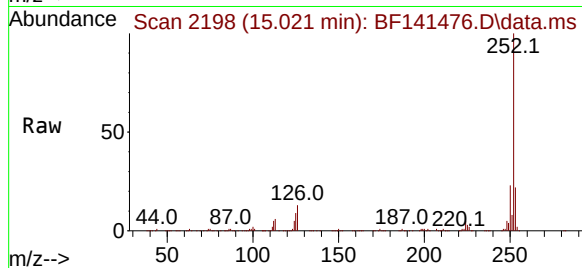
Tgt Ion:252 Resp: 417770

Ion Ratio Lower Upper

252 100

253 22.5 18.0 27.0

125 9.2 7.4 11.0



#90

Benzo(a)pyrene

Concen: 39.767 ng

RT: 15.357 min Scan# 2255

Delta R.T. -0.006 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

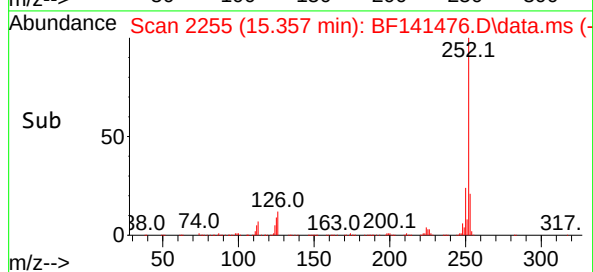
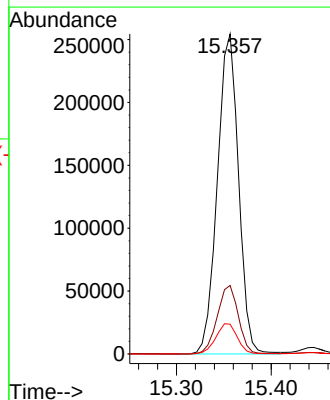
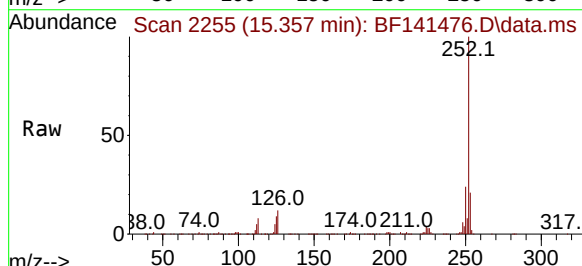
Tgt Ion:252 Resp: 395193

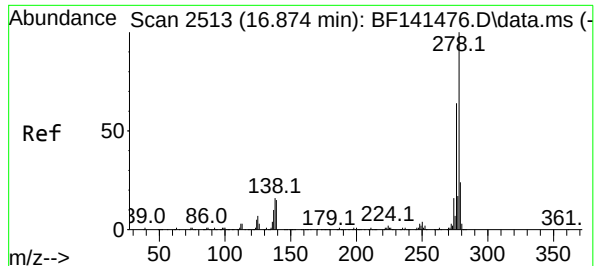
Ion Ratio Lower Upper

252 100

253 21.4 17.1 25.7

125 9.3 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 42.001 ng

RT: 16.874 min Scan# 2513

Delta R.T. -0.018 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

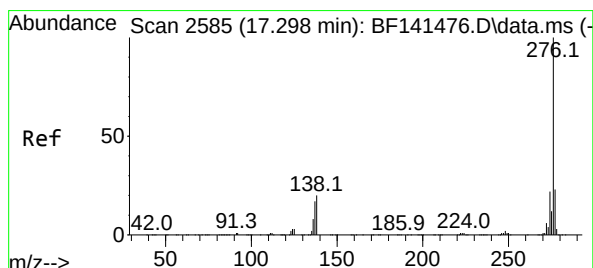
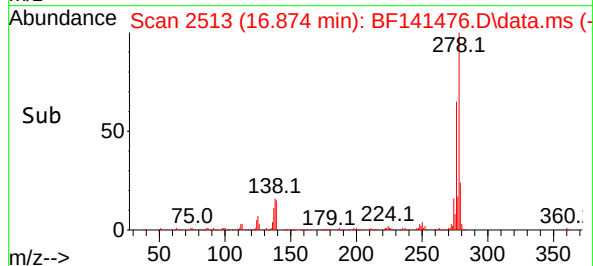
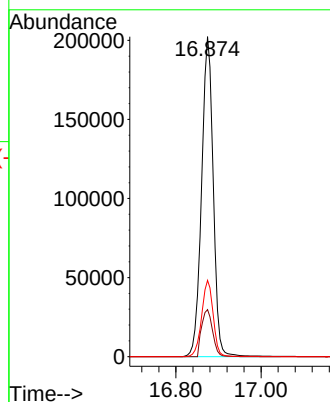
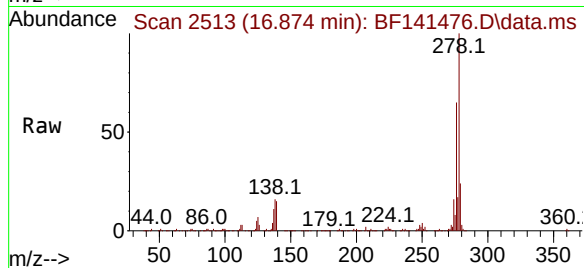
Tgt Ion:278 Resp: 384623

Ion Ratio Lower Upper

278 100

139 14.7 11.8 17.6

279 23.9 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 41.992 ng

RT: 17.298 min Scan# 2585

Delta R.T. -0.018 min

Lab File: BF141476.D

Acq: 06 Feb 2025 12:55

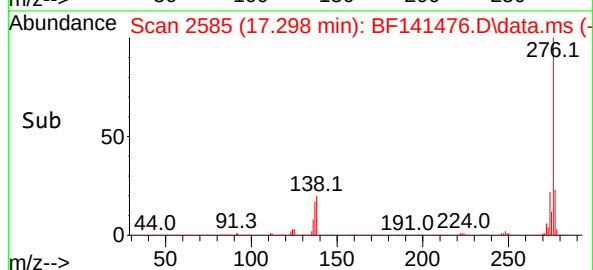
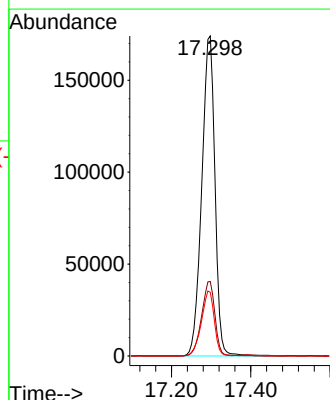
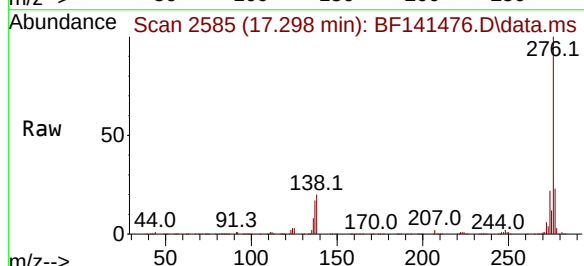
Tgt Ion:276 Resp: 402413

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 19.9 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141477.D
 Acq On : 06 Feb 2025 13:21
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

Quant Time: Feb 06 16:00:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	87860	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	347298	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	190523	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	323702	20.000	ng	0.00
76) Chrysene-d12	13.963	240	205879	20.000	ng	0.00
86) Perylene-d12	15.415	264	174906	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	559309	99.801	ng	0.00
7) Phenol-d6	6.434	99	702435	99.168	ng	0.00
23) Nitrobenzene-d5	7.357	82	657106	98.686	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	189178	98.845	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1182292	95.605	ng	0.00
79) Terphenyl-d14	12.904	244	1244053	102.010	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.481	88	110258	48.882	ng	98
3) Pyridine	3.210	79	275985	51.419	ng	100
4) n-Nitrosodimethylamine	3.169	42	183299	51.575	ng	97
6) Aniline	6.457	93	330719	49.774	ng	86
8) 2-Chlorophenol	6.581	128	300380	49.604	ng	98
9) Benzaldehyde	6.340	77	164133	43.605	ng	99
10) Phenol	6.445	94	364380	49.425	ng	98
11) bis(2-Chloroethyl)ether	6.528	93	274892	49.643	ng	98
12) 1,3-Dichlorobenzene	6.728	146	316493	49.506	ng	98
13) 1,4-Dichlorobenzene	6.810	146	321786	49.264	ng	98
14) 1,2-Dichlorobenzene	6.963	146	296834	48.964	ng	99
15) Benzyl Alcohol	6.934	79	274040	50.451	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.069	45	465332	49.091	ng	97
17) 2-Methylphenol	7.051	107	232571	49.081	ng	100
18) Hexachloroethane	7.298	117	122071	50.498	ng	98
19) n-Nitroso-di-n-propyla...	7.210	70	207915	49.072	ng	98
20) 3+4-Methylphenols	7.204	107	295179	49.011	ng	96
22) Acetophenone	7.204	105	419759	48.588	ng	99
24) Nitrobenzene	7.375	77	320155	49.308	ng	100
25) Isophorone	7.616	82	521533	49.123	ng	99
26) 2-Nitrophenol	7.692	139	164623	50.962	ng	96
27) 2,4-Dimethylphenol	7.734	122	189037	50.093	ng	98
28) bis(2-Chloroethoxy)met...	7.822	93	336274	49.430	ng	100
29) 2,4-Dichlorophenol	7.939	162	251518	49.328	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	270897	48.788	ng	99
31) Naphthalene	8.098	128	878692	48.605	ng	100
32) Benzoic acid	7.863	122	202728	51.719	ng	99
33) 4-Chloroaniline	8.151	127	312251	49.471	ng	99
34) Hexachlorobutadiene	8.210	225	163240	48.971	ng	99
35) Caprolactam	8.522	113	76350	49.180	ng	97
36) 4-Chloro-3-methylphenol	8.633	107	280911	49.736	ng	99
37) 2-Methylnaphthalene	8.786	142	572244	48.643	ng	99
38) 1-Methylnaphthalene	8.886	142	553503	48.579	ng	98
40) 1,2,4,5-Tetrachloroben...	8.951	216	266614	48.369	ng	98
41) Hexachlorocyclopentadiene	8.939	237	97674	53.276	ng	100
43) 2,4,6-Trichlorophenol	9.063	196	177503	49.825	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
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 Acq On : 06 Feb 2025 13:21
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 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC050

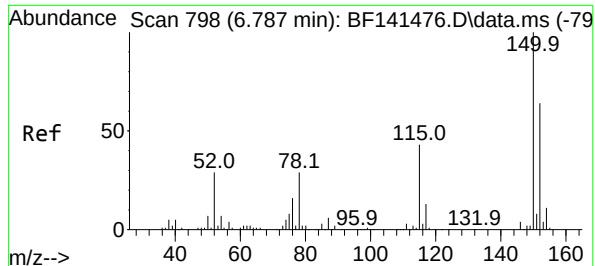
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	187902	48.667	ng	96
46) 1,1'-Biphenyl	9.251	154	722373	48.905	ng	100
47) 2-Chloronaphthalene	9.275	162	530577	48.576	ng	100
48) 2-Nitroaniline	9.375	65	181860	49.612	ng	99
49) Acenaphthylene	9.692	152	790730	48.672	ng	99
50) Dimethylphthalate	9.557	163	630673	48.760	ng	99
51) 2,6-Dinitrotoluene	9.616	165	140697	49.760	ng	98
52) Acenaphthene	9.863	154	527828	48.327	ng	100
53) 3-Nitroaniline	9.786	138	152426	50.087	ng	99
54) 2,4-Dinitrophenol	9.892	184	87953	52.339	ng	97
55) Dibenzofuran	10.033	168	777905	48.523	ng	100
56) 4-Nitrophenol	9.957	139	118835	52.603	ng	99
57) 2,4-Dinitrotoluene	10.022	165	185741	49.346	ng	98
58) Fluorene	10.380	166	590000	47.597	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	165559	49.807	ng	98
60) Diethylphthalate	10.251	149	619064	48.647	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	286530	48.048	ng	99
62) 4-Nitroaniline	10.404	138	151765	49.113	ng	99
63) Azobenzene	10.533	77	616638	48.742	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	114725	51.021	ng	97
66) n-Nitrosodiphenylamine	10.492	169	505770	48.810	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	177761	49.135	ng	98
68) Hexachlorobenzene	10.927	284	180930	48.567	ng	98
69) Atrazine	11.022	200	149758	48.175	ng	98
70) Pentachlorophenol	11.122	266	128081	53.769	ng	99
71) Phenanthrene	11.339	178	866517	48.631	ng	100
72) Anthracene	11.392	178	877393	48.984	ng	99
73) Carbazole	11.551	167	781733	48.504	ng	100
74) Di-n-butylphthalate	11.880	149	915782	49.210	ng	100
75) Fluoranthene	12.527	202	913699	48.367	ng	100
77) Benzidine	12.651	184	222606	49.026	ng	99
78) Pyrene	12.757	202	913198	52.106	ng	100
80) Butylbenzylphthalate	13.380	149	310612	51.168	ng	99
81) Benzo(a)anthracene	13.951	228	673785	49.234	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	186802	47.650	ng	98
83) Chrysene	13.986	228	625572	49.505	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	350121	51.138	ng	100
85) Di-n-octyl phthalate	14.563	149	519741	53.213	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	586584	54.277	ng	99
88) Benzo(b)fluoranthene	14.998	252	590149	50.251	ng	99
89) Benzo(k)fluoranthene	15.027	252	469466	46.814	ng	100
90) Benzo(a)pyrene	15.357	252	467288	49.173	ng	99
91) Dibenzo(a,h)anthracene	16.880	278	477285	54.503	ng	99
92) Benzo(g,h,i)perylene	17.304	276	500274	54.592	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

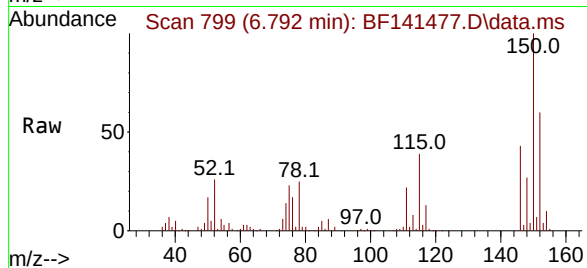
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BNA_F
ClientSampleId :
SSTDICC050

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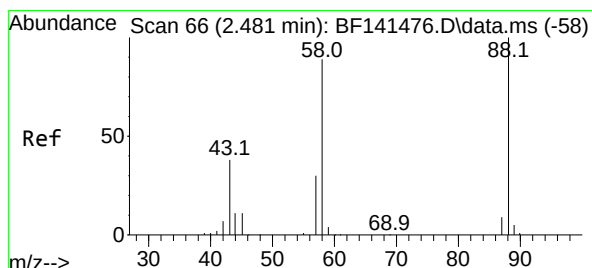
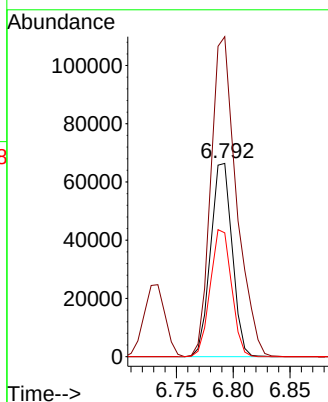
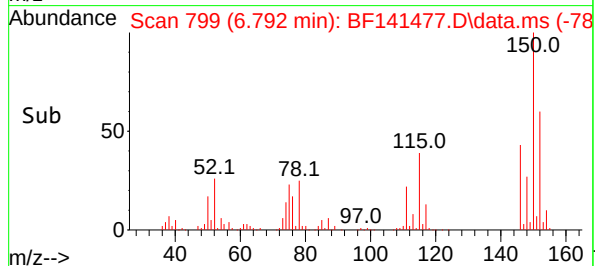


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

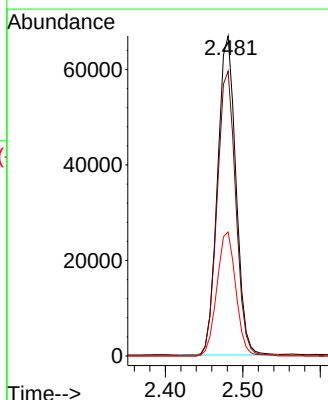
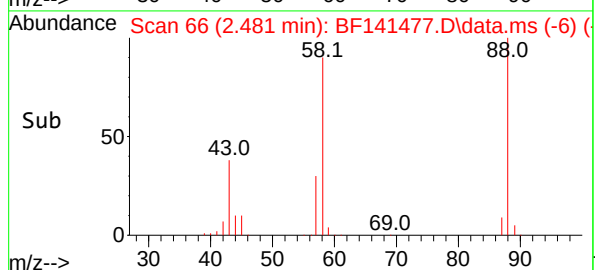
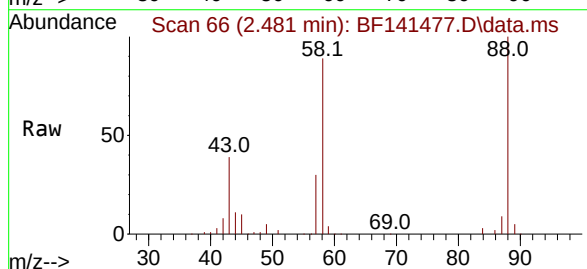


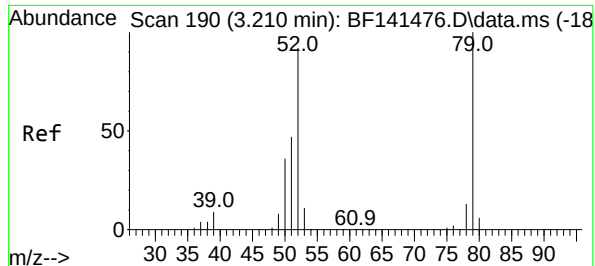
Tgt Ion:152 Resp: 87860
Ion Ratio Lower Upper
152 100
150 165.6 125.0 187.4
115 64.1 53.6 80.4



#2
1,4-Dioxane
Concen: 48.882 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 88 Resp: 110258
Ion Ratio Lower Upper
88 100
58 90.6 71.1 106.7
43 40.1 30.6 46.0

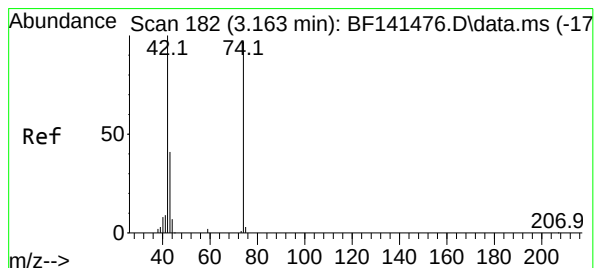
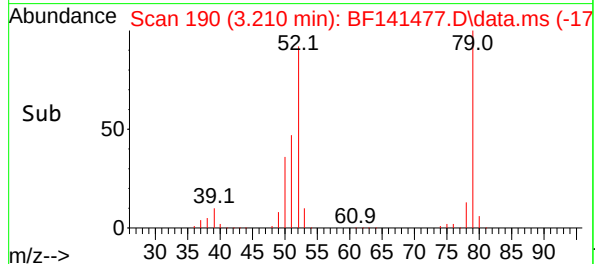
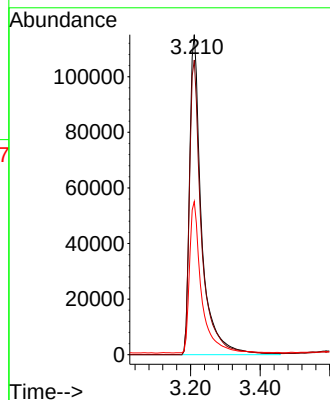
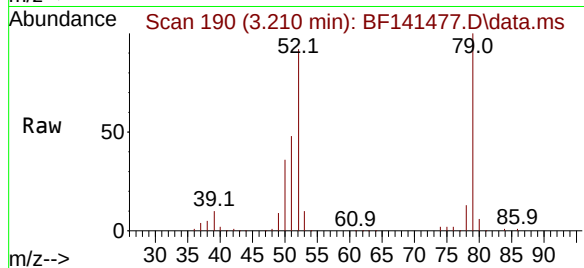




#3
Pyridine
Concen: 51.419 ng
RT: 3.210 min Scan# 190
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

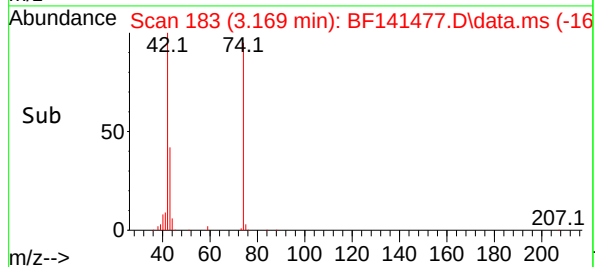
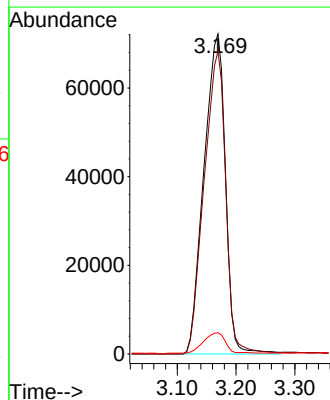
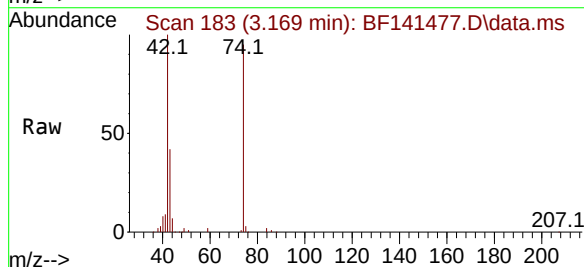
Instrument :
BNA_F
ClientSampleId :
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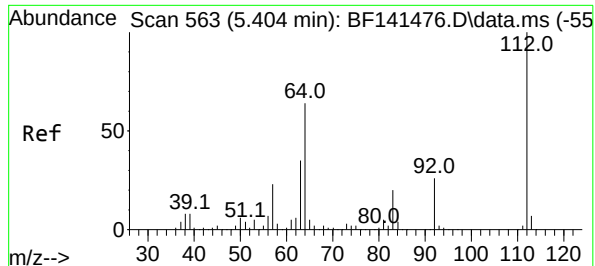
Tgt Ion: 79 Resp: 275985
Ion Ratio Lower Upper
79 100
52 92.1 73.7 110.5
51 47.9 37.5 56.3



#4
n-Nitrosodimethylamine
Concen: 51.575 ng
RT: 3.169 min Scan# 183
Delta R.T. -0.018 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 42 Resp: 183299
Ion Ratio Lower Upper
42 100
74 94.6 78.0 117.0
44 6.7 5.4 8.2

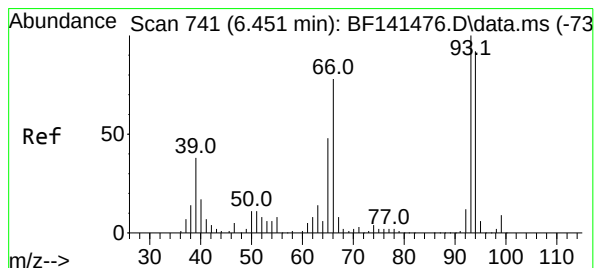
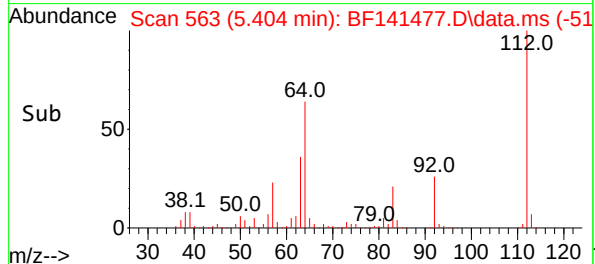
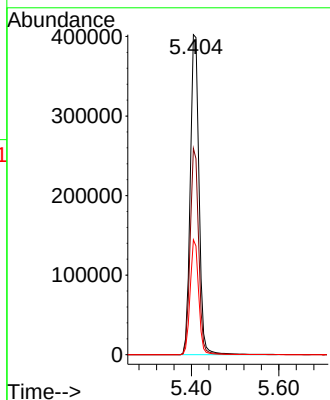
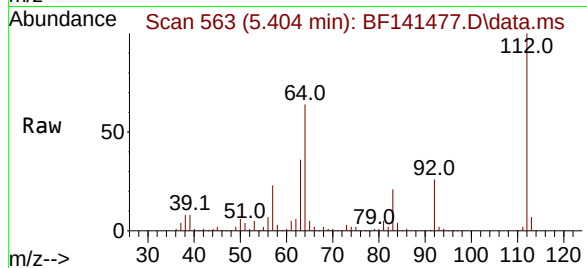




#5
2-Fluorophenol
Concen: 99.801 ng
RT: 5.404 min Scan# 50
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

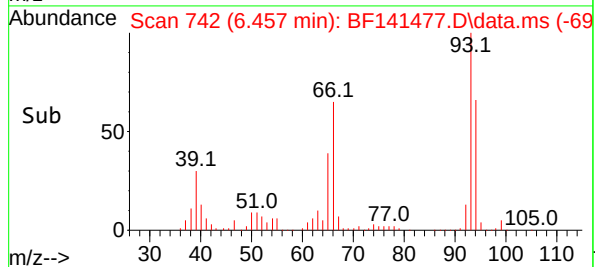
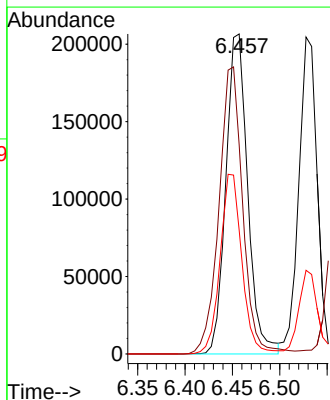
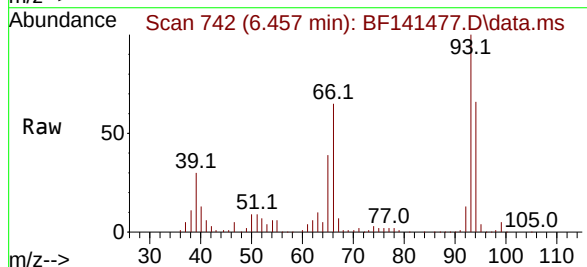
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ClientSampleId :
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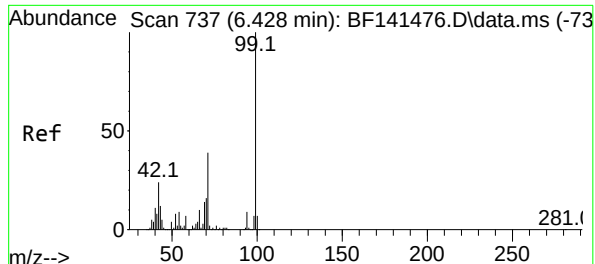
Tgt Ion:112 Resp: 559309
Ion Ratio Lower Upper
112 100
64 64.4 51.1 76.7
63 35.9 28.4 42.6



#6
Aniline
Concen: 49.774 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 93 Resp: 330719
Ion Ratio Lower Upper
93 100
66 65.4 62.6 94.0
65 38.7 38.3 57.5

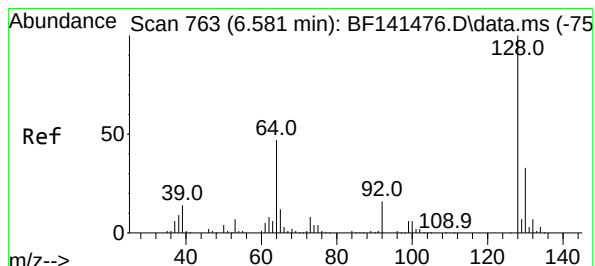
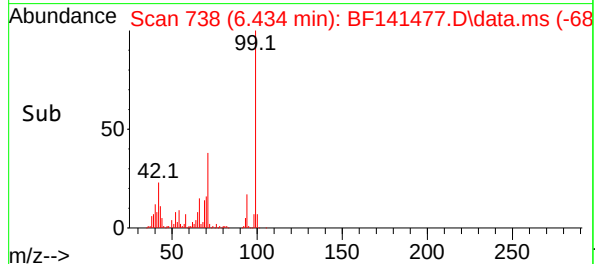
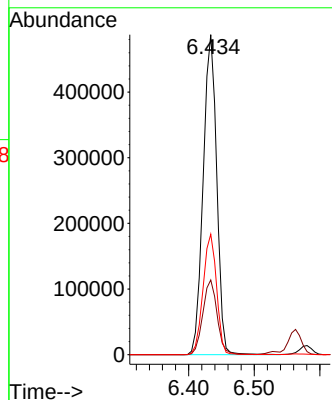
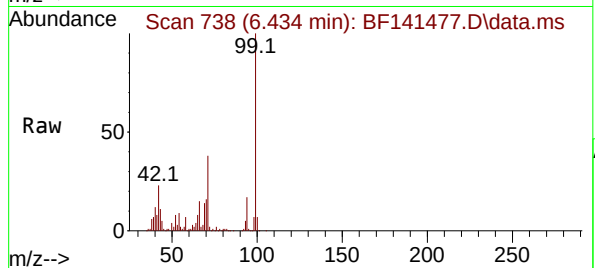




#7
Phenol-d6
Concen: 99.168 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

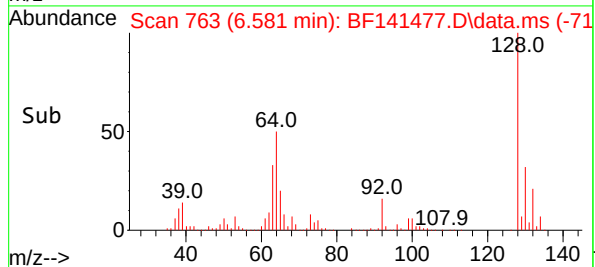
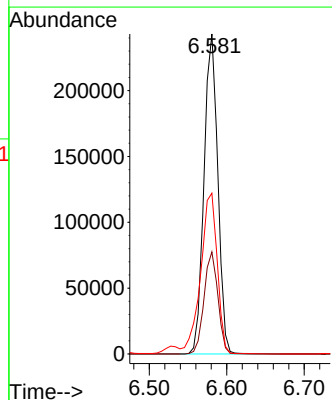
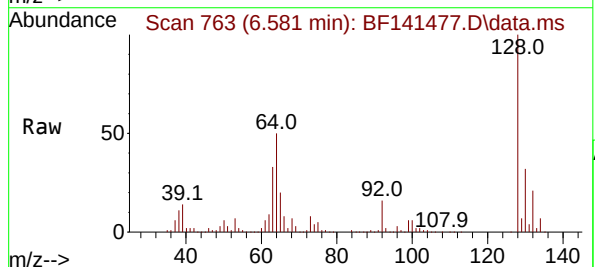
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ClientSampleId :
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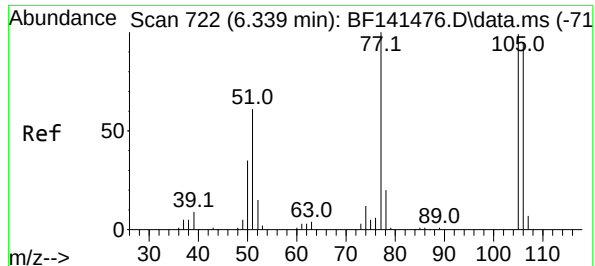
Tgt Ion: 99 Resp: 702435
Ion Ratio Lower Upper
99 100
42 23.4 19.1 28.7
71 37.6 31.1 46.7



#8
2-Chlorophenol
Concen: 49.604 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 128 Resp: 300380
Ion Ratio Lower Upper
128 100
130 31.9 12.7 52.7
64 50.3 28.3 68.3

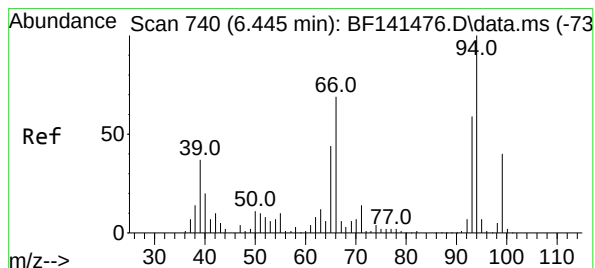
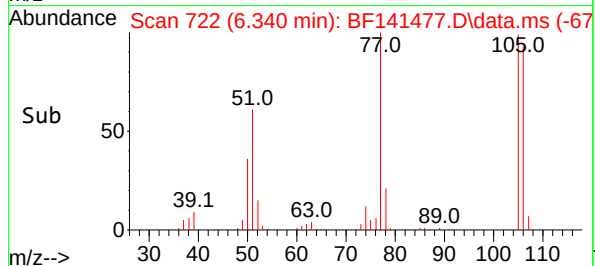
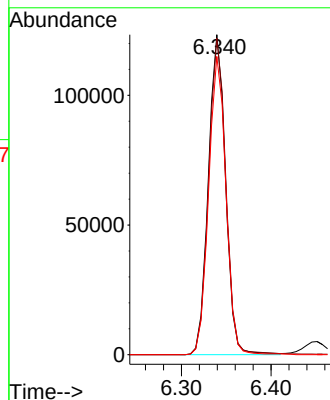
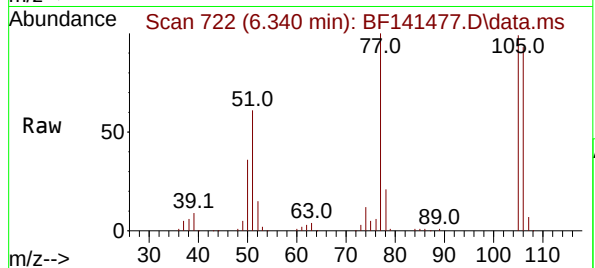




#9
Benzaldehyde
Concen: 43.605 ng
RT: 6.340 min Scan# 71
Delta R.T. 0.001 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

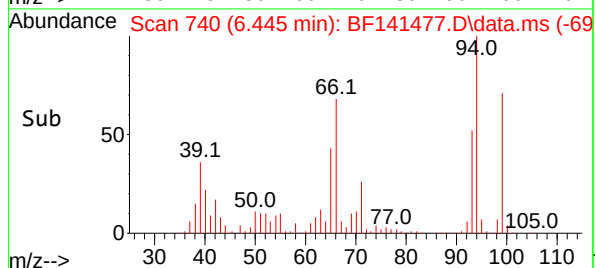
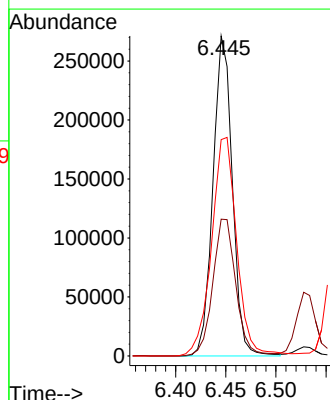
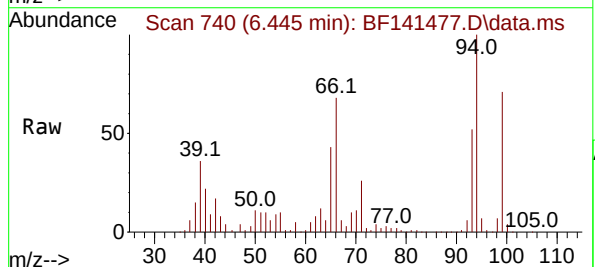
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

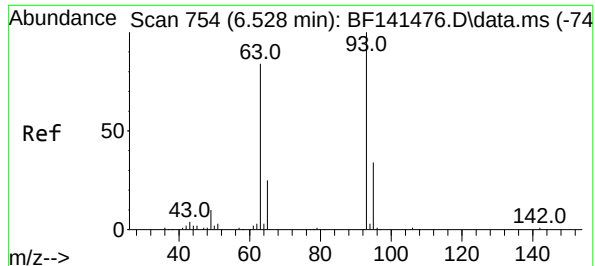
Tgt Ion: 77 Resp: 164133
Ion Ratio Lower Upper
77 100
105 98.9 79.4 119.4
106 93.2 75.1 115.1



#10
Phenol
Concen: 49.425 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 94 Resp: 364380
Ion Ratio Lower Upper
94 100
65 42.8 23.7 63.7
66 67.6 49.3 89.3

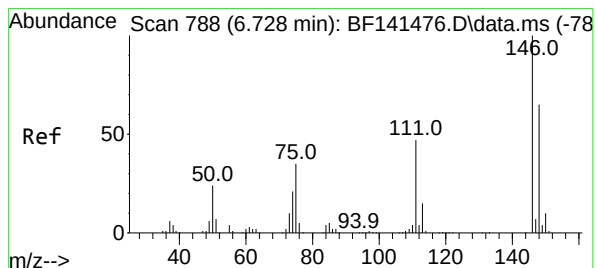
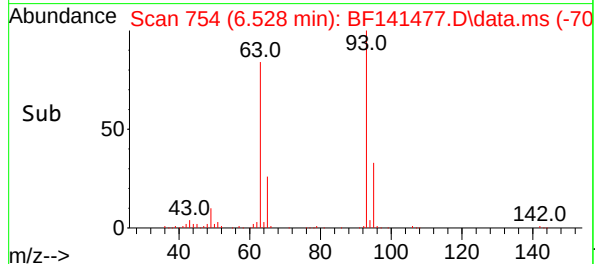
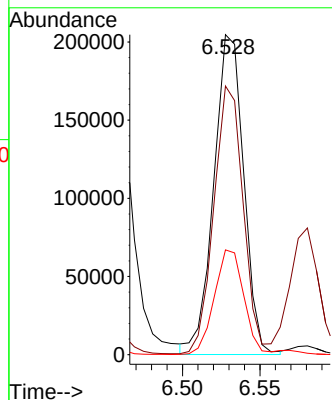
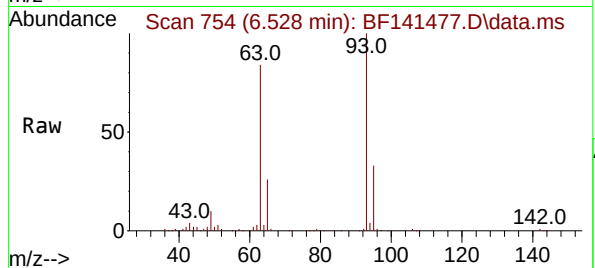




#11
bis(2-Chloroethyl)ether
Concen: 49.643 ng
RT: 6.528 min Scan# 754
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

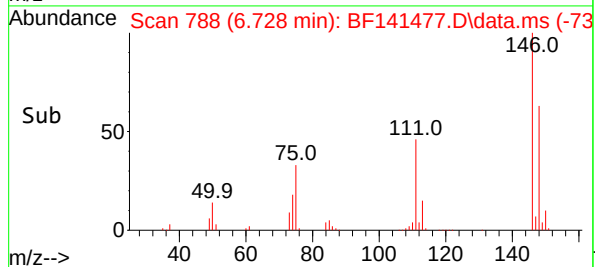
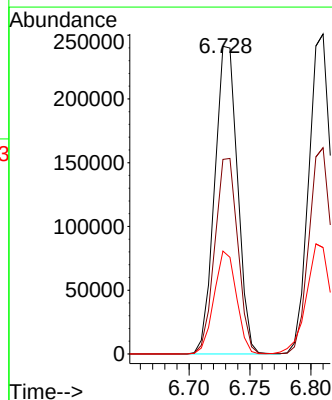
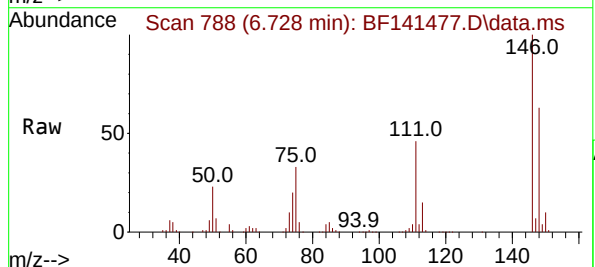
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

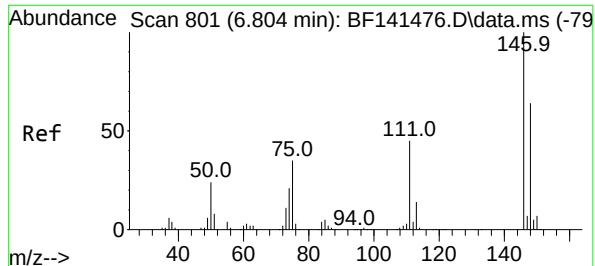
Tgt Ion: 93 Resp: 274892
Ion Ratio Lower Upper
93 100
63 83.9 62.0 102.0
95 32.8 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 49.506 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 146 Resp: 316493
Ion Ratio Lower Upper
146 100
148 63.2 51.9 77.9
75 33.4 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 49.264 ng

RT: 6.810 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

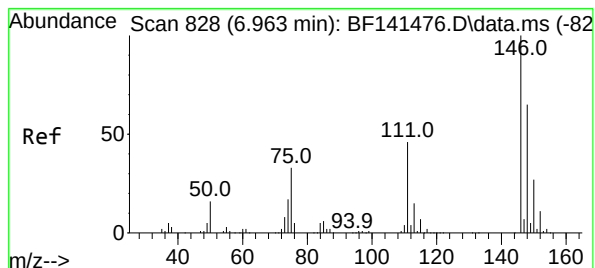
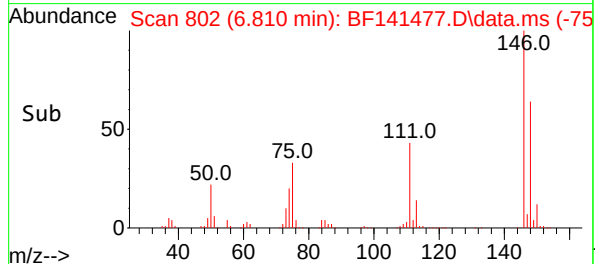
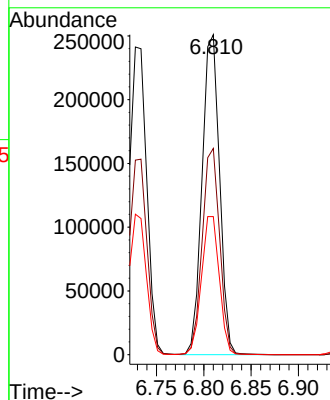
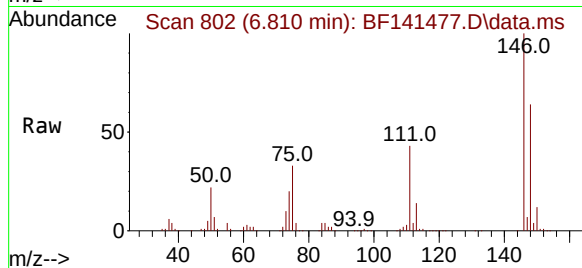
Tgt Ion:146 Resp: 321786

Ion Ratio Lower Upper

146 100

148 64.5 50.9 76.3

111 43.1 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 48.964 ng

RT: 6.963 min Scan# 828

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

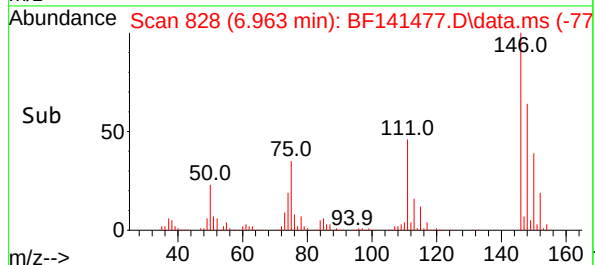
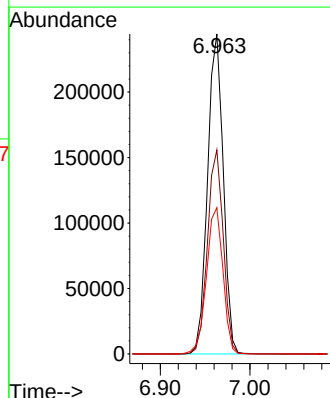
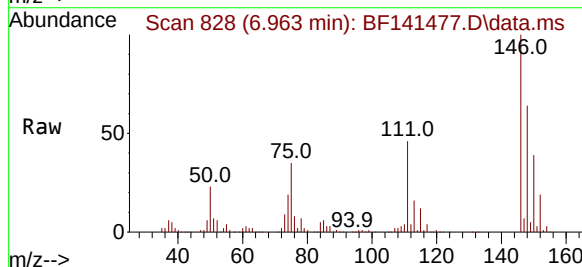
Tgt Ion:146 Resp: 296834

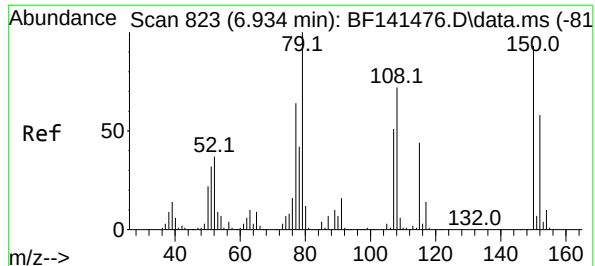
Ion Ratio Lower Upper

146 100

148 63.8 51.8 77.6

111 45.7 37.0 55.4

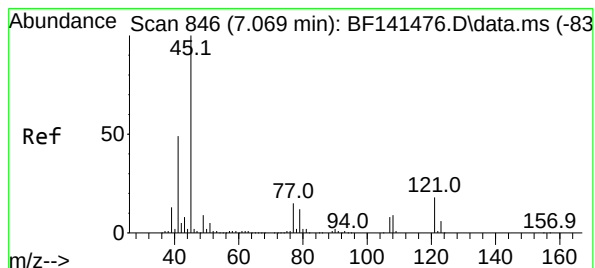
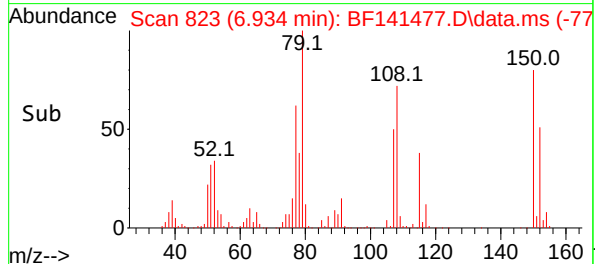
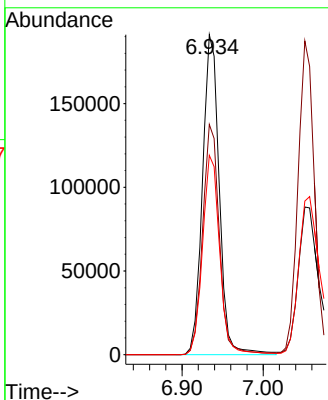
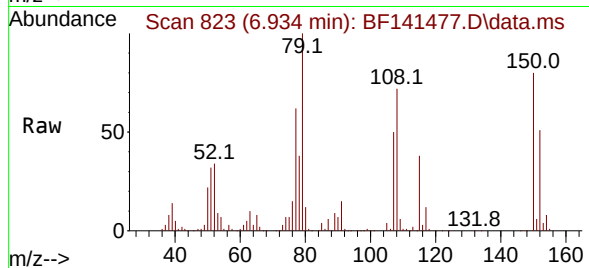




#15
Benzyl Alcohol
Concen: 50.451 ng
RT: 6.934 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

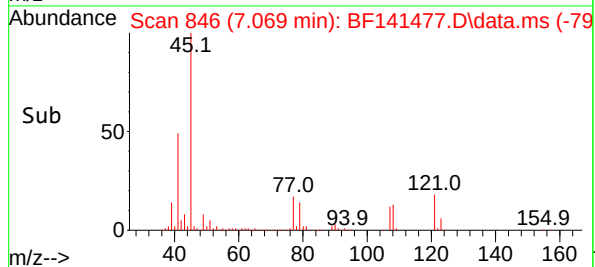
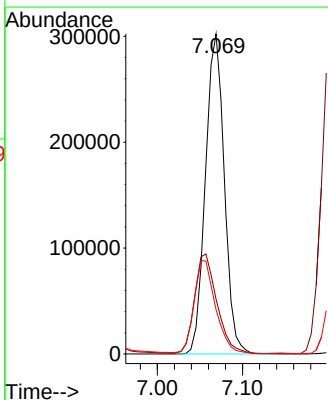
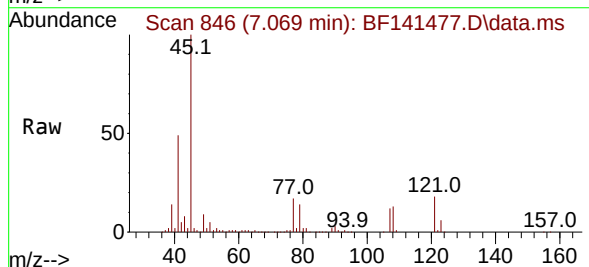
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

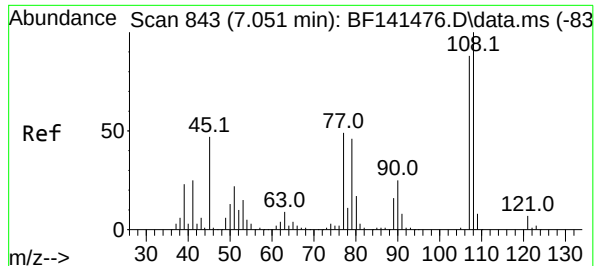
Tgt Ion: 79 Resp: 274040
Ion Ratio Lower Upper
79 100
108 71.9 57.4 86.2
77 62.3 50.9 76.3



#16
2,2'-oxybis(1-chloropropane)
Concen: 49.091 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 45 Resp: 465332
Ion Ratio Lower Upper
45 100
77 17.2 0.0 35.8
79 13.9 0.0 32.7

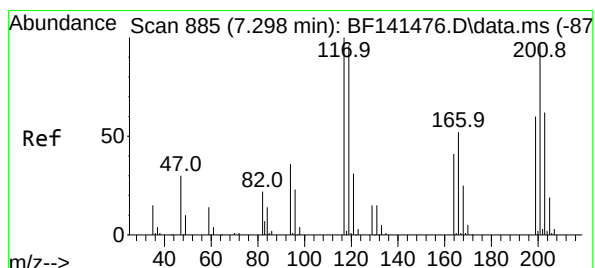
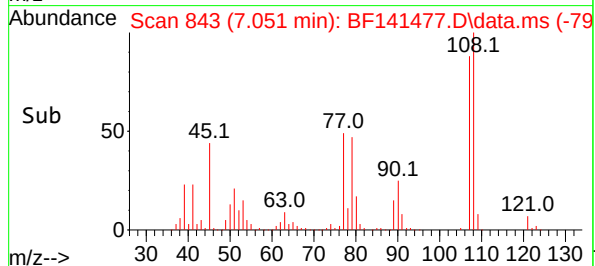
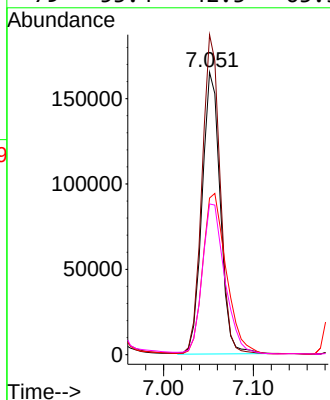
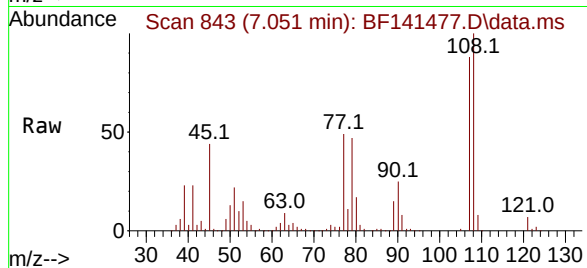




#17
2-Methylphenol
Concen: 49.081 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

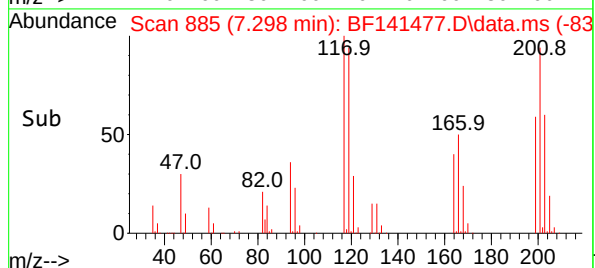
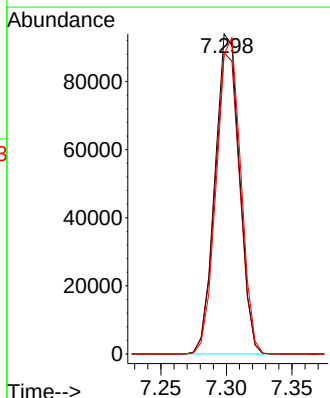
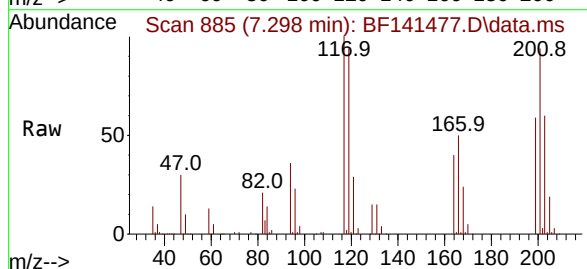
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

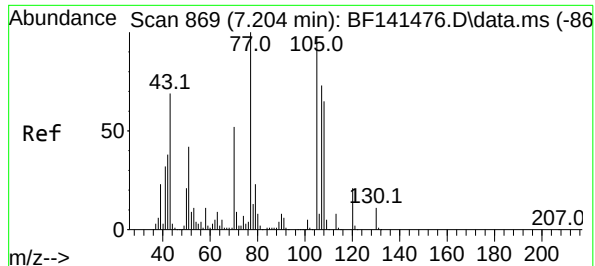
Tgt Ion:107 Resp: 232571
Ion Ratio Lower Upper
107 100
108 113.3 90.6 136.0
77 55.4 44.4 66.6
79 53.4 42.3 63.5



#18
Hexachloroethane
Concen: 50.498 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:117 Resp: 122071
Ion Ratio Lower Upper
117 100
119 94.2 76.5 114.7
201 93.8 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 49.072 ng

RT: 7.210 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141477.D

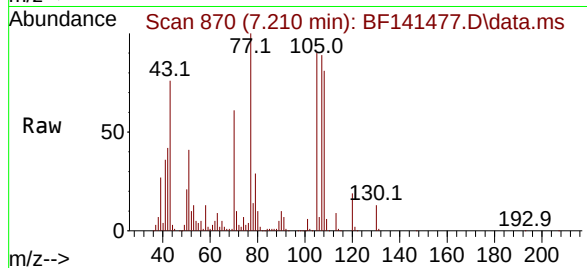
Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDIC050



Tgt Ion: 70 Resp: 207915

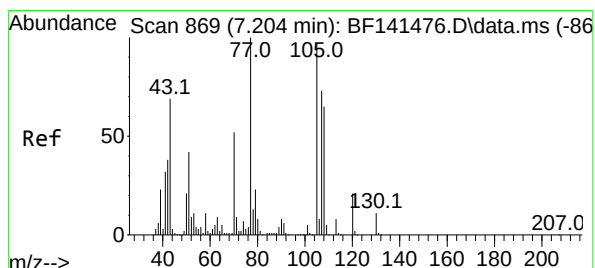
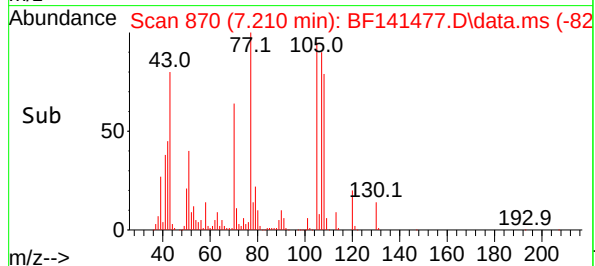
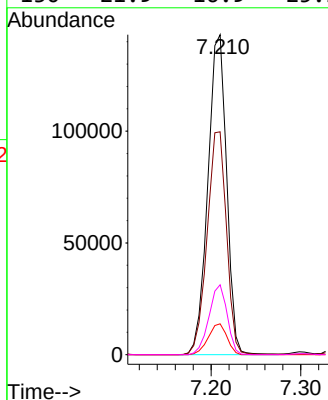
Ion Ratio Lower Upper

70 100

42 69.6 57.4 86.2

101 9.6 8.0 12.0

130 21.9 16.9 25.3



#20

3+4-Methylphenols

Concen: 49.011 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Tgt Ion: 107 Resp: 295179

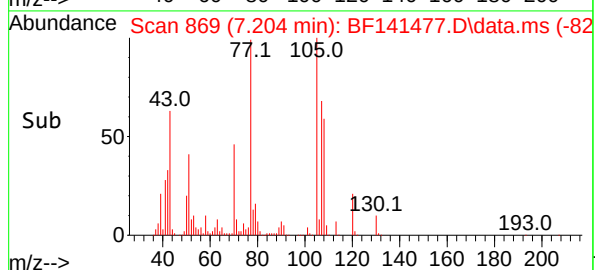
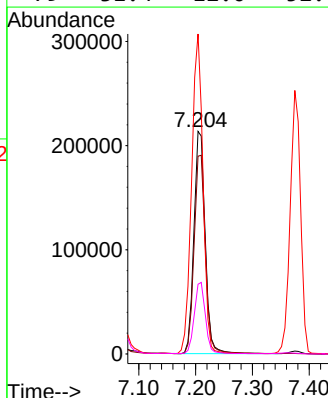
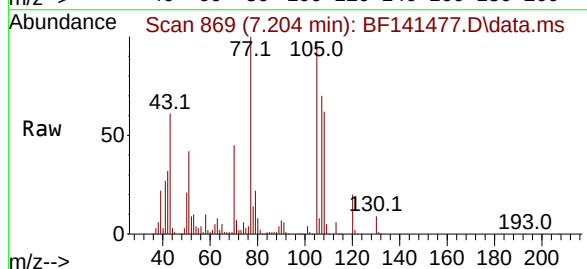
Ion Ratio Lower Upper

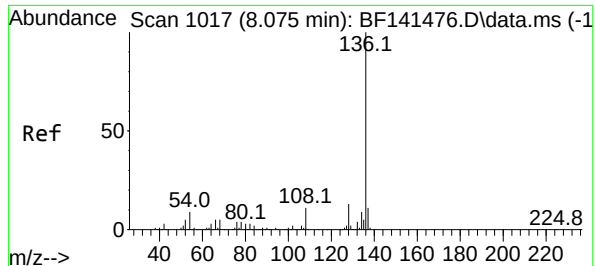
107 100

108 88.9 68.5 108.5

77 143.8 116.5 156.5

79 31.4 12.0 52.0

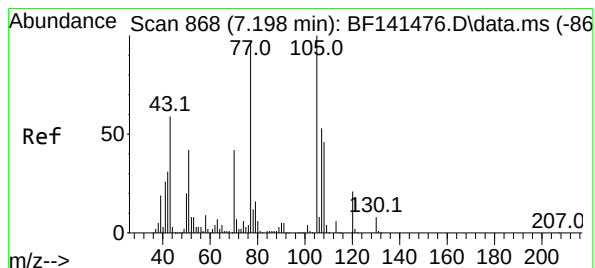
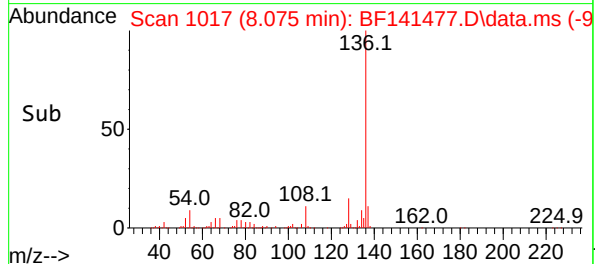
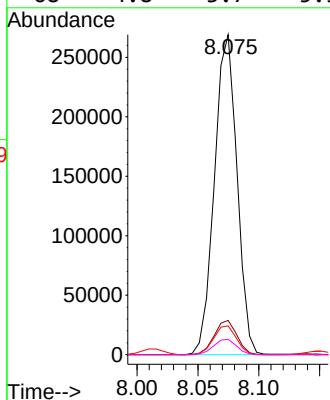
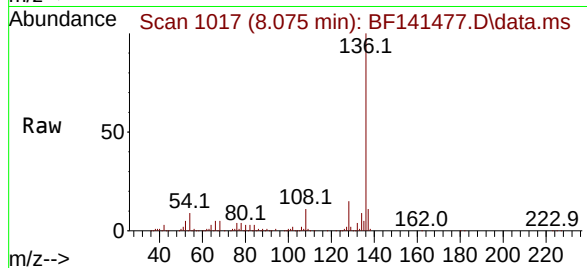




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

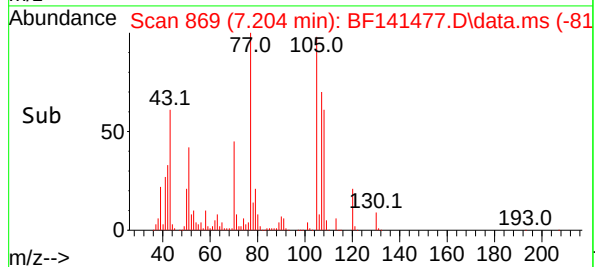
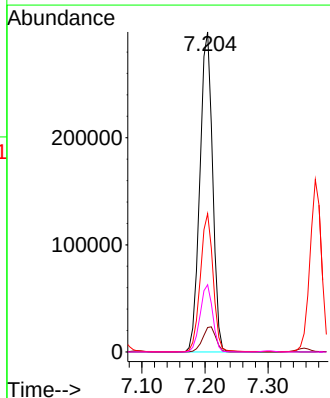
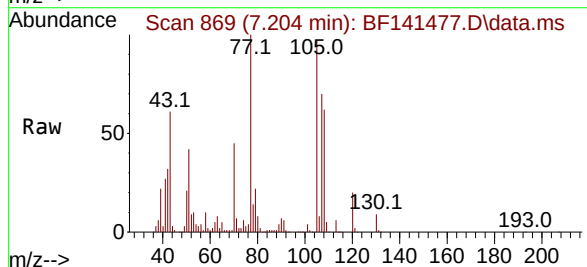
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

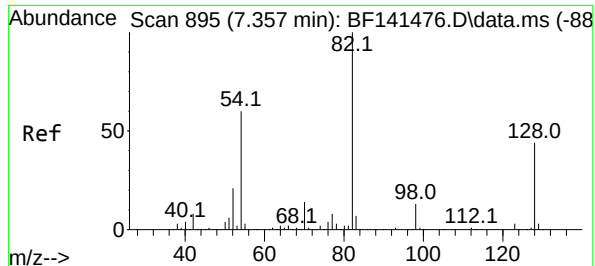
Tgt Ion:136 Resp: 347298
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 9.0 7.2 10.8
68 4.8 3.7 5.5



#22
Acetophenone
Concen: 48.588 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:105 Resp: 419759
Ion Ratio Lower Upper
105 100
71 7.7 5.7 8.5
51 43.2 33.7 50.5
120 21.0 17.0 25.6





#23

Nitrobenzene-d5

Concen: 98.686 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

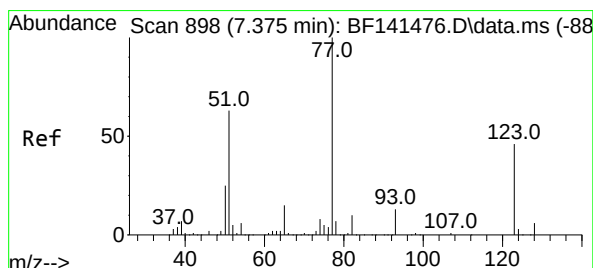
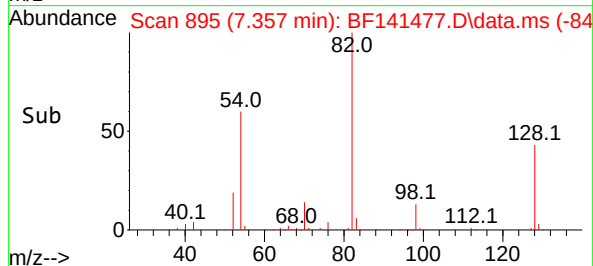
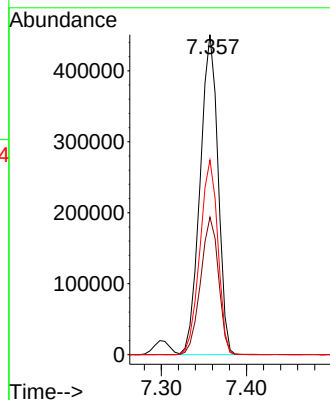
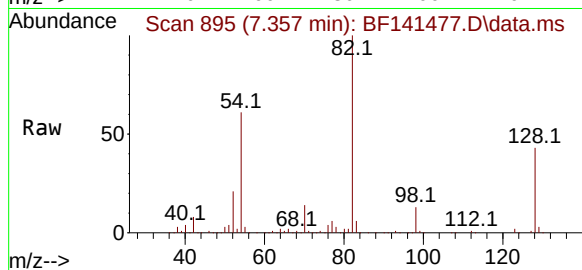
Tgt Ion: 82 Resp: 657106

Ion Ratio Lower Upper

82 100

128 42.9 34.8 52.2

54 60.9 48.2 72.4



#24

Nitrobenzene

Concen: 49.308 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

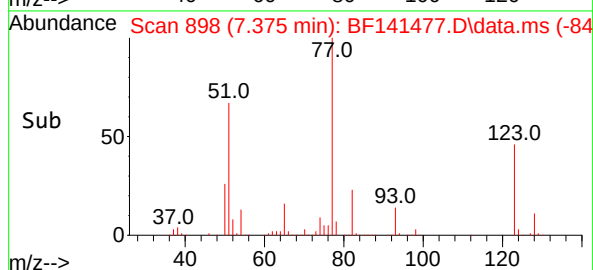
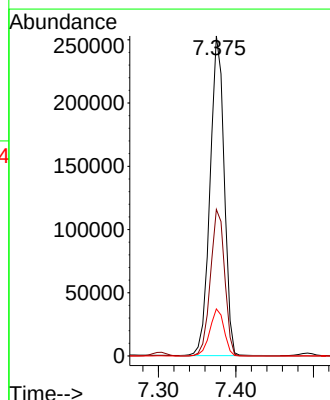
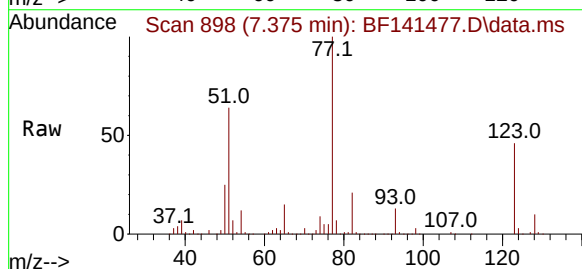
Tgt Ion: 77 Resp: 320155

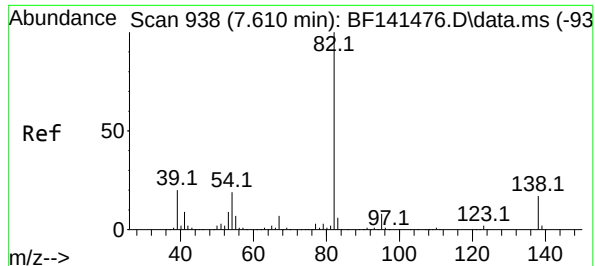
Ion Ratio Lower Upper

77 100

123 45.8 36.9 55.3

65 14.7 11.9 17.9

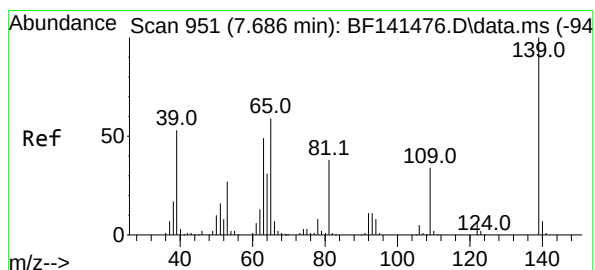
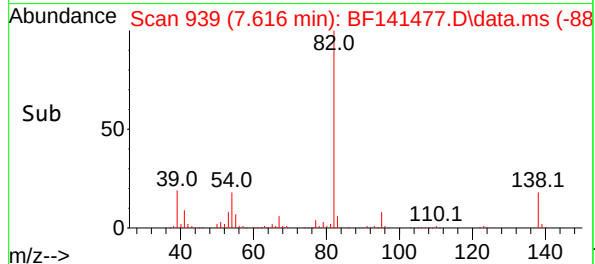
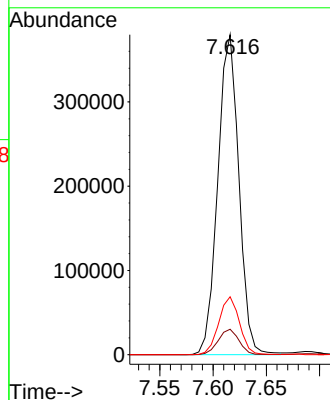
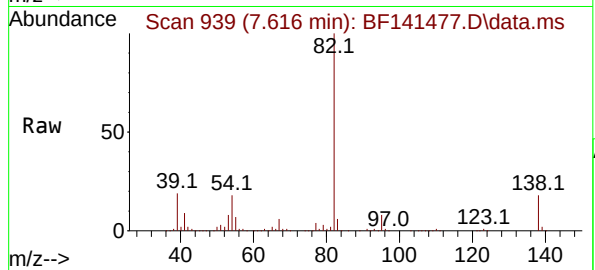




#25
Isophorone
Concen: 49.123 ng
RT: 7.616 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

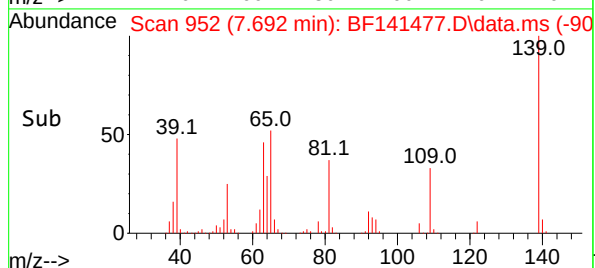
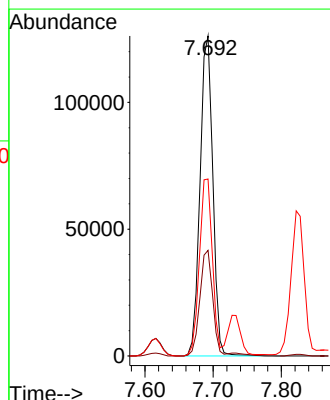
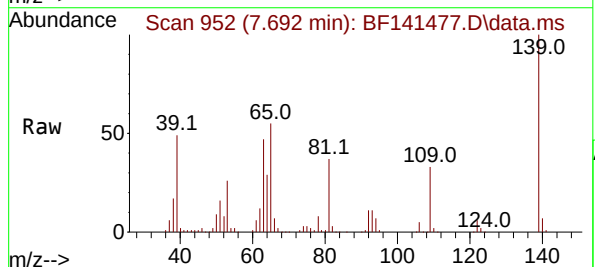
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

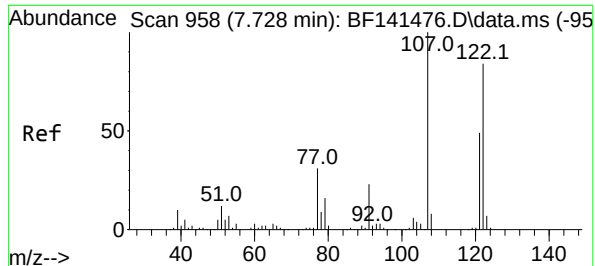
Tgt Ion: 82 Resp: 521533
Ion Ratio Lower Upper
82 100
95 8.0 6.4 9.6
138 18.1 13.9 20.9



#26
2-Nitrophenol
Concen: 50.962 ng
RT: 7.692 min Scan# 952
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:139 Resp: 164623
Ion Ratio Lower Upper
139 100
109 33.0 27.0 40.6
65 55.3 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 50.093 ng

RT: 7.734 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

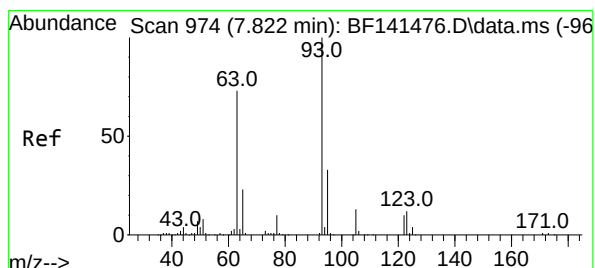
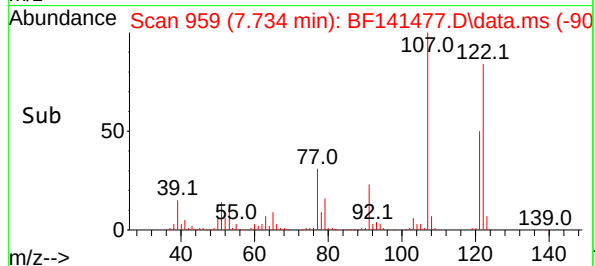
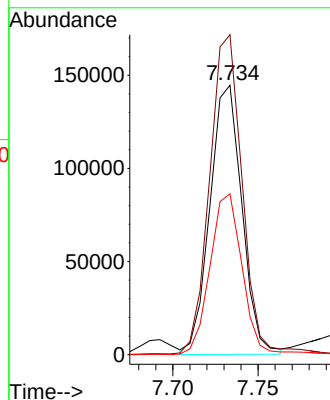
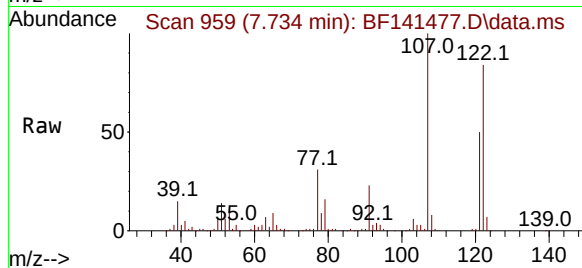
Tgt Ion:122 Resp: 189037

Ion Ratio Lower Upper

122 100

107 118.8 94.3 141.5

121 59.7 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 49.430 ng

RT: 7.822 min Scan# 974

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

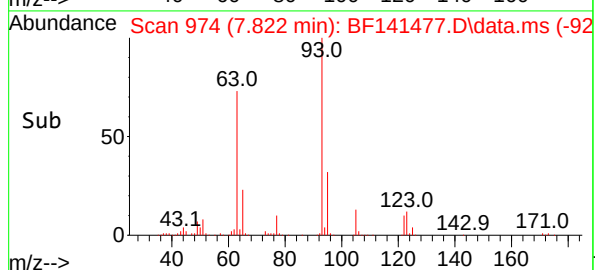
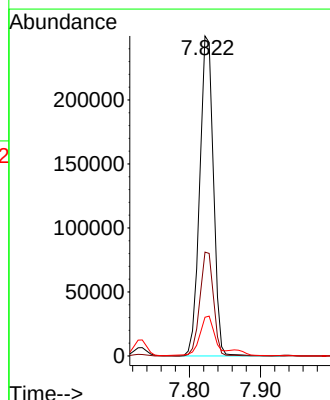
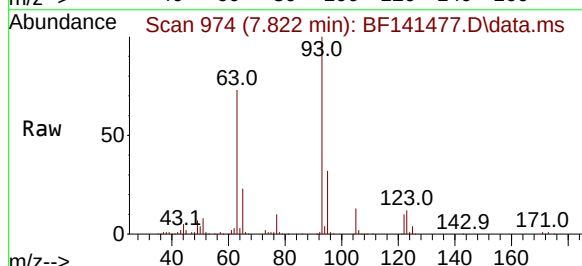
Tgt Ion: 93 Resp: 336274

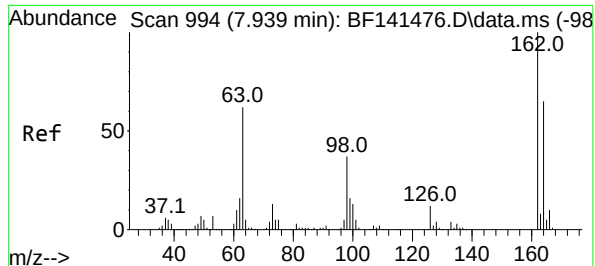
Ion Ratio Lower Upper

93 100

95 32.5 26.1 39.1

123 12.1 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 49.328 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

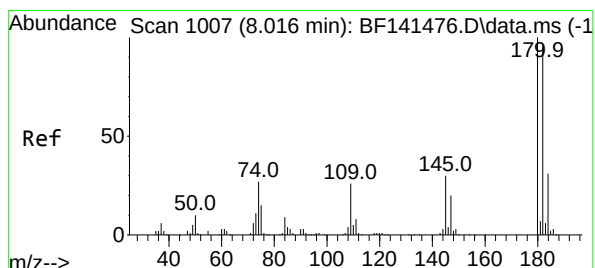
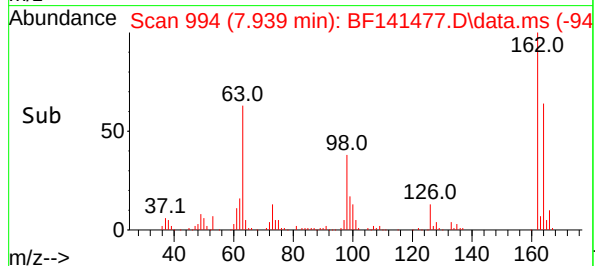
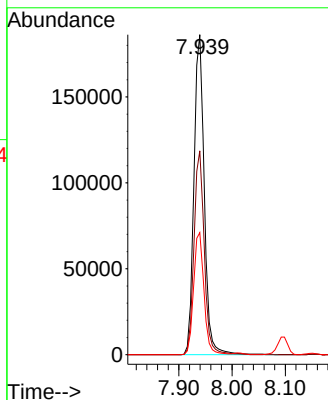
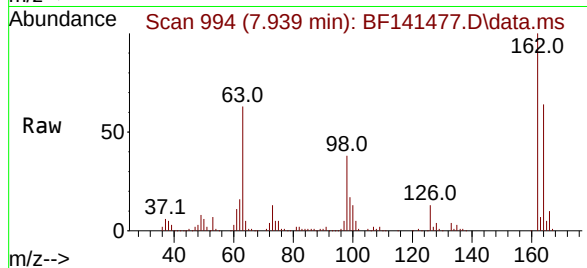
Tgt Ion:162 Resp: 251518

Ion Ratio Lower Upper

162 100

164 63.7 44.6 84.6

98 38.1 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 48.788 ng

RT: 8.016 min Scan# 1007

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

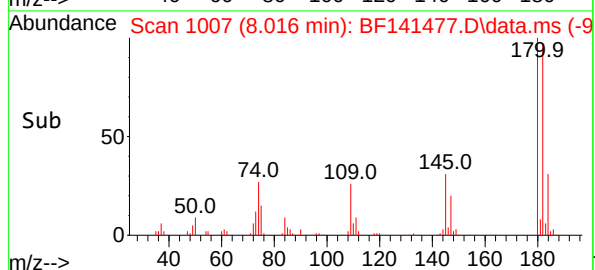
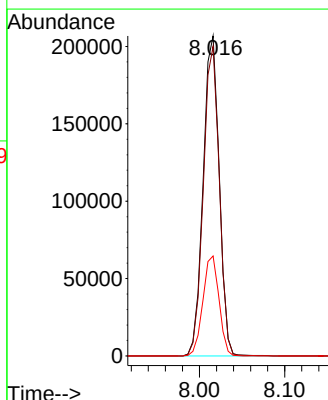
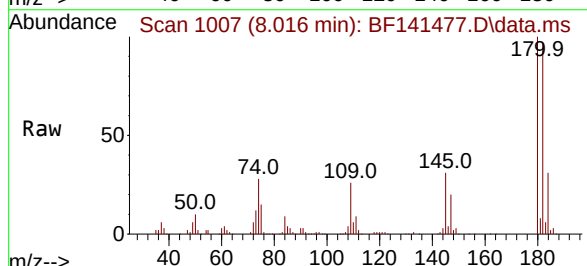
Tgt Ion:180 Resp: 270897

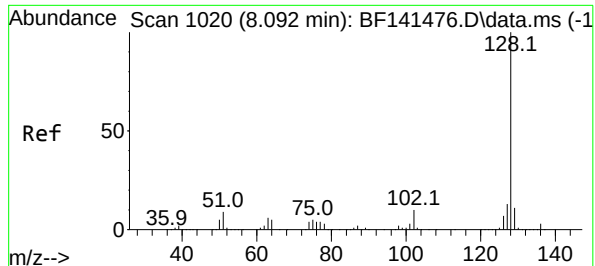
Ion Ratio Lower Upper

180 100

182 96.8 76.8 115.2

145 31.3 24.2 36.4

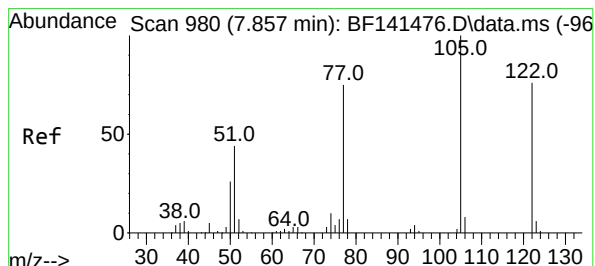
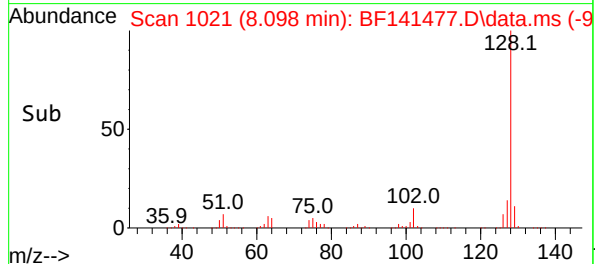
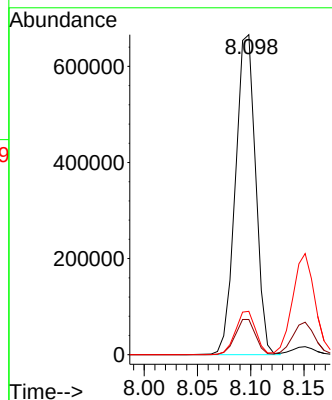
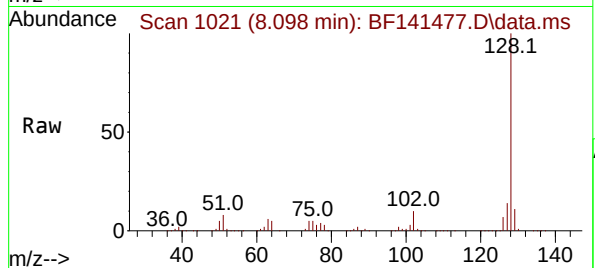




#31
Naphthalene
Concen: 48.605 ng
RT: 8.098 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

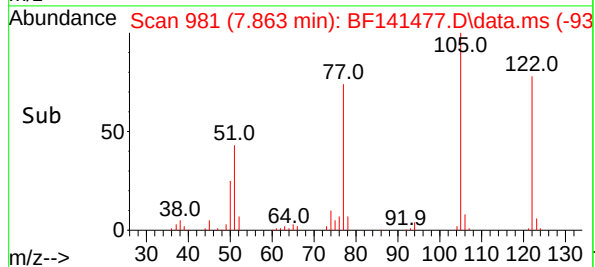
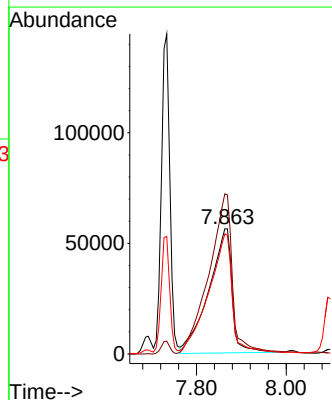
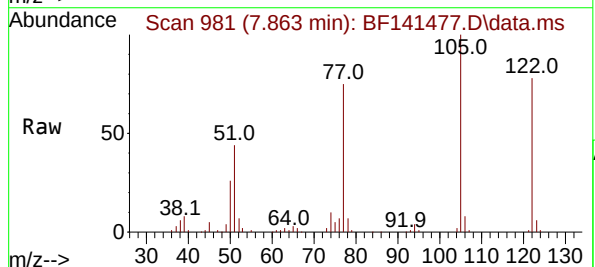
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

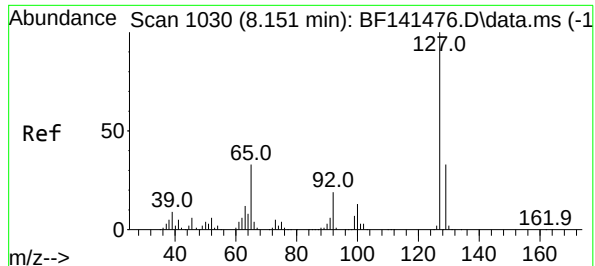
Tgt Ion:128 Resp: 878692
Ion Ratio Lower Upper
128 100
129 11.0 8.9 13.3
127 13.6 10.7 16.1



#32
Benzoic acid
Concen: 51.719 ng
RT: 7.863 min Scan# 981
Delta R.T. -0.029 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:122 Resp: 202728
Ion Ratio Lower Upper
122 100
105 128.0 106.5 146.5
77 96.0 76.3 116.3

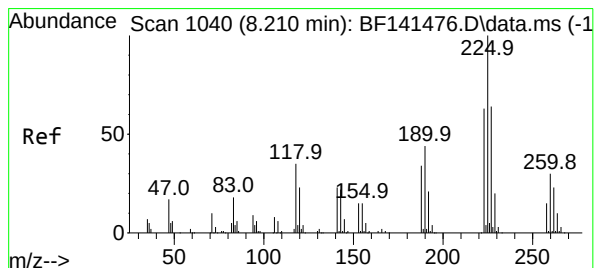
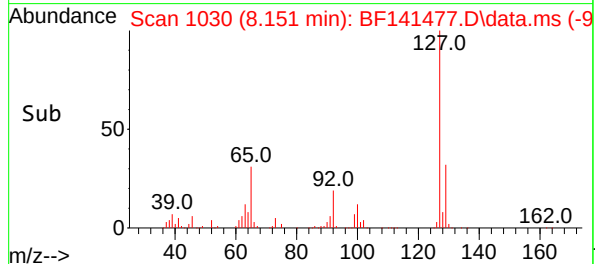
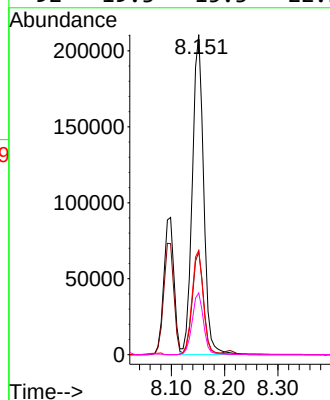
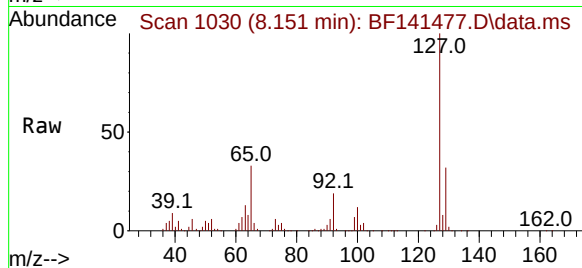




#33
4-Chloroaniline
Concen: 49.471 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

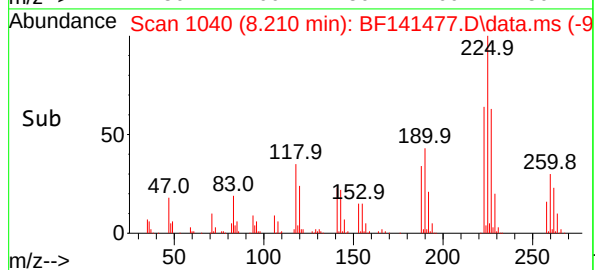
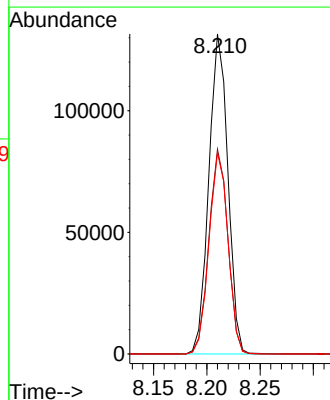
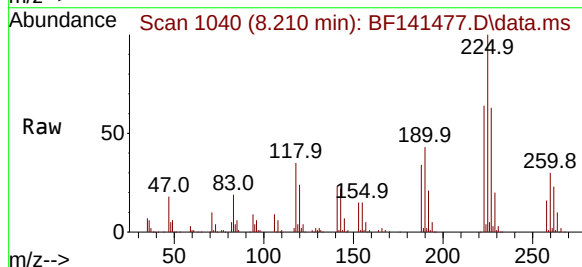
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

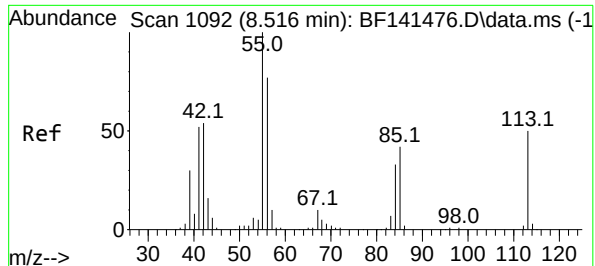
Tgt Ion:127	Resp: 312251
Ion Ratio	Lower Upper
127	100
129	32.2 26.5 39.7
65	32.6 26.4 39.6
92	19.3 15.3 22.9



#34
Hexachlorobutadiene
Concen: 48.971 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:225	Resp: 163240
Ion Ratio	Lower Upper
225	100
223	63.9 50.1 75.1
227	62.8 51.0 76.6

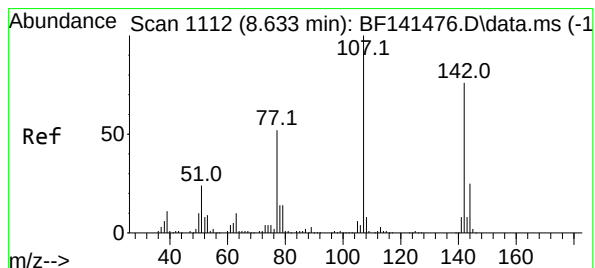
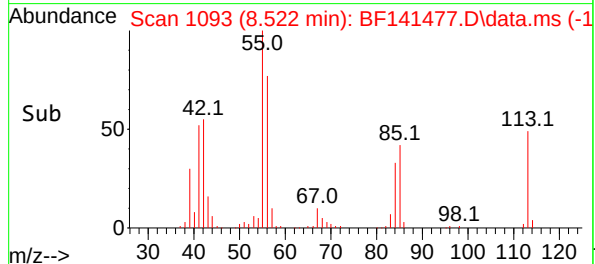
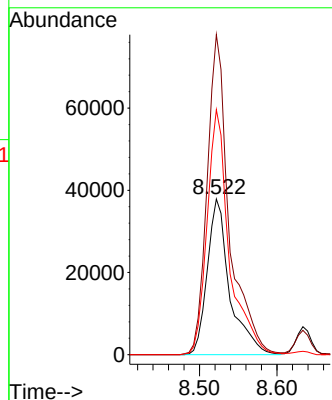
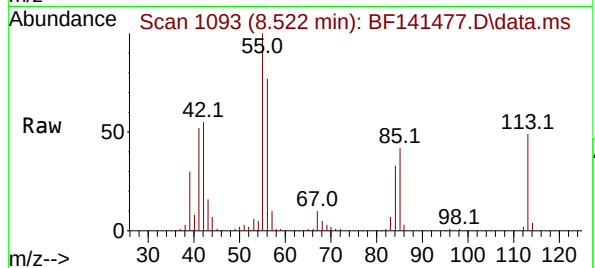




#35
Caprolactam
Concen: 49.180 ng
RT: 8.522 min Scan# 1093
Delta R.T. -0.023 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

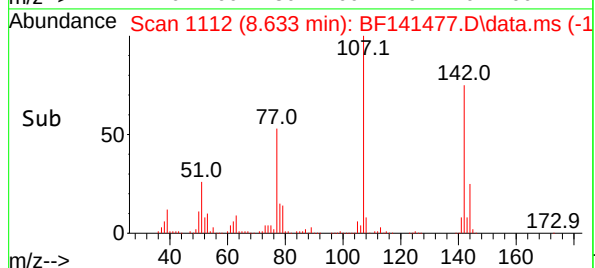
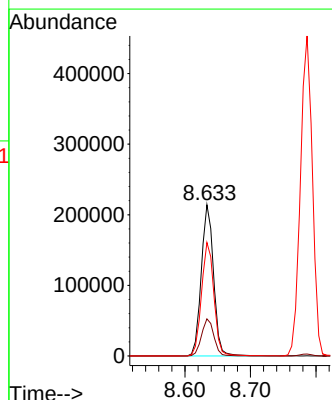
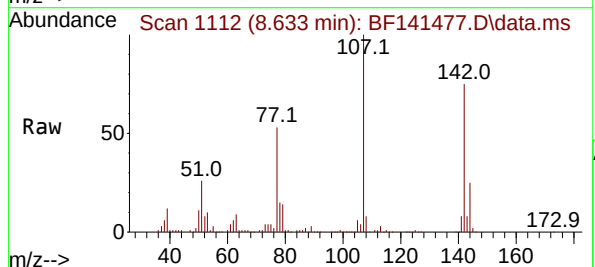
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

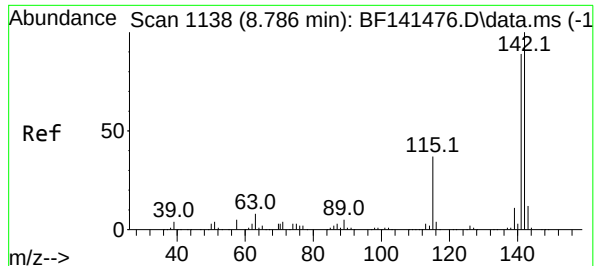
Tgt Ion:113 Resp: 76350
Ion Ratio Lower Upper
113 100
55 205.6 180.8 220.8
56 157.4 133.6 173.6



#36
4-Chloro-3-methylphenol
Concen: 49.736 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:107 Resp: 280911
Ion Ratio Lower Upper
107 100
144 24.5 19.7 29.5
142 75.0 60.8 91.2

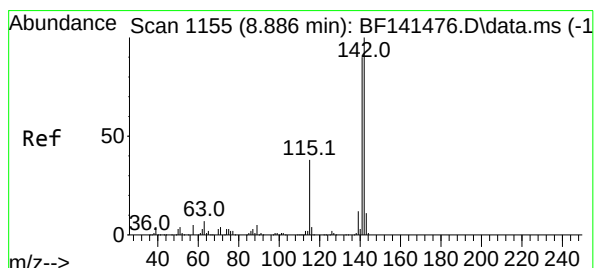
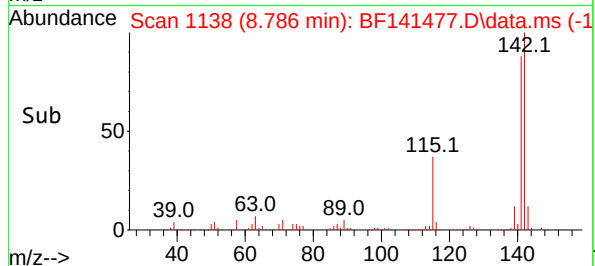
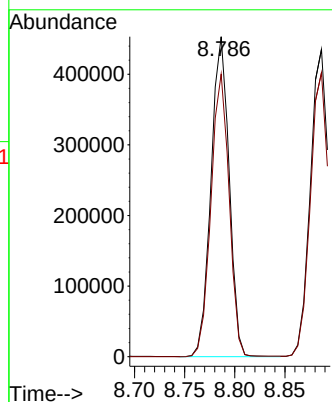
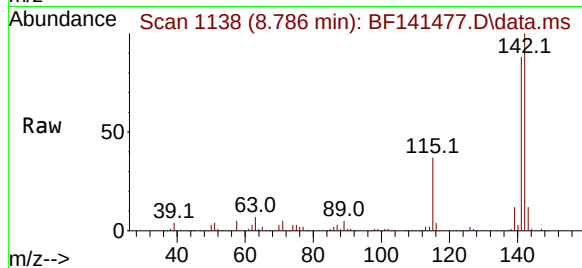




#37
2-Methylnaphthalene
Concen: 48.643 ng
RT: 8.786 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

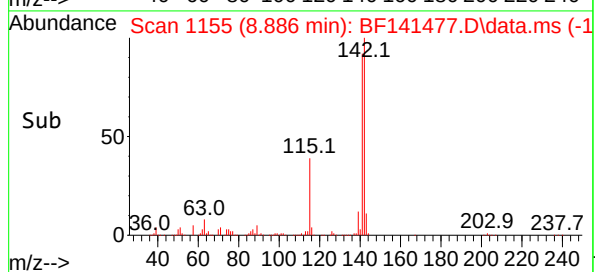
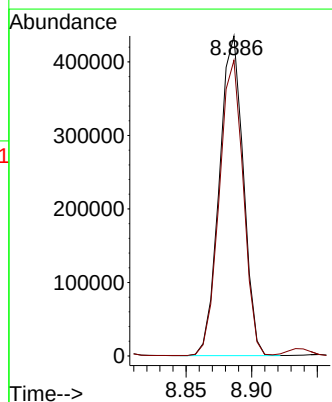
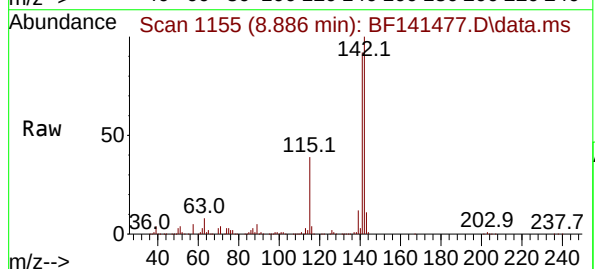
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

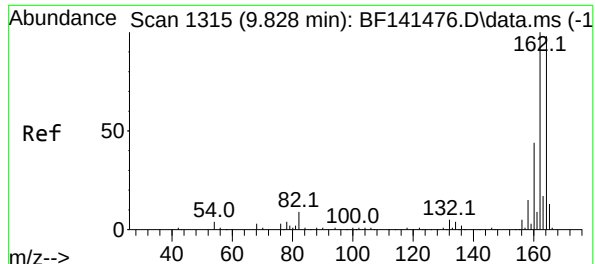
Tgt Ion:142 Resp: 572244
Ion Ratio Lower Upper
142 100
141 88.3 71.2 106.8



#38
1-Methylnaphthalene
Concen: 48.579 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:142 Resp: 553503
Ion Ratio Lower Upper
142 100
141 92.4 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1115

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

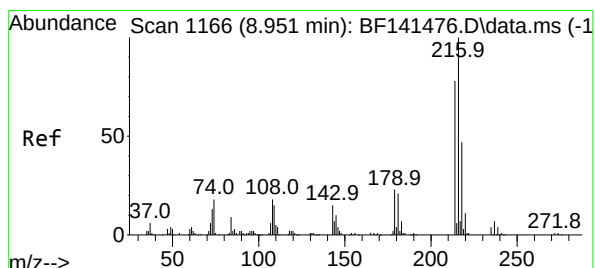
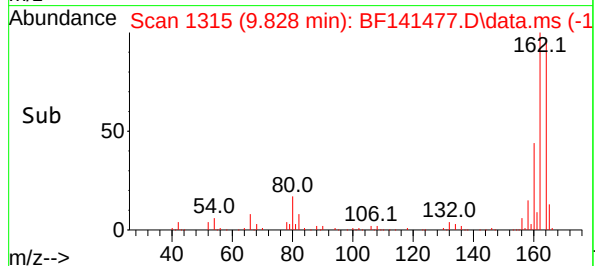
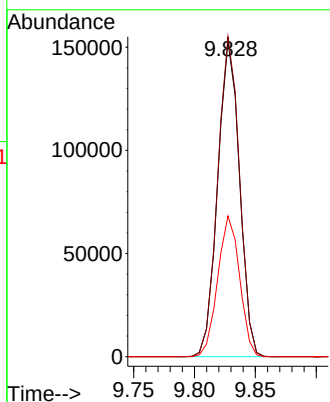
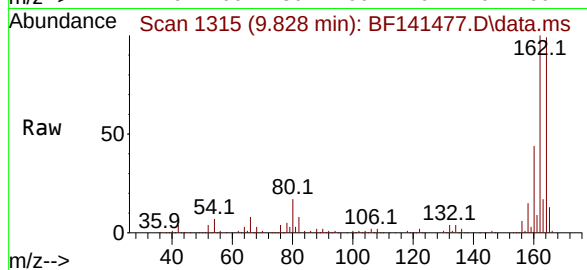
Tgt Ion:164 Resp: 190523

Ion Ratio Lower Upper

164 100

162 101.5 81.3 121.9

160 44.6 35.9 53.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 48.369 ng

RT: 8.951 min Scan# 1166

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Tgt Ion:216 Resp: 266614

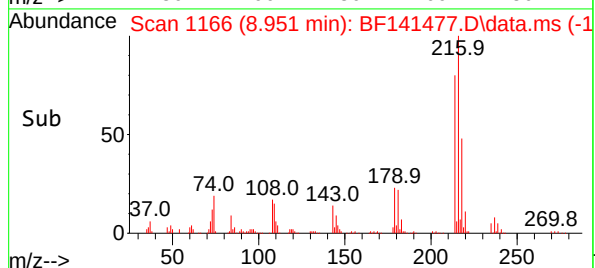
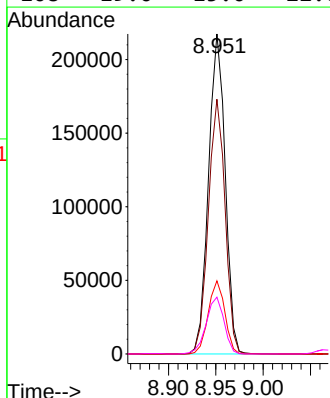
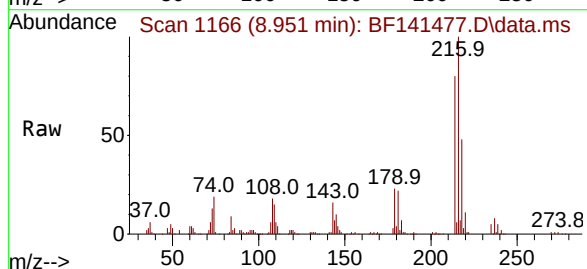
Ion Ratio Lower Upper

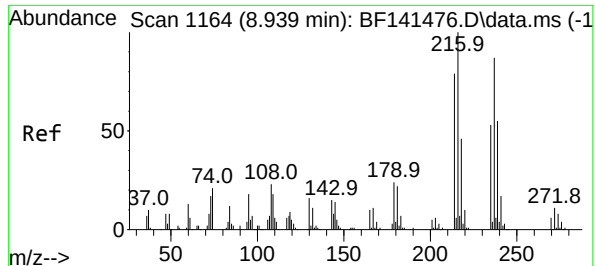
216 100

214 80.0 62.3 93.5

179 22.7 18.0 27.0

108 19.0 15.0 22.6

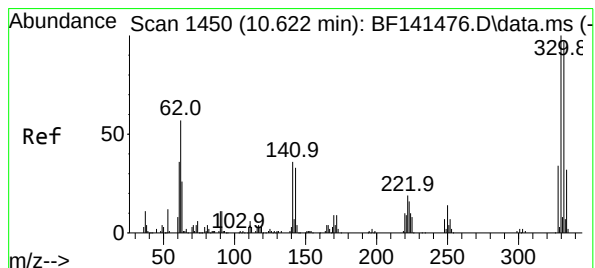
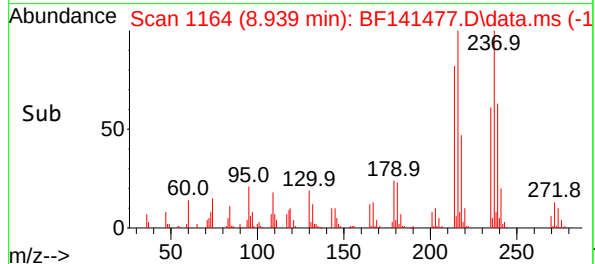
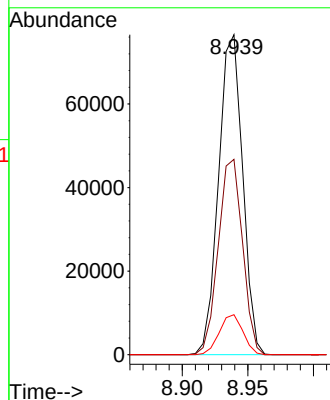
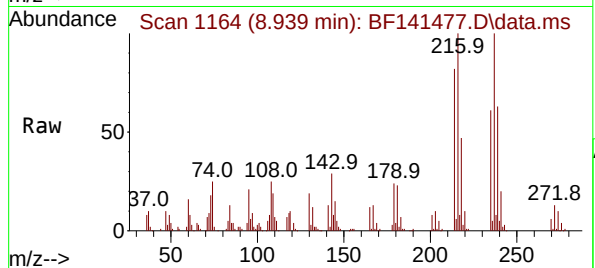




#41
Hexachlorocyclopentadiene
Concen: 53.276 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

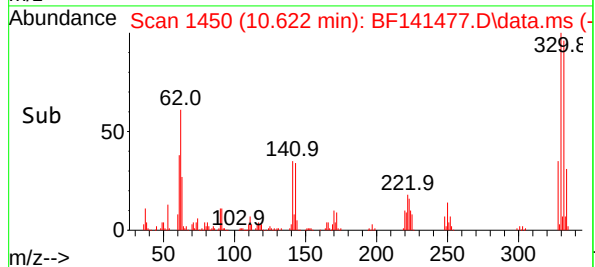
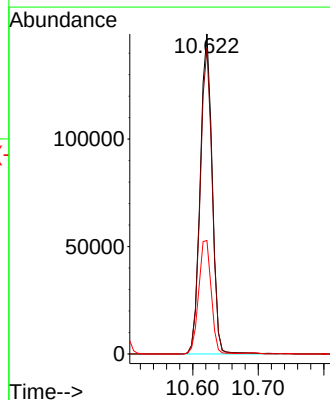
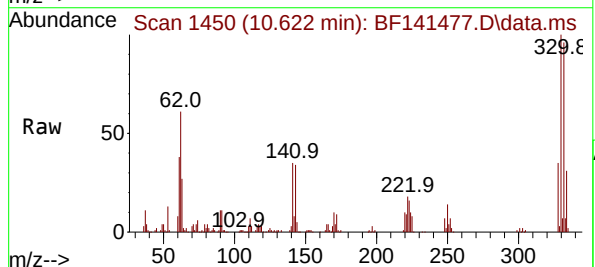
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

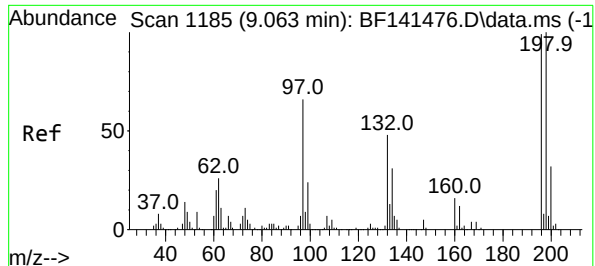
Tgt Ion:237 Resp: 97674
Ion Ratio Lower Upper
237 100
235 61.1 41.4 81.4
272 12.5 0.0 32.4



#42
2,4,6-Tribromophenol
Concen: 98.845 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:330 Resp: 189178
Ion Ratio Lower Upper
330 100
332 95.8 78.5 117.7
141 37.2 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 49.825 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

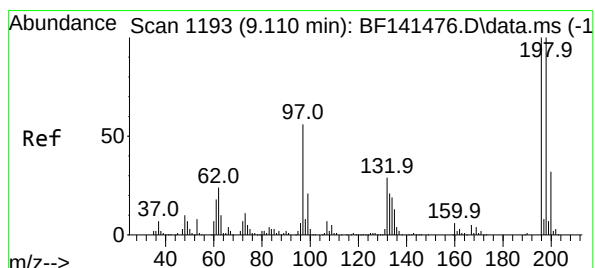
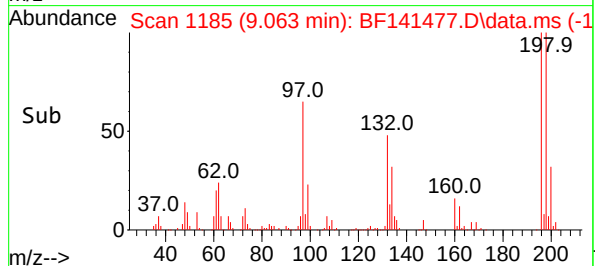
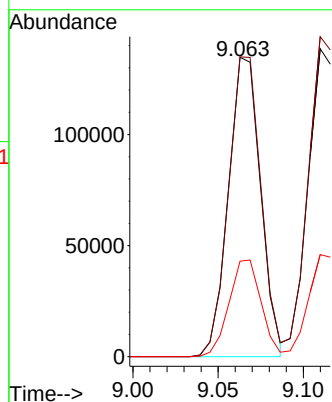
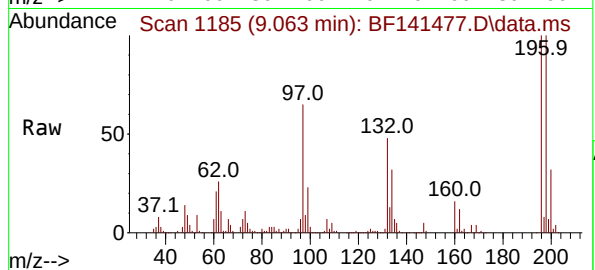
Tgt Ion:196 Resp: 177503

Ion Ratio Lower Upper

196 100

198 100.1 80.6 121.0

200 31.9 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 48.667 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Tgt Ion:196 Resp: 187902

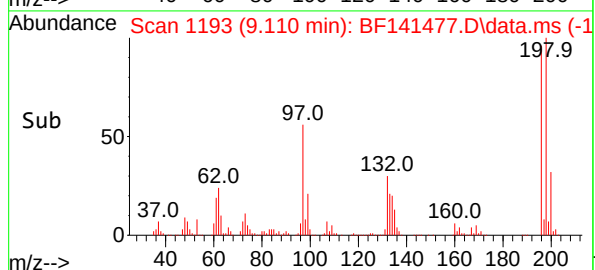
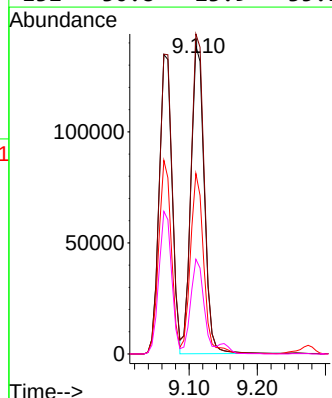
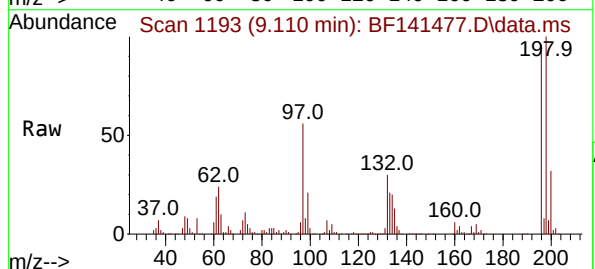
Ion Ratio Lower Upper

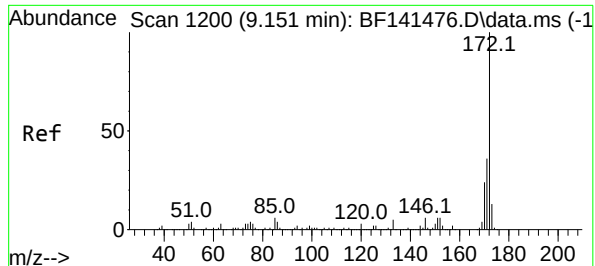
196 100

198 103.9 79.8 119.8

97 58.6 44.8 67.2

132 30.8 23.9 35.9

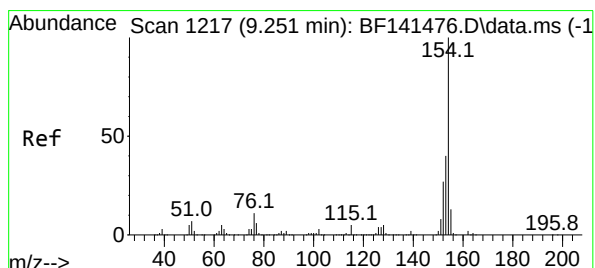
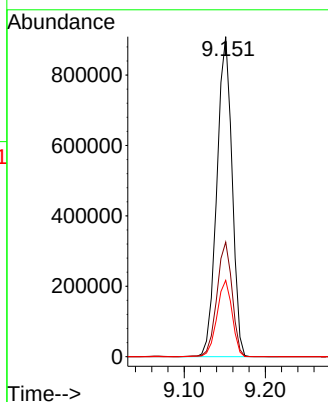
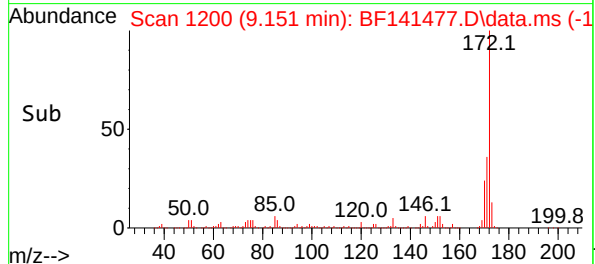
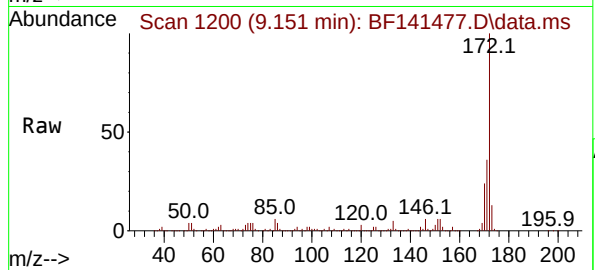




#45
2-Fluorobiphenyl
Concen: 95.605 ng
RT: 9.151 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

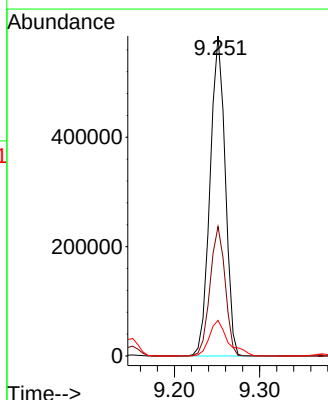
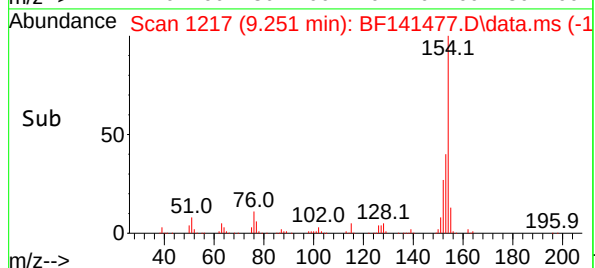
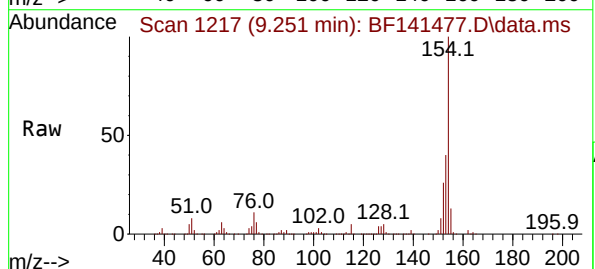
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

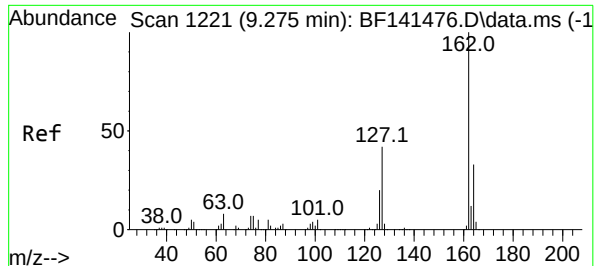
Tgt Ion:172 Resp: 1182292
Ion Ratio Lower Upper
172 100
171 35.8 28.7 43.1
170 23.8 18.9 28.3



#46
1,1'-Biphenyl
Concen: 48.905 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:154 Resp: 722373
Ion Ratio Lower Upper
154 100
153 40.4 20.4 60.4
76 11.1 0.0 30.8





#47

2-Chloronaphthalene

Concen: 48.576 ng

RT: 9.275 min Scan# 1221

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

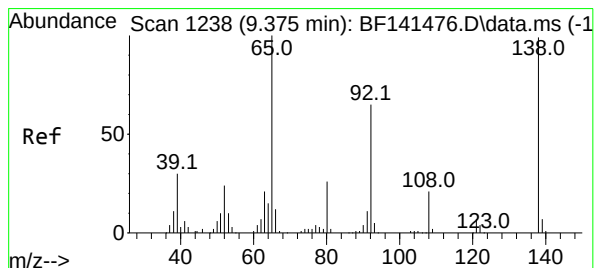
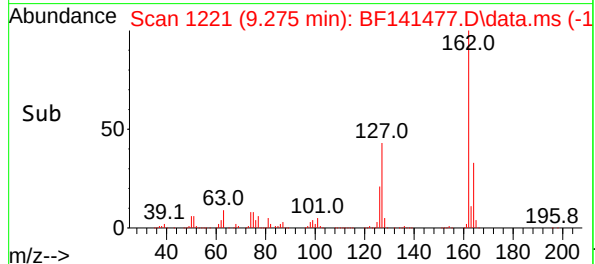
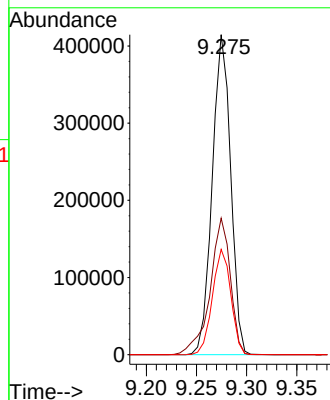
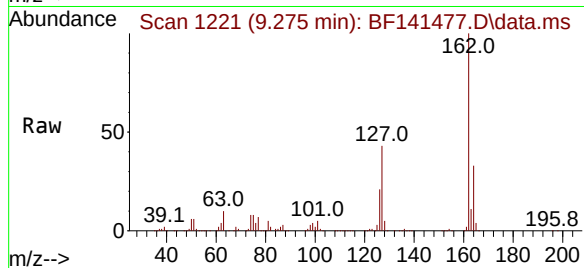
Tgt Ion:162 Resp: 530577

Ion Ratio Lower Upper

162 100

127 42.6 34.1 51.1

164 32.9 26.3 39.5



#48

2-Nitroaniline

Concen: 49.612 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

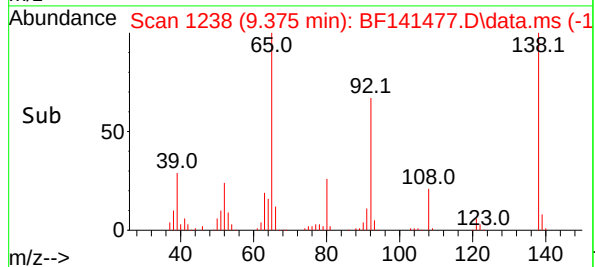
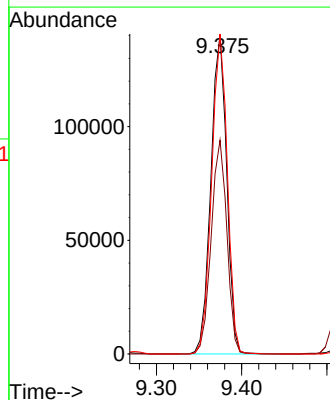
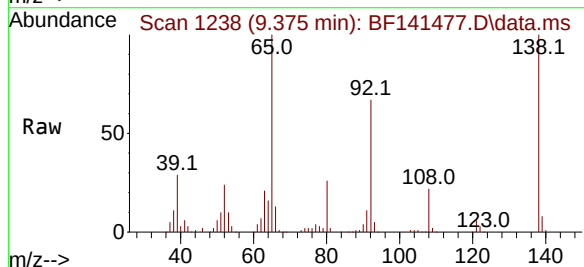
Tgt Ion: 65 Resp: 181860

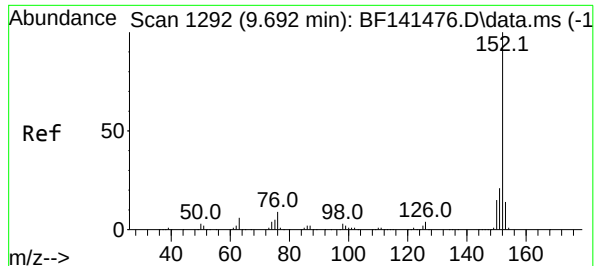
Ion Ratio Lower Upper

65 100

92 67.0 52.2 78.2

138 100.2 79.5 119.3





#49

Acenaphthylene

Concen: 48.672 ng

RT: 9.692 min Scan# 1292

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

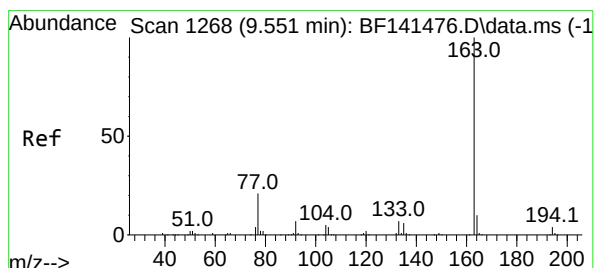
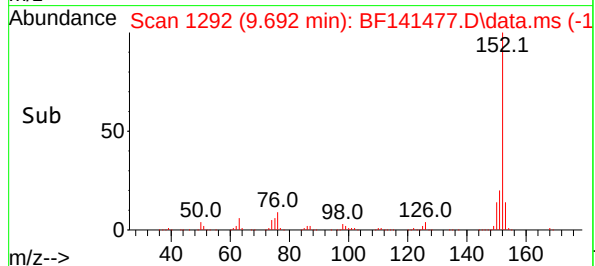
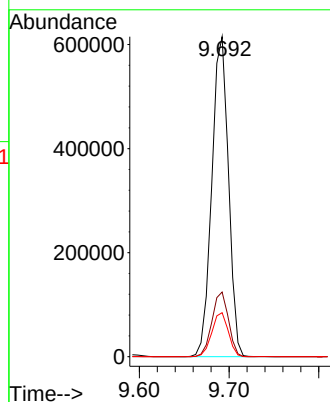
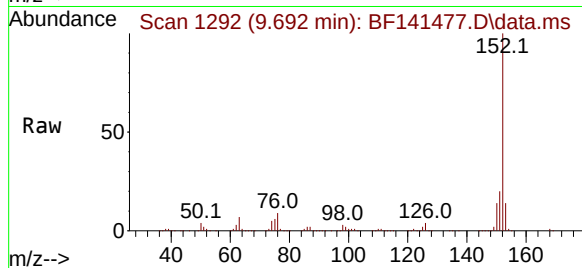
Tgt Ion:152 Resp: 790730

Ion Ratio Lower Upper

152 100

151 20.2 16.4 24.6

153 13.7 10.9 16.3



#50

Dimethylphthalate

Concen: 48.760 ng

RT: 9.557 min Scan# 1269

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

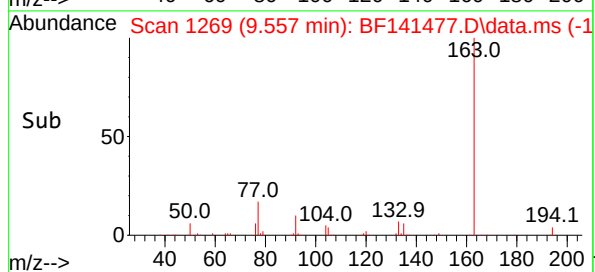
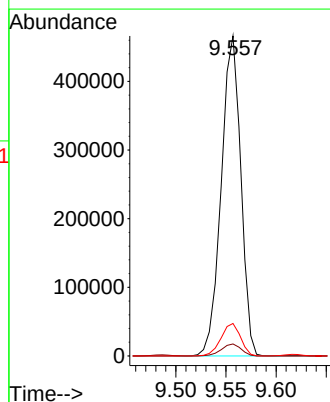
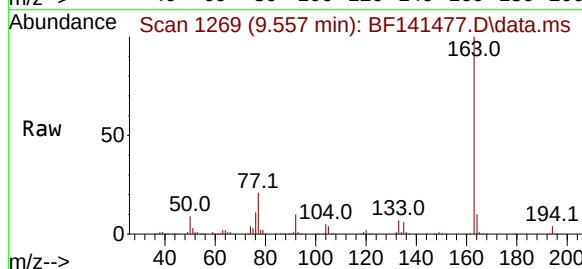
Tgt Ion:163 Resp: 630673

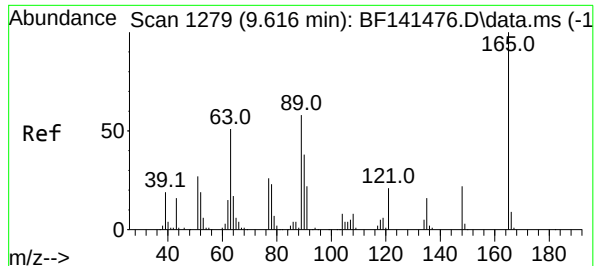
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

164 10.1 7.9 11.9





#51

2,6-Dinitrotoluene

Concen: 49.760 ng

RT: 9.616 min Scan# 1279

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

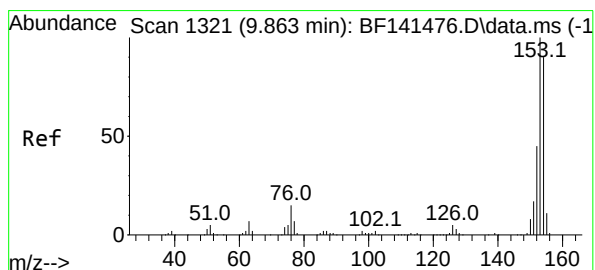
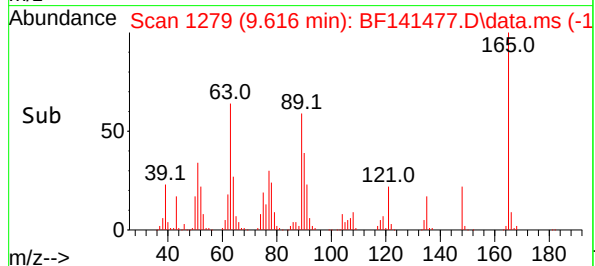
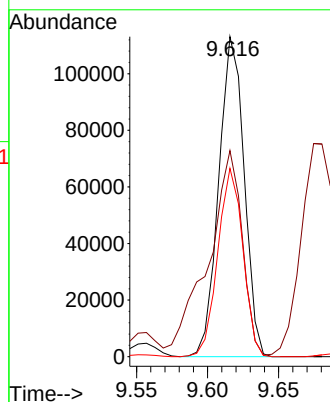
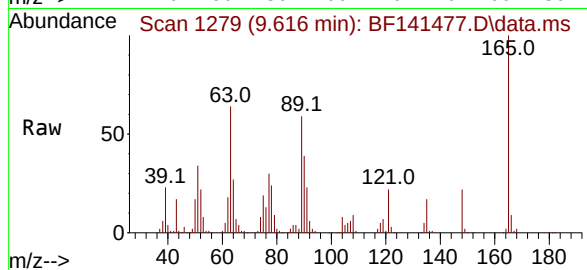
Tgt Ion:165 Resp: 140697

Ion Ratio Lower Upper

165 100

63 64.4 49.4 74.0

89 58.9 46.5 69.7



#52

Acenaphthene

Concen: 48.327 ng

RT: 9.863 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

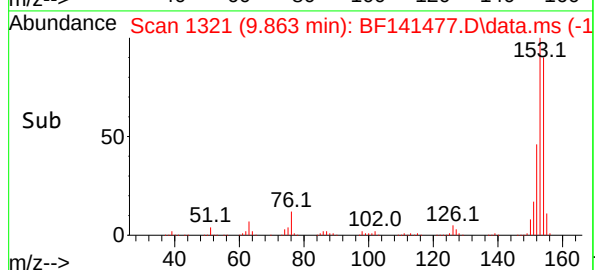
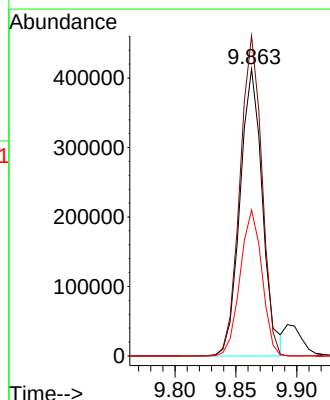
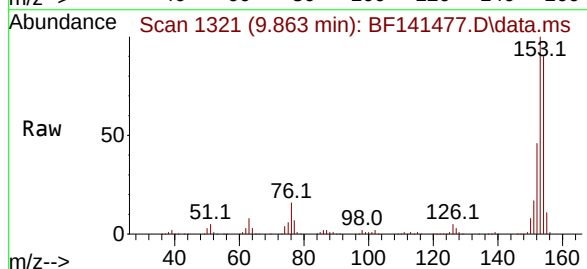
Tgt Ion:154 Resp: 527828

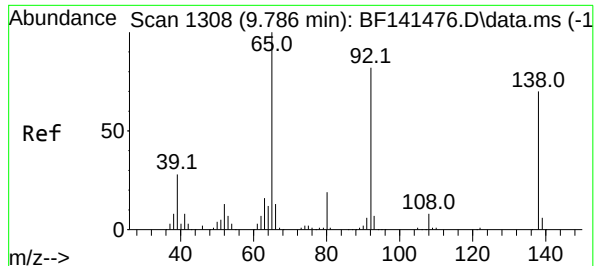
Ion Ratio Lower Upper

154 100

153 111.5 89.2 133.8

152 50.8 39.8 59.8





#53

3-Nitroaniline

Concen: 50.087 ng

RT: 9.786 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

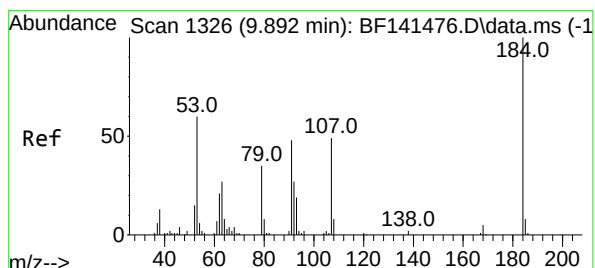
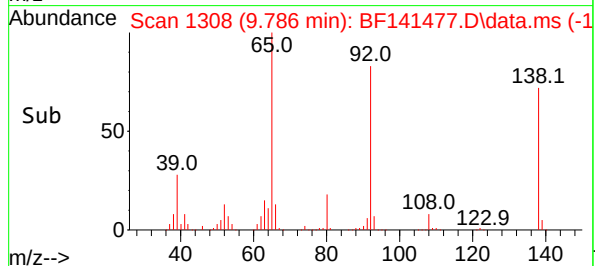
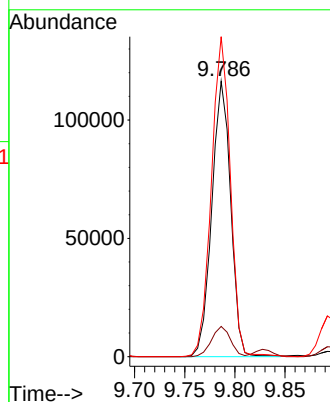
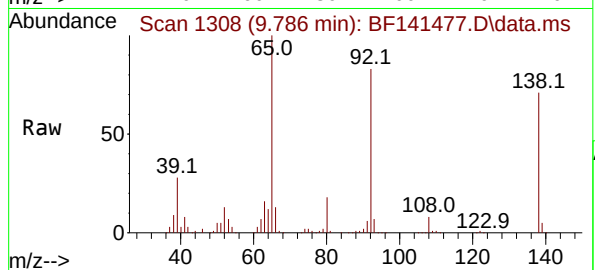
Tgt Ion:138 Resp: 152426

Ion Ratio Lower Upper

138 100

108 11.0 9.0 13.4

92 116.2 93.7 140.5



#54

2,4-Dinitrophenol

Concen: 52.339 ng

RT: 9.892 min Scan# 1326

Delta R.T. -0.012 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

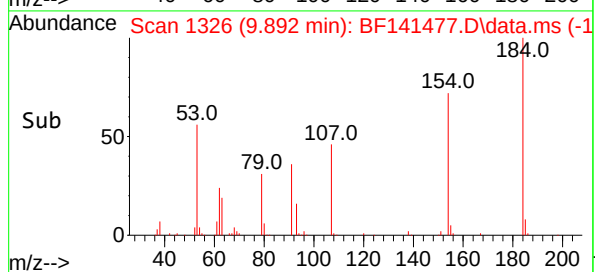
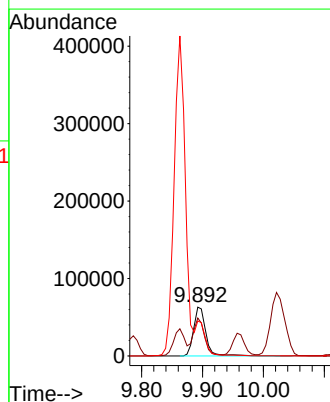
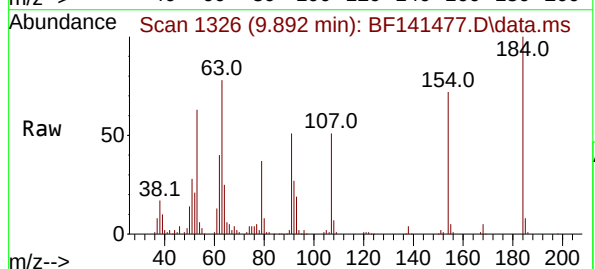
Tgt Ion:184 Resp: 87953

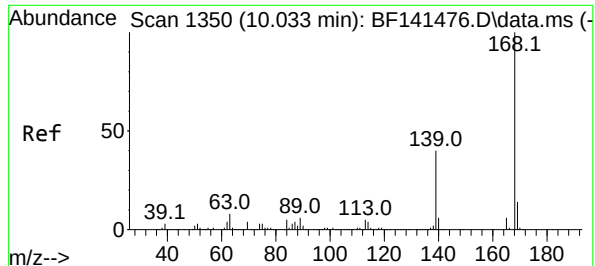
Ion Ratio Lower Upper

184 100

63 77.9 61.0 91.6

154 71.8 59.9 89.9





#55

Dibenzenofuran

Concen: 48.523 ng

RT: 10.033 min Scan# 1350

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

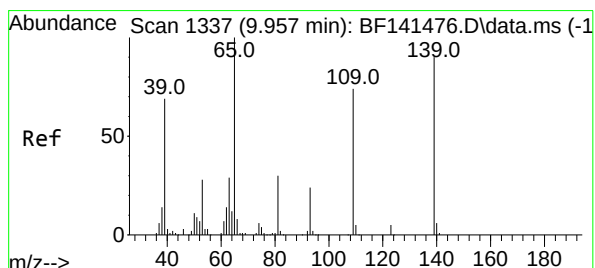
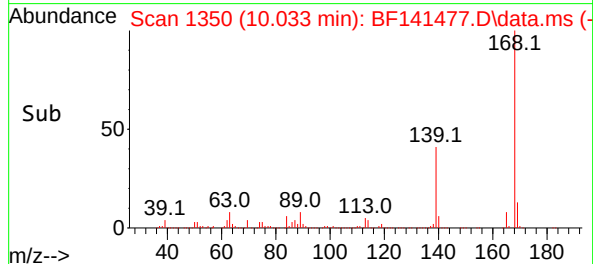
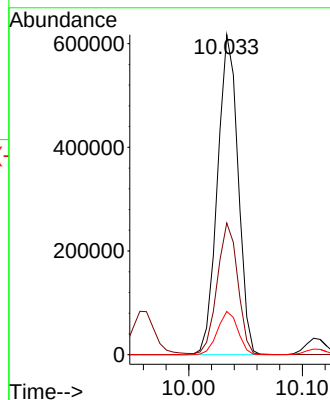
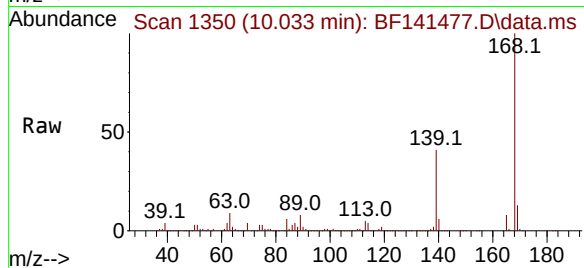
Tgt Ion:168 Resp: 777905

Ion Ratio Lower Upper

168 100

139 41.2 32.7 49.1

169 13.5 10.8 16.2



#56

4-Nitrophenol

Concen: 52.603 ng

RT: 9.957 min Scan# 1337

Delta R.T. -0.012 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

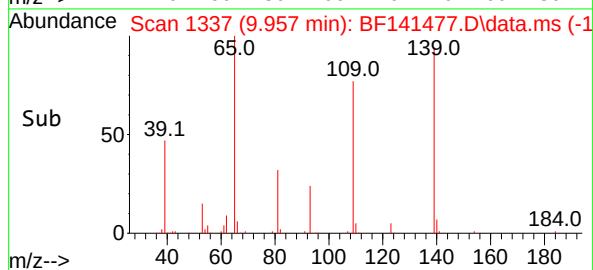
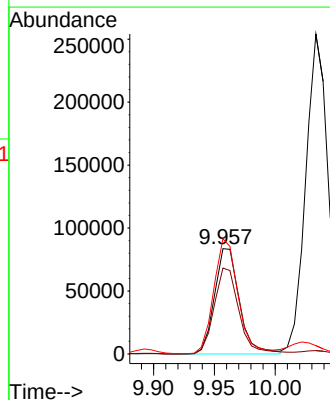
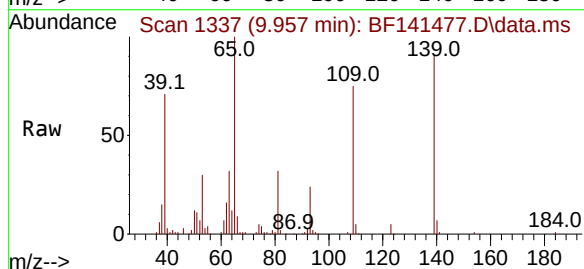
Tgt Ion:139 Resp: 118835

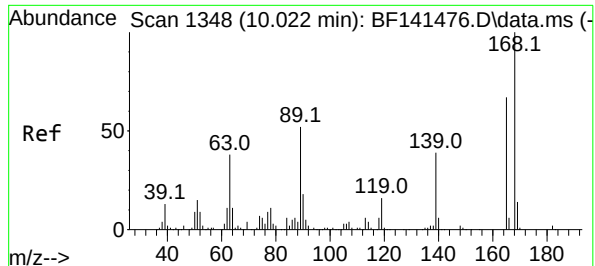
Ion Ratio Lower Upper

139 100

109 81.7 62.0 102.0

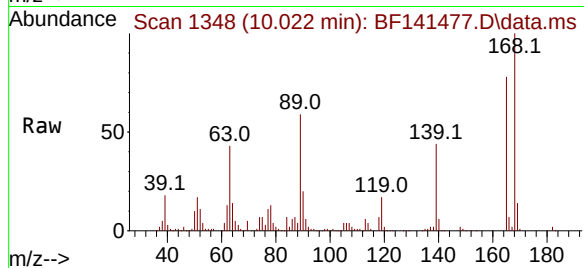
65 109.4 91.2 131.2



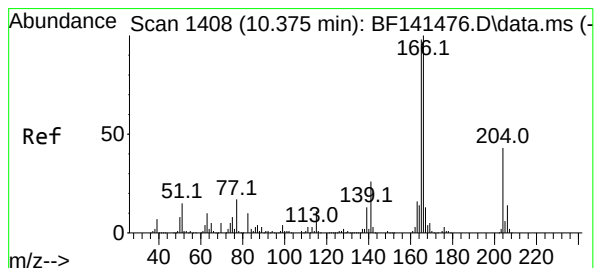
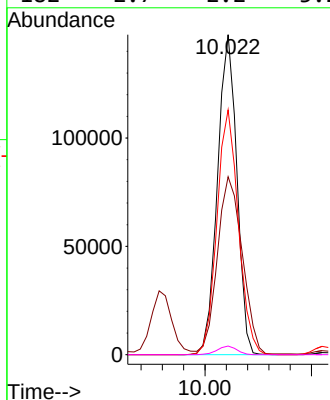
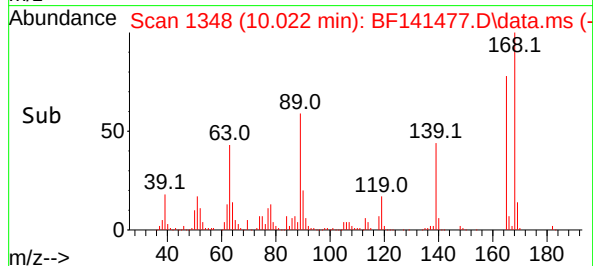


#57
2,4-Dinitrotoluene
Concen: 49.346 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

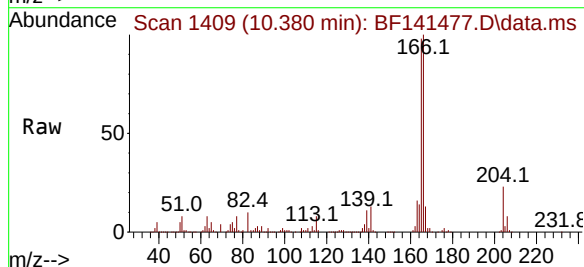
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



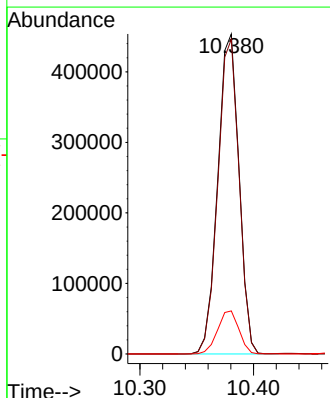
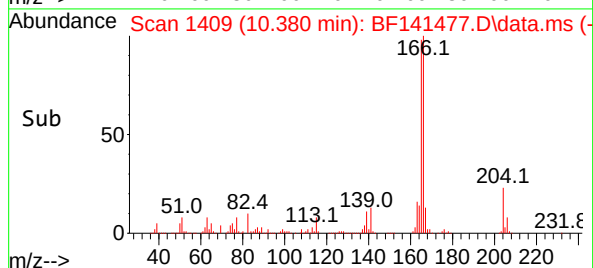
Tgt Ion:165 Resp: 185741
Ion Ratio Lower Upper
165 100
63 55.6 46.4 69.6
89 76.5 61.8 92.6
182 2.7 2.2 3.2

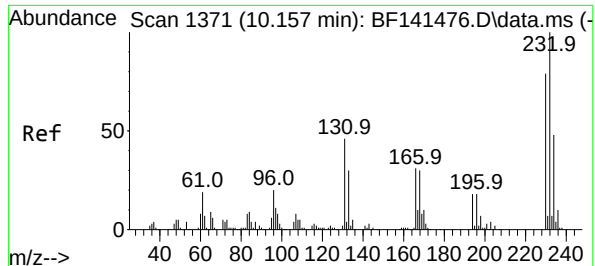


#58
Fluorene
Concen: 47.597 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21



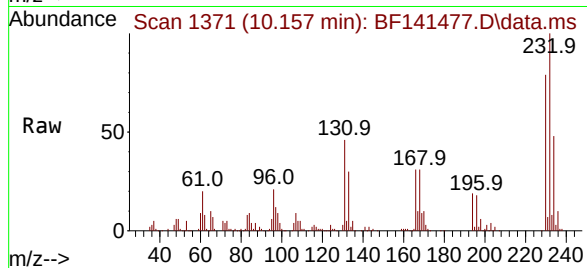
Tgt Ion:166 Resp: 590000
Ion Ratio Lower Upper
166 100
165 98.4 78.2 117.2
167 13.4 10.7 16.1



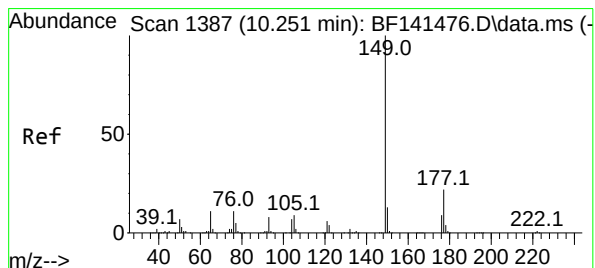
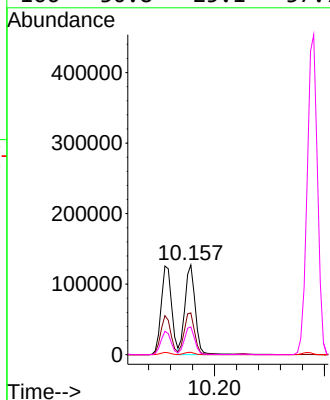
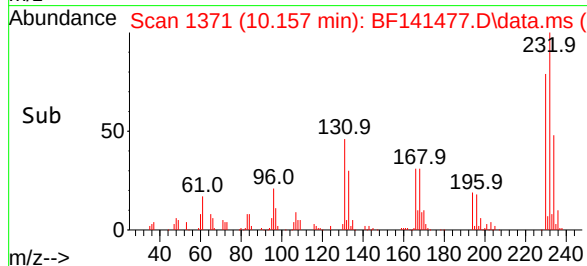


#59
2,3,4,6-Tetrachlorophenol
Concen: 49.807 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

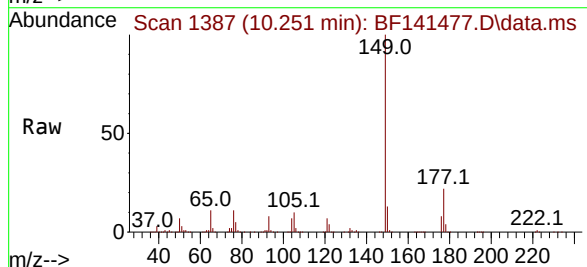
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



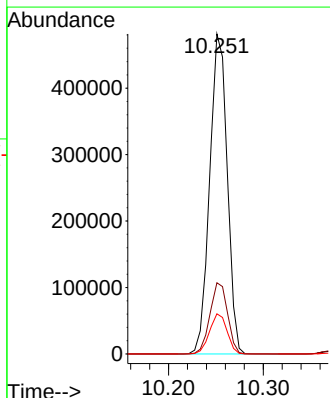
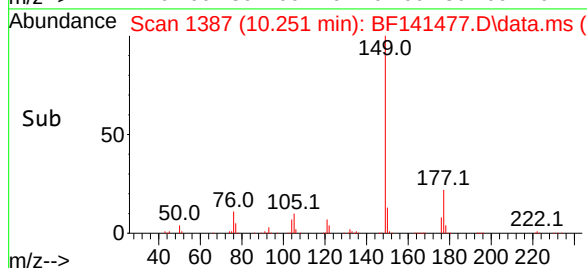
Tgt Ion:232 Resp: 165559
Ion Ratio Lower Upper
232 100
131 46.7 39.2 58.8
130 2.6 2.1 3.1
166 30.8 25.1 37.7

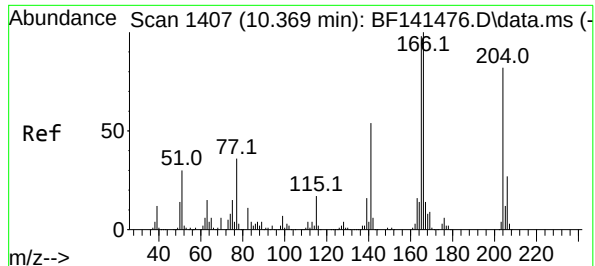


#60
Diethylphthalate
Concen: 48.647 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21



Tgt Ion:149 Resp: 619064
Ion Ratio Lower Upper
149 100
177 22.2 17.8 26.6
150 12.5 10.1 15.1

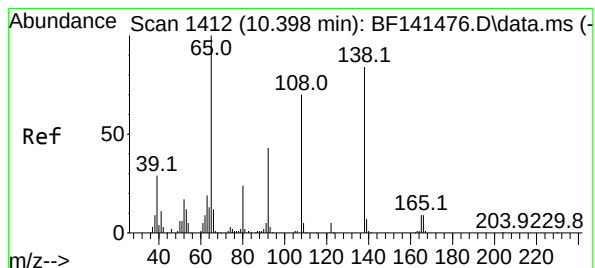
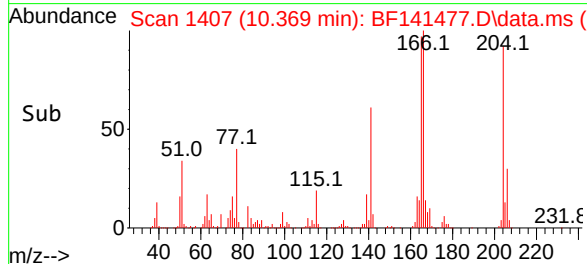
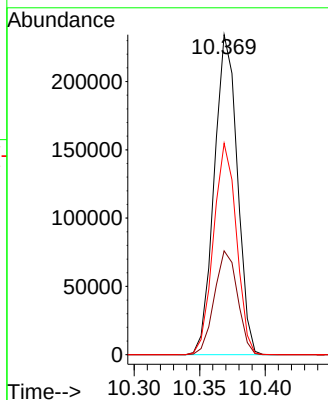
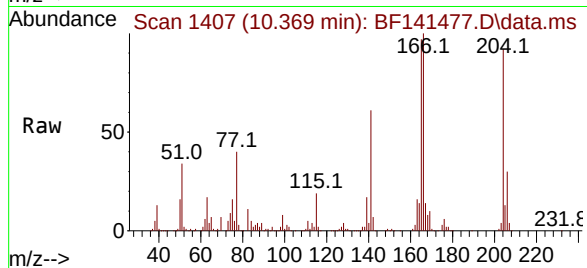




#61
4-Chlorophenyl-phenylether
Concen: 48.048 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

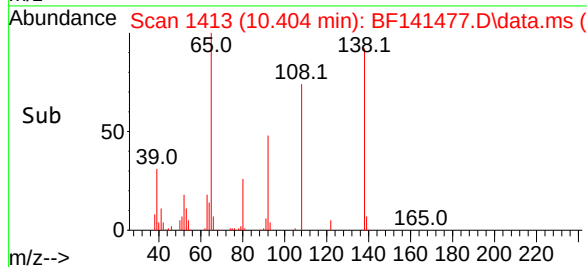
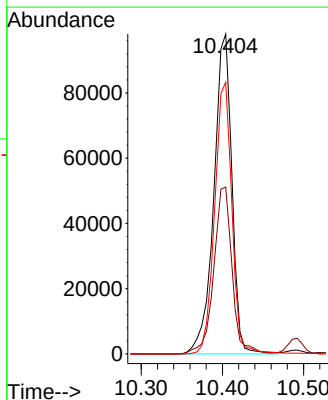
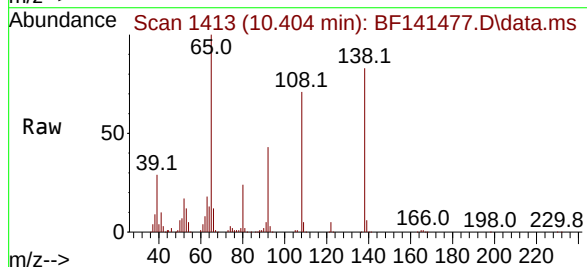
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

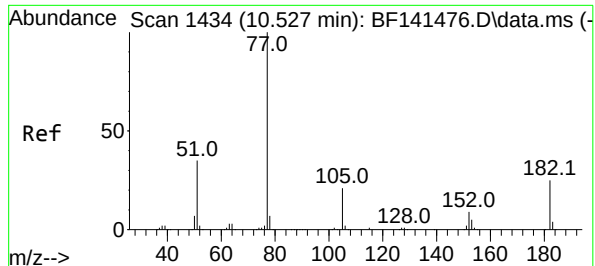
Tgt Ion:204 Resp: 286530
Ion Ratio Lower Upper
204 100
206 32.4 26.6 40.0
141 66.0 51.9 77.9



#62
4-Nitroaniline
Concen: 49.113 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:138 Resp: 151765
Ion Ratio Lower Upper
138 100
92 52.2 31.3 71.3
108 84.9 63.7 103.7

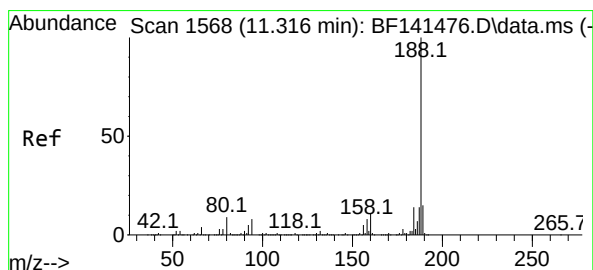
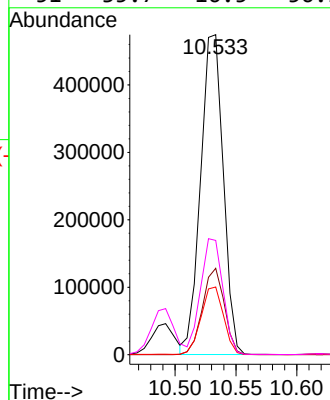
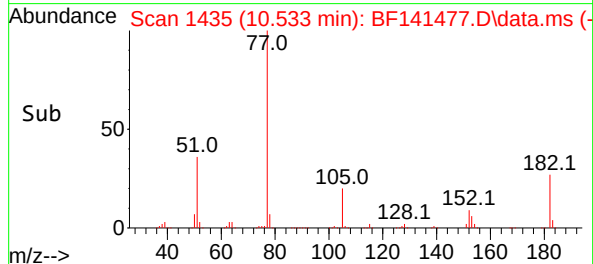
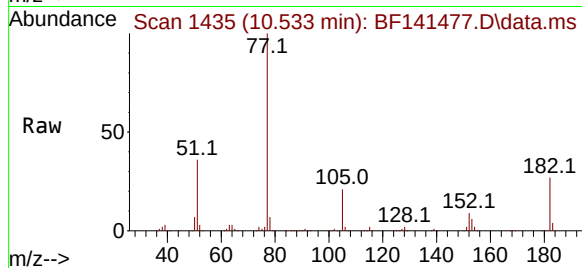




#63
Azobenzene
Concen: 48.742 ng
RT: 10.533 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

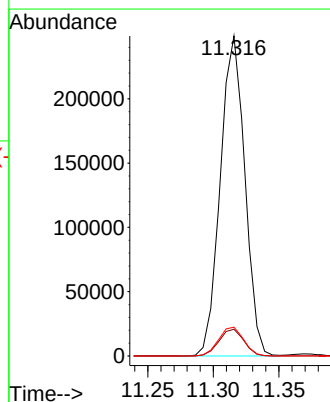
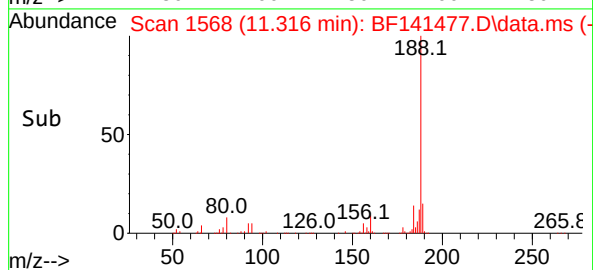
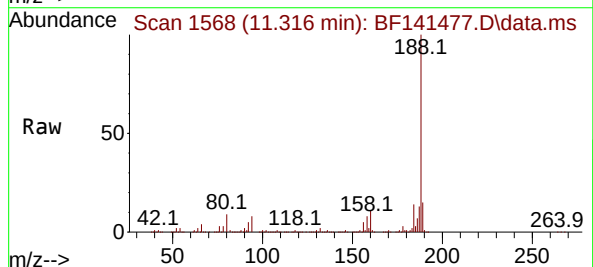
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

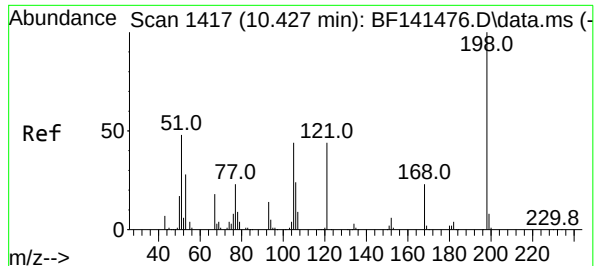
Tgt Ion: 77 Resp: 616638
Ion Ratio Lower Upper
77 100
182 27.0 4.7 44.7
105 21.1 0.4 40.4
51 35.7 16.5 56.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 188 Resp: 323702
Ion Ratio Lower Upper
188 100
94 8.4 6.6 10.0
80 9.0 7.3 10.9

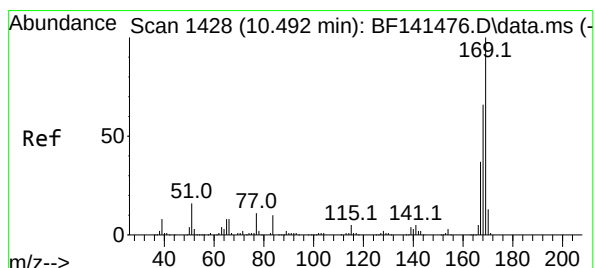
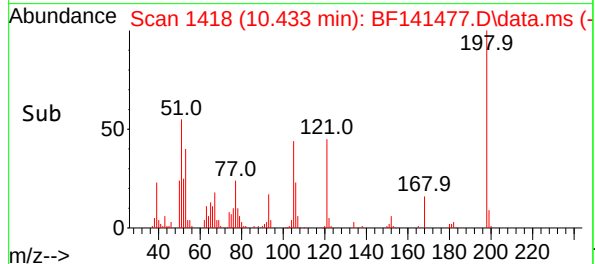
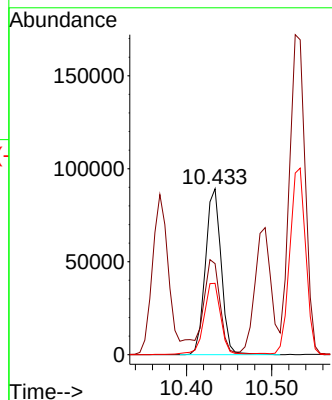
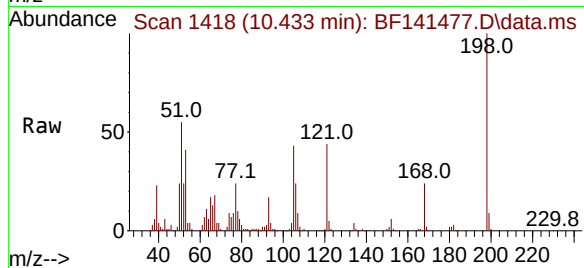




#65
4,6-Dinitro-2-methylphenol
Concen: 51.021 ng
RT: 10.433 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

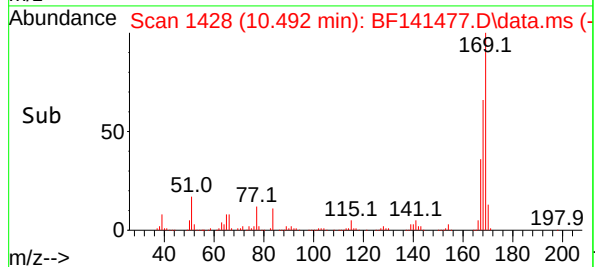
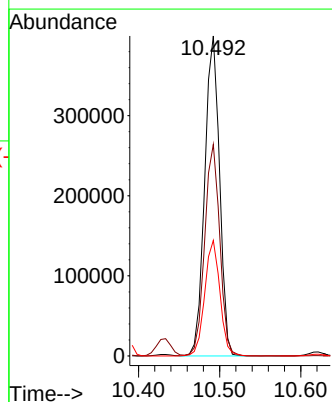
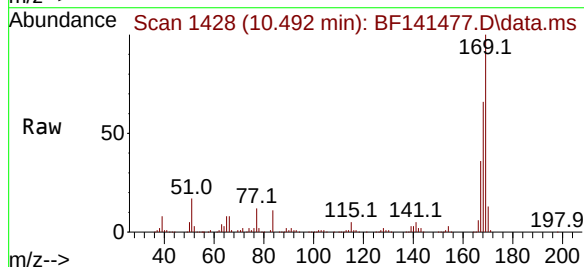
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

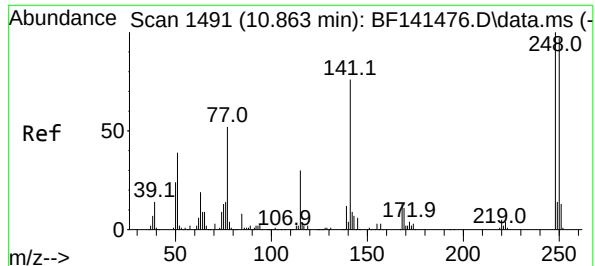
Tgt Ion:198 Resp: 114725
Ion Ratio Lower Upper
198 100
51 54.9 37.4 77.4
105 43.0 25.2 65.2



#66
n-Nitrosodiphenylamine
Concen: 48.810 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:169 Resp: 505770
Ion Ratio Lower Upper
169 100
168 66.1 53.3 79.9
167 36.1 29.4 44.2

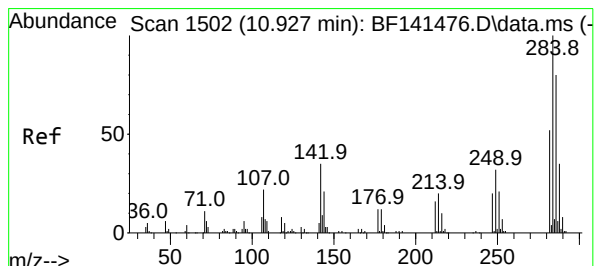
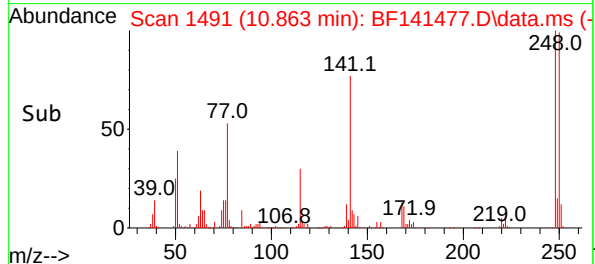
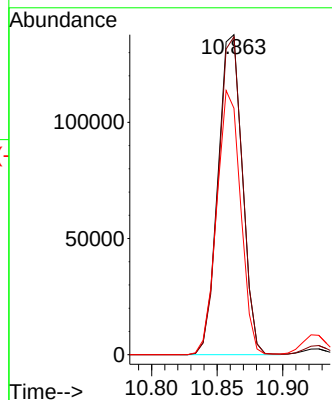
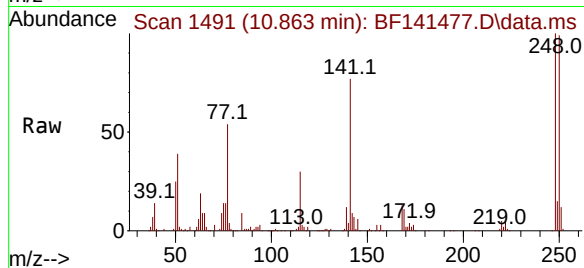




#67
4-Bromophenyl-phenylether
Concen: 49.135 ng
RT: 10.863 min Scan# 1491
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

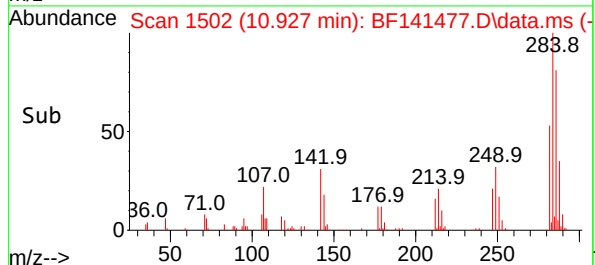
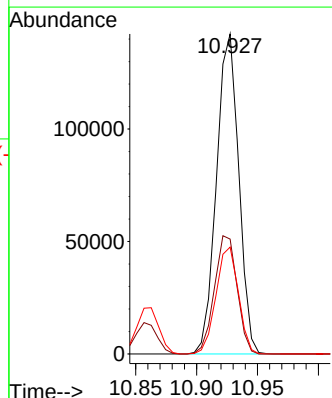
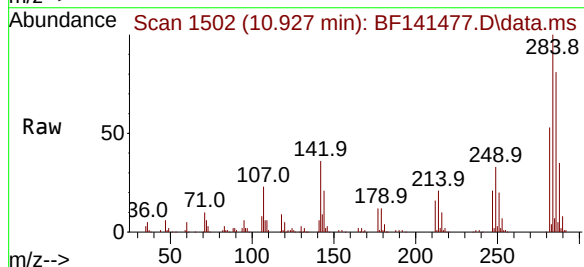
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

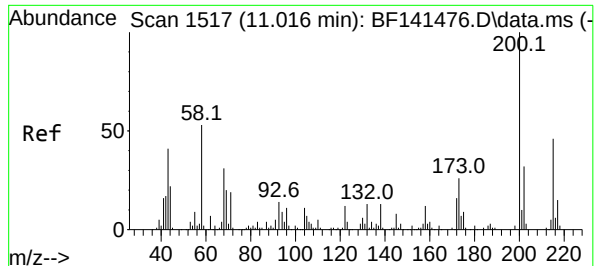
Tgt Ion:248 Resp: 177761
Ion Ratio Lower Upper
248 100
250 99.3 77.8 116.6
141 77.0 60.6 90.8



#68
Hexachlorobenzene
Concen: 48.567 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:284 Resp: 180930
Ion Ratio Lower Upper
284 100
142 35.9 28.0 42.0
249 33.4 25.8 38.8

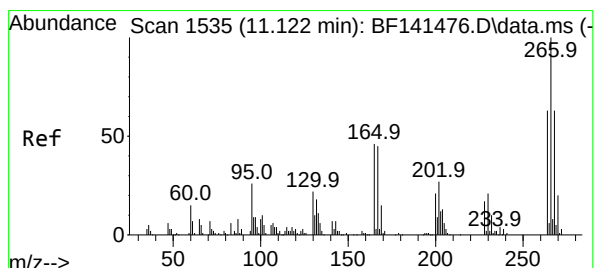
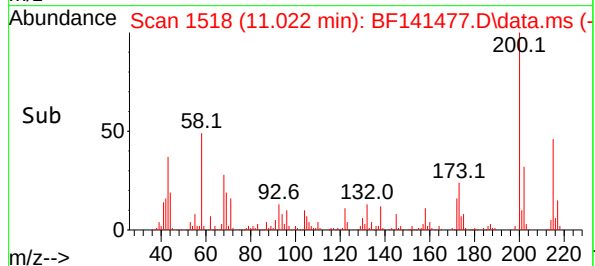
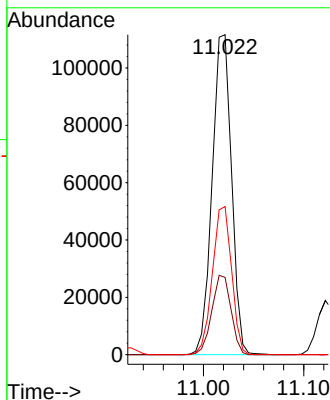
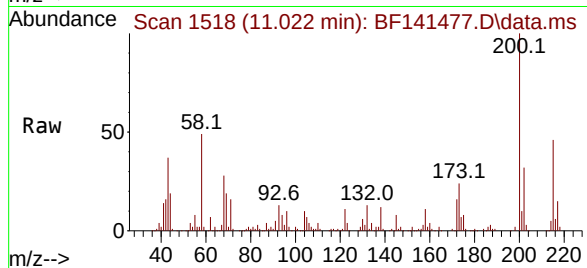




#69
Atrazine
Concen: 48.175 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.001 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

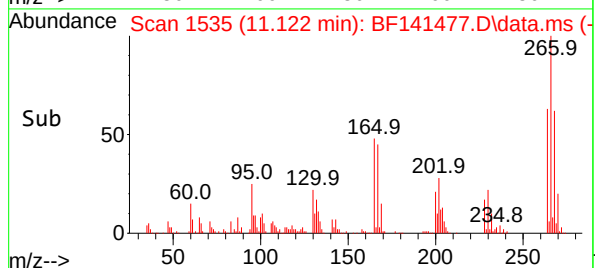
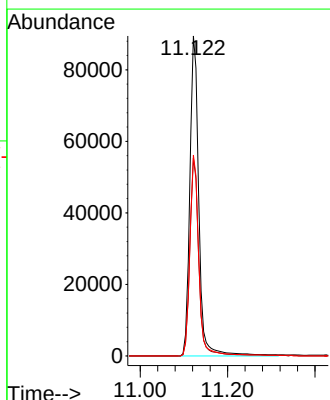
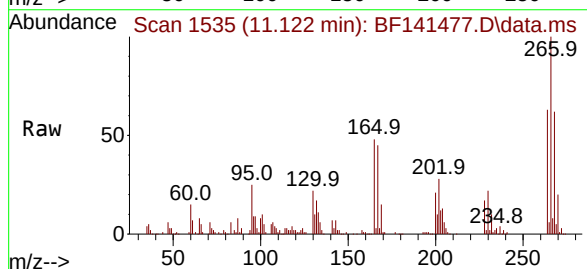
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

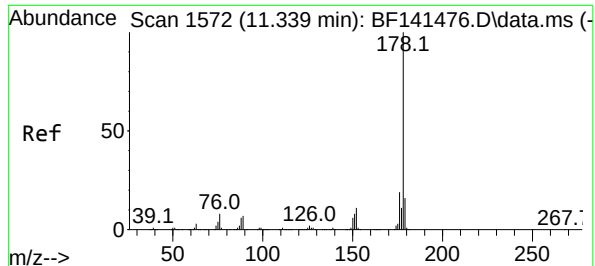
Tgt Ion:200 Resp: 149758
Ion Ratio Lower Upper
200 100
173 24.2 5.9 45.9
215 46.3 25.9 65.9



#70
Pentachlorophenol
Concen: 53.769 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:266 Resp: 128081
Ion Ratio Lower Upper
266 100
268 61.8 50.1 75.1
264 62.8 50.1 75.1

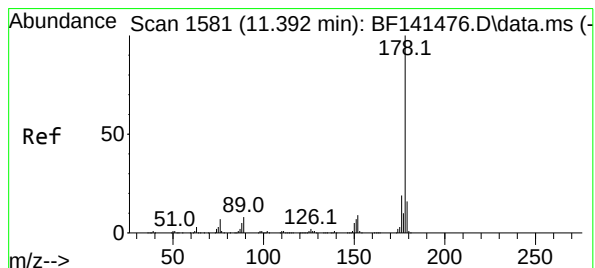
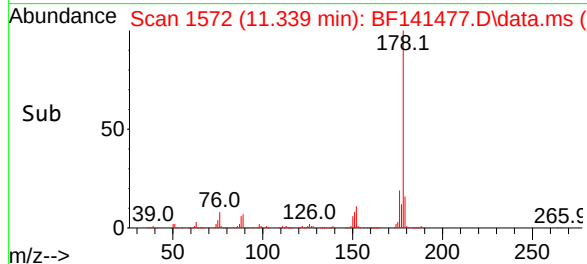
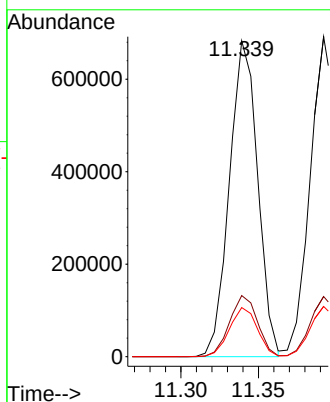
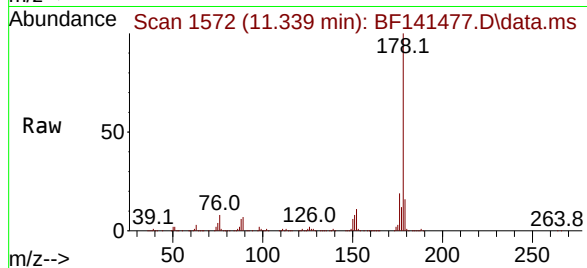




#71
Phenanthrene
Concen: 48.631 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

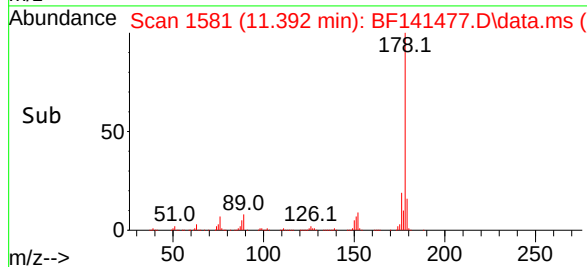
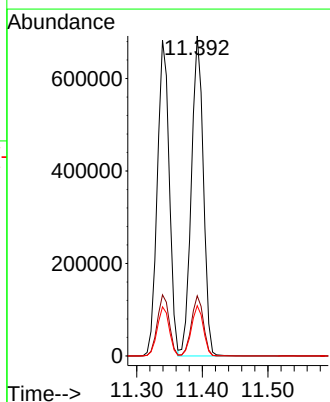
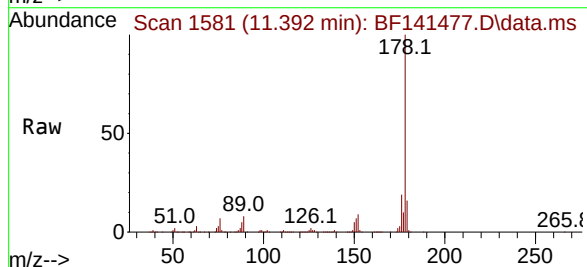
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

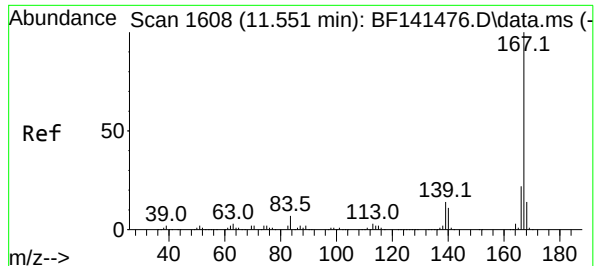
Tgt Ion:178 Resp: 866517
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.6 12.4 18.6



#72
Anthracene
Concen: 48.984 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:178 Resp: 877393
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 15.7 12.4 18.6

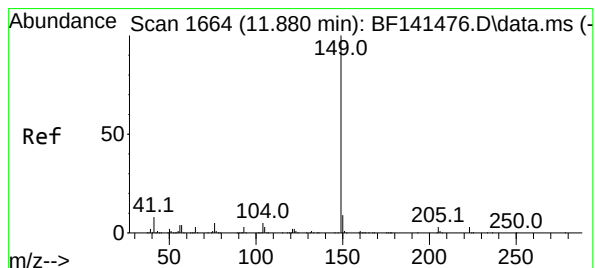
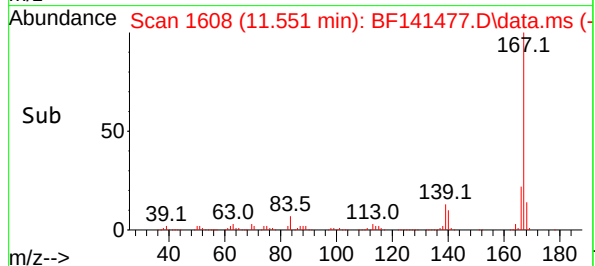
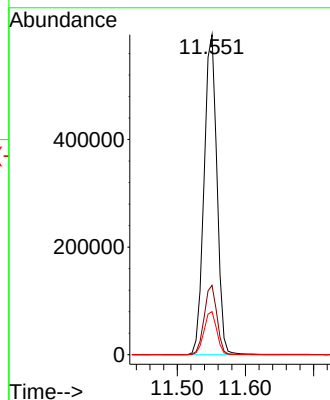
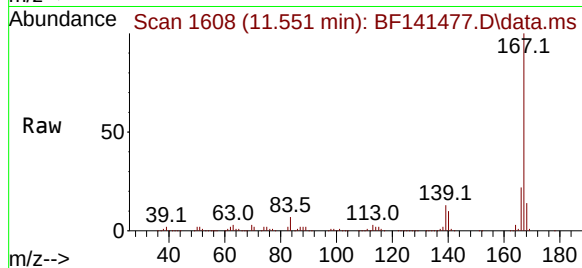




#73
Carbazole
Concen: 48.504 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

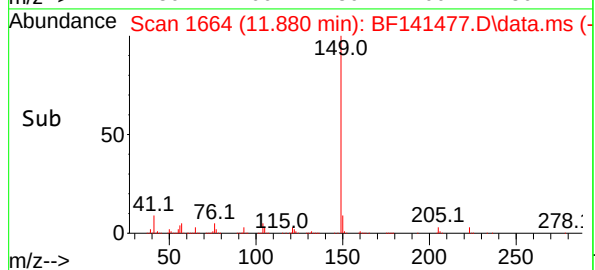
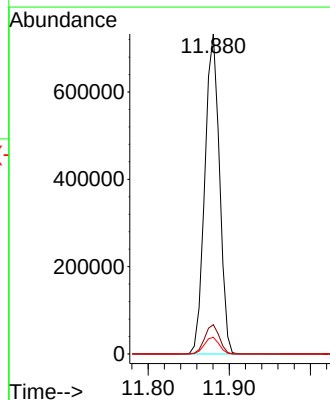
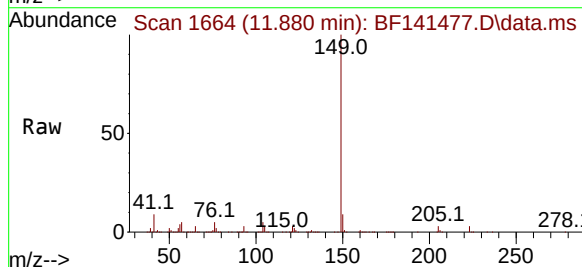
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

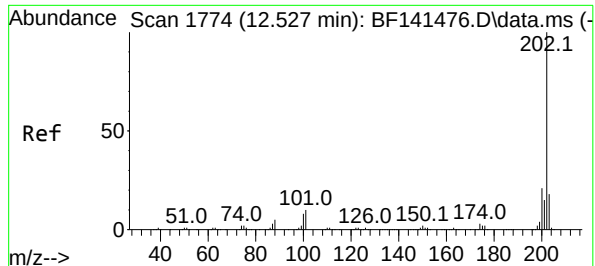
Tgt Ion:167 Resp: 781733
Ion Ratio Lower Upper
167 100
166 21.6 17.4 26.2
139 13.5 10.9 16.3



#74
Di-n-butylphthalate
Concen: 49.210 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 915782
Ion Ratio Lower Upper
149 100
150 9.1 7.4 11.0
104 5.2 4.2 6.2

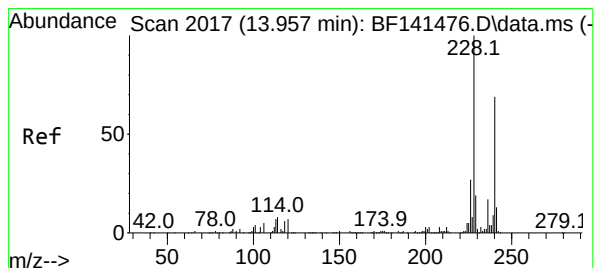
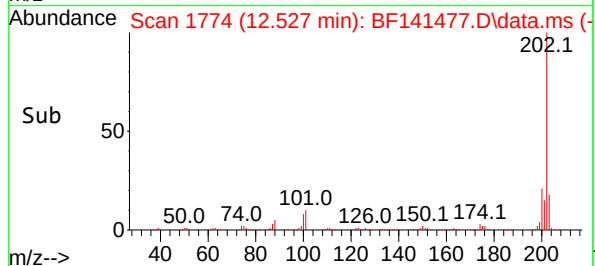
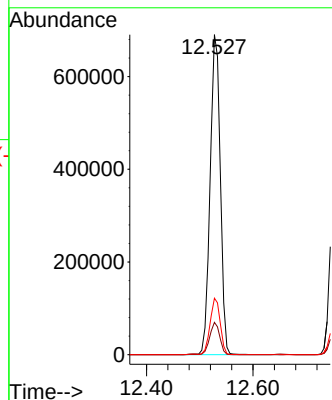
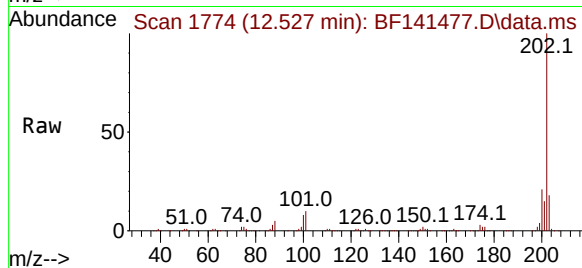




#75
Fluoranthene
Concen: 48.367 ng
RT: 12.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

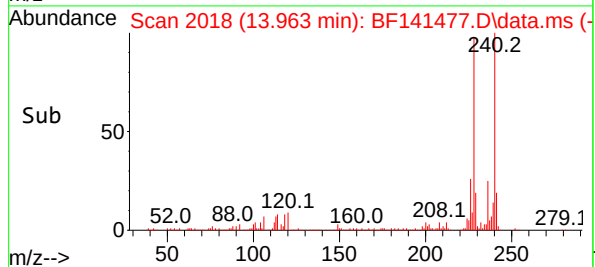
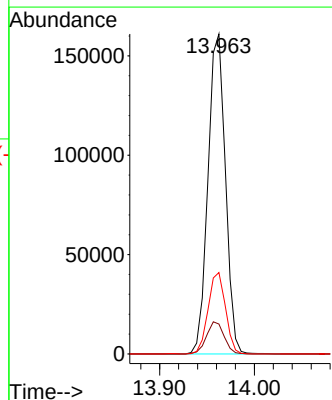
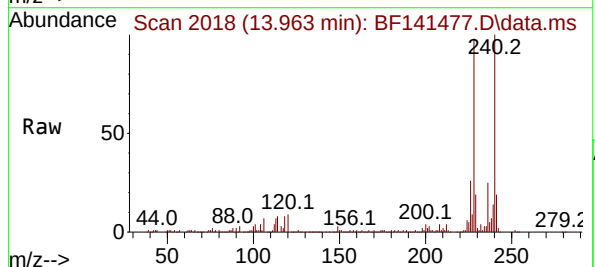
Instrument :
BNA_F
ClientSampleId :
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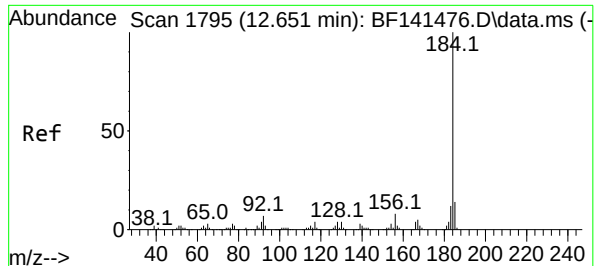
Tgt Ion:202 Resp: 913699
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.2
203 17.6 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:240 Resp: 205879
Ion Ratio Lower Upper
240 100
120 9.4 8.0 12.0
236 25.4 19.8 29.8

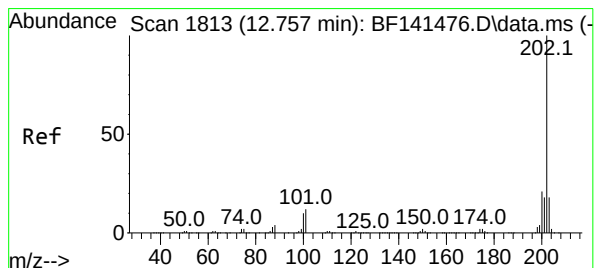
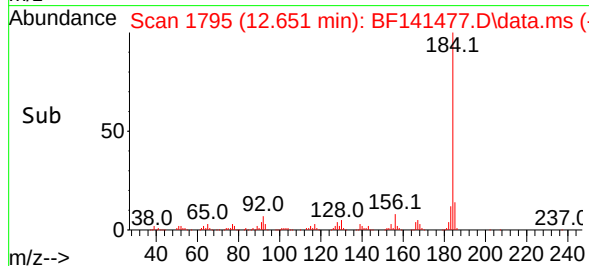
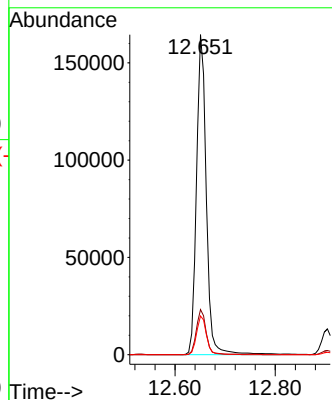
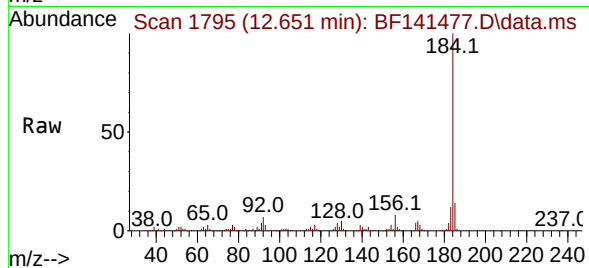




#77
Benzidine
Concen: 49.026 ng
RT: 12.651 min Scan# 1795
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

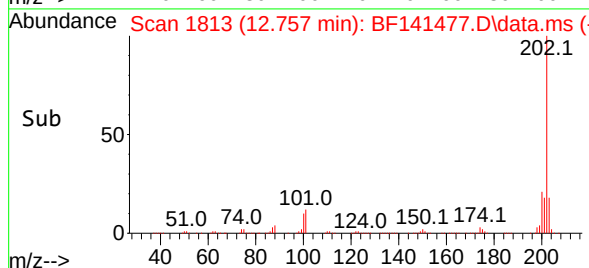
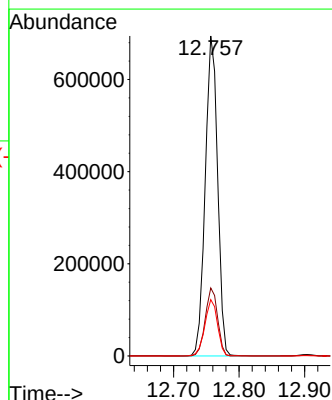
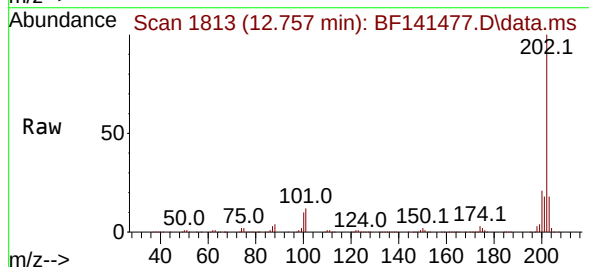
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

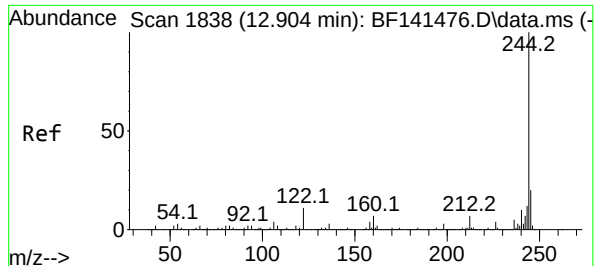
Tgt Ion:184 Resp: 222606
Ion Ratio Lower Upper
184 100
185 14.1 11.3 16.9
183 12.1 9.3 13.9



#78
Pyrene
Concen: 52.106 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:202 Resp: 913198
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.6 14.3 21.5

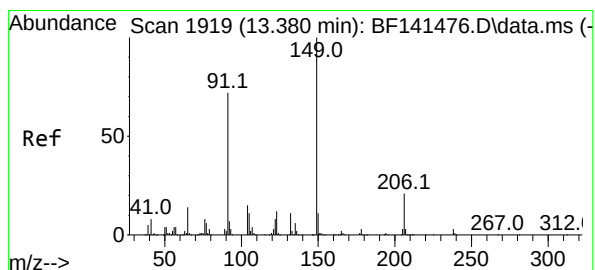
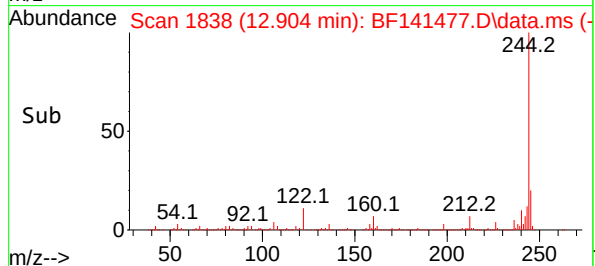
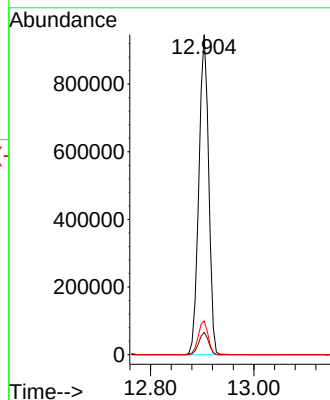
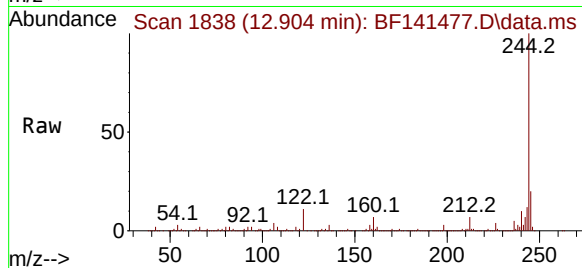




#79
Terphenyl-d14
Concen: 102.010 ng
RT: 12.904 min Scan# 1838
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

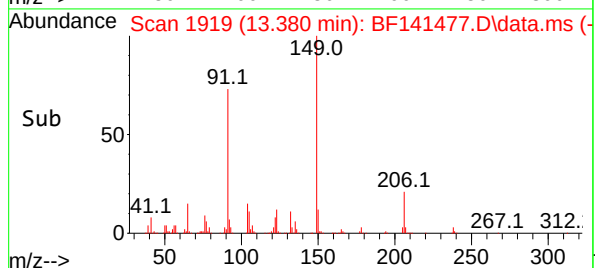
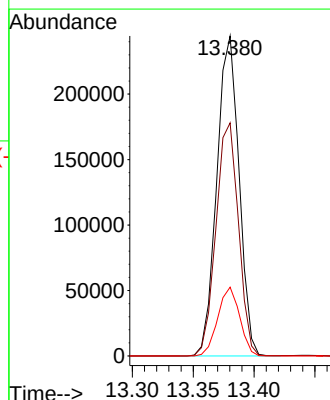
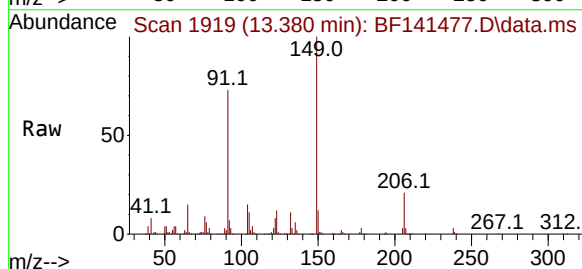
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

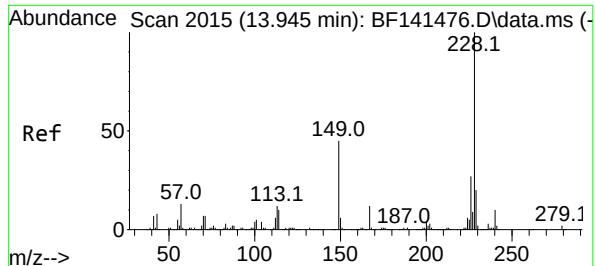
Tgt Ion:244 Resp: 1244053
Ion Ratio Lower Upper
244 100
212 7.0 5.6 8.4
122 10.5 8.4 12.6



#80
Butylbenzylphthalate
Concen: 51.168 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

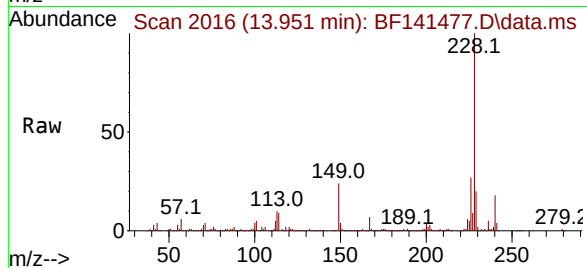
Tgt Ion:149 Resp: 310612
Ion Ratio Lower Upper
149 100
91 72.8 57.8 86.8
206 21.5 16.7 25.1



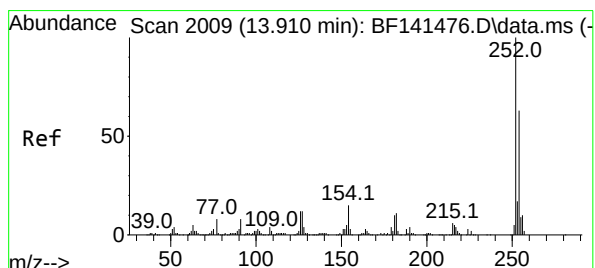
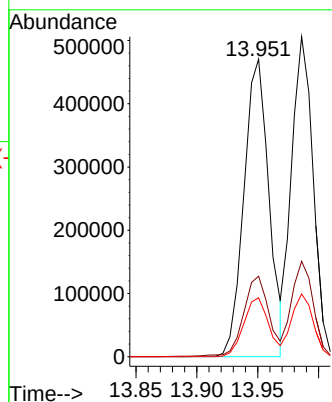
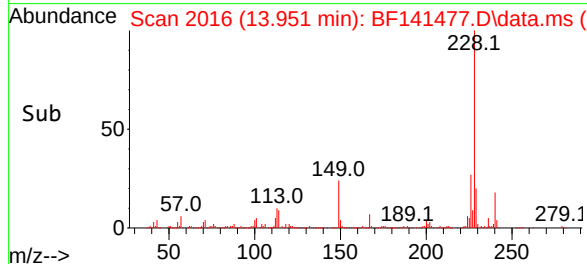


#81
Benzo(a)anthracene
Concen: 49.234 ng
RT: 13.951 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

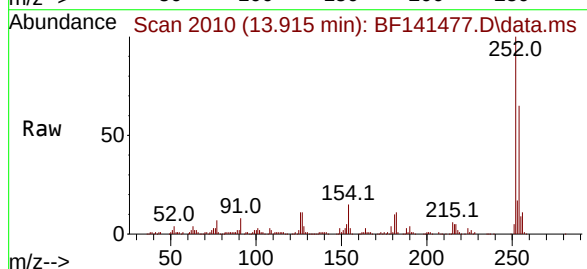
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



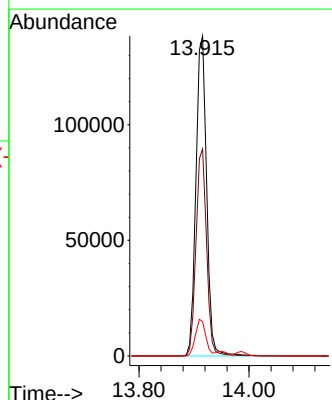
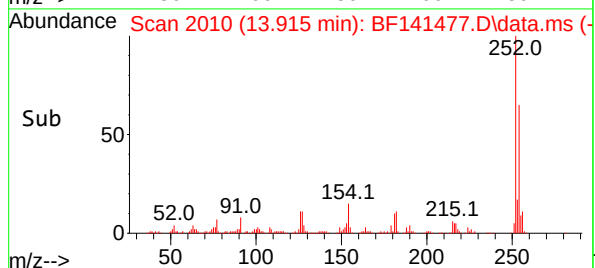
Tgt Ion:228 Resp: 673785
Ion Ratio Lower Upper
228 100
226 27.1 21.8 32.8
229 19.8 15.8 23.6

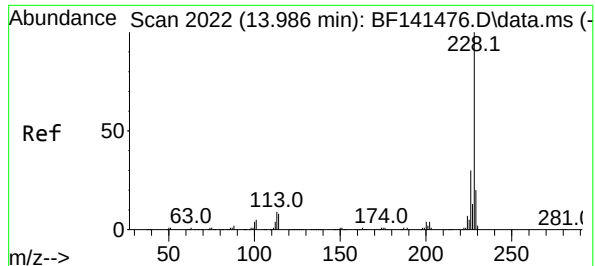


#82
3,3'-Dichlorobenzidine
Concen: 47.650 ng
RT: 13.915 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21



Tgt Ion:252 Resp: 186802
Ion Ratio Lower Upper
252 100
254 64.7 50.6 76.0
126 10.8 9.3 13.9

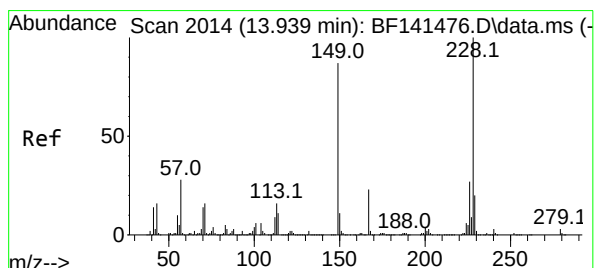
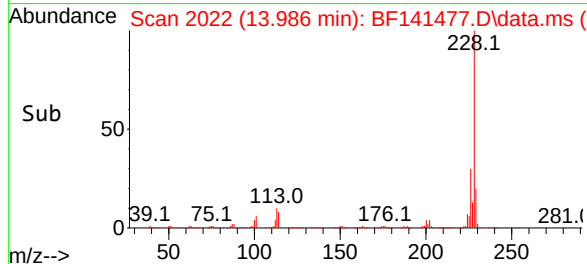
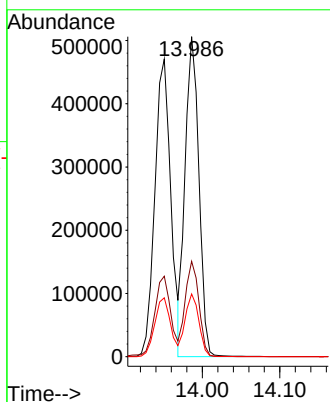
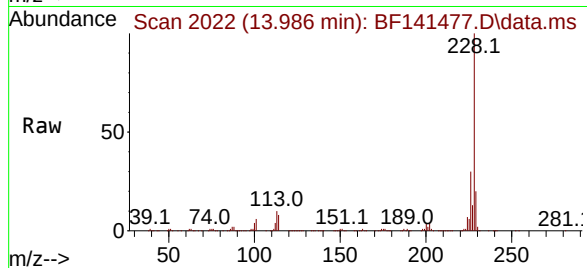




#83
Chrysene
Concen: 49.505 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

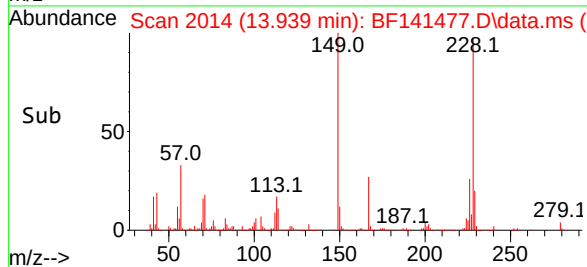
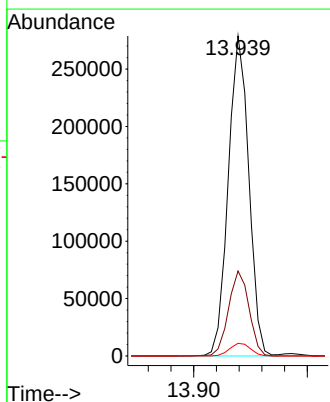
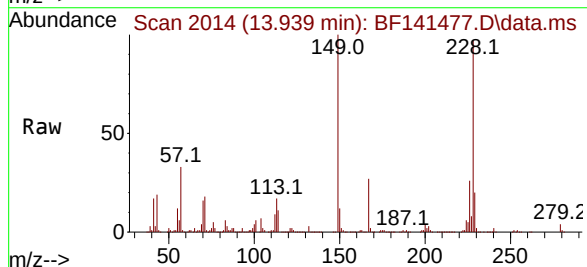
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

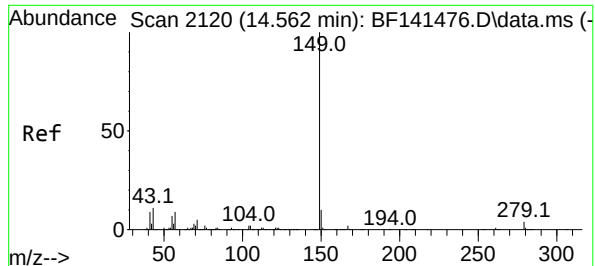
Tgt Ion:228 Resp: 625572
Ion Ratio Lower Upper
228 100
226 29.8 24.0 36.0
229 19.6 15.7 23.5



#84
Bis(2-ethylhexyl)phthalate
Concen: 51.138 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 350121
Ion Ratio Lower Upper
149 100
167 26.5 21.4 32.0
279 4.0 3.1 4.7





#85

Di-n-octyl phthalate

Concen: 53.213 ng

RT: 14.563 min Scan# 2120

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

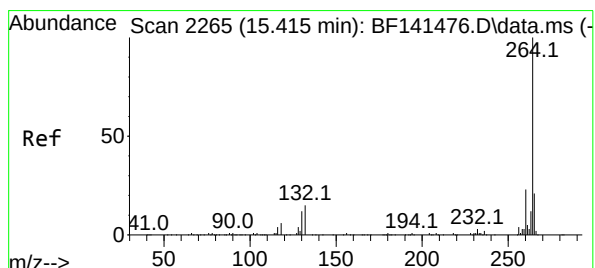
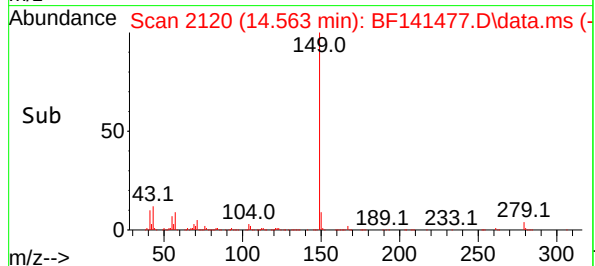
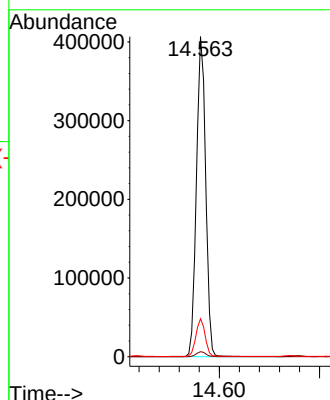
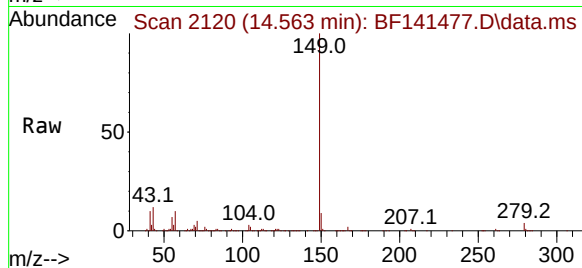
Tgt Ion:149 Resp: 519741

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

43 11.7 9.5 14.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 2265

Delta R.T. 0.000 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

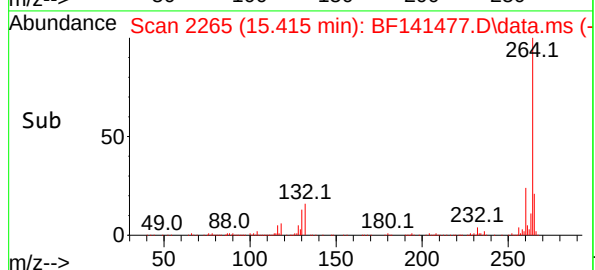
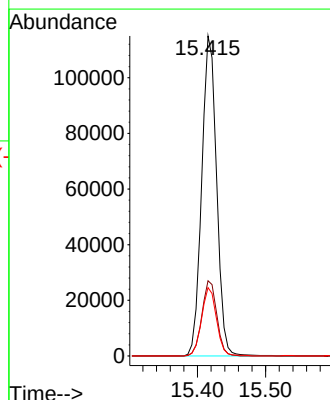
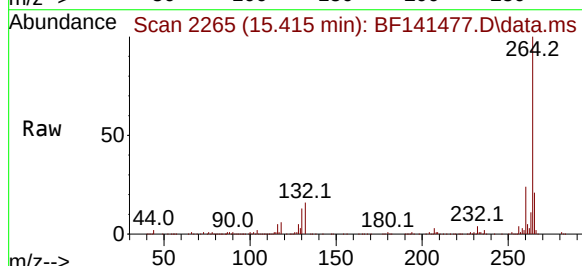
Tgt Ion:264 Resp: 174906

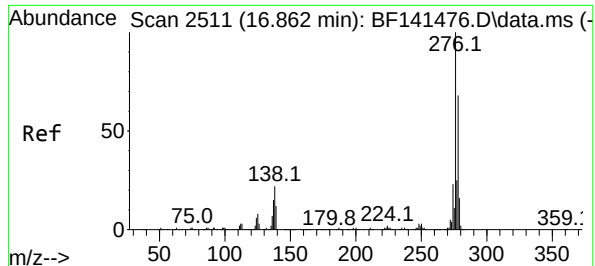
Ion Ratio Lower Upper

264 100

260 23.5 18.6 28.0

265 21.3 17.0 25.4

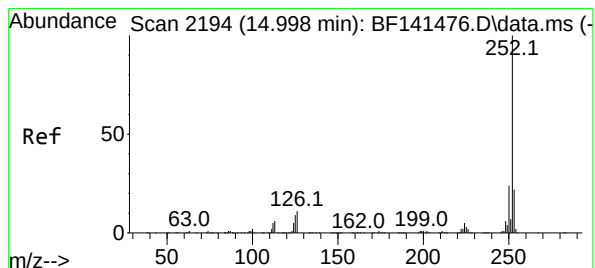
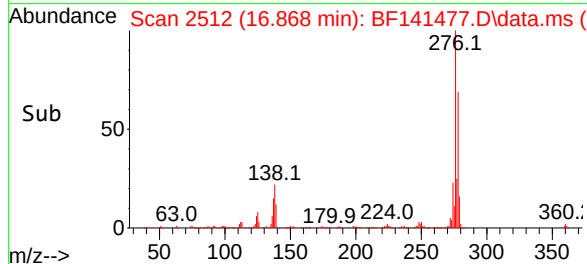
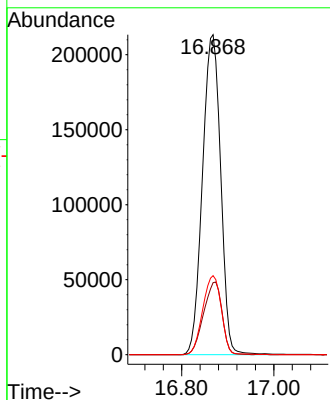
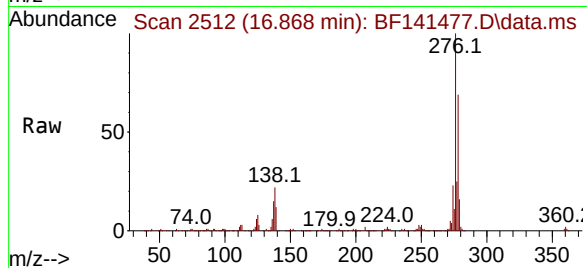




#87
Indeno(1,2,3-cd)pyrene
Concen: 54.277 ng
RT: 16.868 min Scan# 2512
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

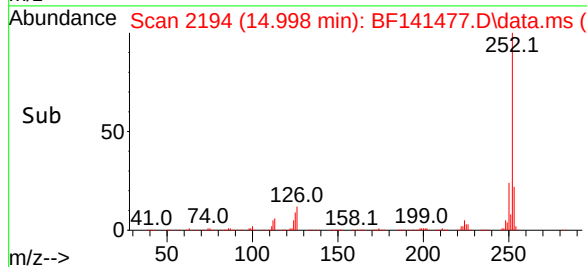
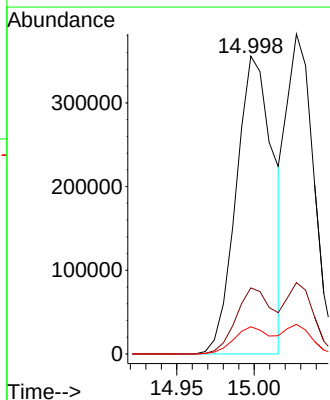
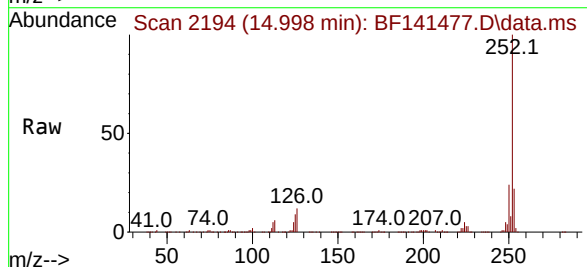
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

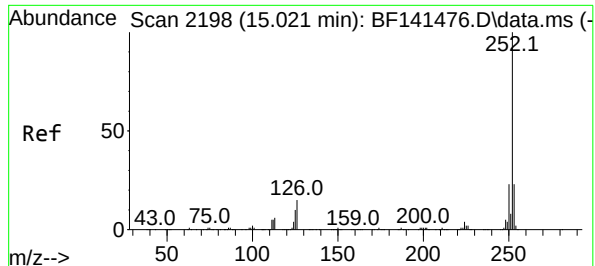
Tgt Ion:276 Resp: 586584
Ion Ratio Lower Upper
276 100
138 23.0 18.0 27.0
277 25.2 20.4 30.6



#88
Benzo(b)fluoranthene
Concen: 50.251 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 590149
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 9.2 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 46.814 ng

RT: 15.027 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

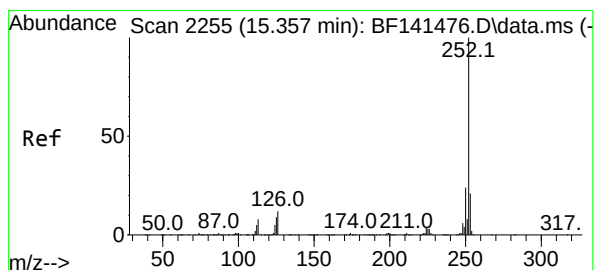
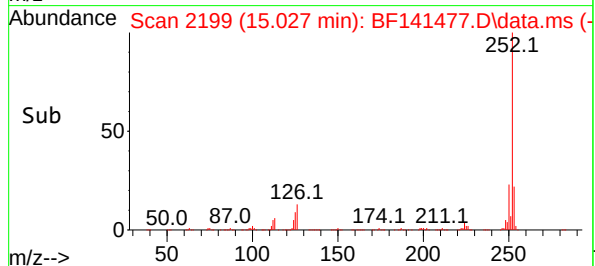
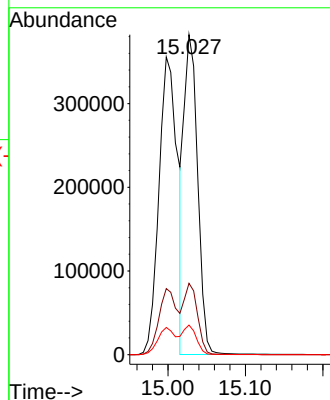
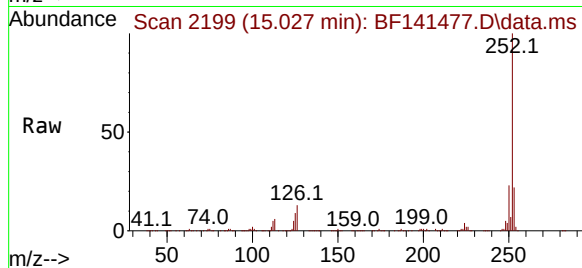
Tgt Ion:252 Resp: 469466

Ion Ratio Lower Upper

252 100

253 22.3 18.0 27.0

125 9.2 7.4 11.0



#90

Benzo(a)pyrene

Concen: 49.173 ng

RT: 15.357 min Scan# 2255

Delta R.T. -0.006 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

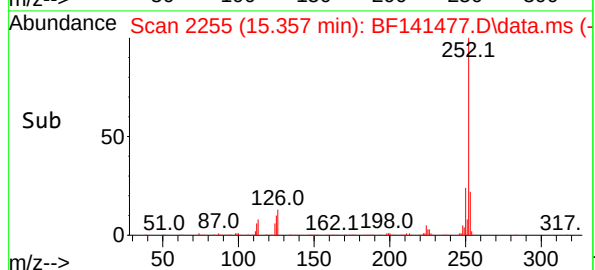
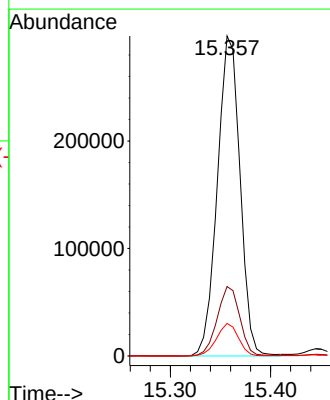
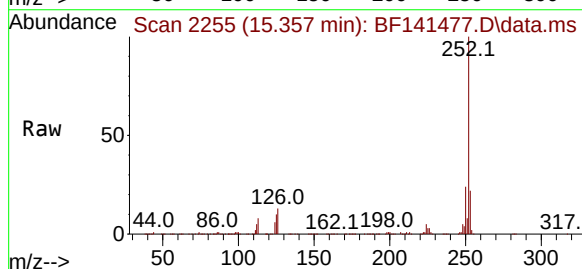
Tgt Ion:252 Resp: 467288

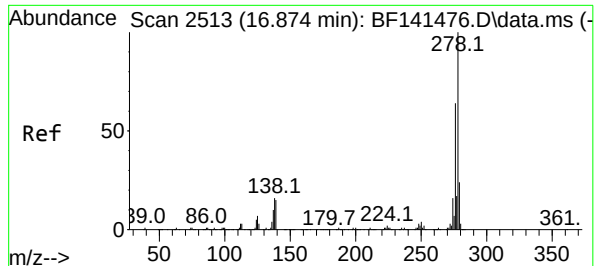
Ion Ratio Lower Upper

252 100

253 21.7 17.1 25.7

125 10.2 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 54.503 ng

RT: 16.880 min Scan# 2514

Delta R.T. -0.012 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

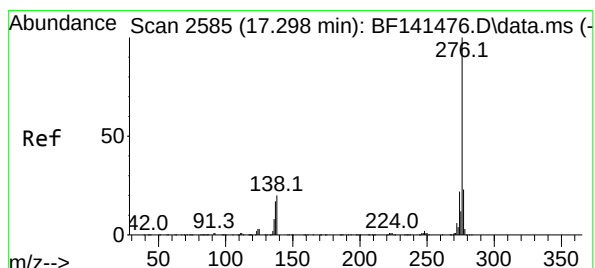
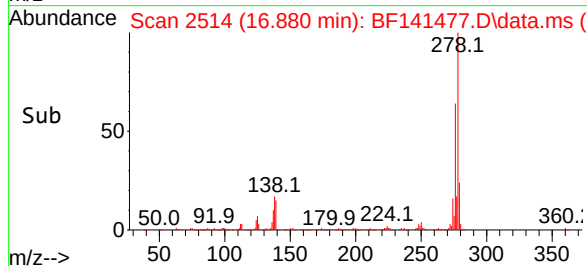
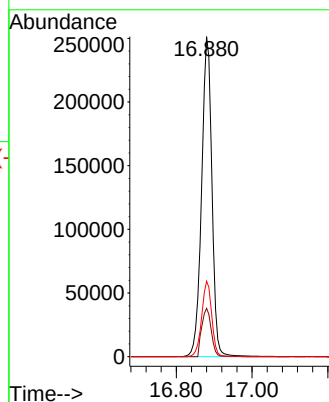
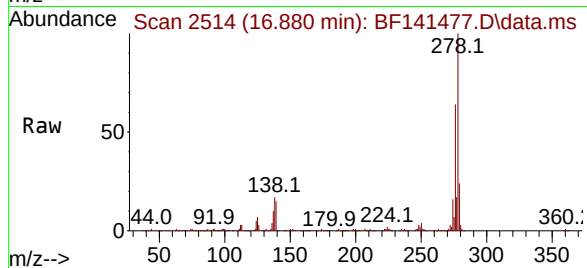
Tgt Ion:278 Resp: 477285

Ion Ratio Lower Upper

278 100

139 15.1 11.8 17.6

279 23.6 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 54.592 ng

RT: 17.304 min Scan# 2586

Delta R.T. -0.012 min

Lab File: BF141477.D

Acq: 06 Feb 2025 13:21

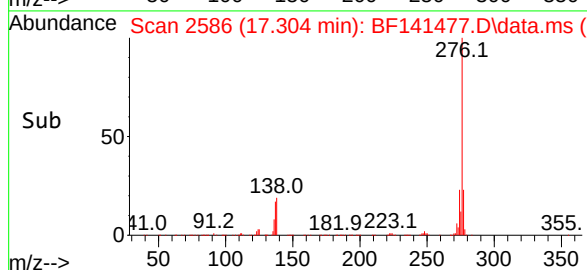
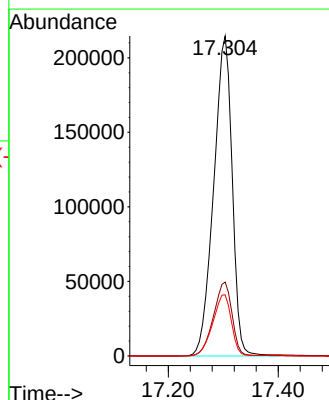
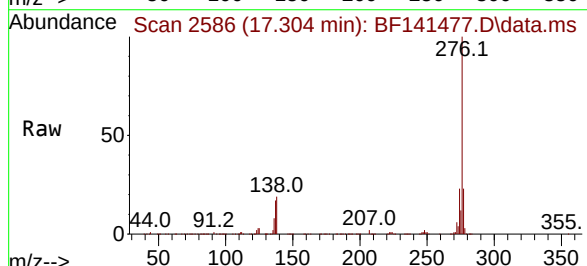
Tgt Ion:276 Resp: 500274

Ion Ratio Lower Upper

276 100

277 23.1 18.6 28.0

138 19.1 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141478.D
 Acq On : 06 Feb 2025 13:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Feb 06 16:00:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	88704	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	344609	20.000	ng	0.00
39) Acenaphthene-d10	9.827	164	186729	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	321893	20.000	ng	0.00
76) Chrysene-d12	13.962	240	197108	20.000	ng	0.00
86) Perylene-d12	15.415	264	171026	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	672709	118.894	ng	0.00
7) Phenol-d6	6.434	99	843410	117.937	ng	0.00
23) Nitrobenzene-d5	7.357	82	788550	119.351	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	225049	119.976	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1410277	116.358	ng	0.00
79) Terphenyl-d14	12.904	244	1459213	124.977	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.481	88	138751	60.929	ng	99
3) Pyridine	3.210	79	335519	61.916	ng	99
4) n-Nitrosodimethylamine	3.175	42	225031	62.715	ng	98
6) Aniline	6.457	93	397494	59.254	ng	99
8) 2-Chlorophenol	6.581	128	358027	58.561	ng	97
9) Benzaldehyde	6.339	77	187887	49.441	ng	100
10) Phenol	6.451	94	437528	58.782	ng	98
11) bis(2-Chloroethyl)ether	6.534	93	335957	60.093	ng	99
12) 1,3-Dichlorobenzene	6.734	146	380433	58.941	ng	98
13) 1,4-Dichlorobenzene	6.810	146	382812	58.050	ng	98
14) 1,2-Dichlorobenzene	6.963	146	357837	58.465	ng	99
15) Benzyl Alcohol	6.939	79	324244	59.125	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	553943	57.883	ng	91
17) 2-Methylphenol	7.057	107	283563	59.272	ng	97
18) Hexachloroethane	7.304	117	144816	59.337	ng	96
19) n-Nitroso-di-n-propyla...	7.210	70	250412	58.540	ng	99
20) 3+4-Methylphenols	7.210	107	350980	57.722	ng	92
22) Acetophenone	7.204	105	504294	58.828	ng	99
24) Nitrobenzene	7.381	77	387174	60.096	ng	100
25) Isophorone	7.616	82	638004	60.562	ng	99
26) 2-Nitrophenol	7.692	139	199140	62.128	ng	97
27) 2,4-Dimethylphenol	7.733	122	227803	60.836	ng	99
28) bis(2-Chloroethoxy)met...	7.828	93	404195	59.877	ng	100
29) 2,4-Dichlorophenol	7.939	162	301959	59.683	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	328150	59.561	ng	99
31) Naphthalene	8.098	128	1056367	58.889	ng	100
32) Benzoic acid	7.875	122	250995	64.532	ng	99
33) 4-Chloroaniline	8.151	127	376211	60.070	ng	99
34) Hexachlorobutadiene	8.210	225	197955	59.849	ng	99
35) Caprolactam	8.533	113	94415	61.291	ng	97
36) 4-Chloro-3-methylphenol	8.639	107	335897	59.935	ng	99
37) 2-Methylnaphthalene	8.786	142	688021	58.941	ng	99
38) 1-Methylnaphthalene	8.886	142	661628	58.522	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	321763	59.560	ng	99
41) Hexachlorocyclopentadiene	8.939	237	120063	66.819	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	211702	60.632	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141478.D
 Acq On : 06 Feb 2025 13:47
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC060

Quant Time: Feb 06 16:00:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	229006	60.519	ng	98
46) 1,1'-Biphenyl	9.251	154	861067	59.479	ng	100
47) 2-Chloronaphthalene	9.275	162	636511	59.459	ng	99
48) 2-Nitroaniline	9.375	65	224709	62.547	ng	99
49) Acenaphthylene	9.692	152	946382	59.436	ng	100
50) Dimethylphthalate	9.557	163	751128	59.253	ng	99
51) 2,6-Dinitrotoluene	9.622	165	167387	60.403	ng	100
52) Acenaphthene	9.863	154	631289	58.974	ng	99
53) 3-Nitroaniline	9.792	138	179664	60.237	ng	100
54) 2,4-Dinitrophenol	9.898	184	111060	67.432	ng	96
55) Dibenzofuran	10.039	168	915117	58.242	ng	100
56) 4-Nitrophenol	9.963	139	143994	65.035	ng	97
57) 2,4-Dinitrotoluene	10.022	165	222091	60.202	ng	99
58) Fluorene	10.380	166	707371	58.225	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	198636	60.972	ng	99
60) Diethylphthalate	10.257	149	732804	58.755	ng	99
61) 4-Chlorophenyl-phenyle...	10.369	204	342324	58.570	ng	98
62) 4-Nitroaniline	10.404	138	182946	60.406	ng	96
63) Azobenzene	10.533	77	739338	59.629	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	140610	62.884	ng	99
66) n-Nitrosodiphenylamine	10.492	169	603914	58.609	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	213385	59.314	ng	98
68) Hexachlorobenzene	10.927	284	220611	59.552	ng	98
69) Atrazine	11.021	200	175824	56.878	ng	99
70) Pentachlorophenol	11.121	266	153971	65.001	ng	100
71) Phenanthrene	11.345	178	1032075	58.248	ng	100
72) Anthracene	11.392	178	1034181	58.062	ng	99
73) Carbazole	11.551	167	927882	57.896	ng	100
74) Di-n-butylphthalate	11.880	149	1087815	58.783	ng	99
75) Fluoranthene	12.533	202	1053887	56.102	ng	100
77) Benzidine	12.651	184	207602	47.757	ng	99
78) Pyrene	12.763	202	1068624	63.687	ng	99
80) Butylbenzylphthalate	13.380	149	368219	63.357	ng	99
81) Benzo(a)anthracene	13.951	228	774318	59.097	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	208826	55.639	ng	98
83) Chrysene	13.986	228	723815	59.829	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	411979	62.851	ng	100
85) Di-n-octyl phthalate	14.562	149	621505	66.464	ng	100
87) Indeno(1,2,3-cd)pyrene	16.868	276	723493	68.464	ng	100
88) Benzo(b)fluoranthene	14.998	252	695617	60.575	ng	99
89) Benzo(k)fluoranthene	15.027	252	563342	57.449	ng	99
90) Benzo(a)pyrene	15.357	252	561457	60.423	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	584115	68.216	ng	99
92) Benzo(g,h,i)perylene	17.309	276	617241	68.884	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Abundance

TIC: BF141478.D\data.ms

Time-->

1,4-Dioxane

p-Nitrosodimethylaniline

2-Fluorophenol, S

Benzaldehyde

bis(2-Chloroethyl)ether

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,2'-oxybis(1-chloroethanol)

Hexachlorocyclopentadiene

2-Nitrophenol

Benzoic acid

Naphthalene

2-Chloroaniline

Hexachlorobutadiene, C

Caprolactam

4-Chloro-3-methylphenol, C

2,2,4,4-Tetrachlorobutane

2,2,4,4-Tetrachlorobutanol, C

2-Chloronaphthalene

1,1'-Biphenyl

Acenaphthylene

Acenaphthene, C

Benzofuran

2,3,4,6-Tetrachlorophthalate

2,3,4,6-Tetrachlorophthalic anhydride

4-Nitrophenyl 2-methylphenyl ether

4-Nitrophenyl 2-nitrophenyl ether

4-Nitrophenyl 2-nitrophenyl ether

Perfluorophenol, C

Phenanthrene-d10

Phenanthrene

Carbazole

Di-n-butylphthalate

Fluoranthene, C

Pyrene

Terphenyl-d14, S

Bis(2-ethylhexyl)phthalate

Chrysene

Di-n-octyl phthalate, c

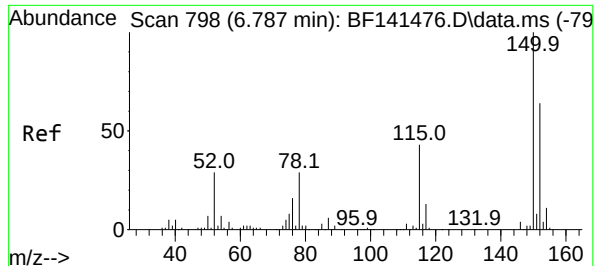
Benzo(a)pyrene

Benzo(a)pyrene, C

Perylene-d12, i

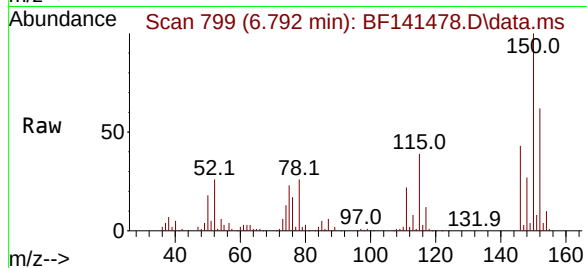
Indeno(1,2,3-cd)pyrene

Benzo(g,h,i)perylene

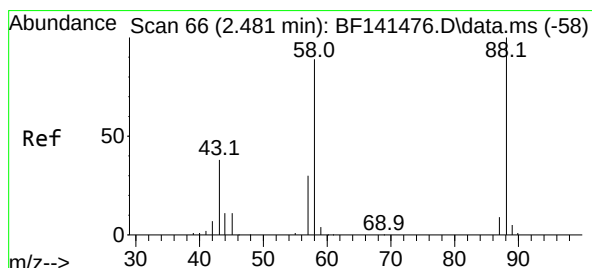
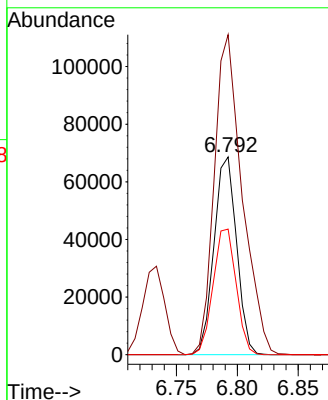
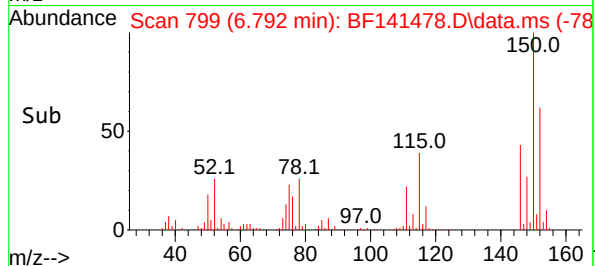


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

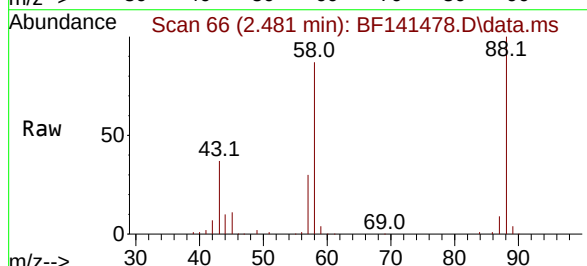
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



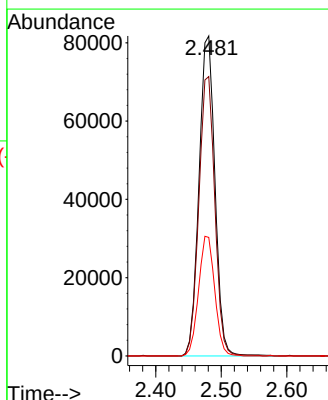
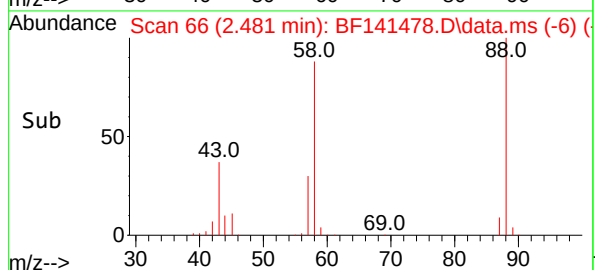
Tgt Ion:152 Resp: 88704
Ion Ratio Lower Upper
152 100
150 161.8 125.0 187.4
115 63.6 53.6 80.4

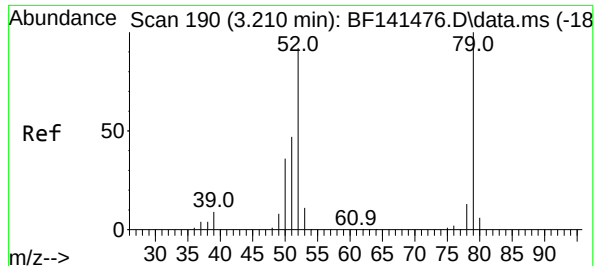


#2
1,4-Dioxane
Concen: 60.929 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47



Tgt Ion: 88 Resp: 138751
Ion Ratio Lower Upper
88 100
58 87.5 71.1 106.7
43 37.9 30.6 46.0





#3

Pyridine

Concen: 61.916 ng

RT: 3.210 min Scan# 190

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

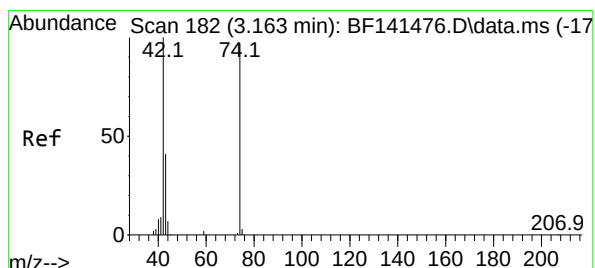
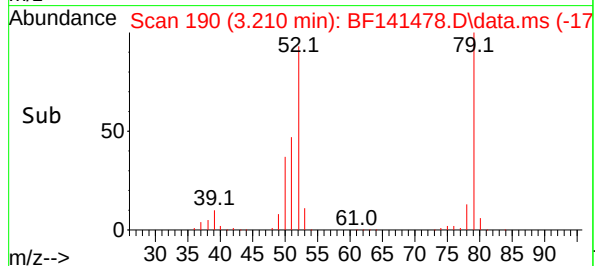
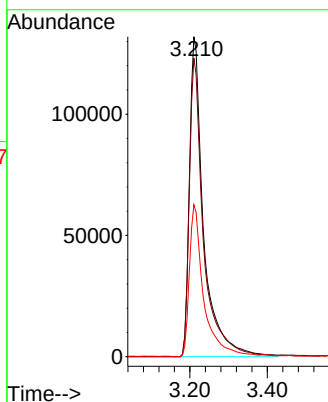
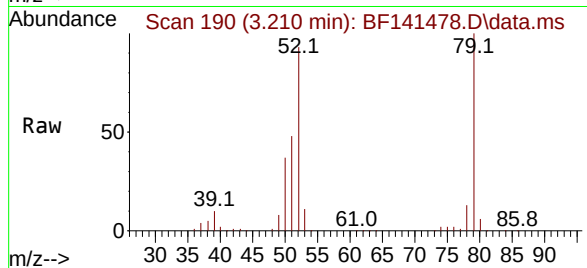
Tgt Ion: 79 Resp: 335519

Ion Ratio Lower Upper

79 100

52 93.3 73.7 110.5

51 47.5 37.5 56.3



#4

n-Nitrosodimethylamine

Concen: 62.715 ng

RT: 3.175 min Scan# 184

Delta R.T. -0.012 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

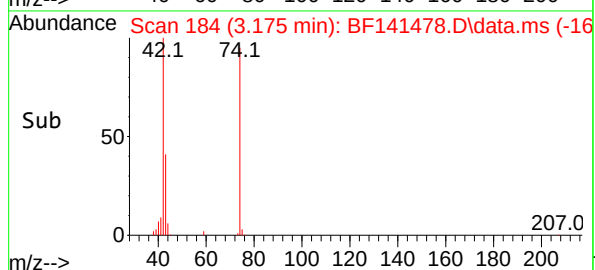
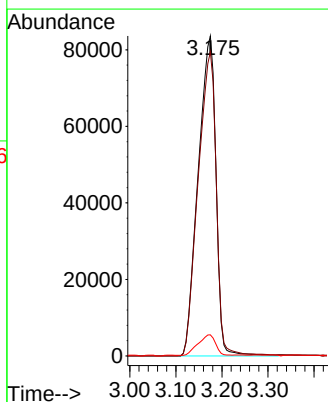
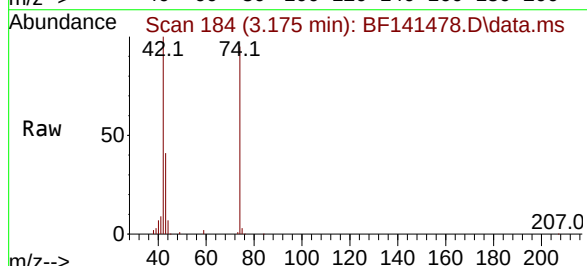
Tgt Ion: 42 Resp: 225031

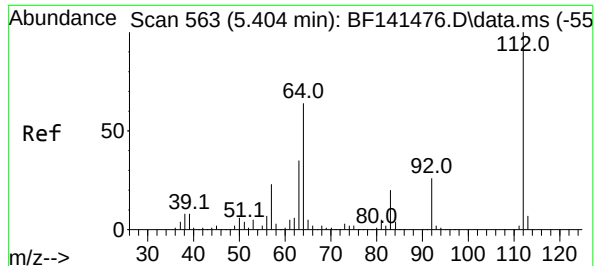
Ion Ratio Lower Upper

42 100

74 95.0 78.0 117.0

44 6.6 5.4 8.2

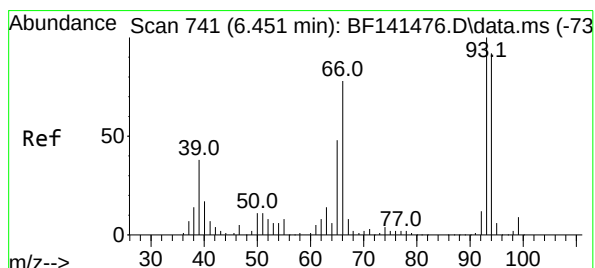
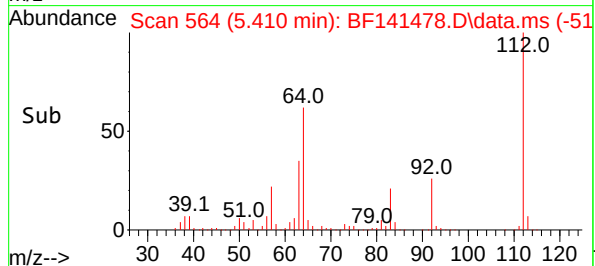
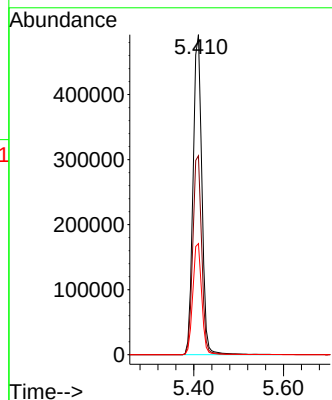
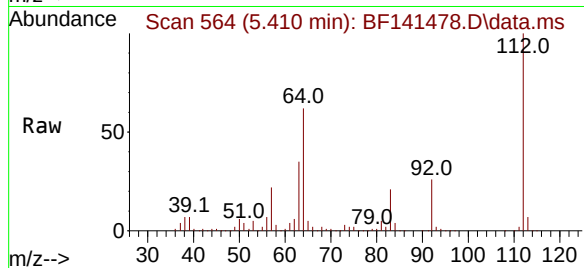




#5
2-Fluorophenol
Concen: 118.894 ng
RT: 5.410 min Scan# 50
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

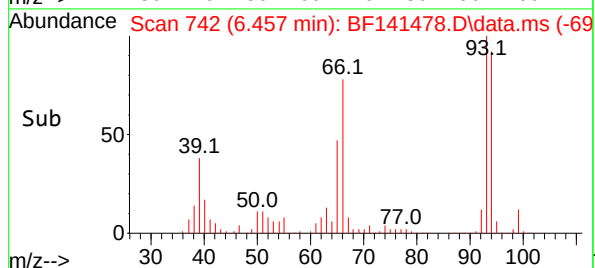
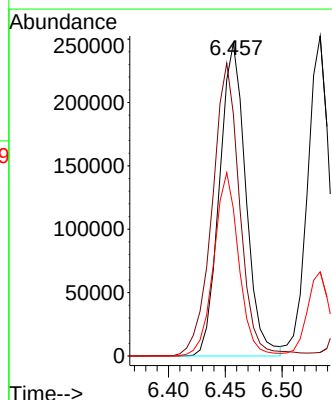
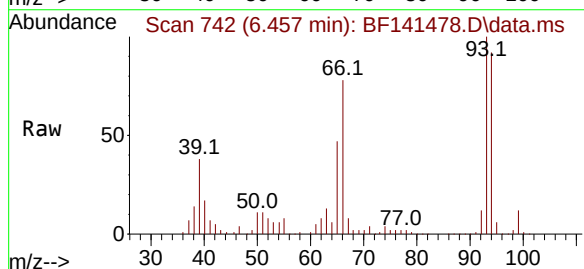
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

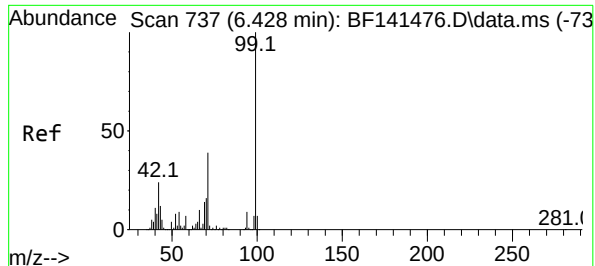
Tgt Ion:112 Resp: 672709
Ion Ratio Lower Upper
112 100
64 62.2 51.1 76.7
63 34.7 28.4 42.6



#6
Aniline
Concen: 59.254 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 93 Resp: 397494
Ion Ratio Lower Upper
93 100
66 77.6 62.6 94.0
65 47.2 38.3 57.5





#7

Phenol-d6

Concen: 117.937 ng

RT: 6.434 min Scan# 738

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

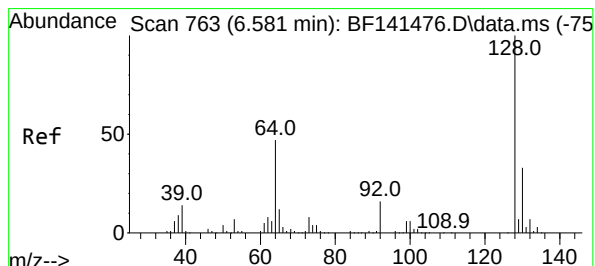
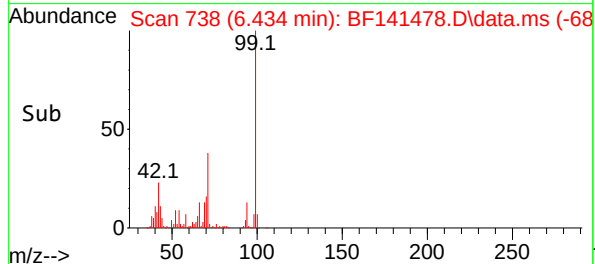
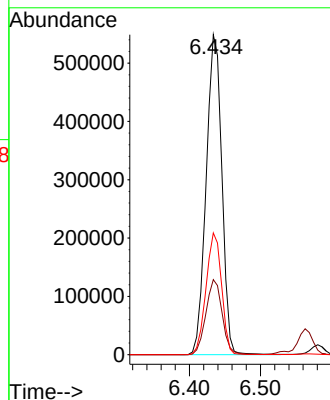
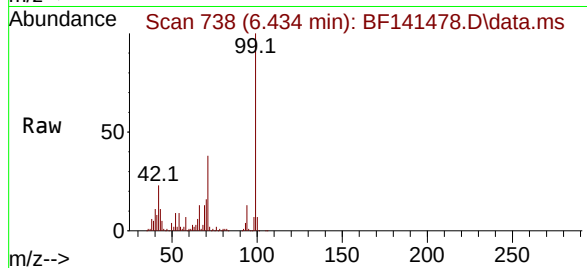
Tgt Ion: 99 Resp: 843410

Ion Ratio Lower Upper

99 100

42 23.5 19.1 28.7

71 38.0 31.1 46.7



#8

2-Chlorophenol

Concen: 58.561 ng

RT: 6.581 min Scan# 763

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

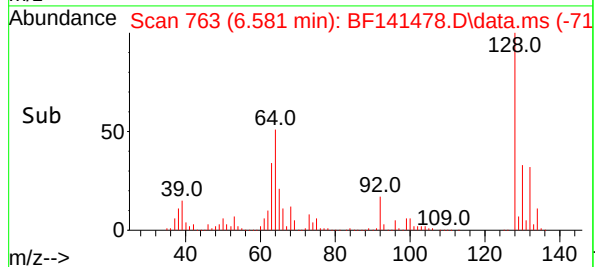
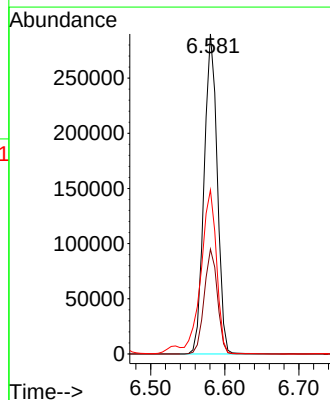
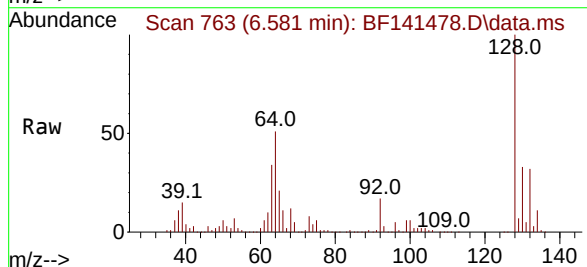
Tgt Ion: 128 Resp: 358027

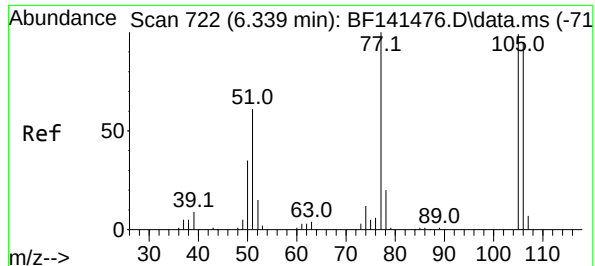
Ion Ratio Lower Upper

128 100

130 32.8 12.7 52.7

64 51.3 28.3 68.3





#9

Benzaldehyde

Concen: 49.441 ng

RT: 6.339 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

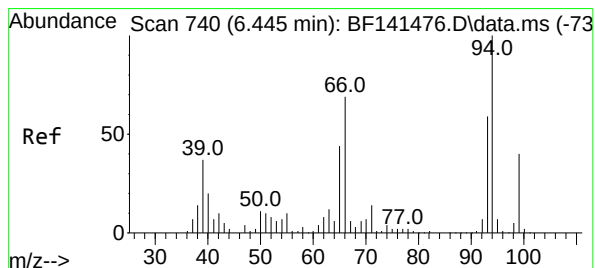
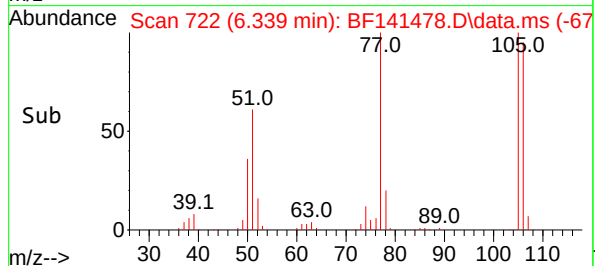
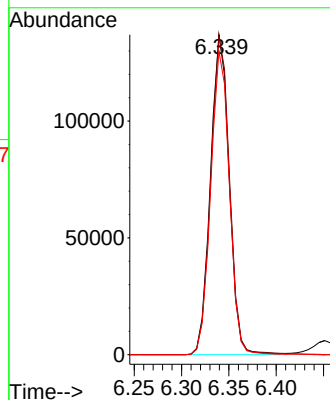
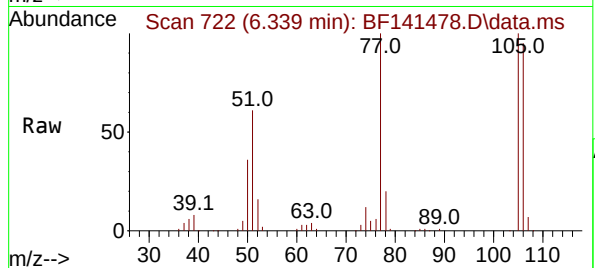
Tgt Ion: 77 Resp: 187887

Ion Ratio Lower Upper

77 100

105 99.7 79.4 119.4

106 94.9 75.1 115.1



#10

Phenol

Concen: 58.782 ng

RT: 6.451 min Scan# 741

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

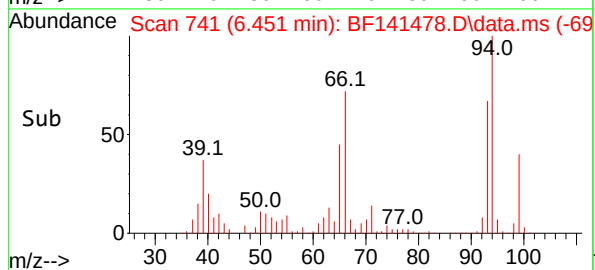
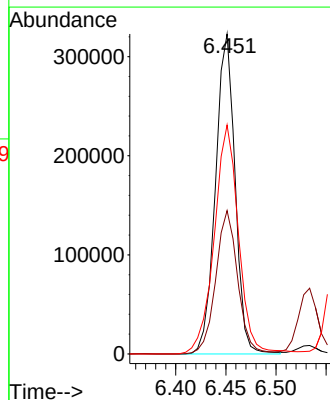
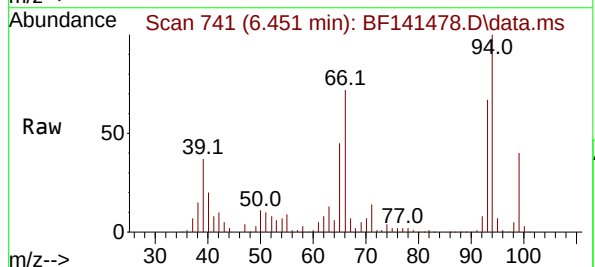
Tgt Ion: 94 Resp: 437528

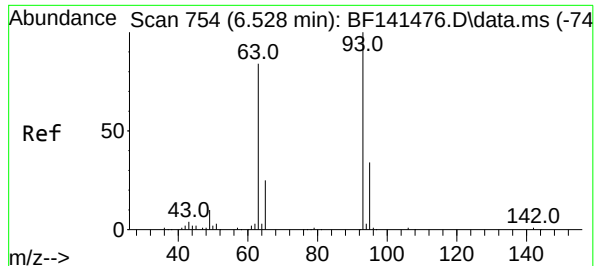
Ion Ratio Lower Upper

94 100

65 44.8 23.7 63.7

66 71.5 49.3 89.3

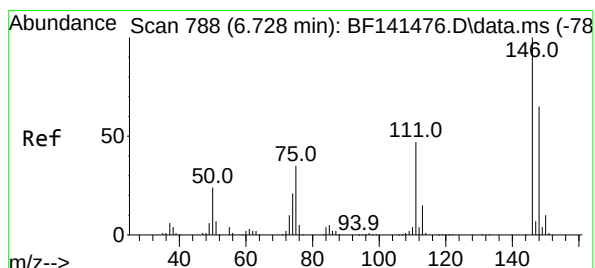
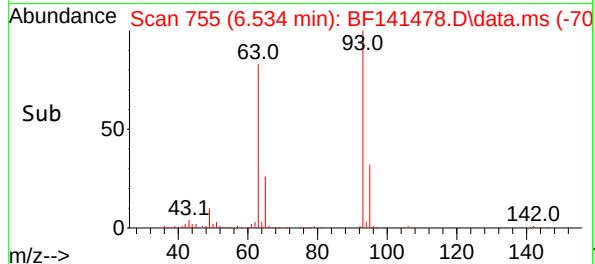
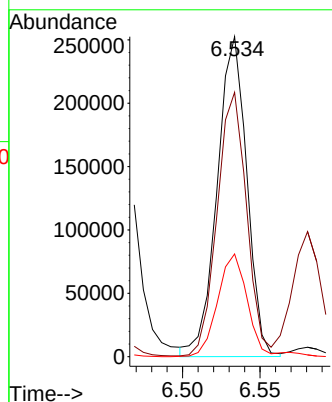
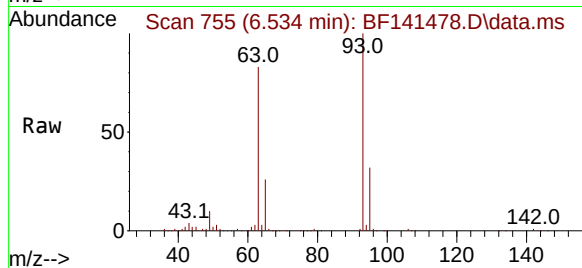




#11
bis(2-Chloroethyl)ether
Concen: 60.093 ng
RT: 6.534 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

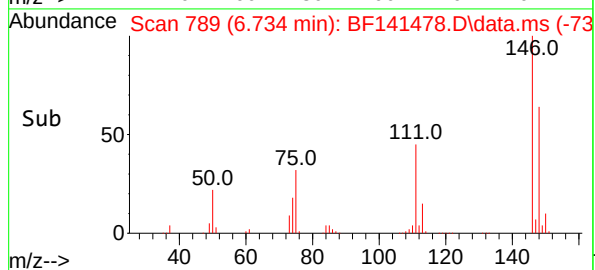
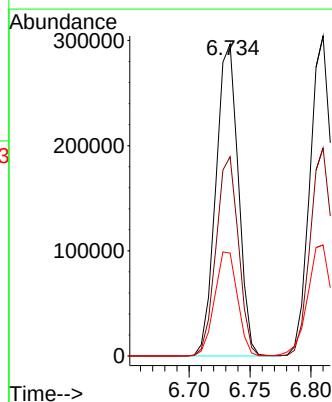
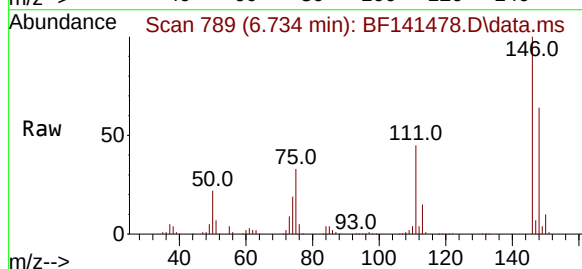
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

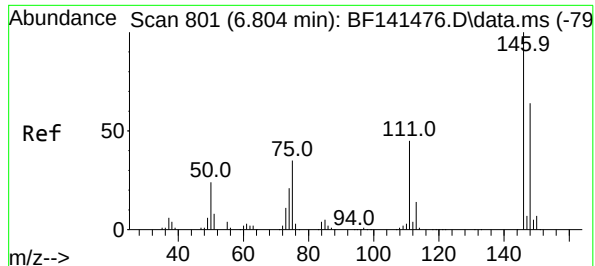
Tgt Ion: 93 Resp: 335957
Ion Ratio Lower Upper
93 100
63 82.6 62.0 102.0
95 32.1 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 58.941 ng
RT: 6.734 min Scan# 789
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:146 Resp: 380433
Ion Ratio Lower Upper
146 100
148 63.9 51.9 77.9
75 33.0 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 58.050 ng

RT: 6.810 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

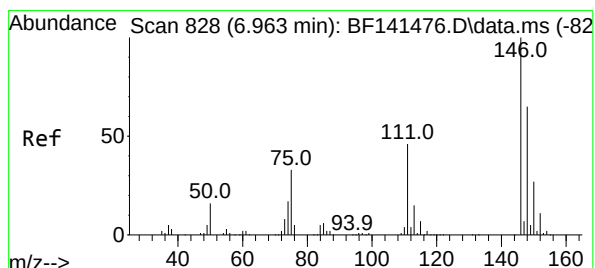
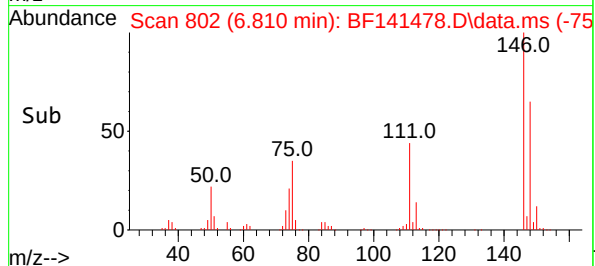
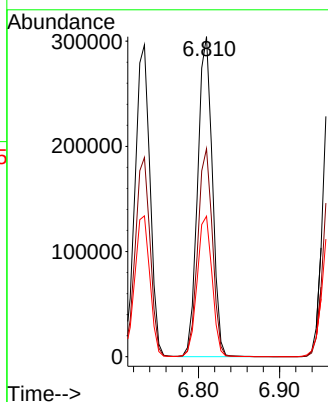
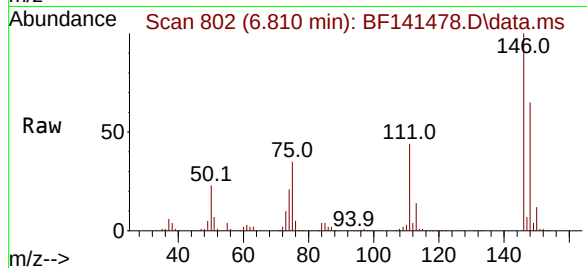
Tgt Ion:146 Resp: 382812

Ion Ratio Lower Upper

146 100

148 65.0 50.9 76.3

111 43.9 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 58.465 ng

RT: 6.963 min Scan# 828

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

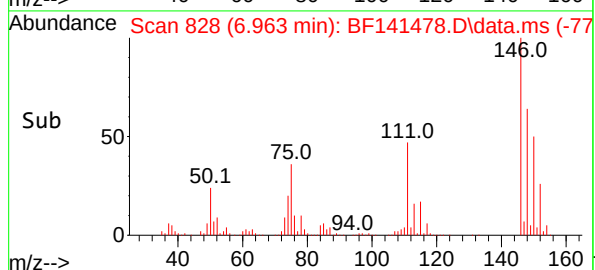
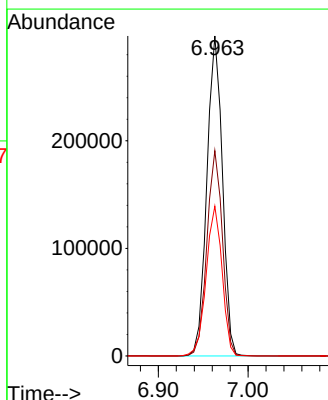
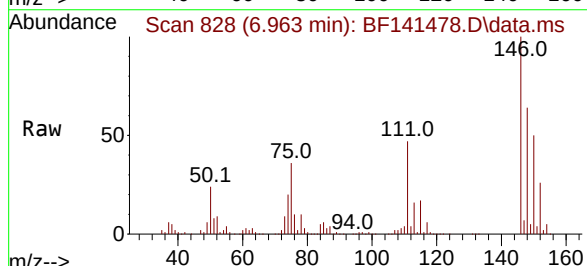
Tgt Ion:146 Resp: 357837

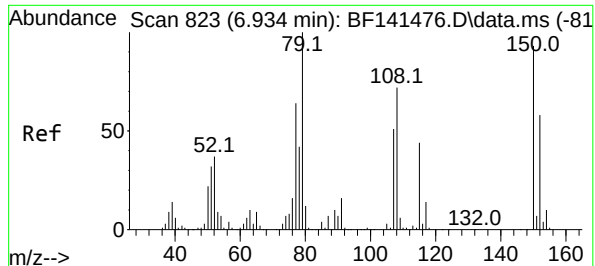
Ion Ratio Lower Upper

146 100

148 64.1 51.8 77.6

111 46.8 37.0 55.4





#15

Benzyl Alcohol

Concen: 59.125 ng

RT: 6.939 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

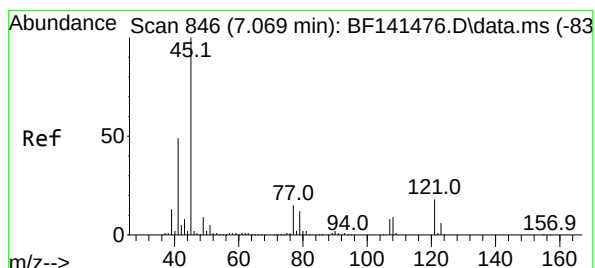
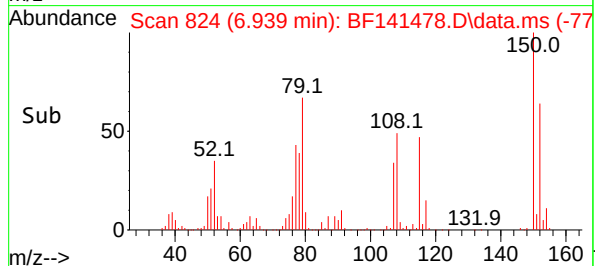
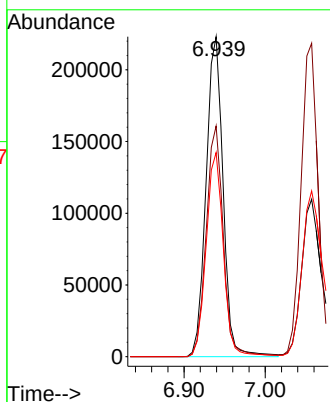
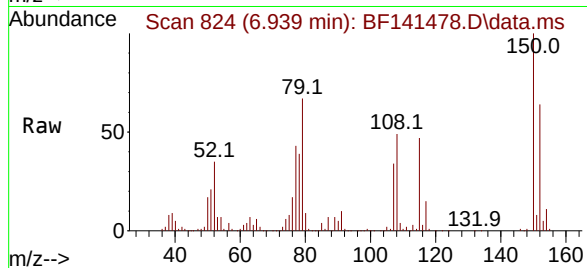
Tgt Ion: 79 Resp: 324244

Ion Ratio Lower Upper

79 100

108 72.1 57.4 86.2

77 63.8 50.9 76.3



#16

2,2'-oxybis(1-Chloropropane)

Concen: 57.883 ng

RT: 7.069 min Scan# 846

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

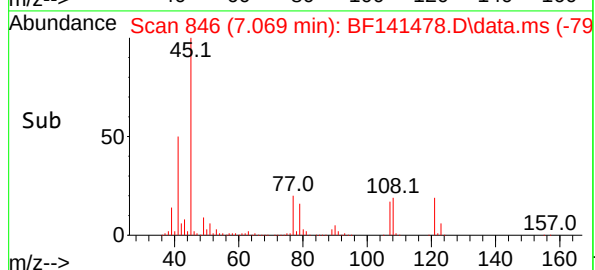
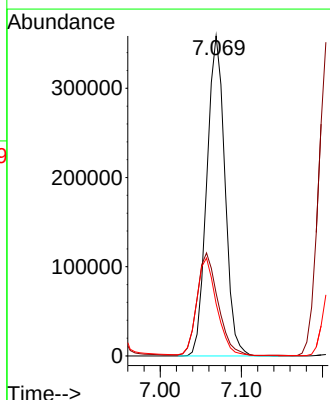
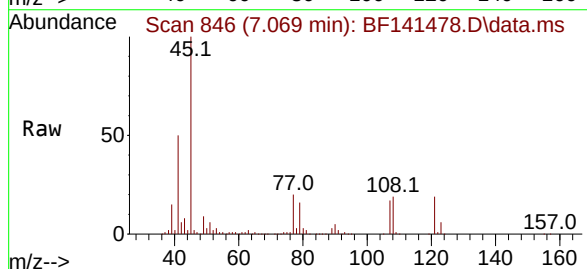
Tgt Ion: 45 Resp: 553943

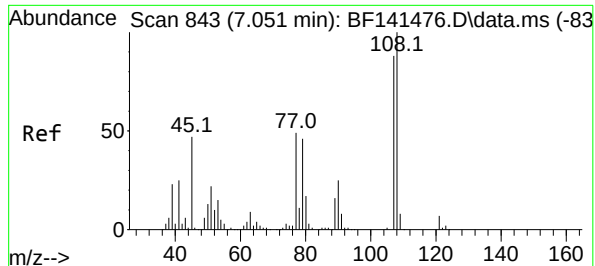
Ion Ratio Lower Upper

45 100

77 19.6 0.0 35.8

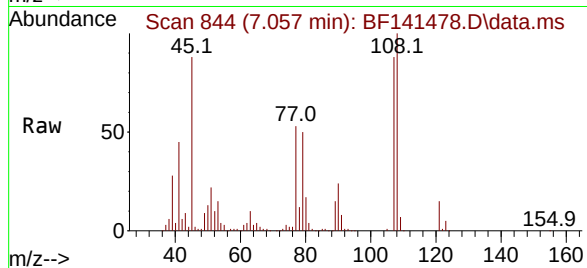
79 16.3 0.0 32.7



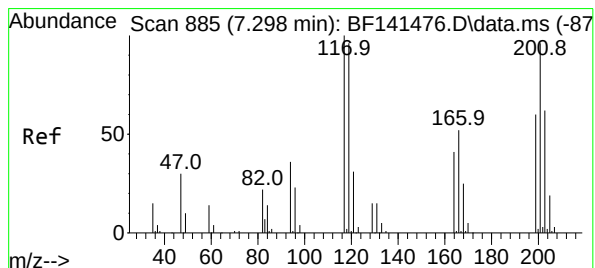
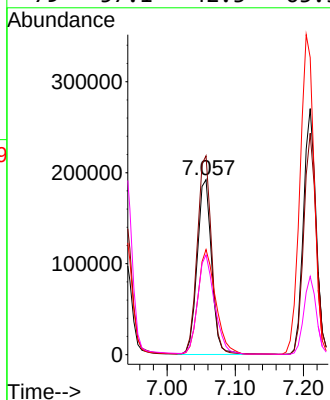
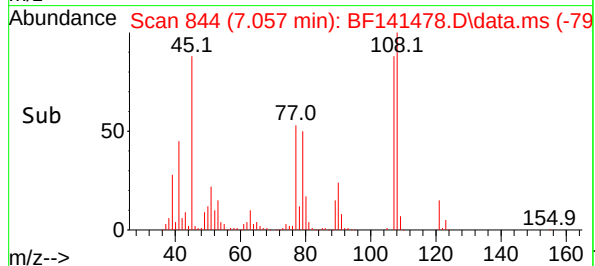


#17
2-Methylphenol
Concen: 59.272 ng
RT: 7.057 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

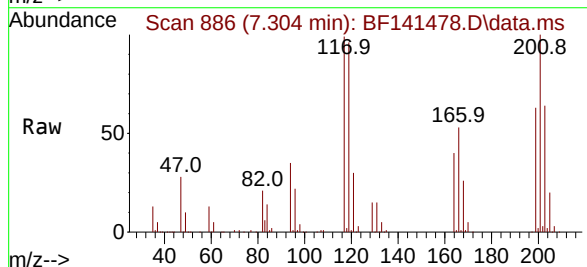
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



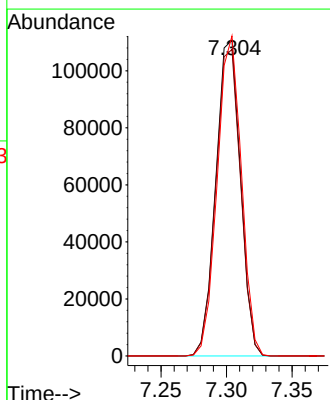
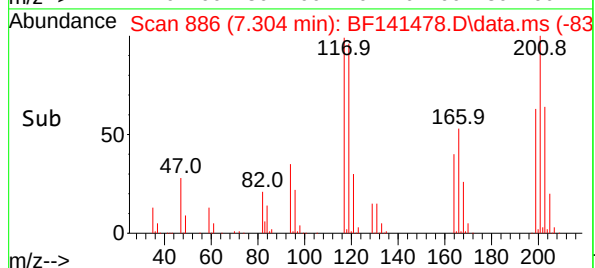
Tgt Ion:107 Resp: 283563
Ion Ratio Lower Upper
107 100
108 113.6 90.6 136.0
77 60.1 44.4 66.6
79 57.1 42.3 63.5

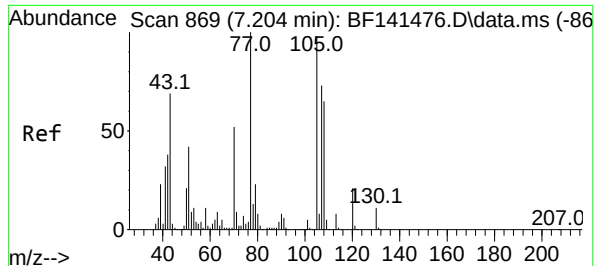


#18
Hexachloroethane
Concen: 59.337 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47



Tgt Ion:117 Resp: 144816
Ion Ratio Lower Upper
117 100
119 97.1 76.5 114.7
201 101.4 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 58.540 ng

RT: 7.210 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion: 70 Resp: 250412

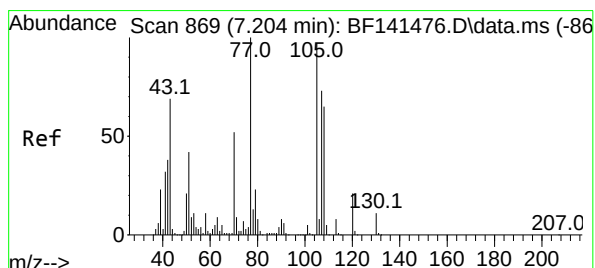
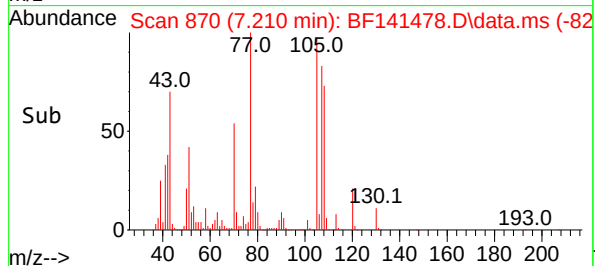
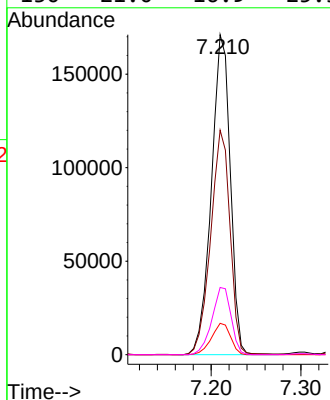
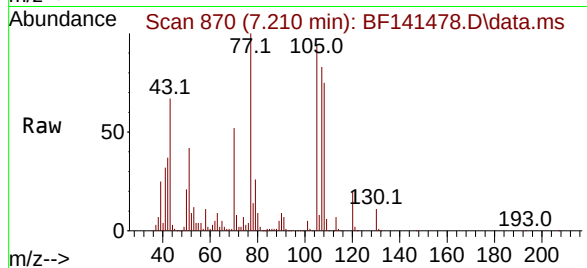
Ion Ratio Lower Upper

70 100

42 70.1 57.4 86.2

101 9.8 8.0 12.0

130 21.0 16.9 25.3



#20

3+4-Methylphenols

Concen: 57.722 ng

RT: 7.210 min Scan# 870

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Tgt Ion: 107 Resp: 350980

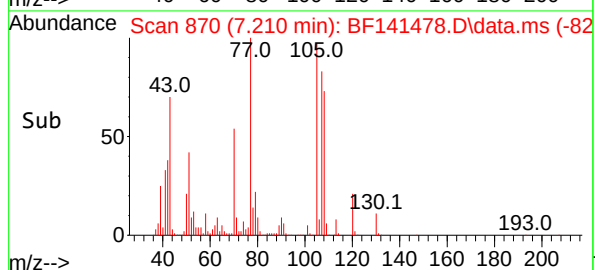
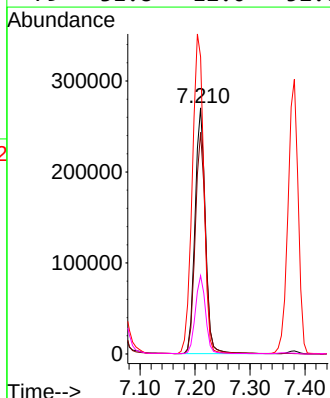
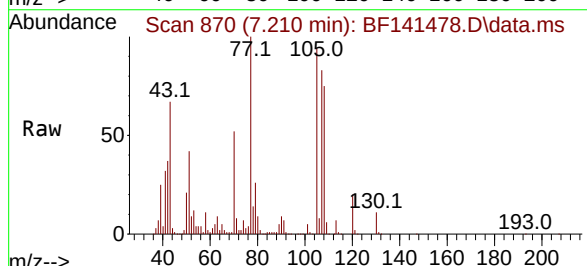
Ion Ratio Lower Upper

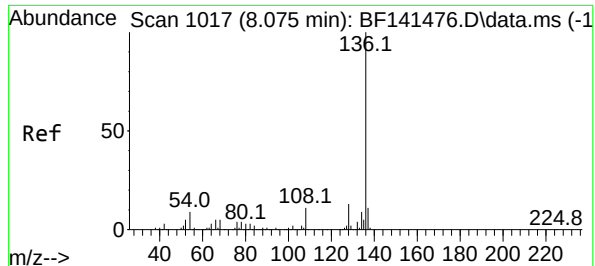
107 100

108 90.0 68.5 108.5

77 120.7 116.5 156.5

79 31.8 12.0 52.0

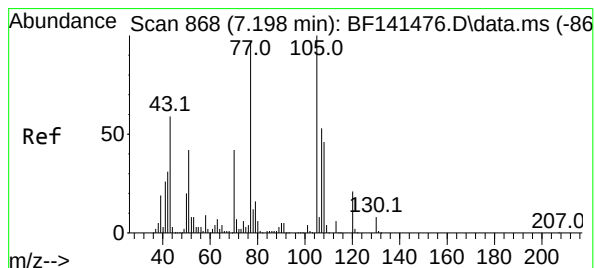
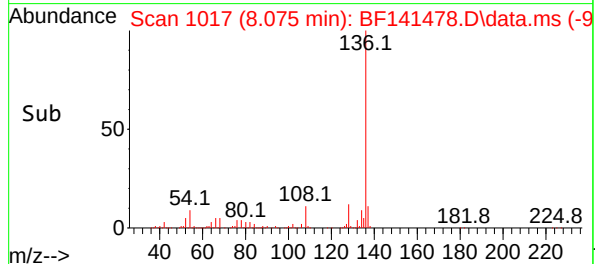
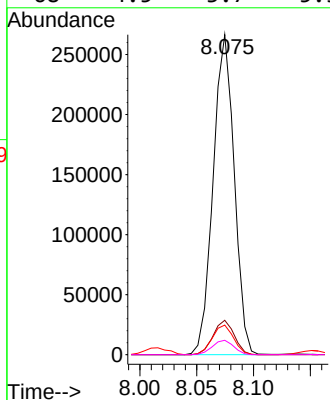
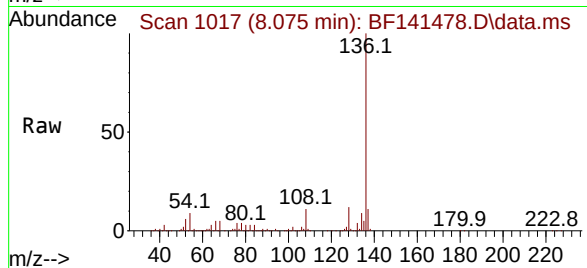




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

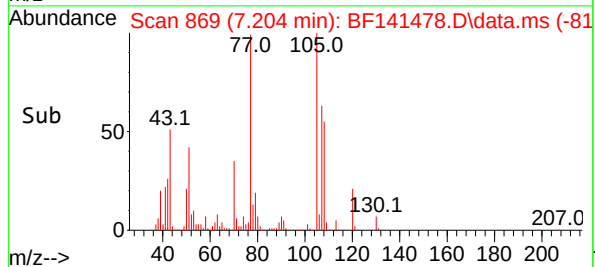
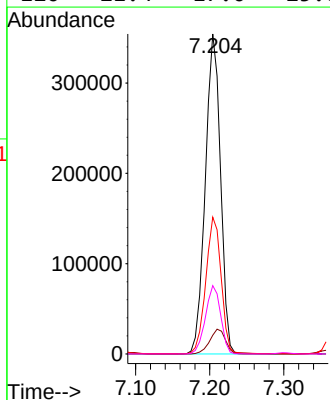
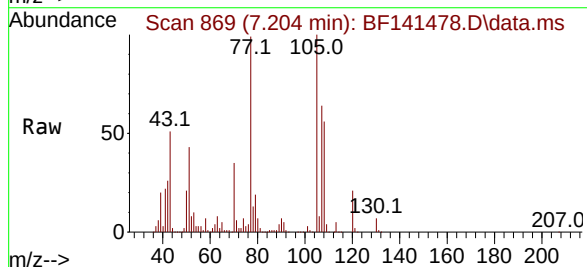
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

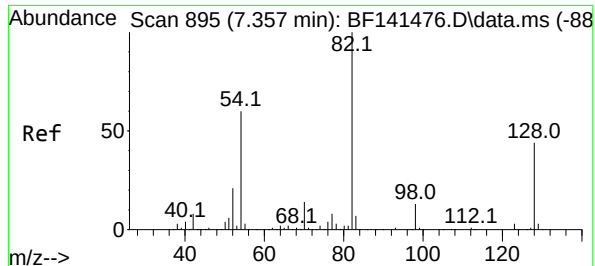
Tgt Ion:136 Resp: 344609
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.2 7.2 10.8
68 4.5 3.7 5.5



#22
Acetophenone
Concen: 58.828 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:105 Resp: 504294
Ion Ratio Lower Upper
105 100
71 5.9 5.7 8.5
51 42.7 33.7 50.5
120 21.4 17.0 25.6





#23

Nitrobenzene-d5

Concen: 119.351 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

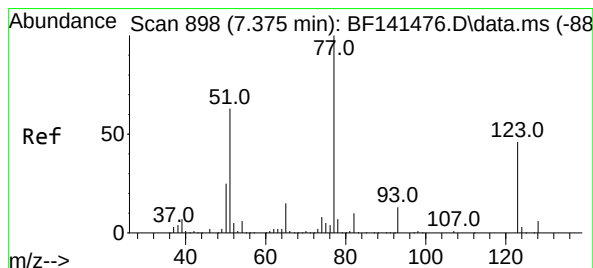
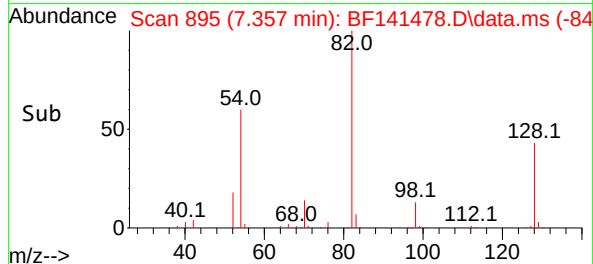
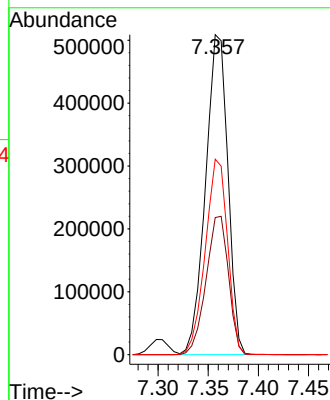
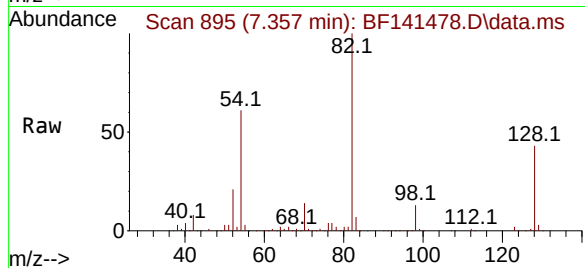
BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion: 82 Resp: 788550

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.8	52.2
54	61.1	48.2	72.4



#24

Nitrobenzene

Concen: 60.096 ng

RT: 7.381 min Scan# 899

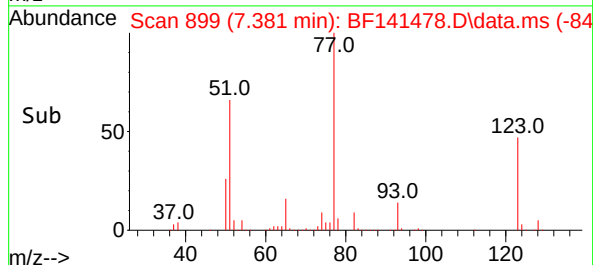
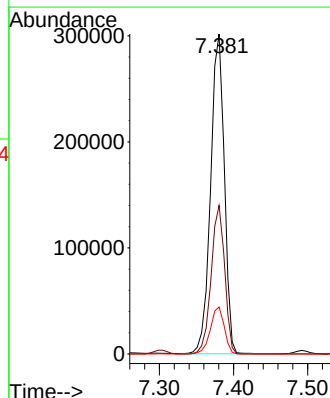
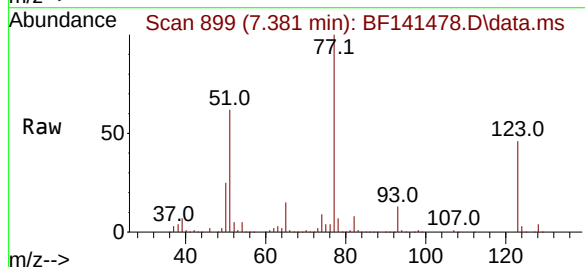
Delta R.T. 0.000 min

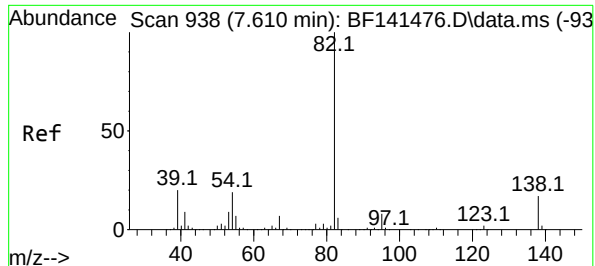
Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Tgt Ion: 77 Resp: 387174

Ion	Ratio	Lower	Upper
77	100		
123	46.4	36.9	55.3
65	14.7	11.9	17.9

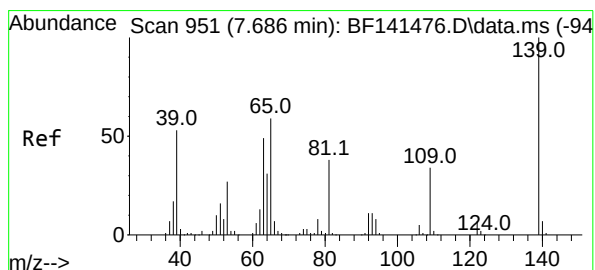
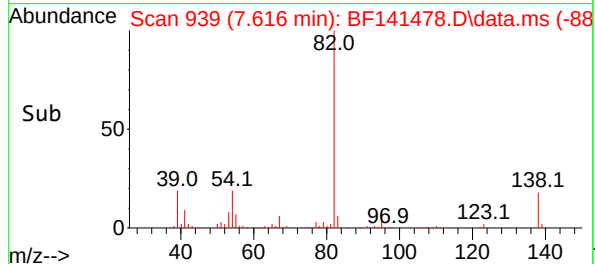
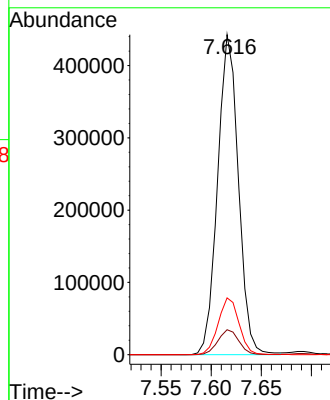
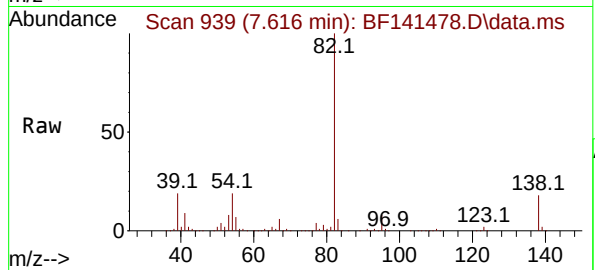




#25
Isophorone
Concen: 60.562 ng
RT: 7.616 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

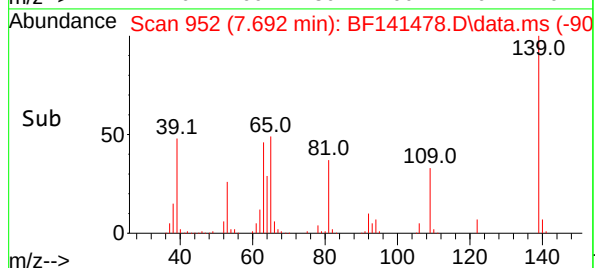
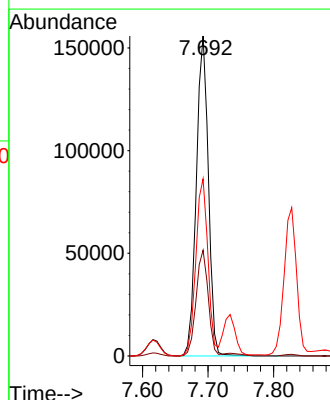
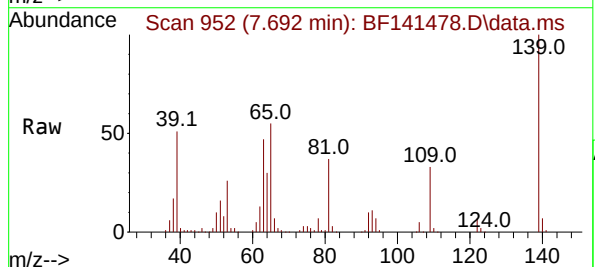
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

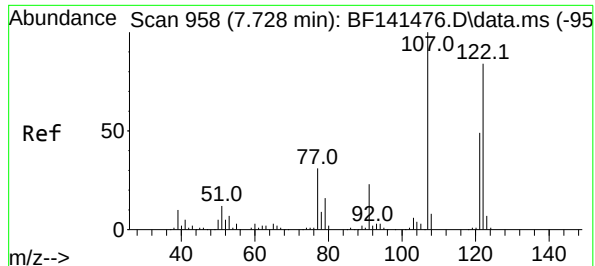
Tgt Ion: 82 Resp: 638004
Ion Ratio Lower Upper
82 100
95 7.8 6.4 9.6
138 17.7 13.9 20.9



#26
2-Nitrophenol
Concen: 62.128 ng
RT: 7.692 min Scan# 952
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 139 Resp: 199140
Ion Ratio Lower Upper
139 100
109 33.1 27.0 40.6
65 55.3 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 60.836 ng

RT: 7.733 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

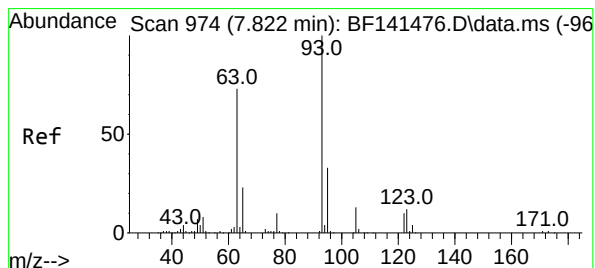
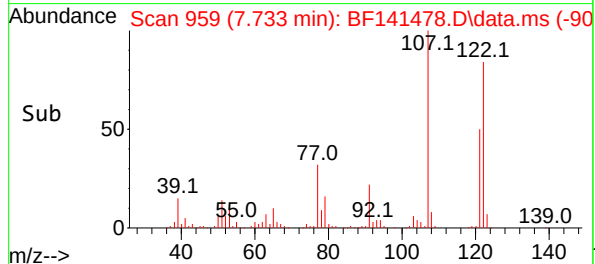
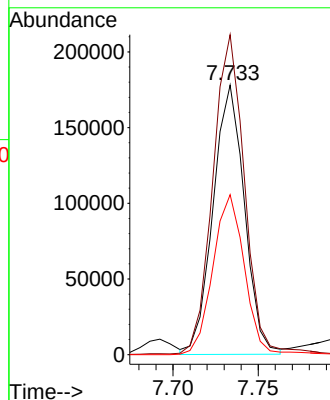
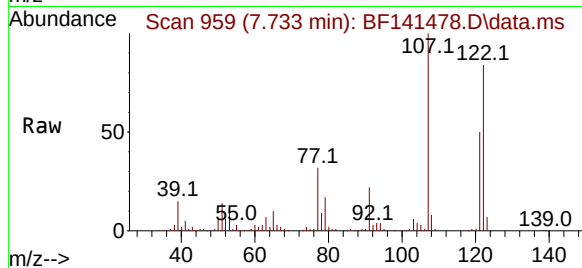
Tgt Ion:122 Resp: 227803

Ion Ratio Lower Upper

122 100

107 118.7 94.3 141.5

121 59.4 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 59.877 ng

RT: 7.828 min Scan# 975

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

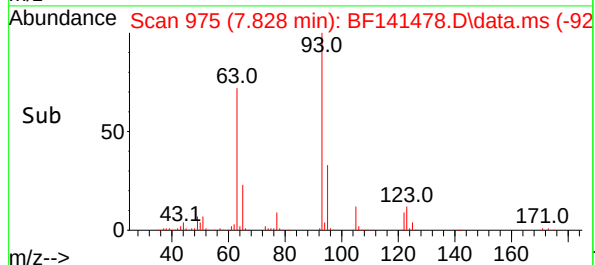
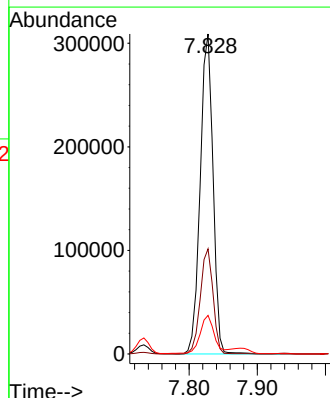
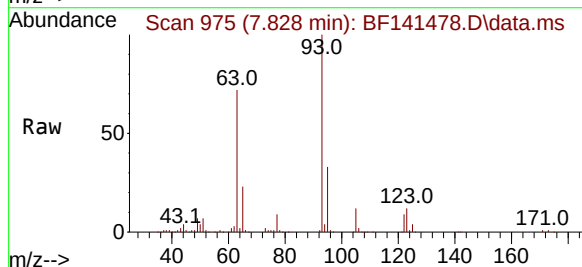
Tgt Ion: 93 Resp: 404195

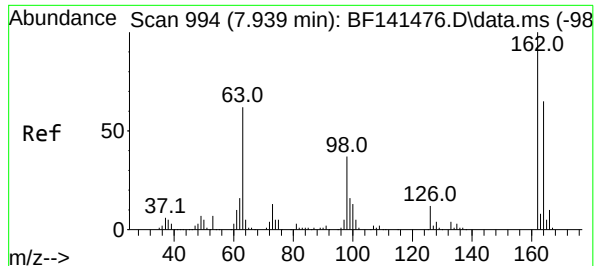
Ion Ratio Lower Upper

93 100

95 32.8 26.1 39.1

123 12.1 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 59.683 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

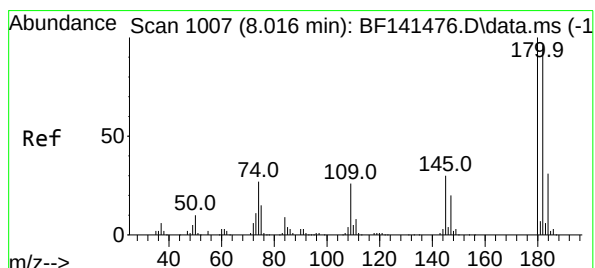
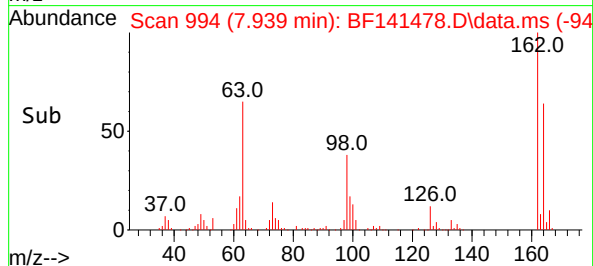
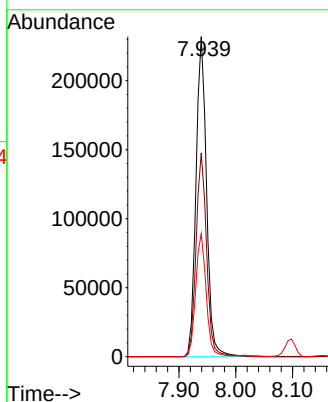
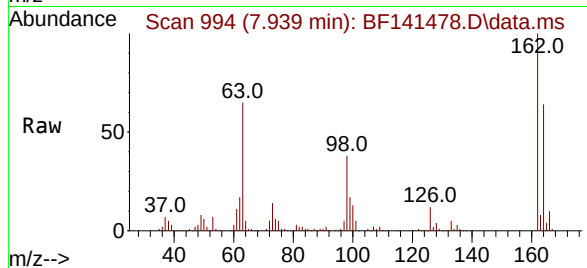
Tgt Ion:162 Resp: 301959

Ion Ratio Lower Upper

162 100

164 63.7 44.6 84.6

98 38.4 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 59.561 ng

RT: 8.016 min Scan# 1007

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

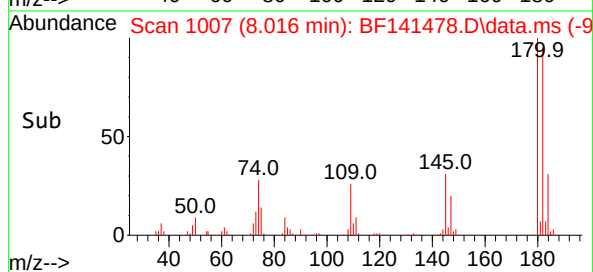
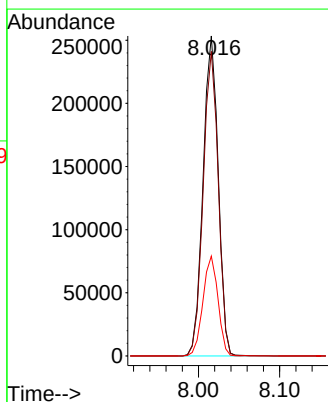
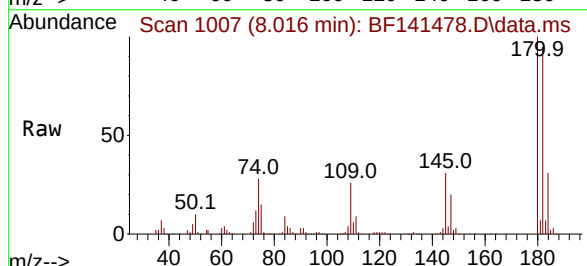
Tgt Ion:180 Resp: 328150

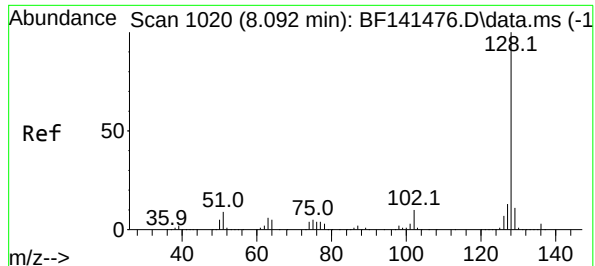
Ion Ratio Lower Upper

180 100

182 95.2 76.8 115.2

145 31.2 24.2 36.4





#31

Naphthalene

Concen: 58.889 ng

RT: 8.098 min Scan# 1020

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

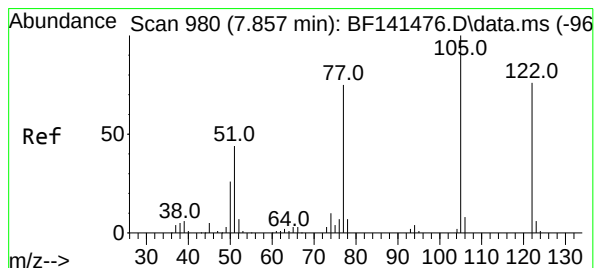
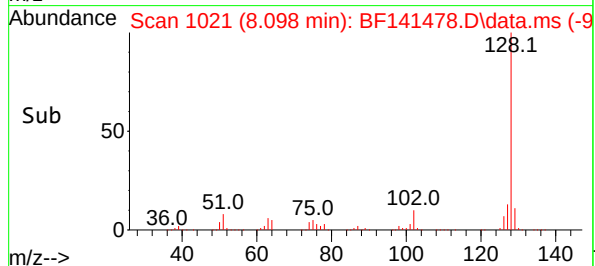
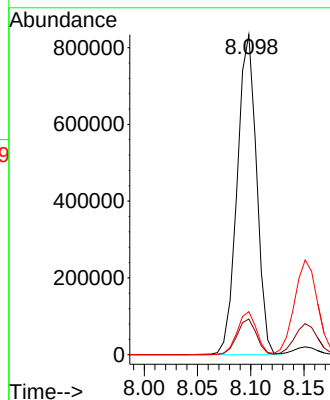
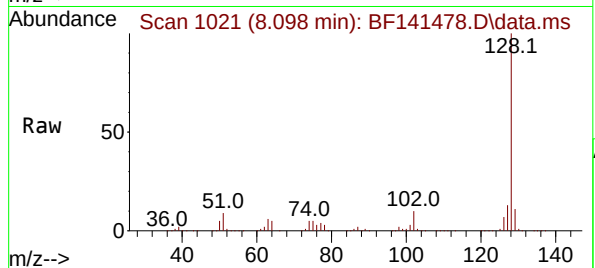
Tgt Ion:128 Resp: 1056367

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.4 10.7 16.1



#32

Benzoic acid

Concen: 64.532 ng

RT: 7.875 min Scan# 983

Delta R.T. -0.017 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

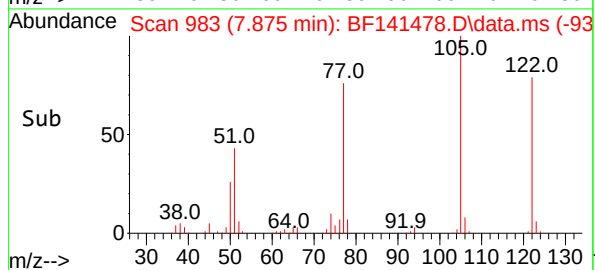
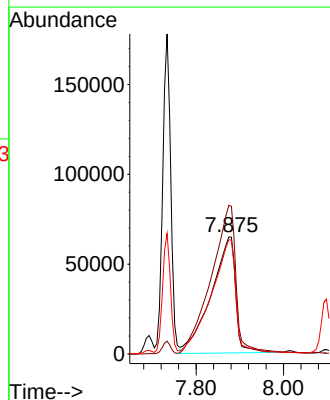
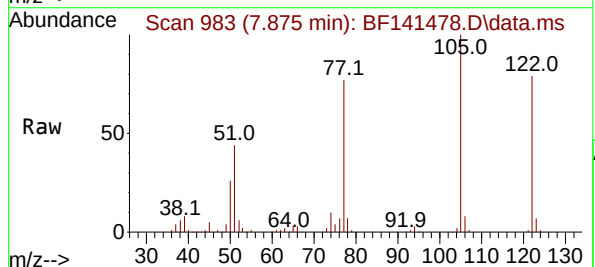
Tgt Ion:122 Resp: 250995

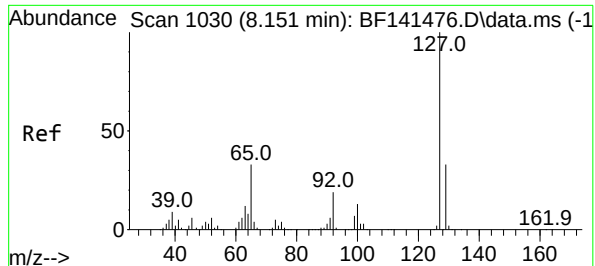
Ion Ratio Lower Upper

122 100

105 127.0 106.5 146.5

77 97.7 76.3 116.3

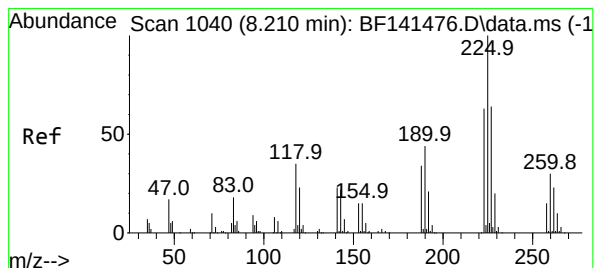
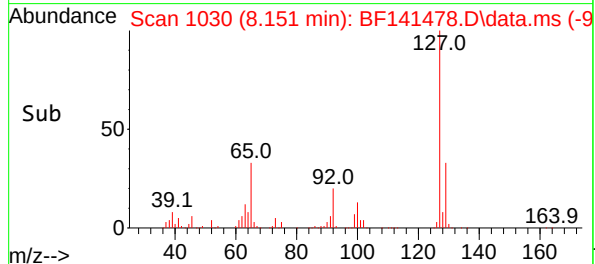
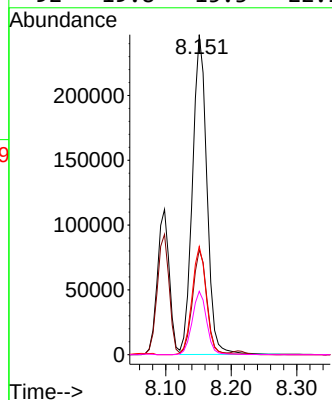
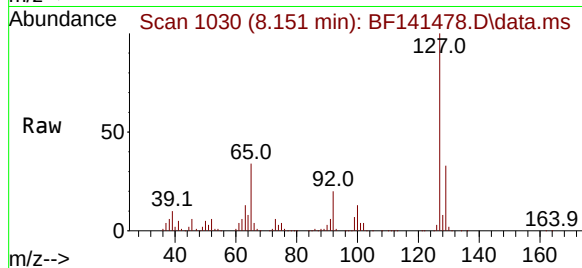




#33
4-Chloroaniline
Concen: 60.070 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

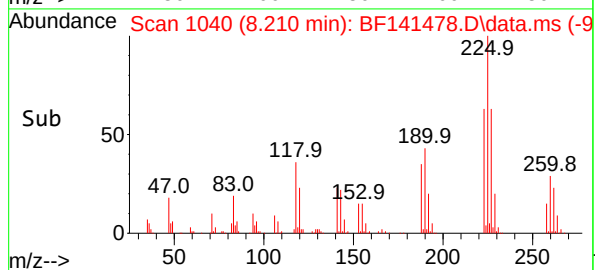
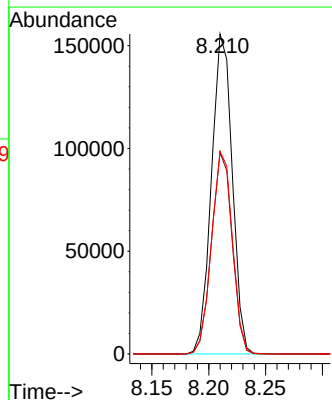
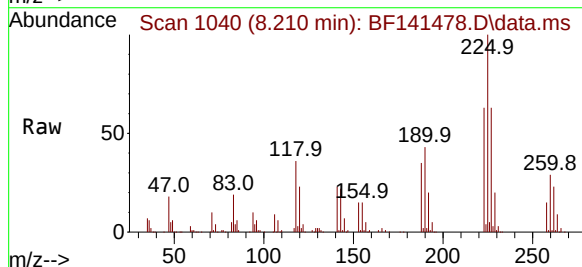
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

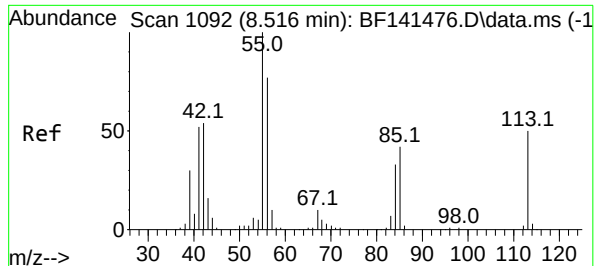
Tgt Ion:	127	Resp:	376211
Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.5	39.7
65	33.8	26.4	39.6
92	19.8	15.3	22.9



#34
Hexachlorobutadiene
Concen: 59.849 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:	225	Resp:	197955
Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	63.4	51.0	76.6

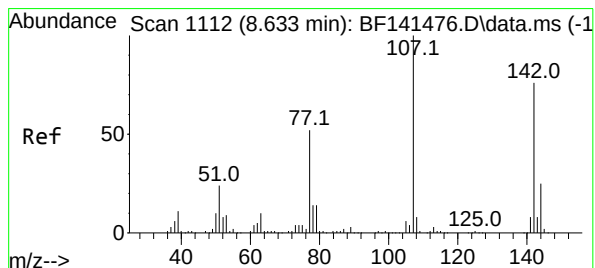
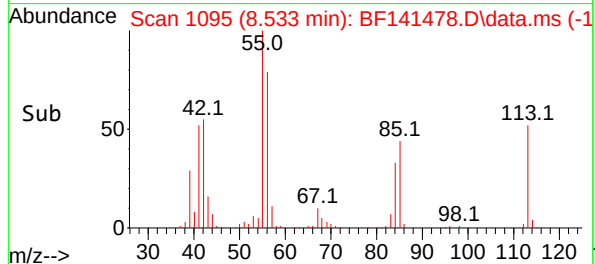
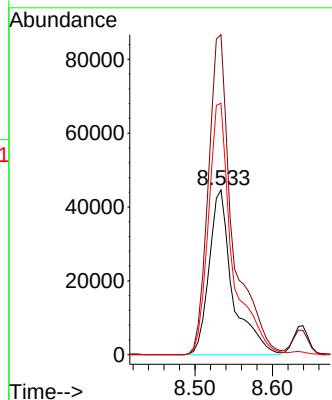
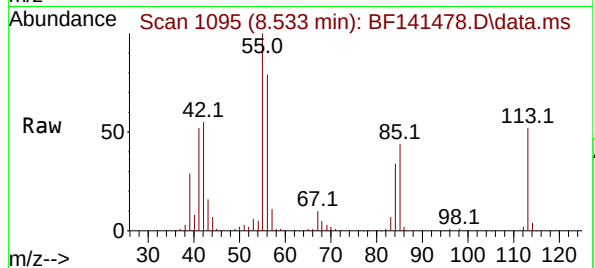




#35
Caprolactam
Concen: 61.291 ng
RT: 8.533 min Scan# 1109
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

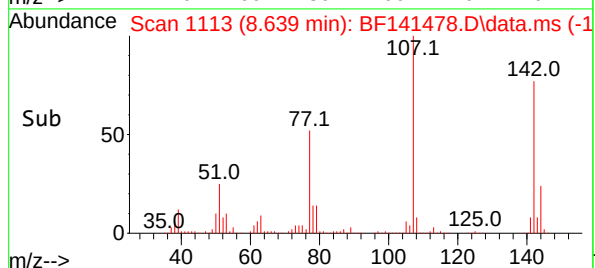
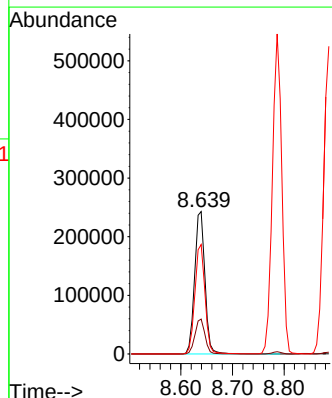
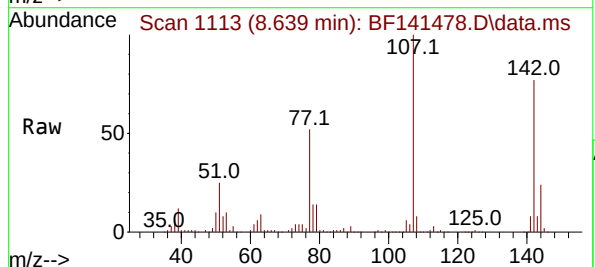
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

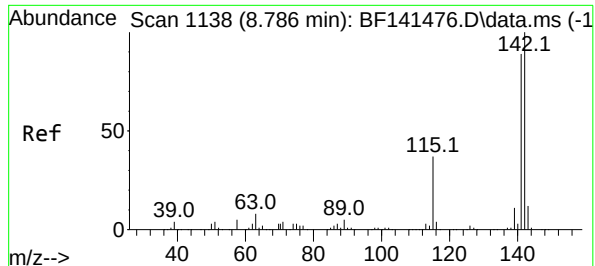
Tgt Ion:113 Resp: 94415
Ion Ratio Lower Upper
113 100
55 194.1 180.8 220.8
56 152.5 133.6 173.6



#36
4-Chloro-3-methylphenol
Concen: 59.935 ng
RT: 8.639 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:107 Resp: 335897
Ion Ratio Lower Upper
107 100
144 24.5 19.7 29.5
142 76.8 60.8 91.2





#37

2-Methylnaphthalene

Concen: 58.941 ng

RT: 8.786 min Scan# 1138

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

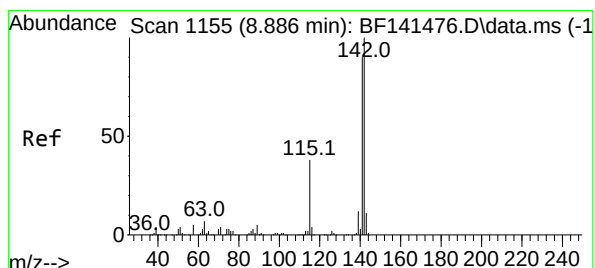
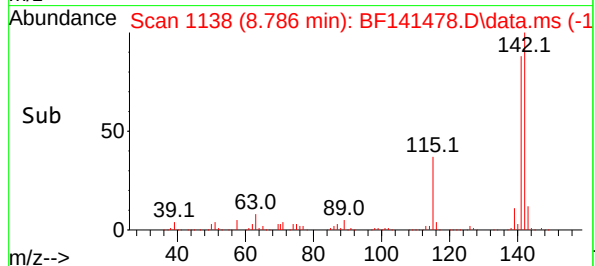
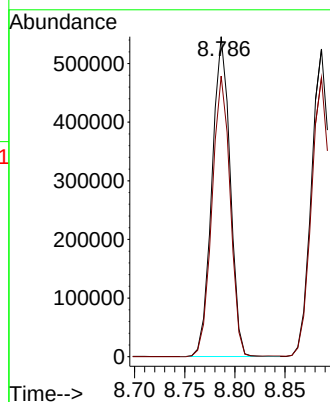
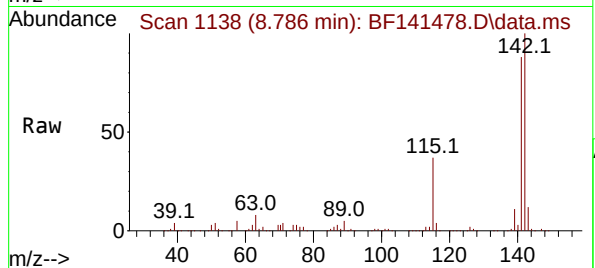
SSTDICC060

Tgt Ion:142 Resp: 688021

Ion Ratio Lower Upper

142 100

141 87.7 71.2 106.8



#38

1-Methylnaphthalene

Concen: 58.522 ng

RT: 8.886 min Scan# 1155

Delta R.T. 0.000 min

Lab File: BF141478.D

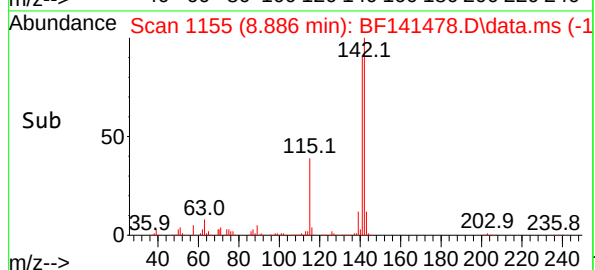
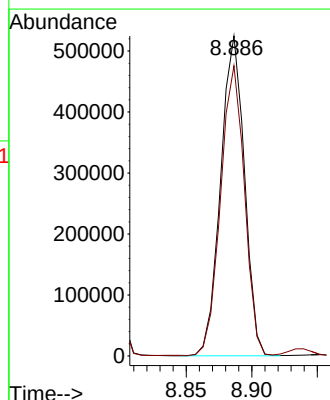
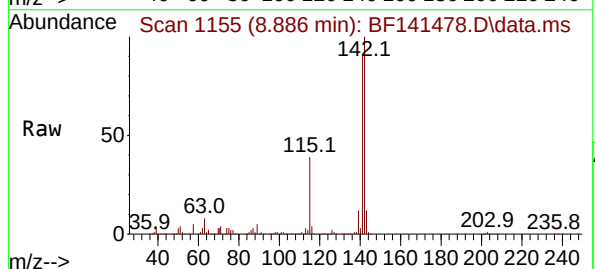
Acq: 06 Feb 2025 13:47

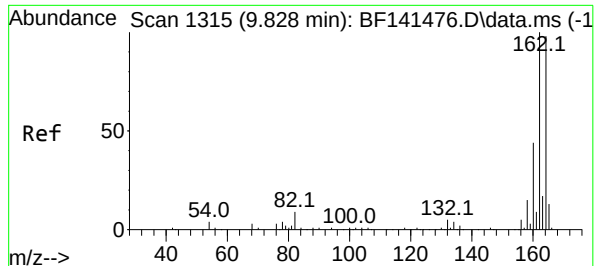
Tgt Ion:142 Resp: 661628

Ion Ratio Lower Upper

142 100

141 90.7 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.827 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

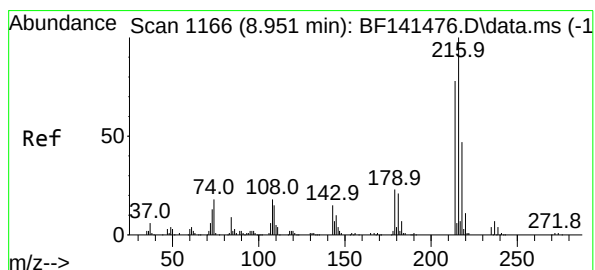
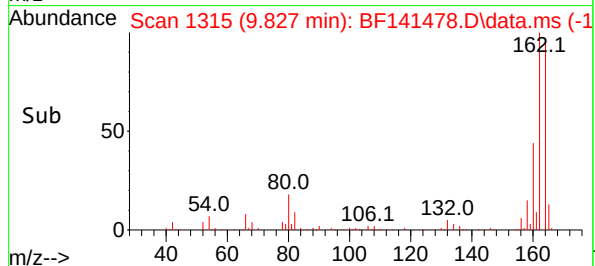
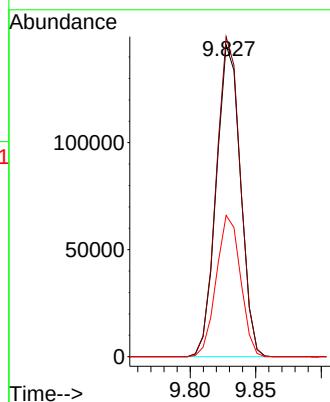
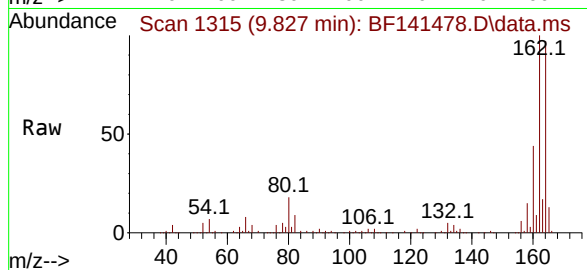
Tgt Ion:164 Resp: 186729

Ion Ratio Lower Upper

164 100

162 102.6 81.3 121.9

160 45.3 35.9 53.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 59.560 ng

RT: 8.951 min Scan# 1166

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Tgt Ion:216 Resp: 321763

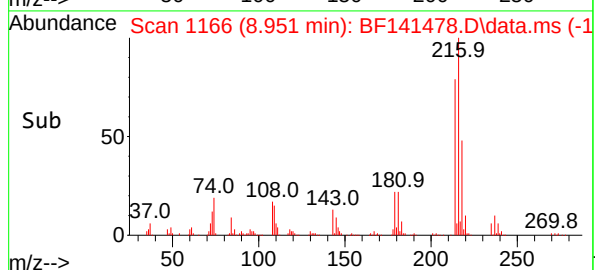
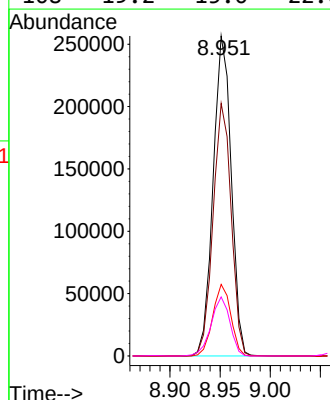
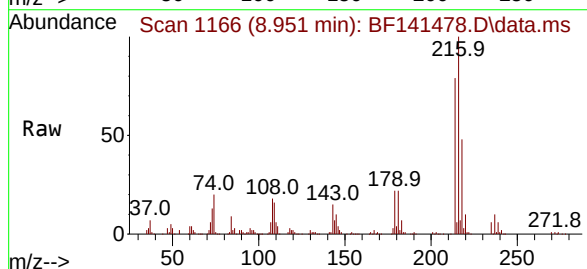
Ion Ratio Lower Upper

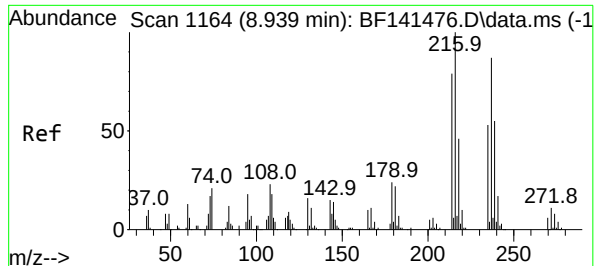
216 100

214 79.0 62.3 93.5

179 22.3 18.0 27.0

108 19.2 15.0 22.6

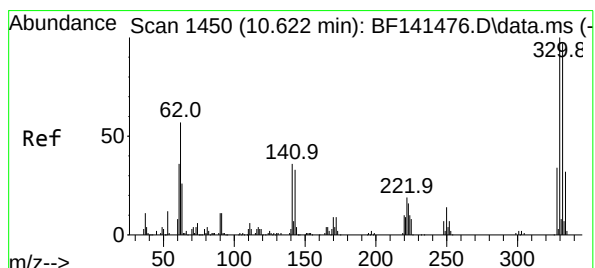
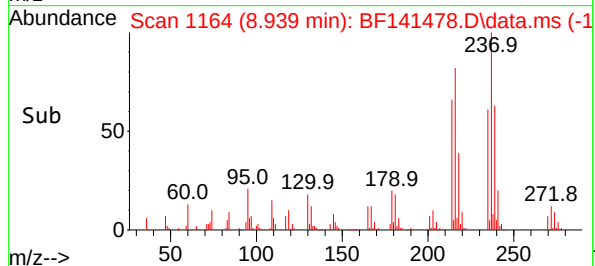
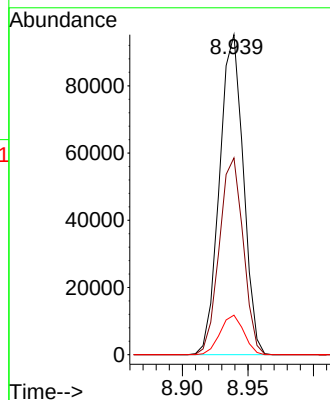
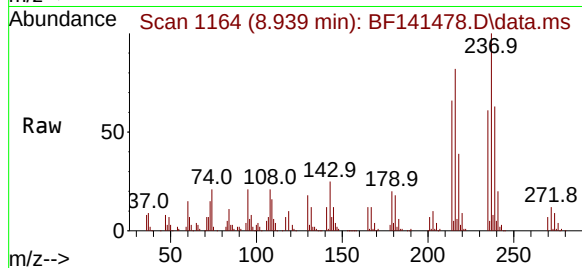




#41
Hexachlorocyclopentadiene
Concen: 66.819 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

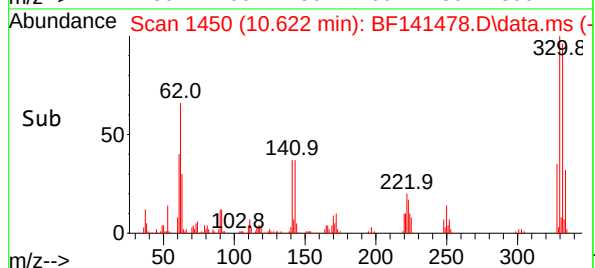
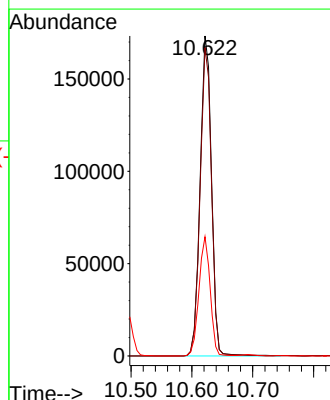
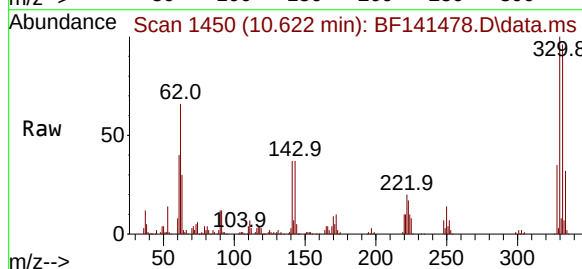
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

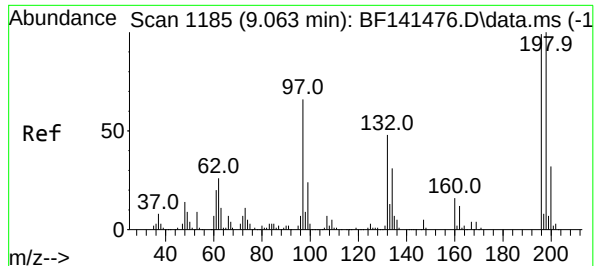
Tgt Ion:237 Resp: 120063
Ion Ratio Lower Upper
237 100
235 61.5 41.4 81.4
272 12.4 0.0 32.4



#42
2,4,6-Tribromophenol
Concen: 119.976 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:330 Resp: 225049
Ion Ratio Lower Upper
330 100
332 96.2 78.5 117.7
141 36.9 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 60.632 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141478.D

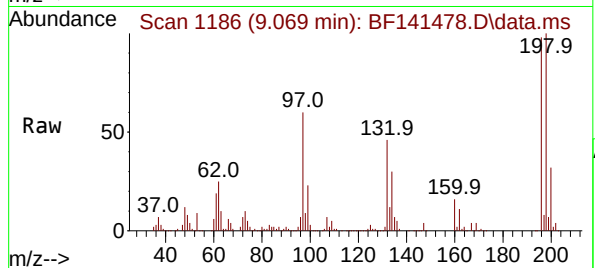
Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060



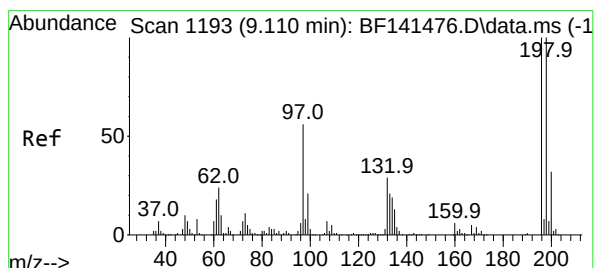
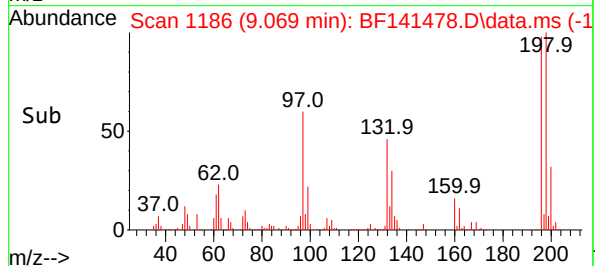
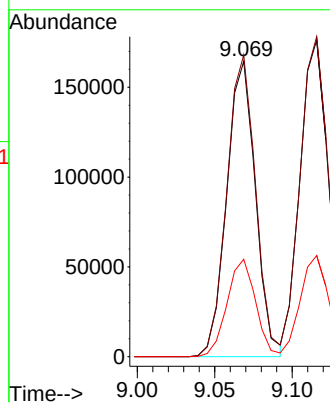
Tgt Ion:196 Resp: 211702

Ion Ratio Lower Upper

196 100

198 102.2 80.6 121.0

200 33.0 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 60.519 ng

RT: 9.116 min Scan# 1194

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Tgt Ion:196 Resp: 229006

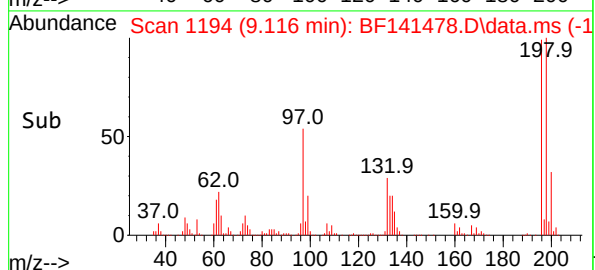
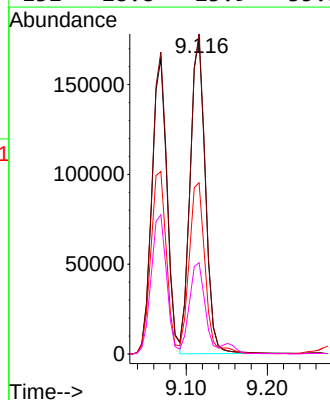
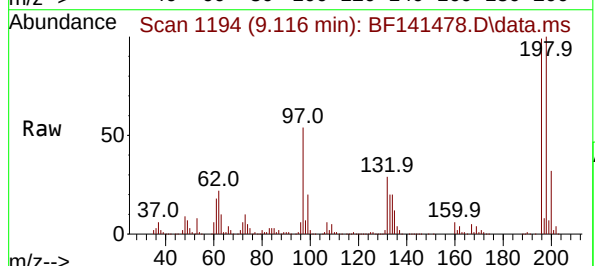
Ion Ratio Lower Upper

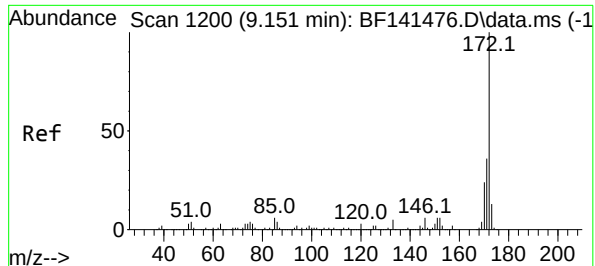
196 100

198 101.1 79.8 119.8

97 54.1 44.8 67.2

132 28.8 23.9 35.9

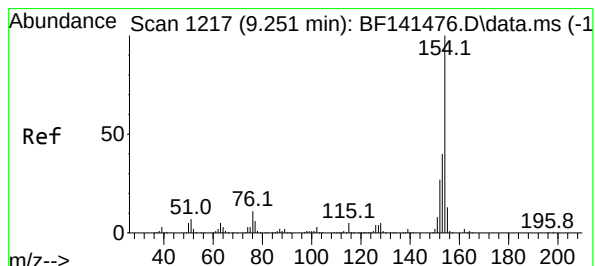
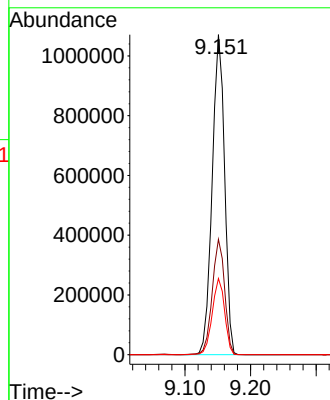
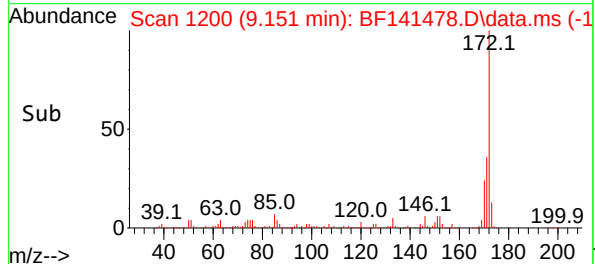
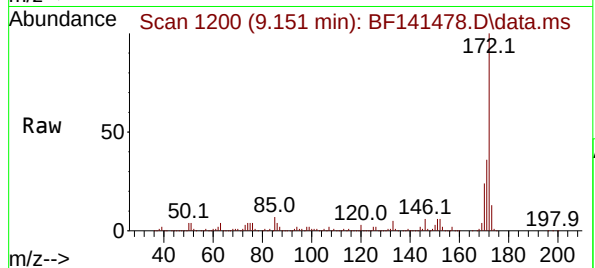




#45
2-Fluorobiphenyl
Concen: 116.358 ng
RT: 9.151 min Scan# 1200
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

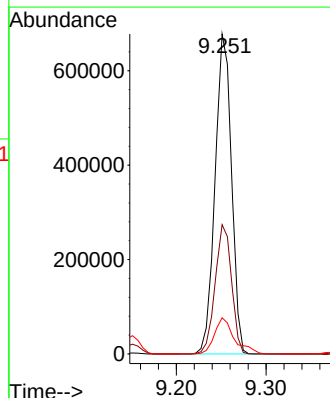
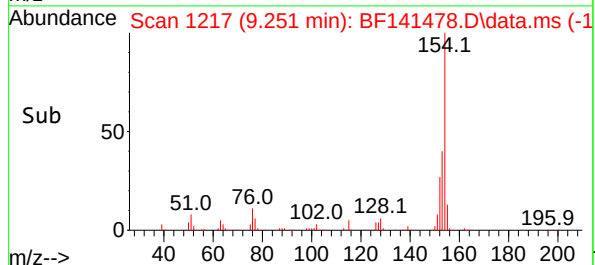
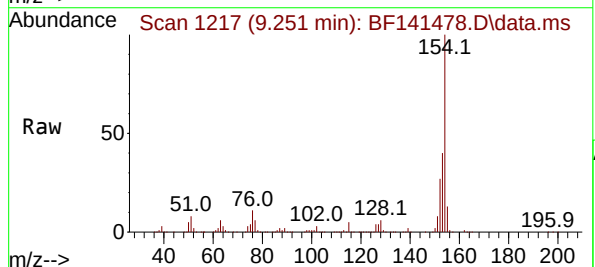
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

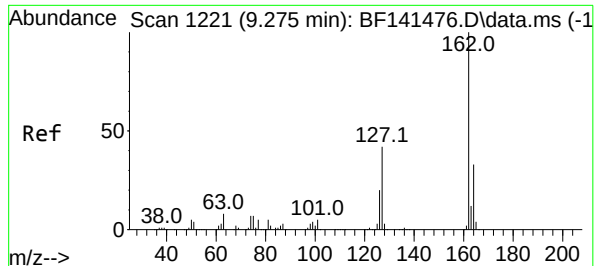
Tgt Ion:172 Resp: 1410277
Ion Ratio Lower Upper
172 100
171 36.1 28.7 43.1
170 23.8 18.9 28.3



#46
1,1'-Biphenyl
Concen: 59.479 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:154 Resp: 861067
Ion Ratio Lower Upper
154 100
153 40.4 20.4 60.4
76 11.3 0.0 30.8

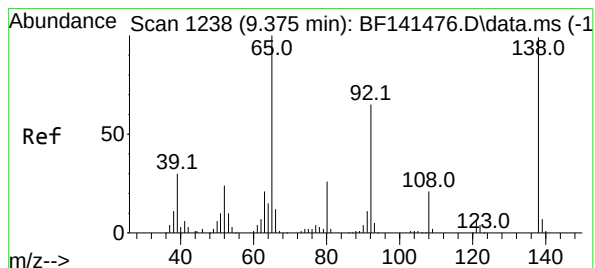
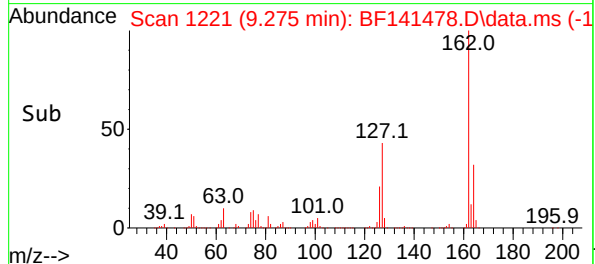
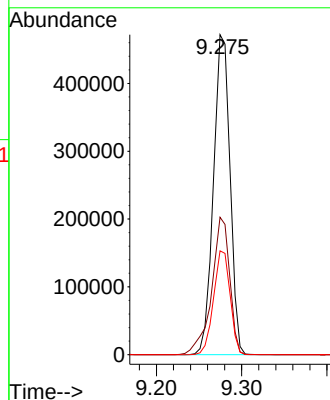
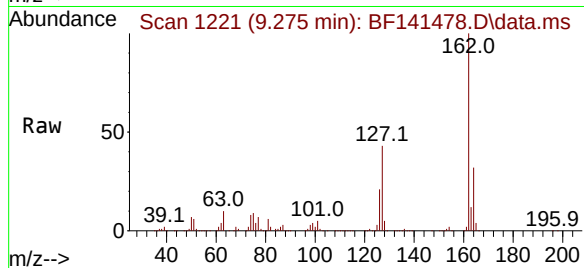




#47
2-Chloronaphthalene
Concen: 59.459 ng
RT: 9.275 min Scan# 1221
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

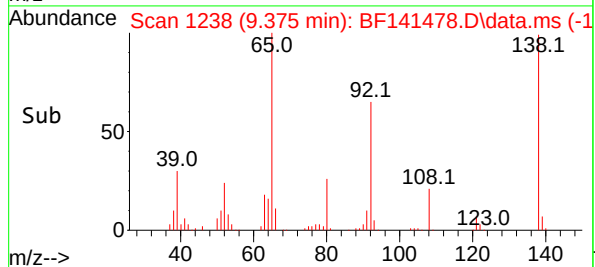
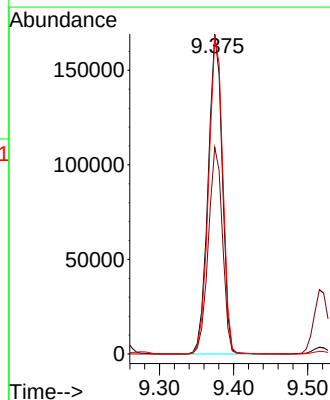
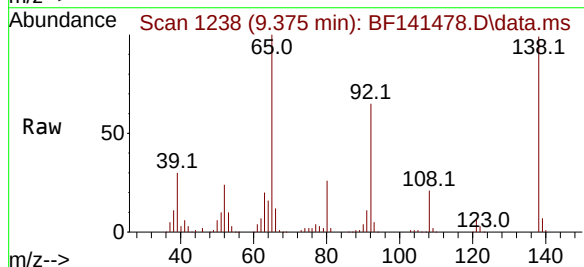
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

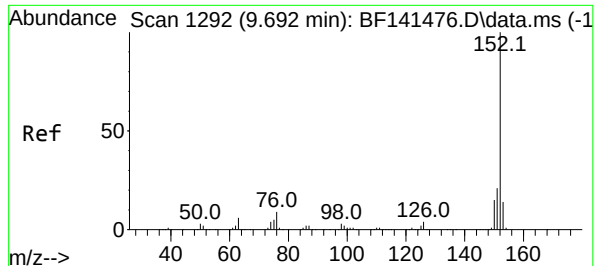
Tgt Ion:162 Resp: 636511
Ion Ratio Lower Upper
162 100
127 43.0 34.1 51.1
164 32.5 26.3 39.5



#48
2-Nitroaniline
Concen: 62.547 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 65 Resp: 224709
Ion Ratio Lower Upper
65 100
92 64.6 52.2 78.2
138 98.7 79.5 119.3





#49

Acenaphthylene

Concen: 59.436 ng

RT: 9.692 min Scan# 1292

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

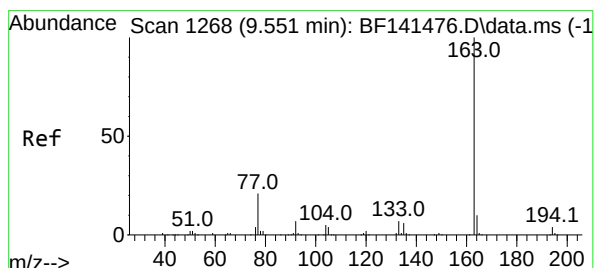
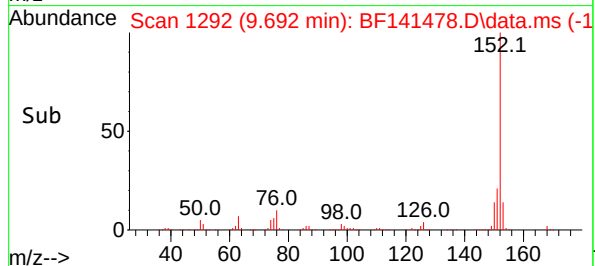
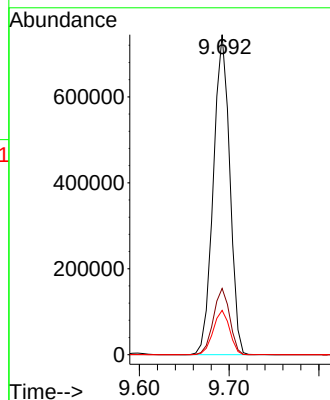
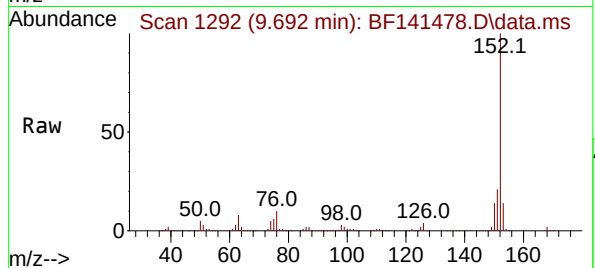
Tgt Ion:152 Resp: 946382

Ion Ratio Lower Upper

152 100

151 20.7 16.4 24.6

153 13.8 10.9 16.3



#50

Dimethylphthalate

Concen: 59.253 ng

RT: 9.557 min Scan# 1269

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

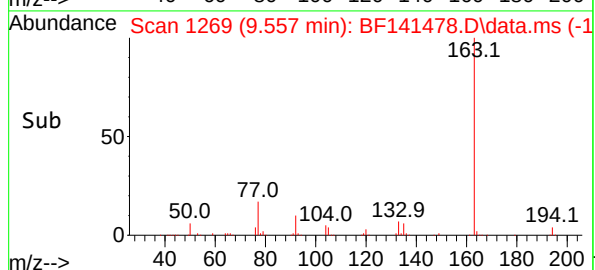
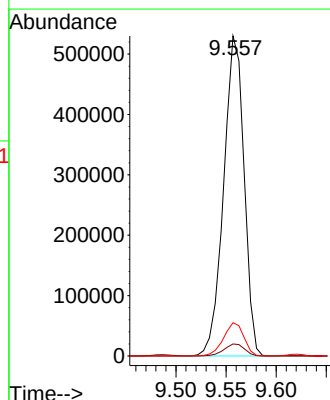
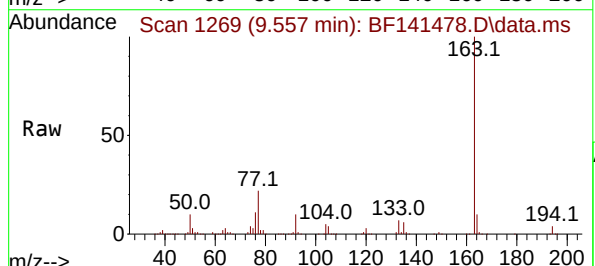
Tgt Ion:163 Resp: 751128

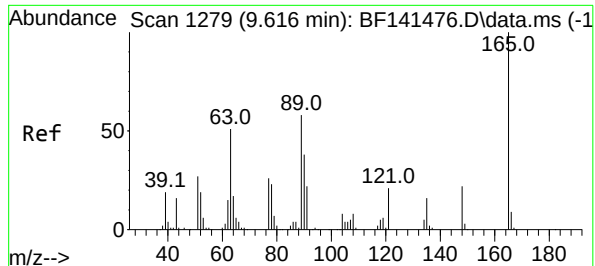
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

164 10.4 7.9 11.9





#51

2,6-Dinitrotoluene

Concen: 60.403 ng

RT: 9.622 min Scan# 1280

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDIC060

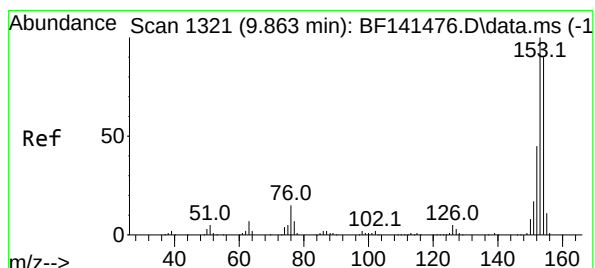
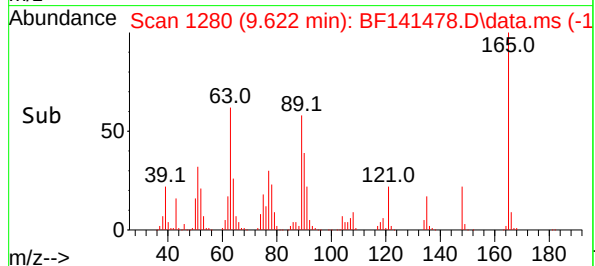
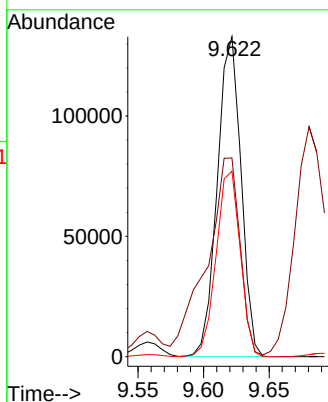
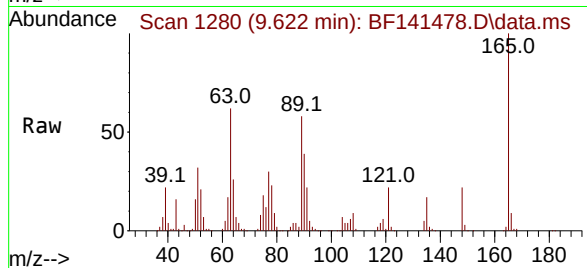
Tgt Ion:165 Resp: 167387

Ion Ratio Lower Upper

165 100

63 62.1 49.4 74.0

89 58.0 46.5 69.7



#52

Acenaphthene

Concen: 58.974 ng

RT: 9.863 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

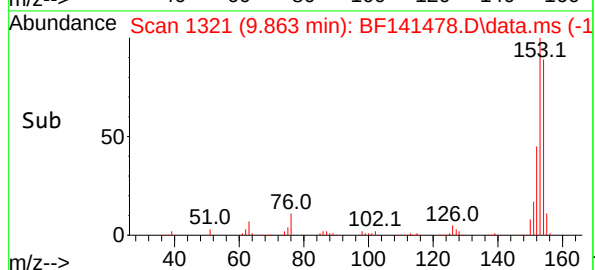
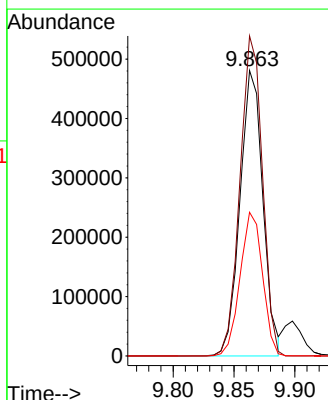
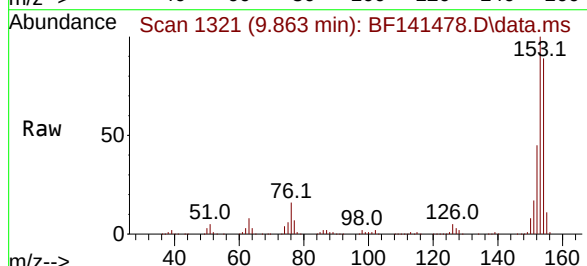
Tgt Ion:154 Resp: 631289

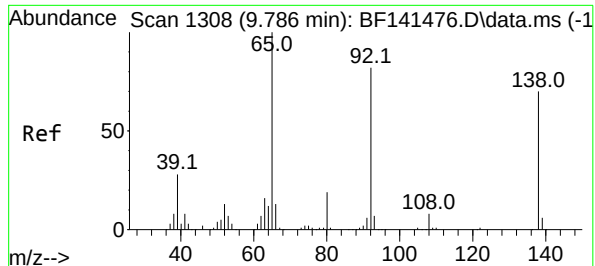
Ion Ratio Lower Upper

154 100

153 112.1 89.2 133.8

152 50.3 39.8 59.8

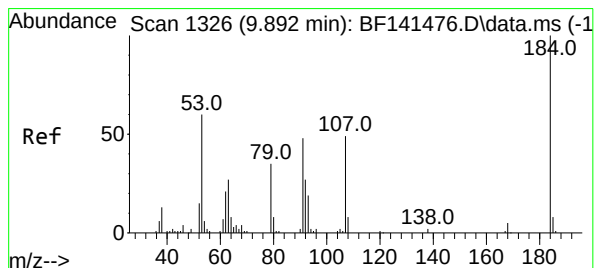
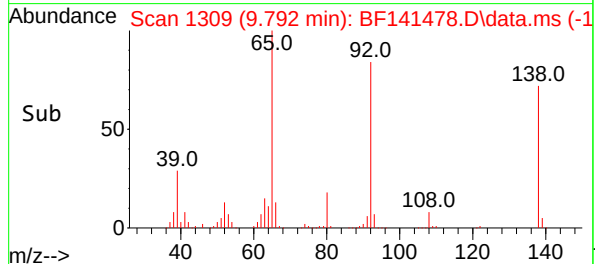
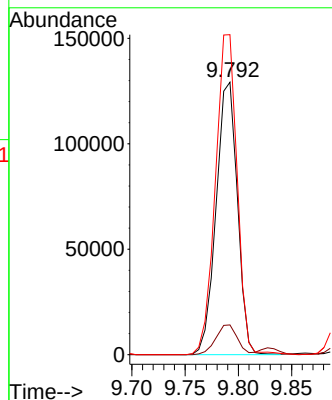
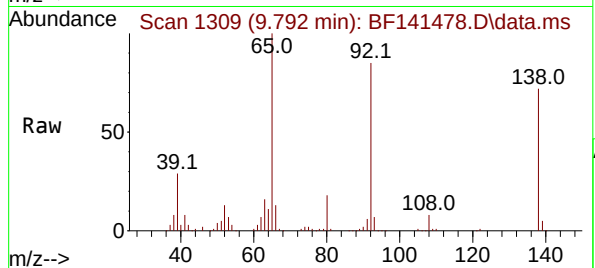




#53
3-Nitroaniline
Concen: 60.237 ng
RT: 9.792 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

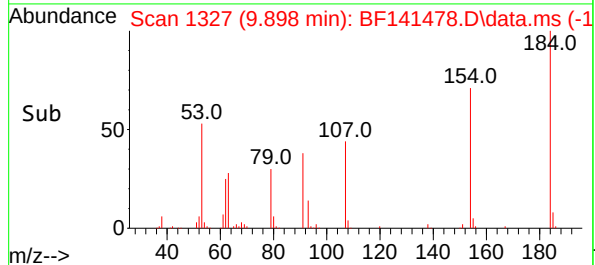
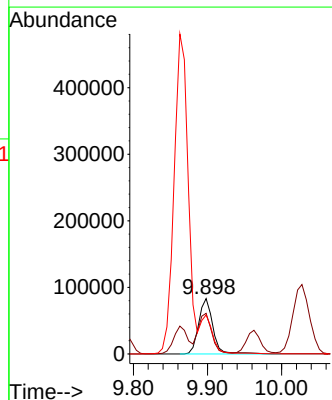
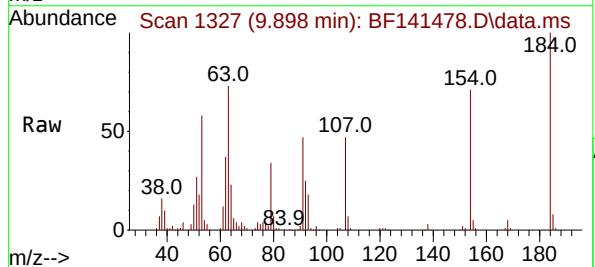
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

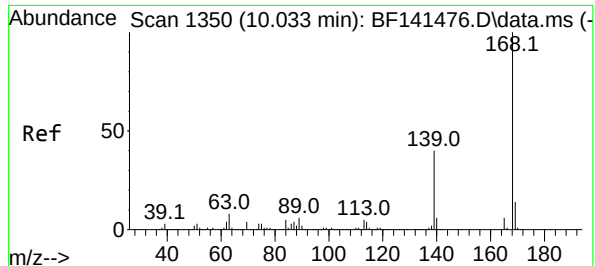
Tgt Ion:138 Resp: 179664
Ion Ratio Lower Upper
138 100
108 10.9 9.0 13.4
92 117.5 93.7 140.5



#54
2,4-Dinitrophenol
Concen: 67.432 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:184 Resp: 111060
Ion Ratio Lower Upper
184 100
63 73.3 61.0 91.6
154 70.6 59.9 89.9





#55

Dibenzenofuran

Concen: 58.242 ng

RT: 10.039 min Scan# 1351

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

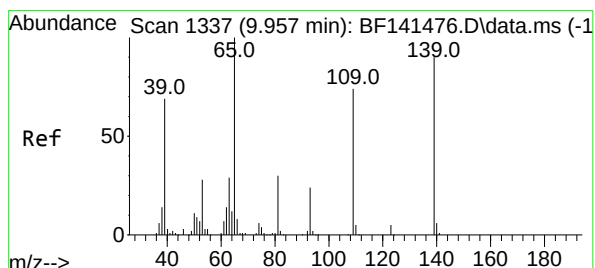
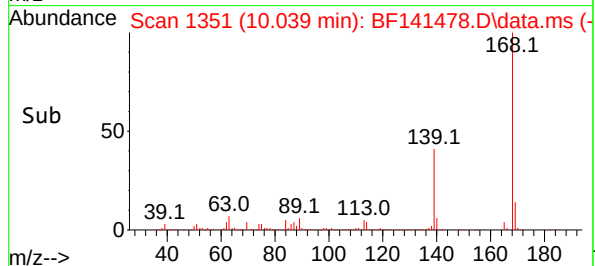
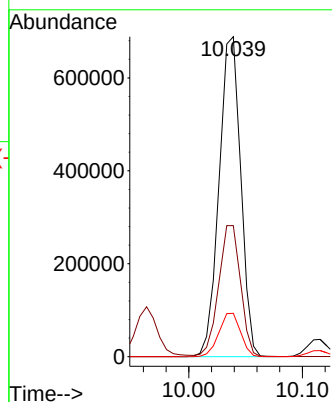
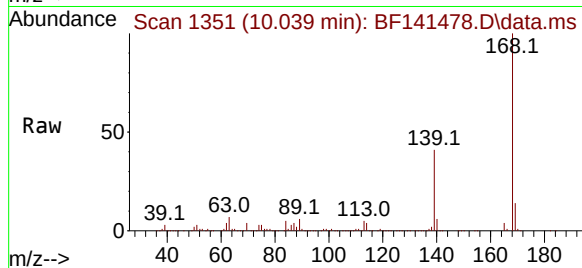
Tgt Ion:168 Resp: 915117

Ion Ratio Lower Upper

168 100

139 41.0 32.7 49.1

169 13.5 10.8 16.2



#56

4-Nitrophenol

Concen: 65.035 ng

RT: 9.963 min Scan# 1338

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

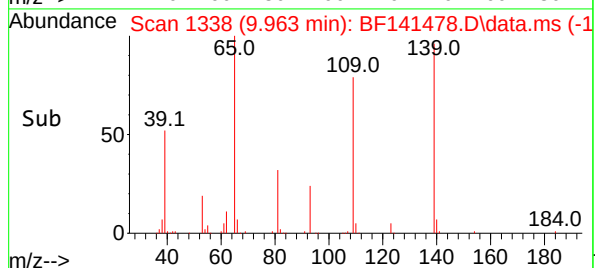
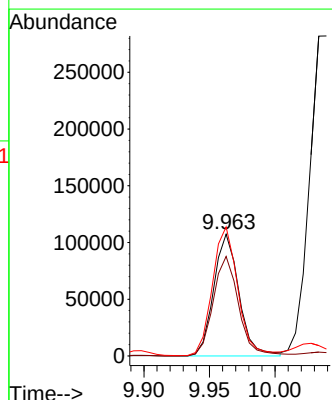
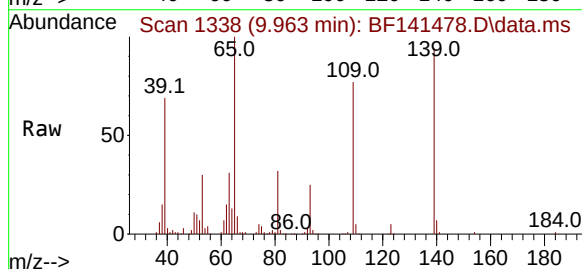
Tgt Ion:139 Resp: 143994

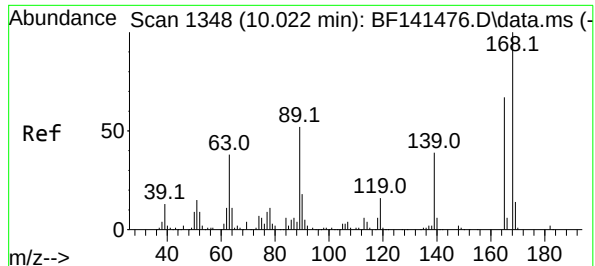
Ion Ratio Lower Upper

139 100

109 81.7 62.0 102.0

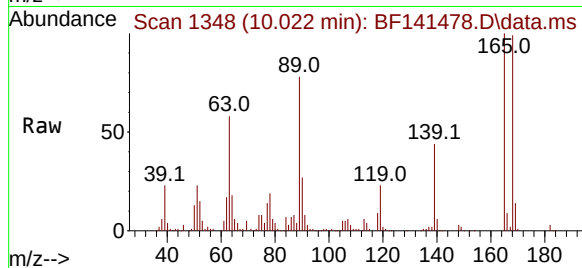
65 106.0 91.2 131.2



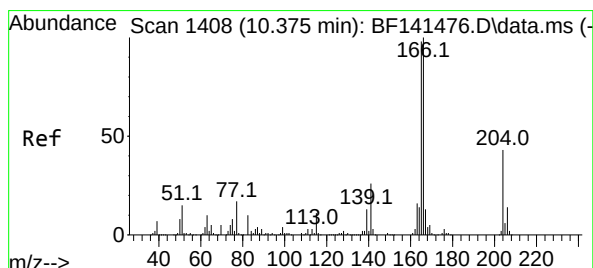
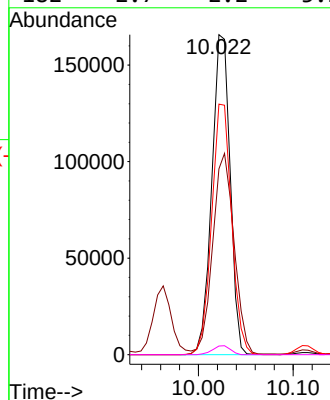
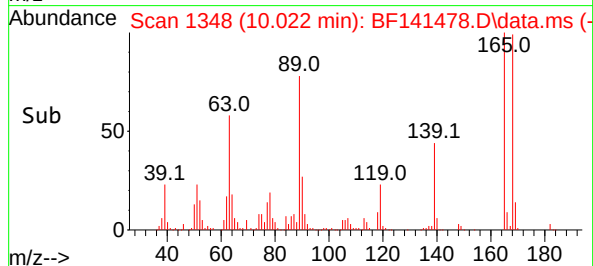


#57
2,4-Dinitrotoluene
Concen: 60.202 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

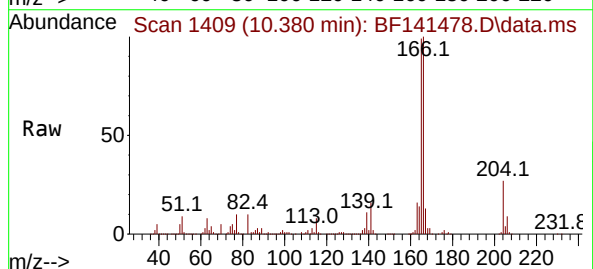
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



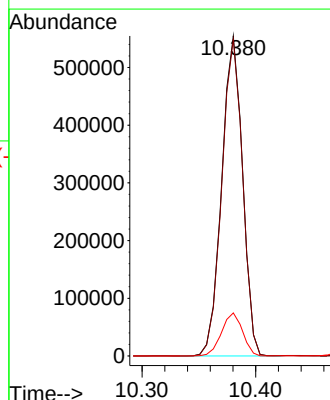
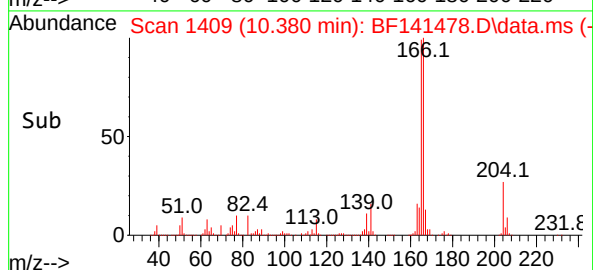
Tgt Ion:165 Resp: 222091
Ion Ratio Lower Upper
165 100
63 58.1 46.4 69.6
89 78.3 61.8 92.6
182 2.7 2.2 3.2

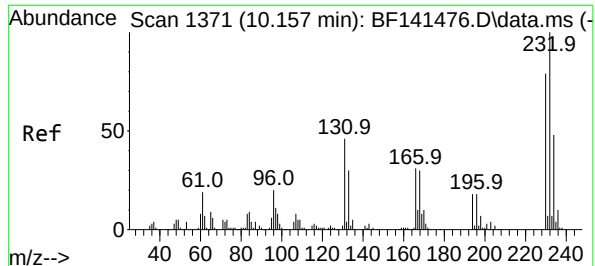


#58
Fluorene
Concen: 58.225 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47



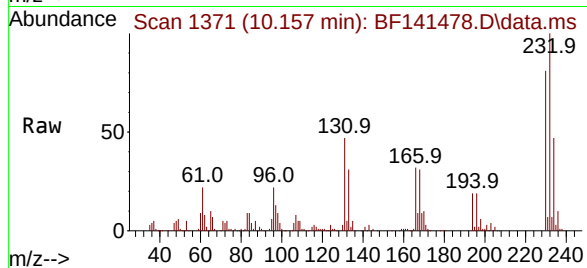
Tgt Ion:166 Resp: 707371
Ion Ratio Lower Upper
166 100
165 98.9 78.2 117.2
167 13.5 10.7 16.1



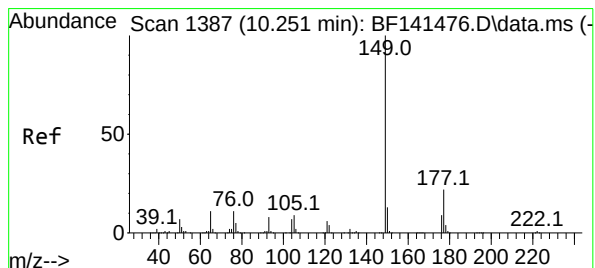
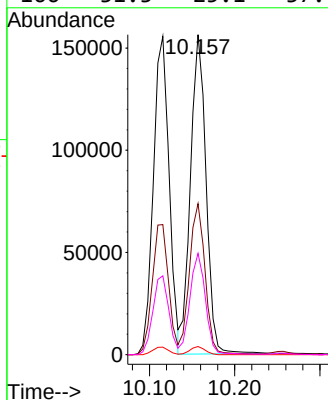
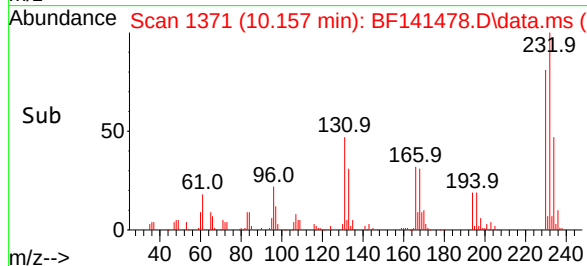


#59
2,3,4,6-Tetrachlorophenol
Concen: 60.972 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

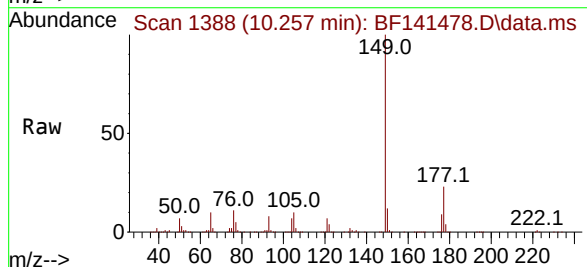
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



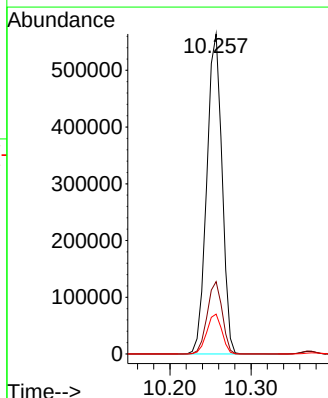
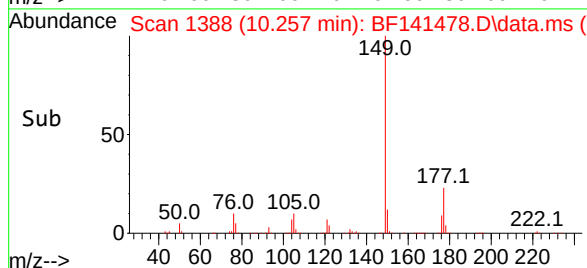
Tgt Ion:232 Resp: 198636
Ion Ratio Lower Upper
232 100
131 47.8 39.2 58.8
130 2.5 2.1 3.1
166 31.3 25.1 37.7

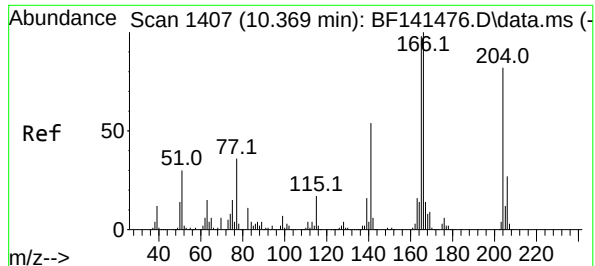


#60
Diethylphthalate
Concen: 58.755 ng
RT: 10.257 min Scan# 1388
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47



Tgt Ion:149 Resp: 732804
Ion Ratio Lower Upper
149 100
177 22.6 17.8 26.6
150 12.5 10.1 15.1

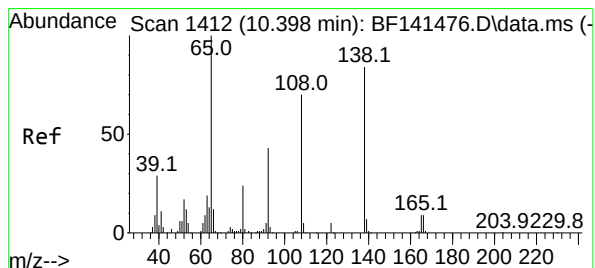
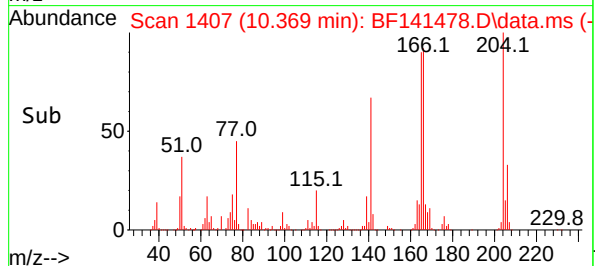
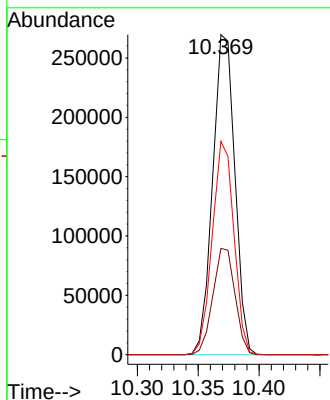
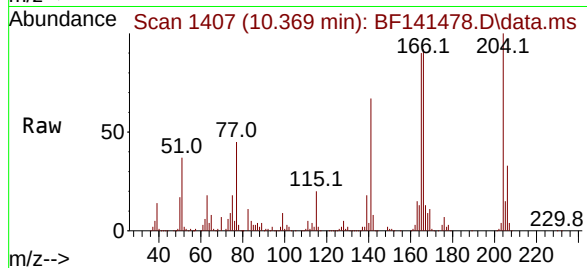




#61
4-Chlorophenyl-phenylether
Concen: 58.570 ng
RT: 10.369 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

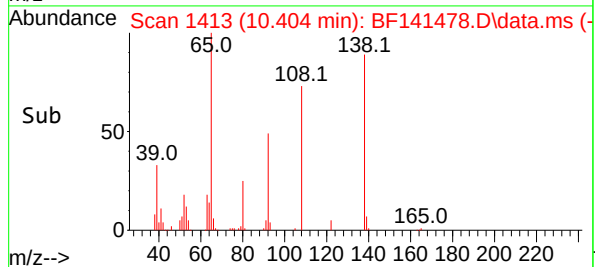
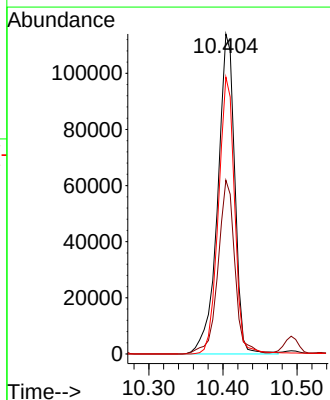
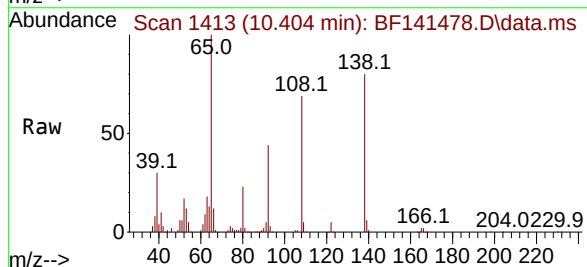
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

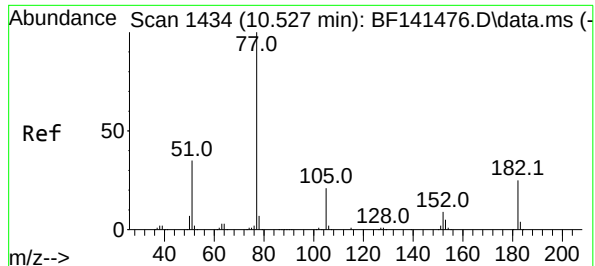
Tgt Ion:204 Resp: 342324
Ion Ratio Lower Upper
204 100
206 33.2 26.6 40.0
141 66.7 51.9 77.9



#62
4-Nitroaniline
Concen: 60.406 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:138 Resp: 182946
Ion Ratio Lower Upper
138 100
92 54.3 31.3 71.3
108 86.6 63.7 103.7

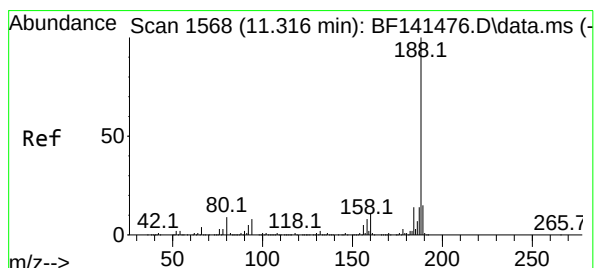
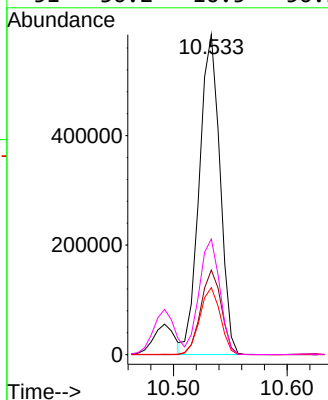
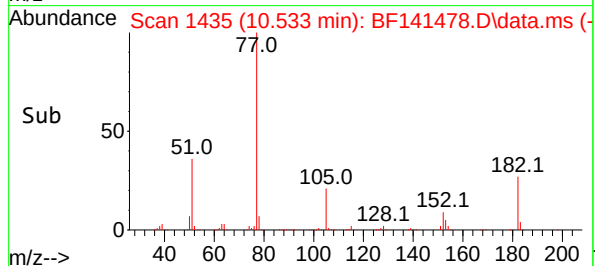
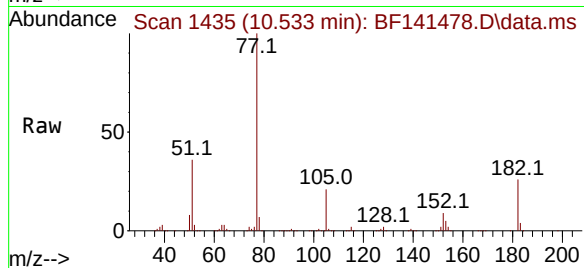




#63
Azobenzene
Concen: 59.629 ng
RT: 10.533 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

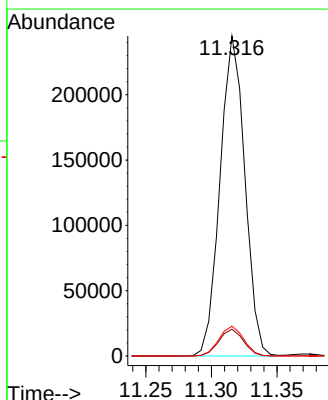
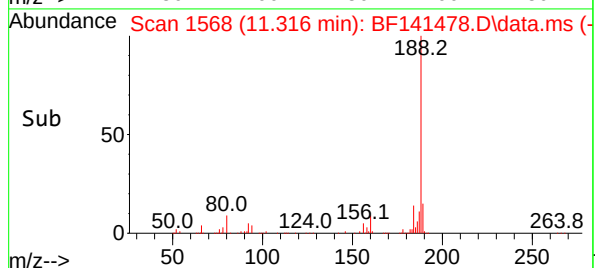
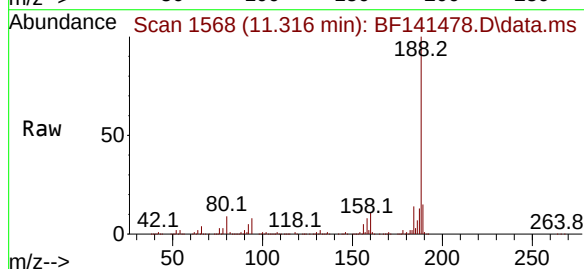
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

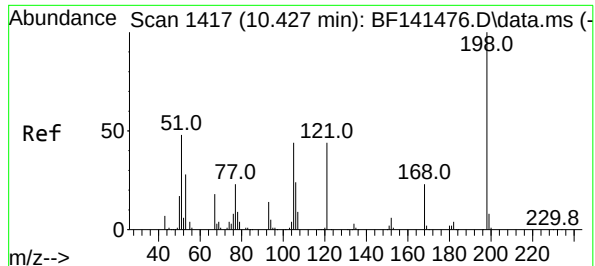
Tgt Ion: 77 Resp: 739338
Ion Ratio Lower Upper
77 100
182 26.5 4.7 44.7
105 21.0 0.4 40.4
51 36.2 16.5 56.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 188 Resp: 321893
Ion Ratio Lower Upper
188 100
94 8.4 6.6 10.0
80 9.3 7.3 10.9

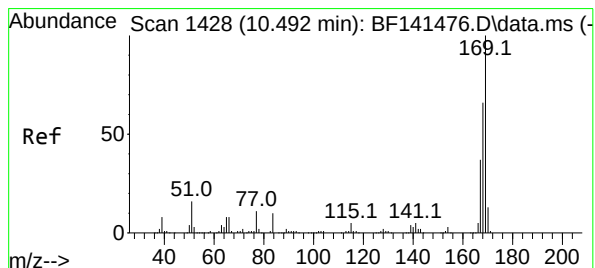
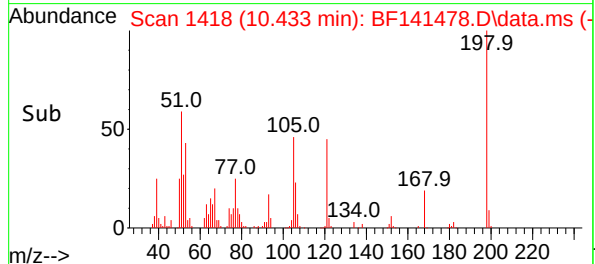
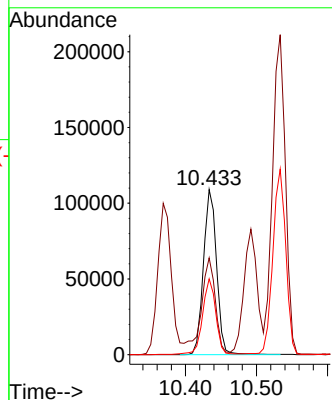
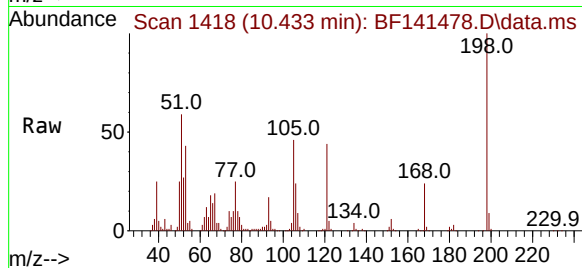




#65
4,6-Dinitro-2-methylphenol
Concen: 62.884 ng
RT: 10.433 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

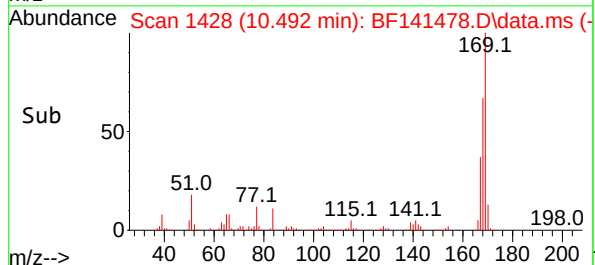
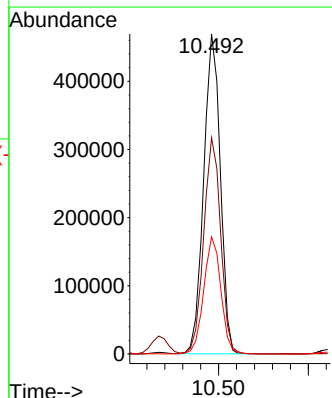
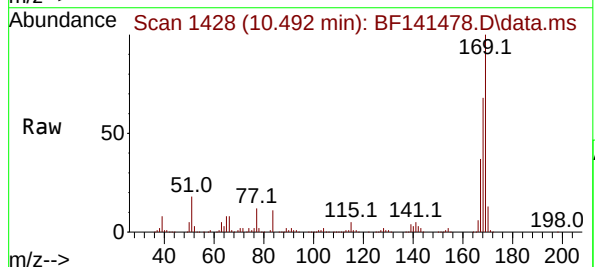
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

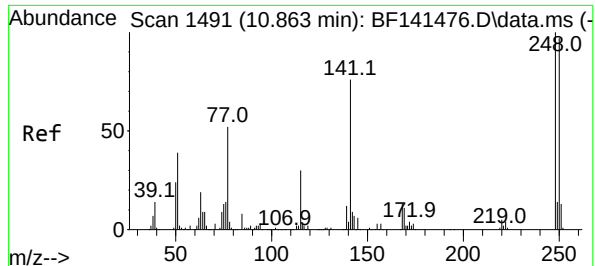
Tgt Ion:198 Resp: 140610
Ion Ratio Lower Upper
198 100
51 58.6 37.4 77.4
105 46.0 25.2 65.2



#66
n-Nitrosodiphenylamine
Concen: 58.609 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:169 Resp: 603914
Ion Ratio Lower Upper
169 100
168 67.6 53.3 79.9
167 36.6 29.4 44.2

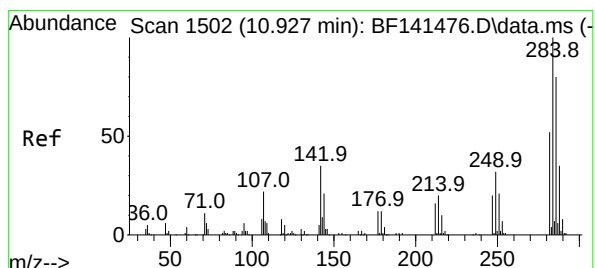
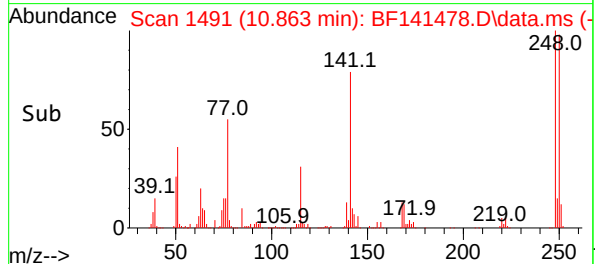
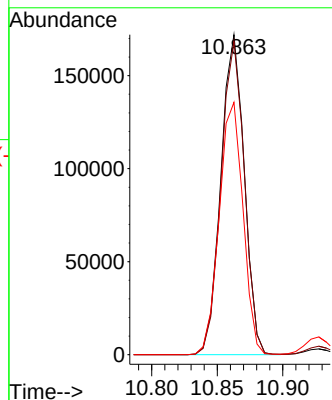
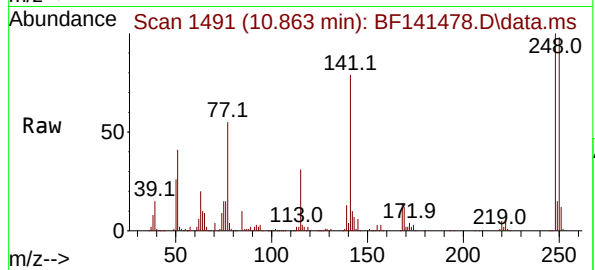




#67
4-Bromophenyl-phenylether
Concen: 59.314 ng
RT: 10.863 min Scan# 1491
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

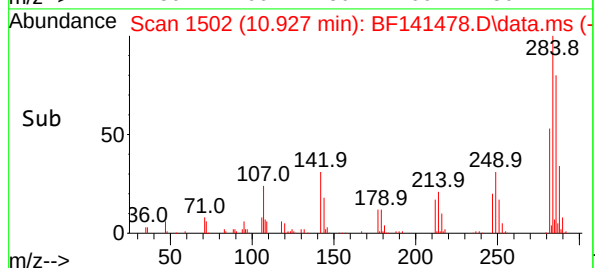
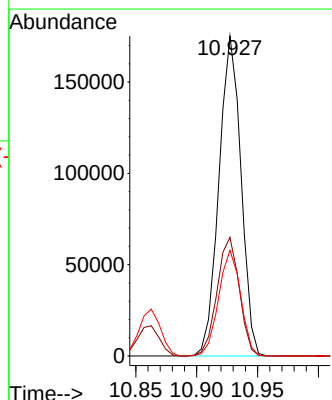
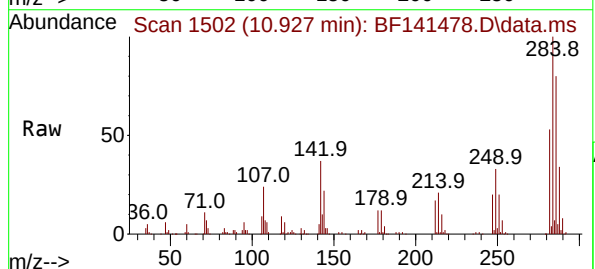
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

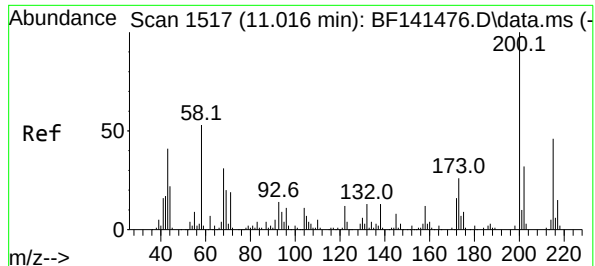
Tgt Ion:248 Resp: 213385
Ion Ratio Lower Upper
248 100
250 97.9 77.8 116.6
141 78.9 60.6 90.8



#68
Hexachlorobenzene
Concen: 59.552 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:284 Resp: 220611
Ion Ratio Lower Upper
284 100
142 37.0 28.0 42.0
249 33.0 25.8 38.8





#69

Atrazine

Concen: 56.878 ng

RT: 11.021 min Scan# 1518

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDIC060

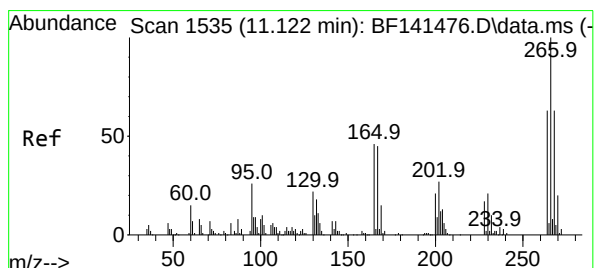
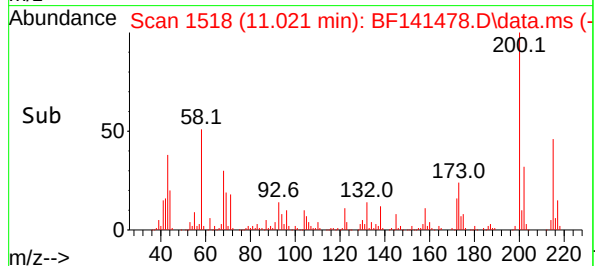
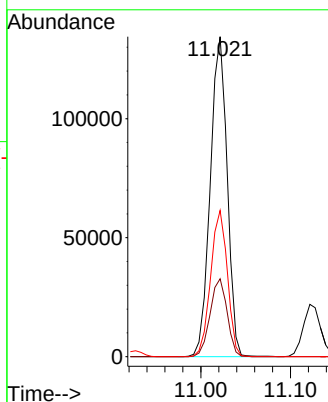
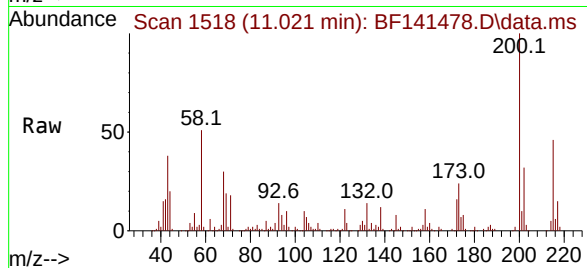
Tgt Ion:200 Resp: 175824

Ion Ratio Lower Upper

200 100

173 24.4 5.9 45.9

215 45.7 25.9 65.9



#70

Pentachlorophenol

Concen: 65.001 ng

RT: 11.121 min Scan# 1535

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

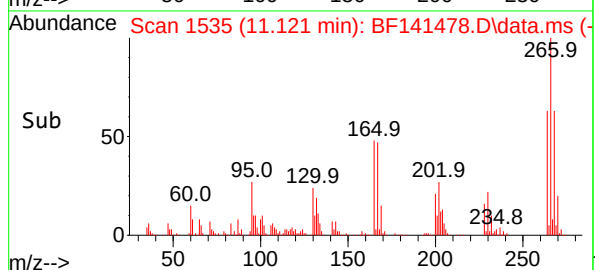
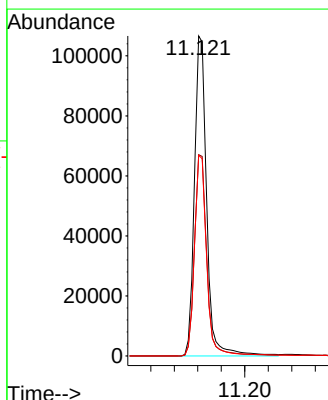
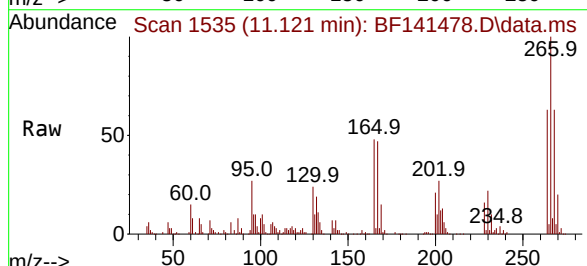
Tgt Ion:266 Resp: 153971

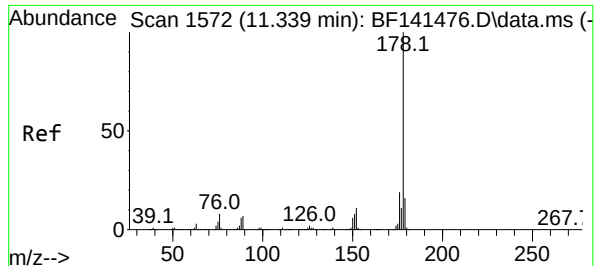
Ion Ratio Lower Upper

266 100

268 62.9 50.1 75.1

264 62.7 50.1 75.1

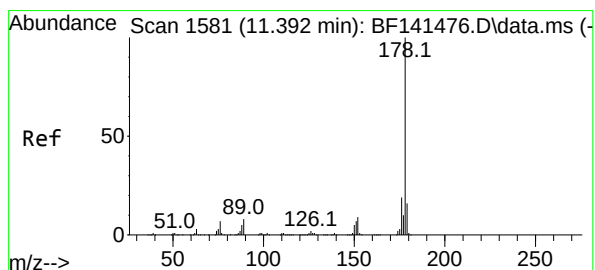
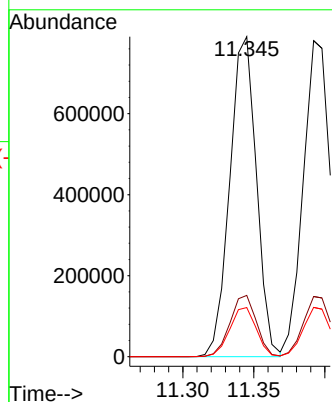
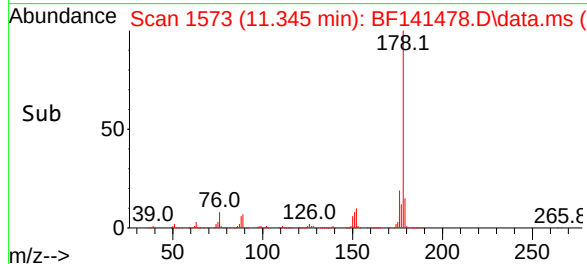
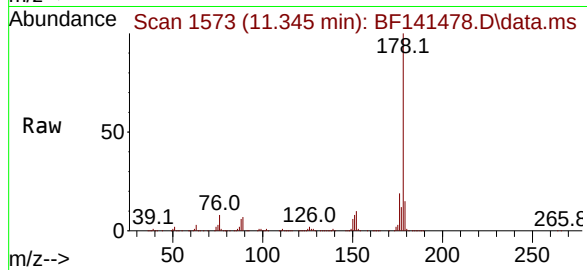




#71
Phenanthrene
Concen: 58.248 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

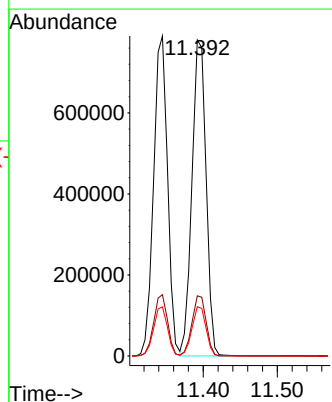
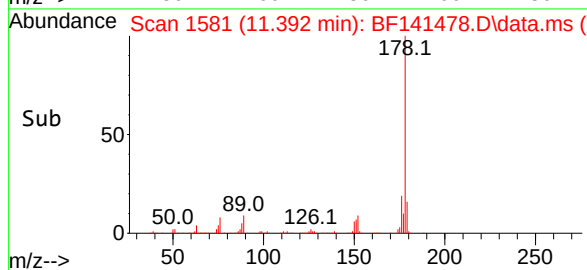
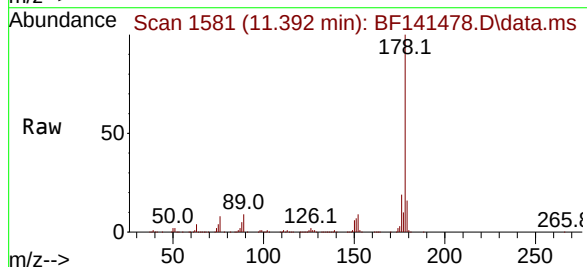
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

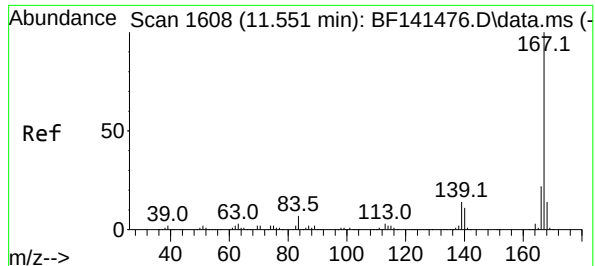
Tgt Ion:178 Resp: 1032075
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.4 12.4 18.6



#72
Anthracene
Concen: 58.062 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:178 Resp: 1034181
Ion Ratio Lower Upper
178 100
176 19.0 14.8 22.2
179 15.6 12.4 18.6

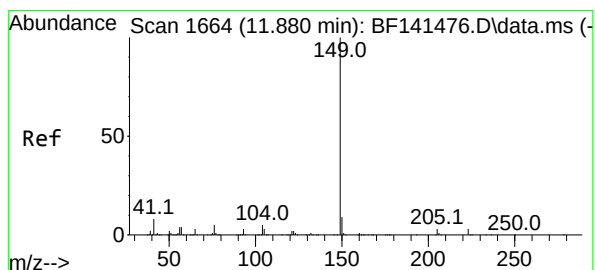
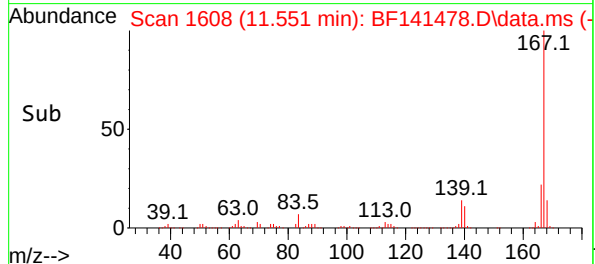
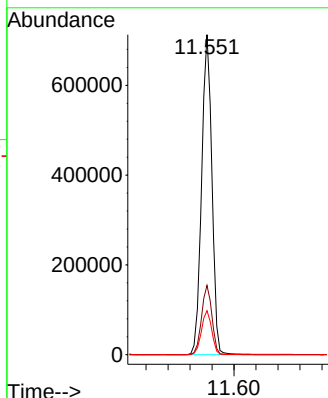
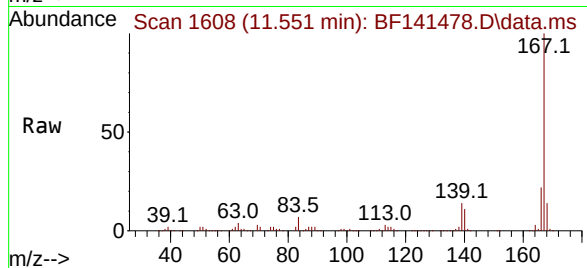




#73
Carbazole
Concen: 57.896 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

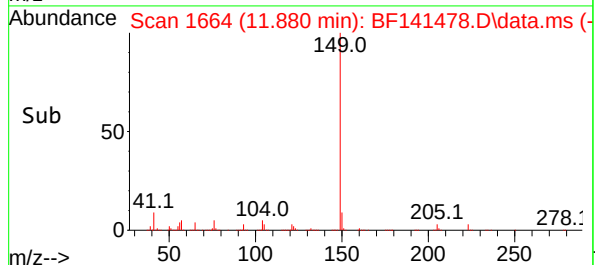
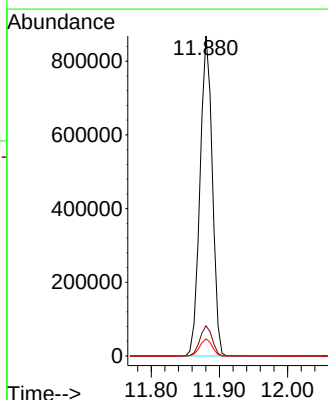
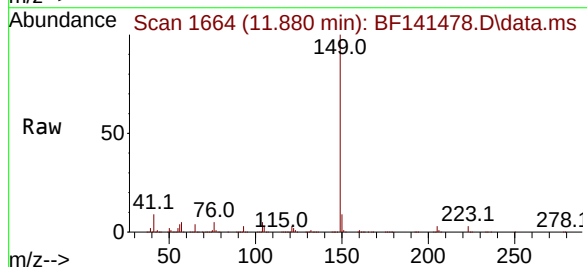
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

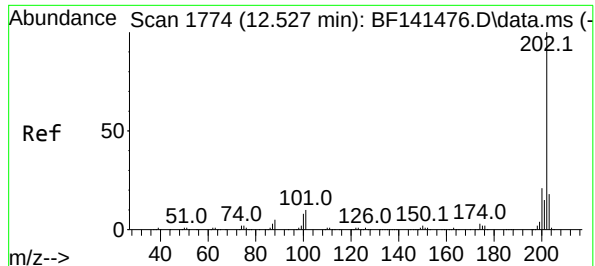
Tgt Ion:167 Resp: 927882
Ion Ratio Lower Upper
167 100
166 21.6 17.4 26.2
139 13.7 10.9 16.3



#74
Di-n-butylphthalate
Concen: 58.783 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 1087815
Ion Ratio Lower Upper
149 100
150 9.4 7.4 11.0
104 5.4 4.2 6.2

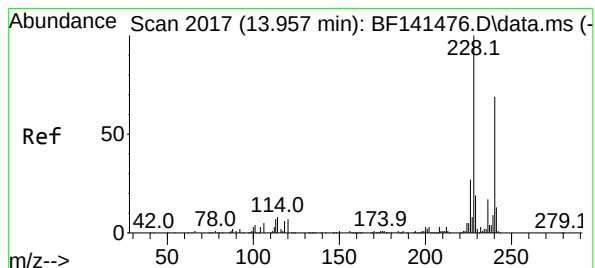
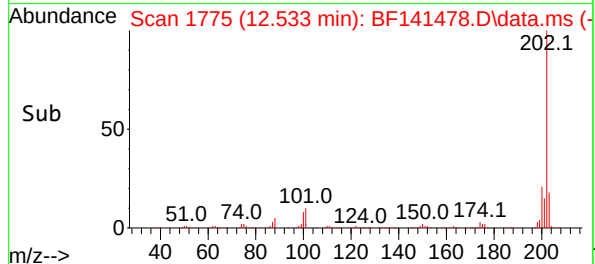
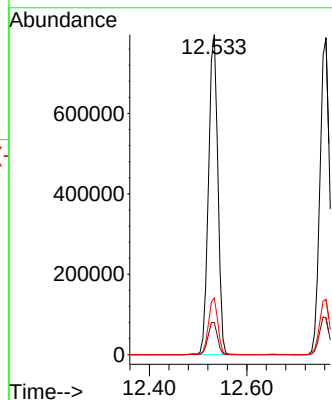
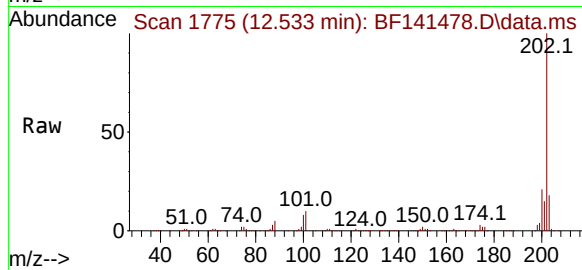




#75
Fluoranthene
Concen: 56.102 ng
RT: 12.533 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

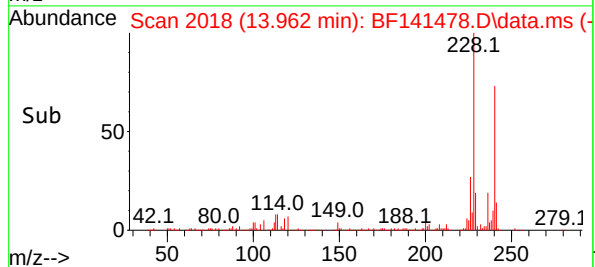
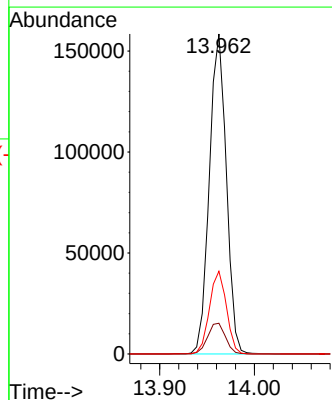
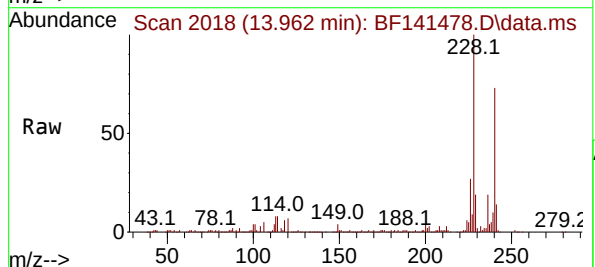
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

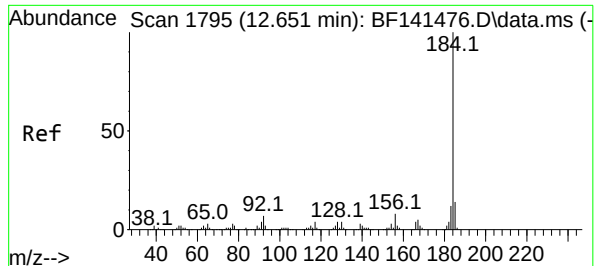
Tgt Ion:202 Resp: 1053887
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.2
203 17.7 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:240 Resp: 197108
Ion Ratio Lower Upper
240 100
120 9.6 8.0 12.0
236 25.9 19.8 29.8

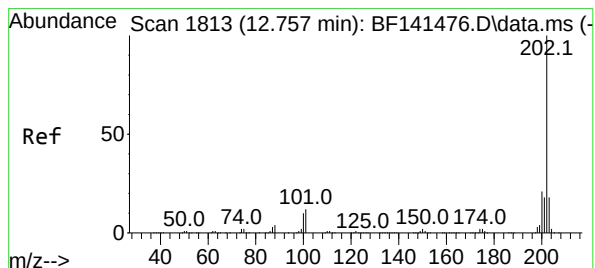
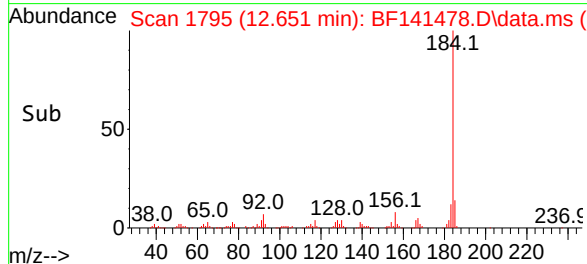
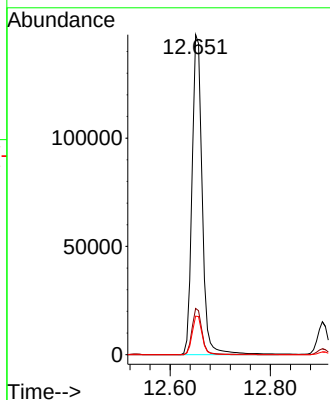
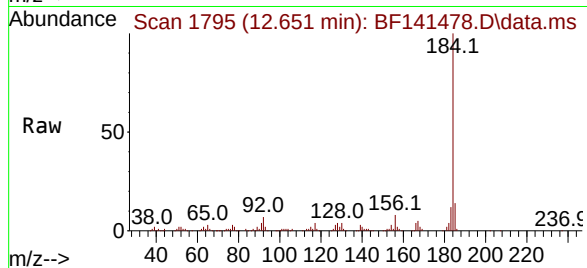




#77
Benzidine
Concen: 47.757 ng
RT: 12.651 min Scan# 1795
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

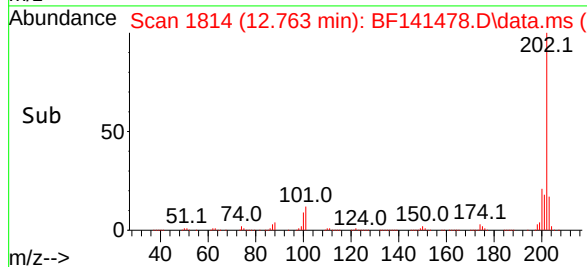
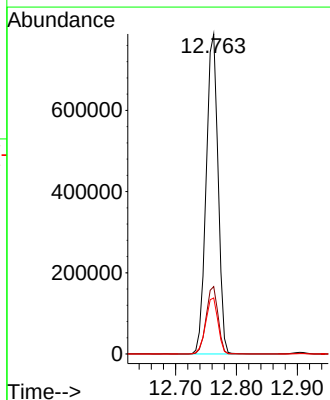
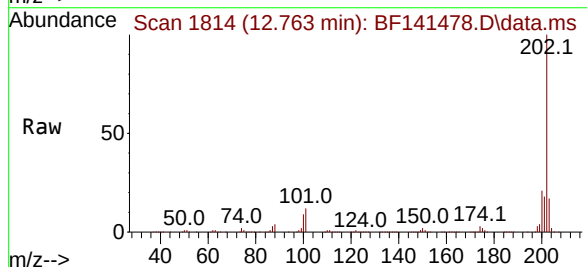
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

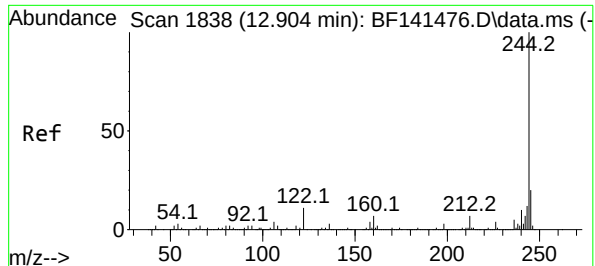
Tgt Ion:184 Resp: 207602
Ion Ratio Lower Upper
184 100
185 14.4 11.3 16.9
183 12.0 9.3 13.9



#78
Pyrene
Concen: 63.687 ng
RT: 12.763 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:202 Resp: 1068624
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.5 14.3 21.5





#79

Terphenyl-d14

Concen: 124.977 ng

RT: 12.904 min Scan# 1838

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

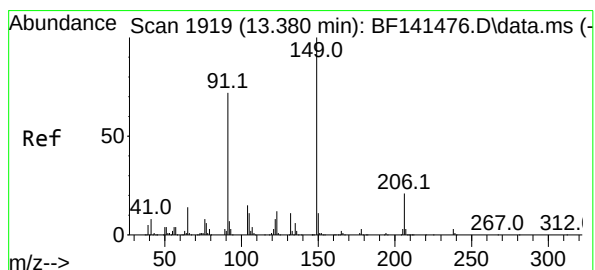
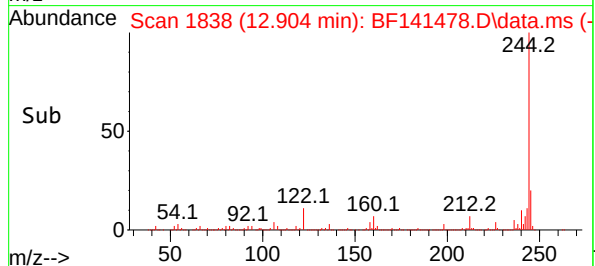
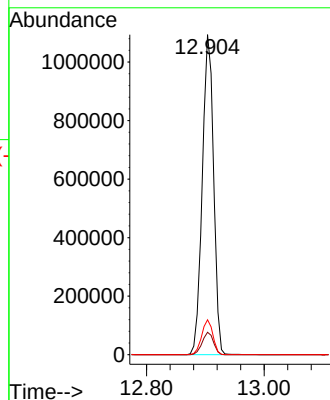
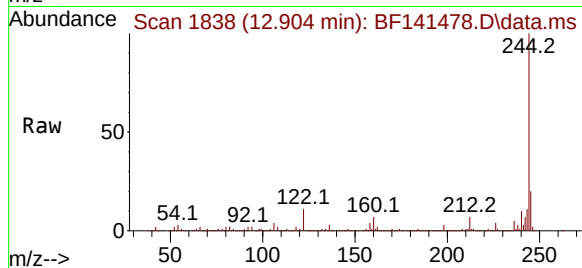
Tgt Ion:244 Resp: 1459213

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 10.9 8.4 12.6



#80

Butylbenzylphthalate

Concen: 63.357 ng

RT: 13.380 min Scan# 1919

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

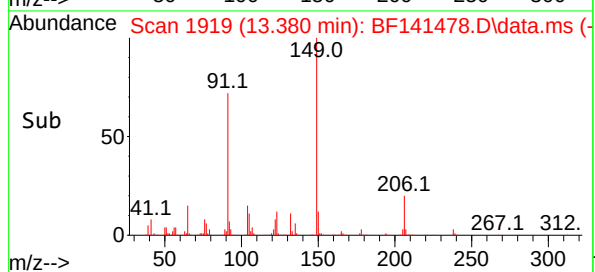
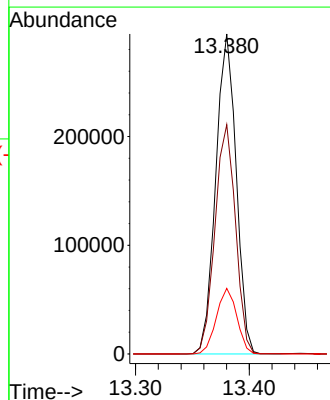
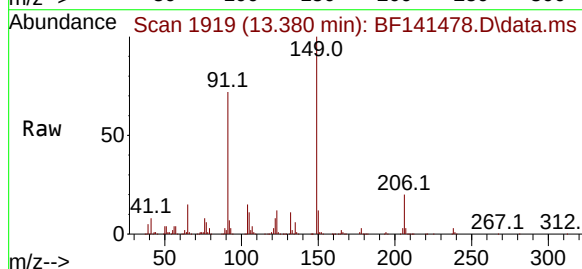
Tgt Ion:149 Resp: 368219

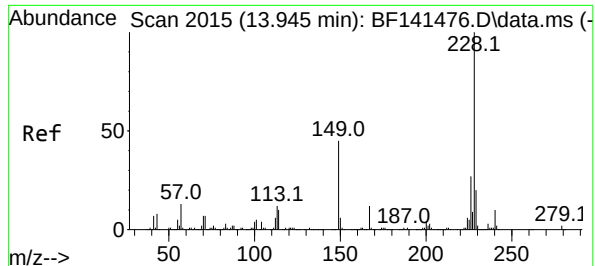
Ion Ratio Lower Upper

149 100

91 71.7 57.8 86.8

206 20.5 16.7 25.1





#81

Benzo(a)anthracene

Concen: 59.097 ng

RT: 13.951 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

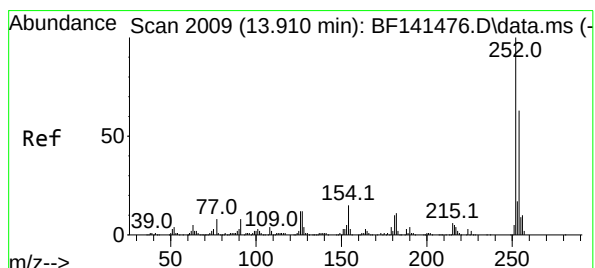
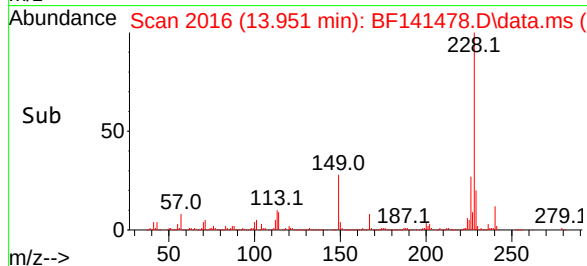
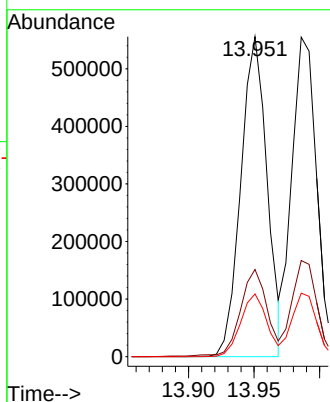
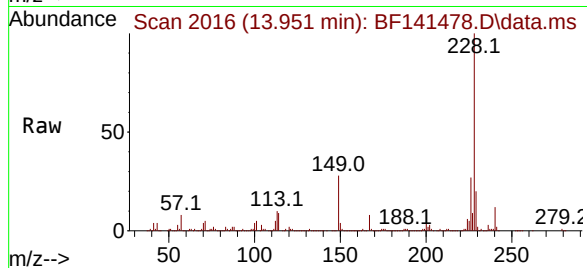
Tgt Ion:228 Resp: 774318

Ion Ratio Lower Upper

228 100

226 27.2 21.8 32.8

229 19.6 15.8 23.6



#82

3,3'-Dichlorobenzidine

Concen: 55.639 ng

RT: 13.915 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

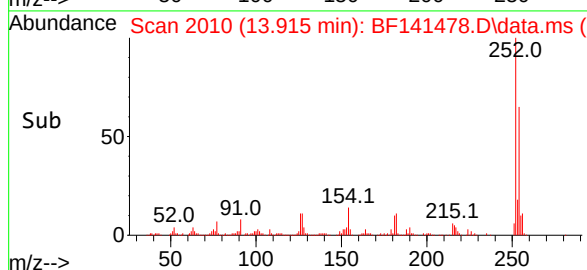
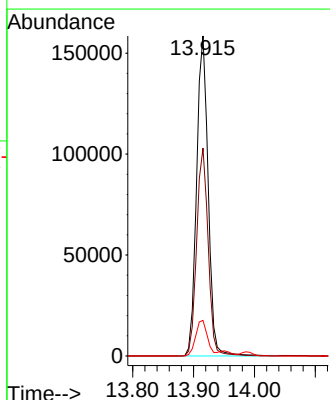
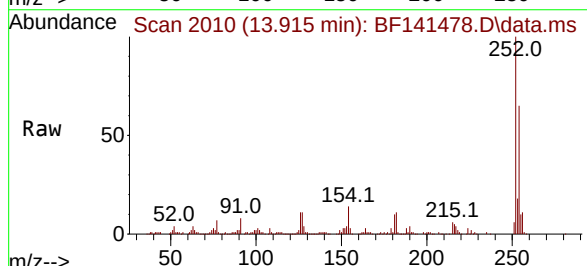
Tgt Ion:252 Resp: 208826

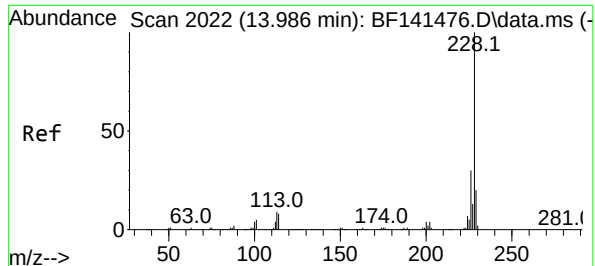
Ion Ratio Lower Upper

252 100

254 65.0 50.6 76.0

126 11.1 9.3 13.9

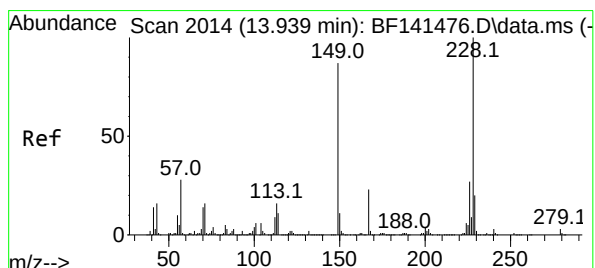
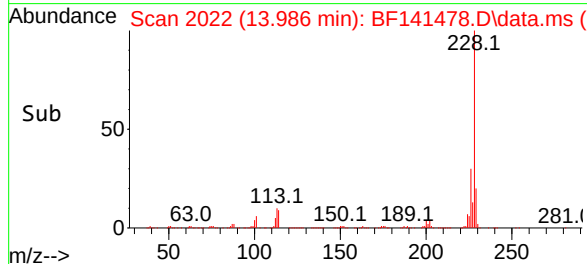
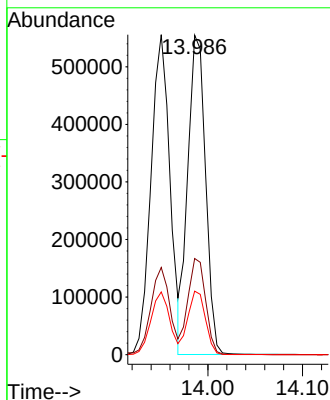
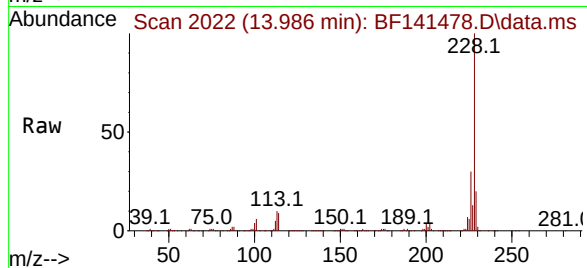




#83
Chrysene
Concen: 59.829 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

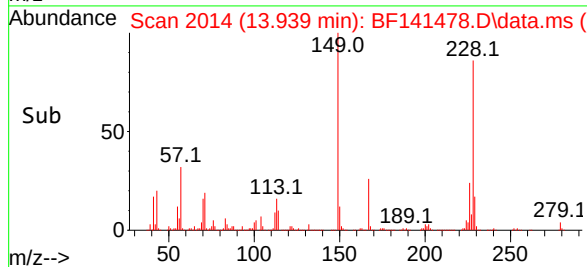
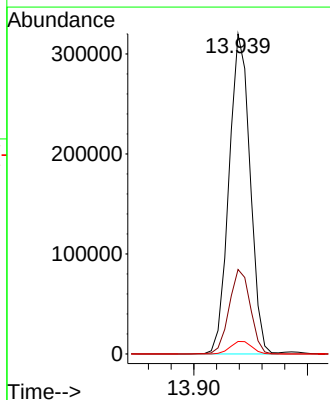
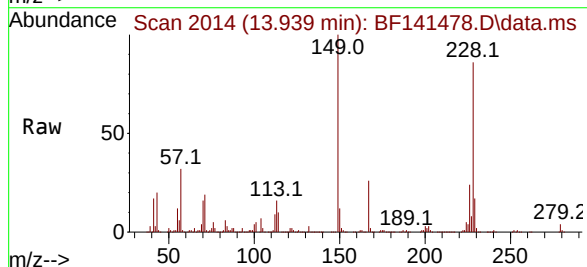
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

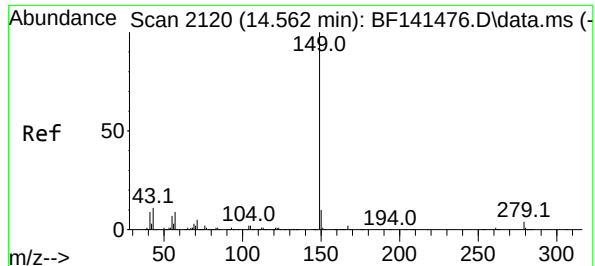
Tgt Ion:228 Resp: 723815
Ion Ratio Lower Upper
228 100
226 30.1 24.0 36.0
229 19.9 15.7 23.5



#84
Bis(2-ethylhexyl)phthalate
Concen: 62.851 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 411979
Ion Ratio Lower Upper
149 100
167 26.4 21.4 32.0
279 3.9 3.1 4.7

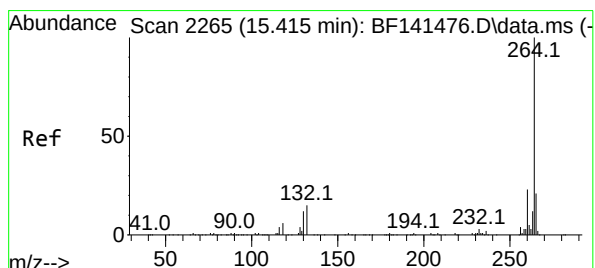
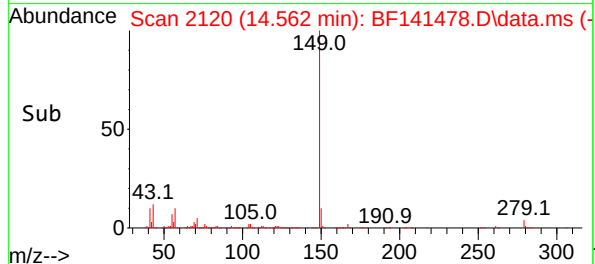
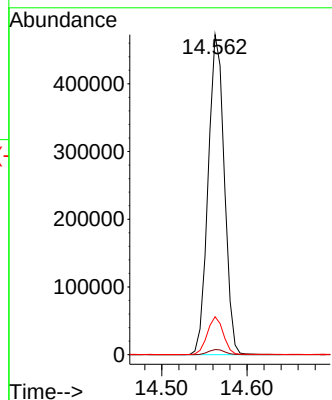
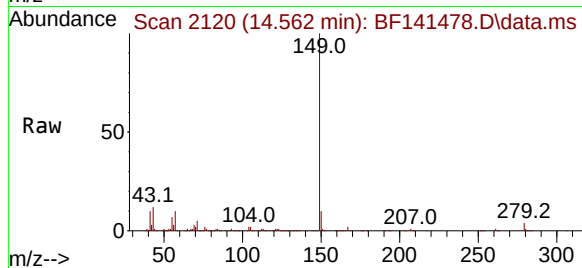




#85
Di-n-octyl phthalate
Concen: 66.464 ng
RT: 14.562 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

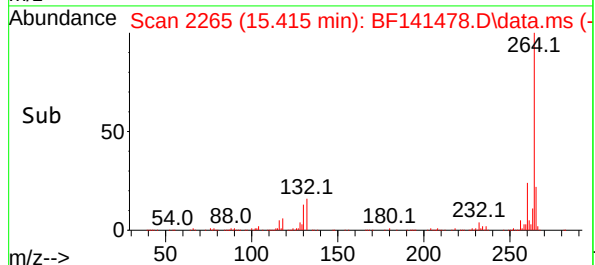
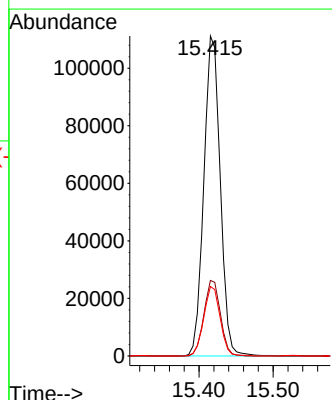
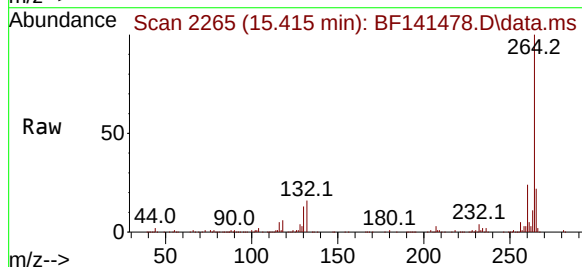
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

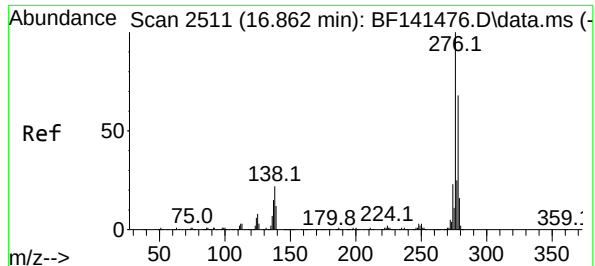
Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.7	17.0	25.4

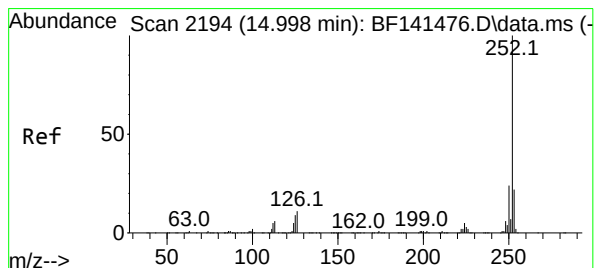
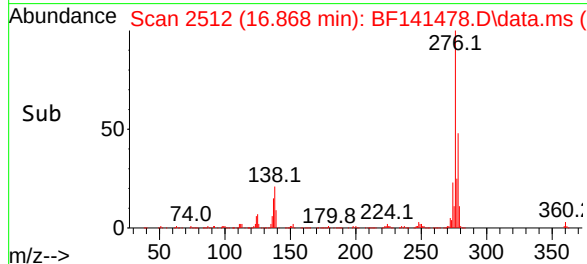
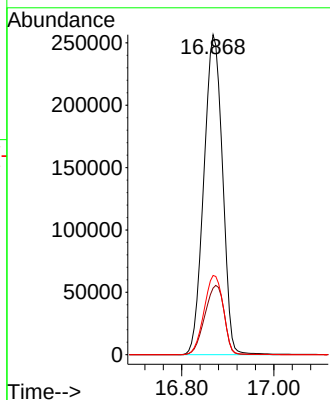
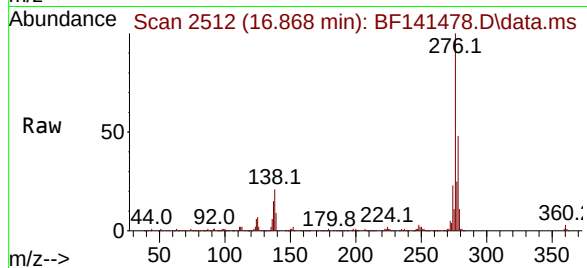




#87
Indeno(1,2,3-cd)pyrene
Concen: 68.464 ng
RT: 16.868 min Scan# 211
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

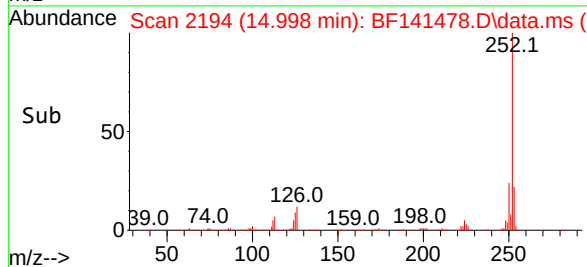
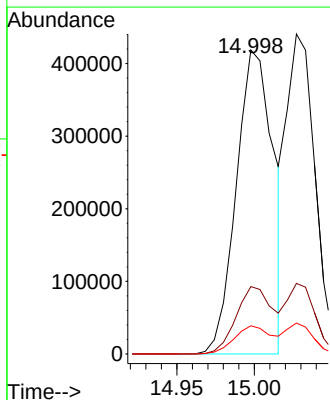
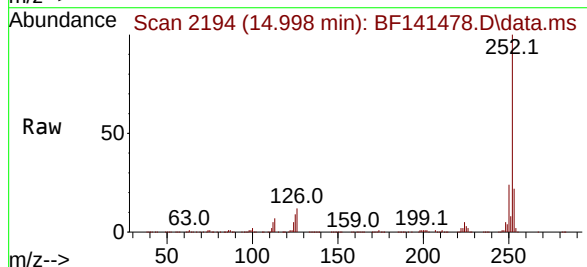
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

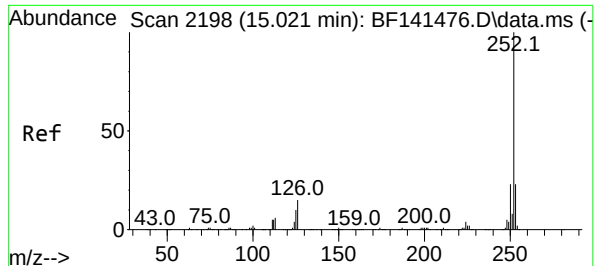
Tgt Ion:276 Resp: 723493
Ion Ratio Lower Upper
276 100
138 22.6 18.0 27.0
277 25.5 20.4 30.6



#88
Benzo(b)fluoranthene
Concen: 60.575 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 695617
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 9.3 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 57.449 ng

RT: 15.027 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

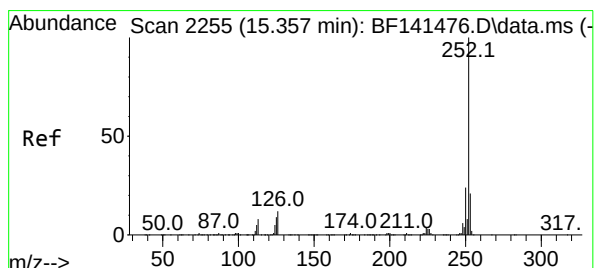
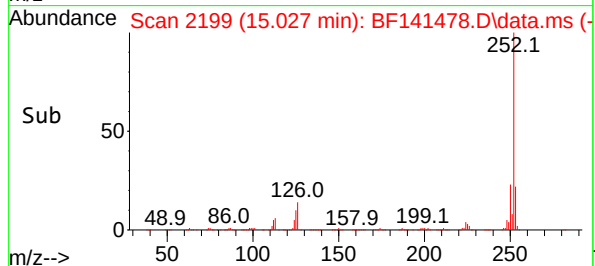
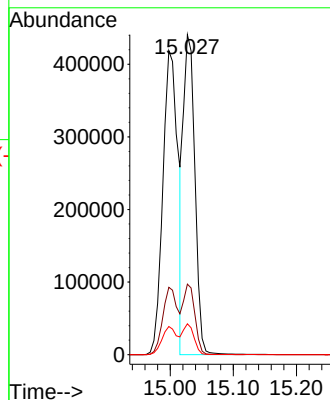
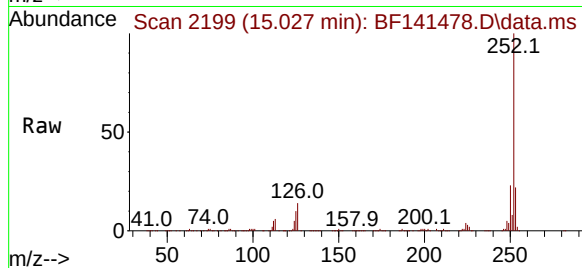
Tgt Ion:252 Resp: 563342

Ion Ratio Lower Upper

252 100

253 22.1 18.0 27.0

125 9.6 7.4 11.0



#90

Benzo(a)pyrene

Concen: 60.423 ng

RT: 15.357 min Scan# 2255

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

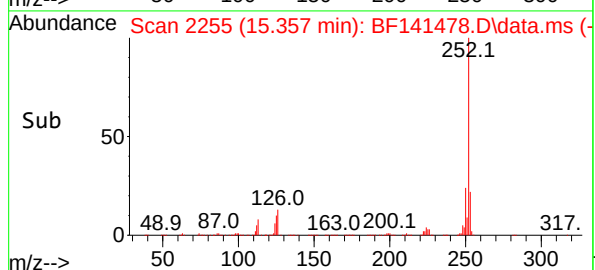
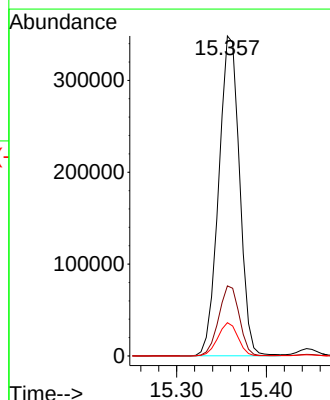
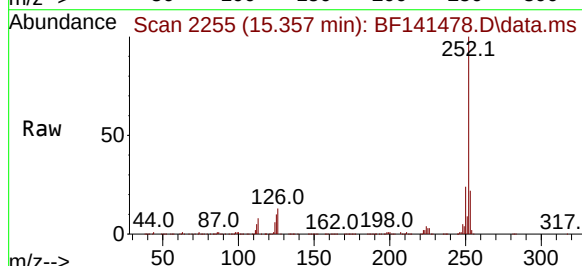
Tgt Ion:252 Resp: 561457

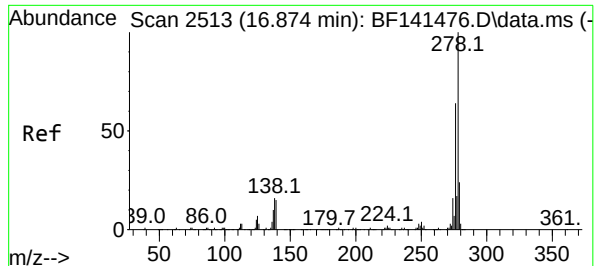
Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

125 10.4 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 68.216 ng

RT: 16.886 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

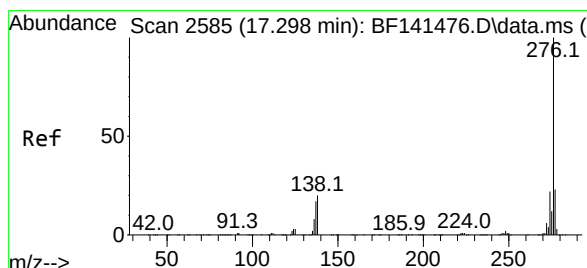
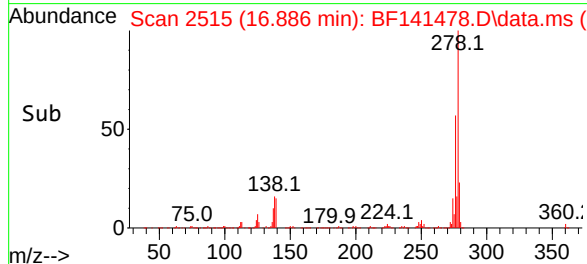
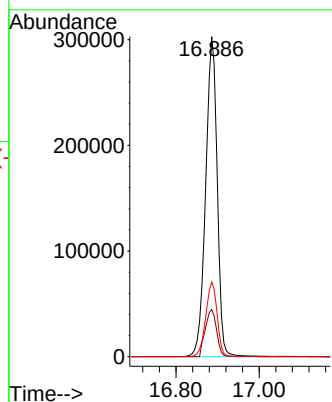
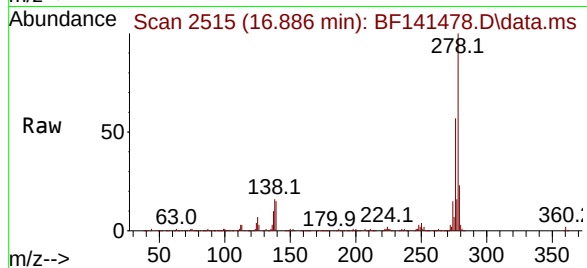
Tgt Ion:278 Resp: 584115

Ion Ratio Lower Upper

278 100

139 14.8 11.8 17.6

279 23.4 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 68.884 ng

RT: 17.309 min Scan# 2587

Delta R.T. -0.006 min

Lab File: BF141478.D

Acq: 06 Feb 2025 13:47

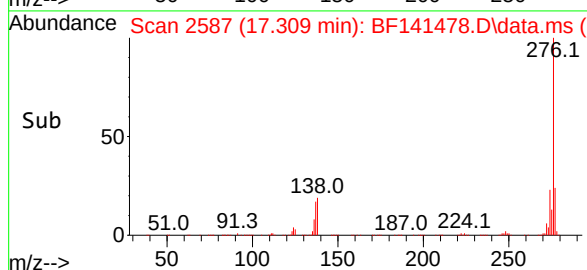
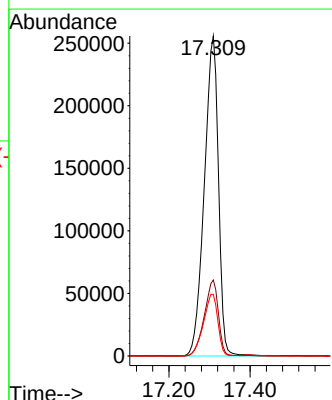
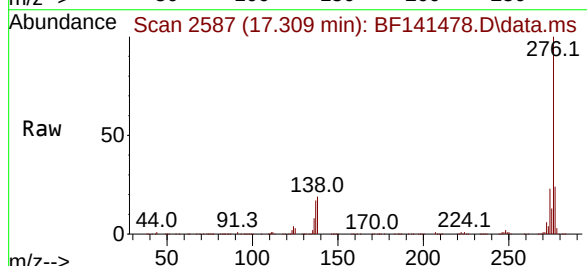
Tgt Ion:276 Resp: 617241

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 19.3 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141479.D
 Acq On : 06 Feb 2025 14:14
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Quant Time: Feb 06 16:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	90415	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	341252	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	186230	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	312902	20.000	ng	0.00
76) Chrysene-d12	13.962	240	184347	20.000	ng	0.00
86) Perylene-d12	15.415	264	170605	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	878184	152.272	ng	0.00
7) Phenol-d6	6.439	99	1112281	152.591	ng	0.00
23) Nitrobenzene-d5	7.363	82	1048314	160.228	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	291947	156.058	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1789795	148.066	ng	0.00
79) Terphenyl-d14	12.904	244	1781602	163.152	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.481	88	181328	78.119	ng	99
3) Pyridine	3.216	79	435462	78.838	ng	99
4) n-Nitrosodimethylamine	3.187	42	301403	82.409	ng	97
6) Aniline	6.463	93	498556	72.913	ng	94
8) 2-Chlorophenol	6.586	128	470975	75.577	ng	99
10) Phenol	6.457	94	567332	74.779	ng	99
11) bis(2-Chloroethyl)ether	6.534	93	454141	79.695	ng	99
12) 1,3-Dichlorobenzene	6.734	146	494180	75.115	ng	99
13) 1,4-Dichlorobenzene	6.810	146	498585	74.175	ng	99
14) 1,2-Dichlorobenzene	6.963	146	464559	74.465	ng	99
15) Benzyl Alcohol	6.939	79	420673	75.258	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	708318	72.613	ng	77
17) 2-Methylphenol	7.057	107	370173	75.912	ng	97
18) Hexachloroethane	7.304	117	190062	76.402	ng	97
19) n-Nitroso-di-n-propyla...	7.216	70	328097	75.249	ng	98
20) 3+4-Methylphenols	7.216	107	450046	72.613	ng	# 88
22) Acetophenone	7.210	105	652334	76.846	ng	98
24) Nitrobenzene	7.381	77	513249	80.448	ng	98
25) Isophorone	7.622	82	838076	80.337	ng	99
26) 2-Nitrophenol	7.692	139	261386	82.350	ng	98
27) 2,4-Dimethylphenol	7.733	122	300036	80.915	ng	98
28) bis(2-Chloroethoxy)met...	7.828	93	529442	79.203	ng	99
29) 2,4-Dichlorophenol	7.939	162	399027	79.645	ng	98
30) 1,2,4-Trichlorobenzene	8.016	180	428656	78.568	ng	99
31) Naphthalene	8.098	128	1381453	77.769	ng	100
32) Benzoic acid	7.892	122	335418	87.086	ng	98
33) 4-Chloroaniline	8.157	127	504834	81.400	ng	98
34) Hexachlorobutadiene	8.210	225	257532	78.628	ng	100
35) Caprolactam	8.545	113	125619	82.350	ng	97
36) 4-Chloro-3-methylphenol	8.639	107	441925	79.630	ng	98
37) 2-Methylnaphthalene	8.786	142	889774	76.975	ng	100
38) 1-Methylnaphthalene	8.886	142	861860	76.983	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	418579	77.689	ng	99
41) Hexachlorocyclopentadiene	8.939	237	159430	88.965	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	277156	79.591	ng	97
44) 2,4,5-Trichlorophenol	9.116	196	298856	79.189	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141479.D
 Acq On : 06 Feb 2025 14:14
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Quant Time: Feb 06 16:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

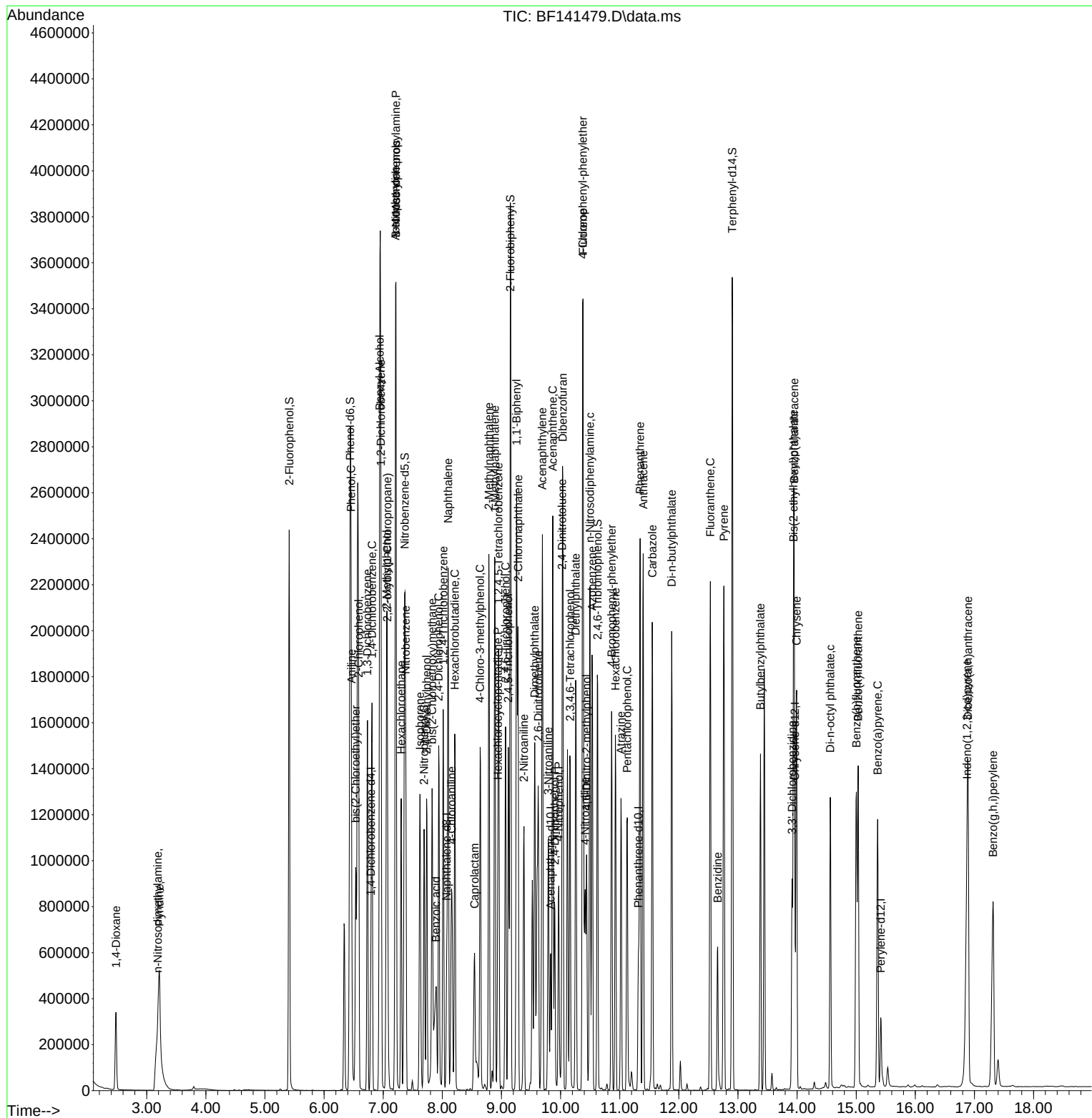
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.257	154	1100720	76.237	ng	99
47) 2-Chloronaphthalene	9.280	162	821334	76.929	ng	99
48) 2-Nitroaniline	9.380	65	286532	79.969	ng	97
49) Acenaphthylene	9.692	152	1211515	76.291	ng	99
50) Dimethylphthalate	9.563	163	1002121	79.265	ng	99
51) 2,6-Dinitrotoluene	9.622	165	215853	78.101	ng	94
52) Acenaphthene	9.869	154	819818	76.791	ng	99
53) 3-Nitroaniline	9.792	138	235511	79.173	ng	97
54) 2,4-Dinitrophenol	9.904	184	147768	89.960	ng	95
55) Dibenzofuran	10.039	168	1174157	74.928	ng	100
56) 4-Nitrophenol	9.969	139	187131	84.744	ng	97
57) 2,4-Dinitrotoluene	10.027	165	284954	77.449	ng	95
58) Fluorene	10.380	166	909704	75.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.163	232	253454	78.006	ng	98
60) Diethylphthalate	10.257	149	945293	75.995	ng	100
61) 4-Chlorophenyl-phenyle...	10.374	204	435522	74.716	ng	99
62) 4-Nitroaniline	10.416	138	241257	79.873	ng	99
63) Azobenzene	10.533	77	963689	77.931	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	185427	85.309	ng	99
66) n-Nitrosodiphenylamine	10.498	169	785313	78.404	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	276228	78.988	ng	96
68) Hexachlorobenzene	10.927	284	285111	79.174	ng	97
69) Atrazine	11.021	200	219923	73.188	ng	100
70) Pentachlorophenol	11.127	266	200556	87.100	ng	99
71) Phenanthrene	11.345	178	1312474	76.201	ng	100
72) Anthracene	11.398	178	1322462	76.380	ng	99
73) Carbazole	11.551	167	1168253	74.989	ng	99
74) Di-n-butylphthalate	11.880	149	1382706	76.865	ng	99
75) Fluoranthene	12.533	202	1333237	73.011	ng	100
77) Benzidine	12.657	184	354555	87.207	ng	99
78) Pyrene	12.763	202	1319554	84.086	ng	100
80) Butylbenzylphthalate	13.380	149	459803	84.592	ng	100
81) Benzo(a)anthracene	13.951	228	943291	76.977	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	263773	75.143	ng	100
83) Chrysene	13.992	228	906415	80.108	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	517884	84.477	ng	99
85) Di-n-octyl phthalate	14.562	149	803601	91.886	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	961023	91.166	ng	100
88) Benzo(b)fluoranthene	15.004	252	865205	75.529	ng	100
89) Benzo(k)fluoranthene	15.033	252	776323	79.364	ng	99
90) Benzo(a)pyrene	15.362	252	742932	80.150	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	773684	90.578	ng	99
92) Benzo(g,h,i)perylene	17.315	276	831418	93.015	ng	99

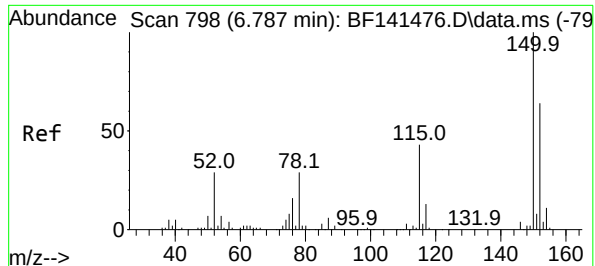
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141479.D
 Acq On : 06 Feb 2025 14:14
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Quant Time: Feb 06 16:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

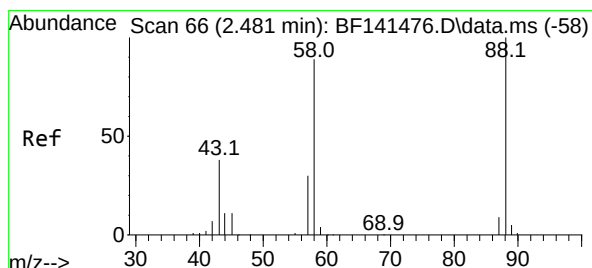
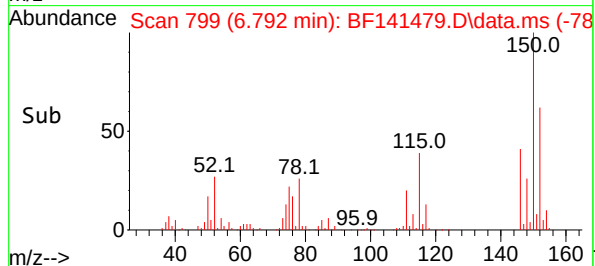
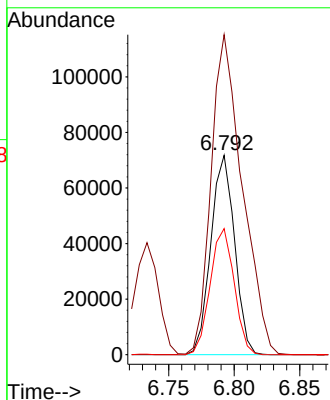
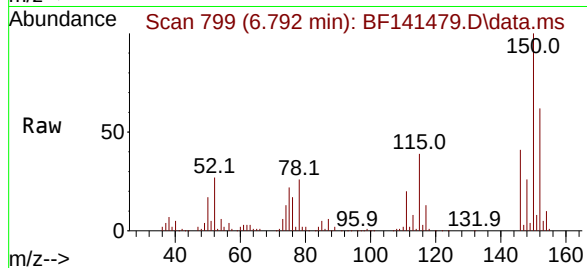




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

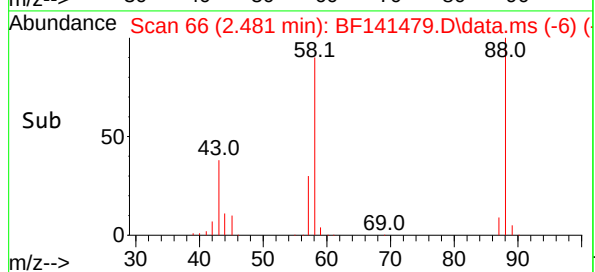
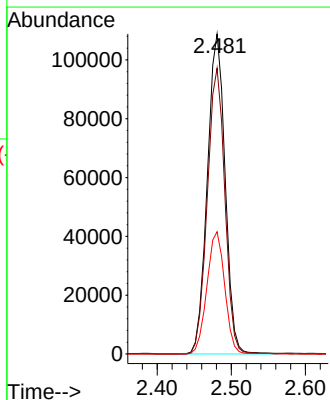
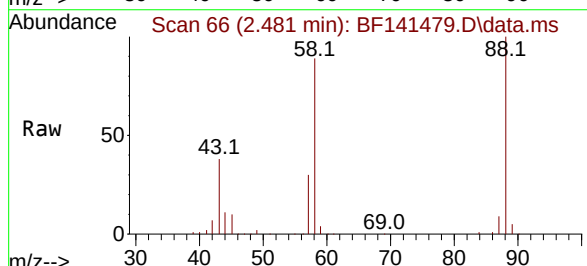
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

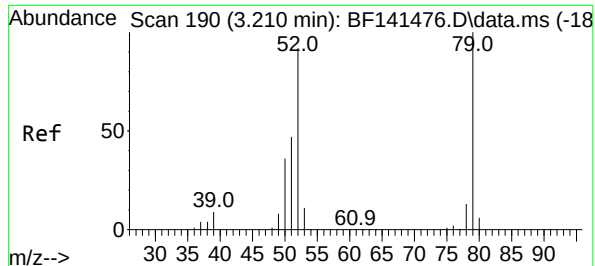
Tgt Ion:152 Resp: 90415
Ion Ratio Lower Upper
152 100
150 160.5 125.0 187.4
115 63.2 53.6 80.4



#2
1,4-Dioxane
Concen: 78.119 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 88 Resp: 181328
Ion Ratio Lower Upper
88 100
58 88.2 71.1 106.7
43 38.3 30.6 46.0

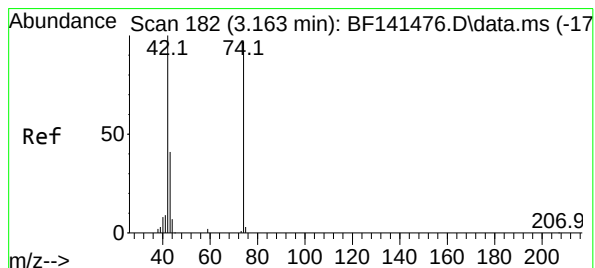
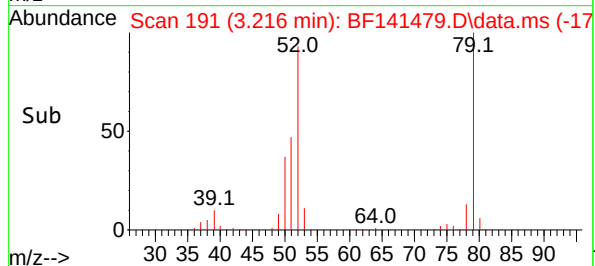
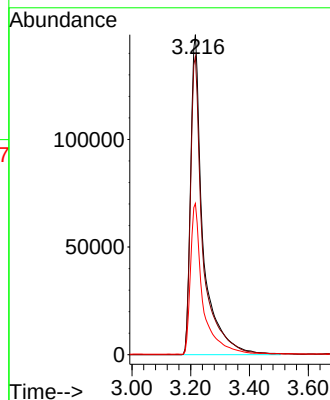
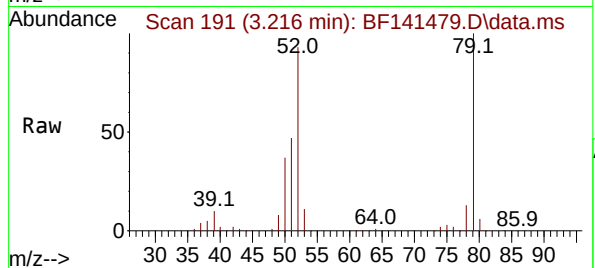




#3
Pyridine
Concen: 78.838 ng
RT: 3.216 min Scan# 190
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

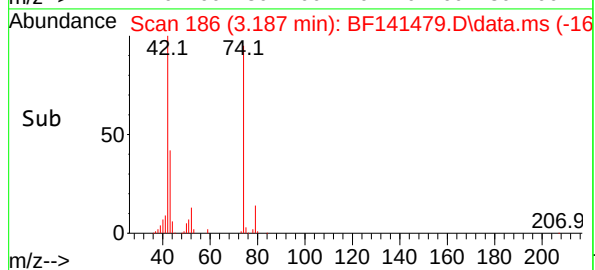
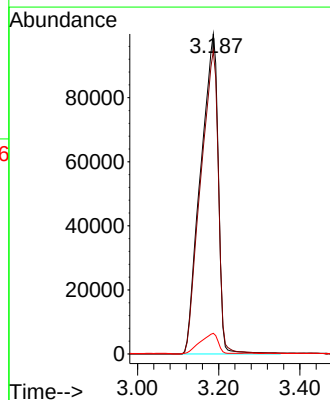
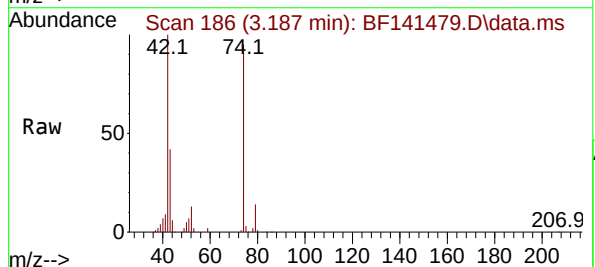
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

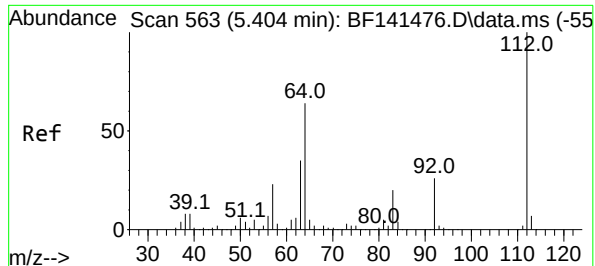
Tgt Ion: 79 Resp: 435462
Ion Ratio Lower Upper
79 100
52 93.2 73.7 110.5
51 47.3 37.5 56.3



#4
n-Nitrosodimethylamine
Concen: 82.409 ng
RT: 3.187 min Scan# 186
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 42 Resp: 301403
Ion Ratio Lower Upper
42 100
74 94.7 78.0 117.0
44 6.4 5.4 8.2

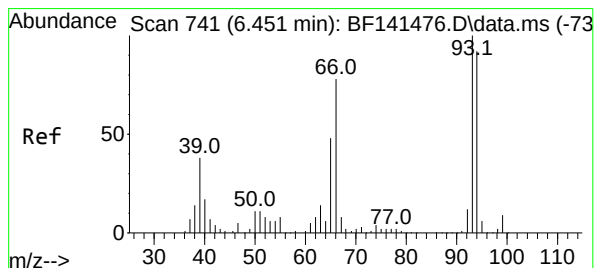
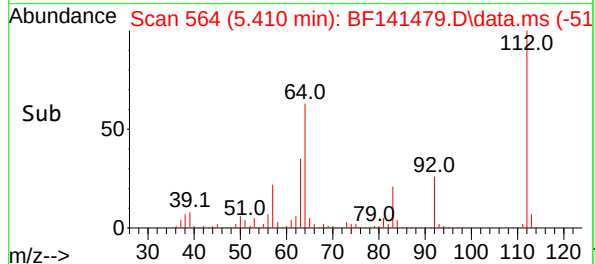
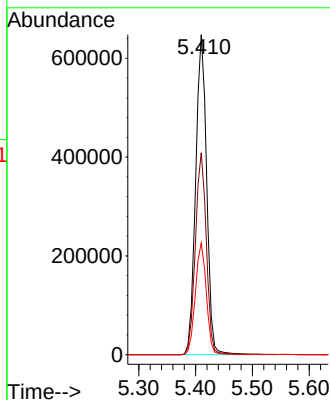
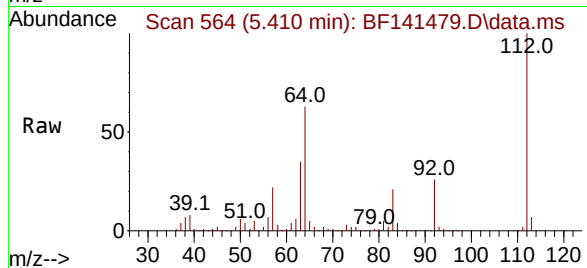




#5
2-Fluorophenol
Concen: 152.272 ng
RT: 5.410 min Scan# 501
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

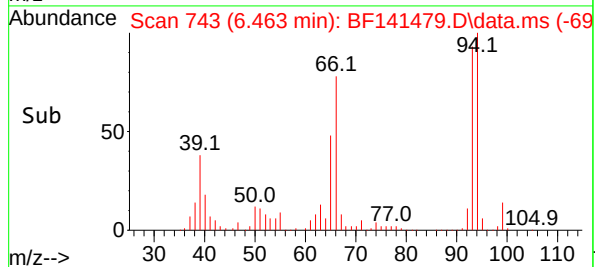
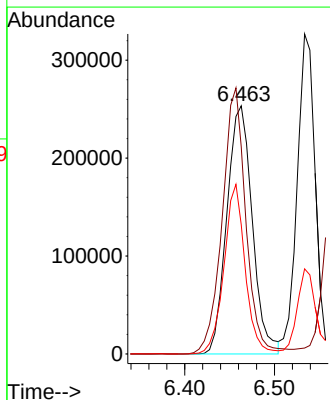
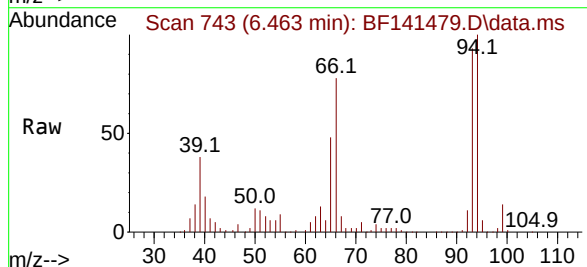
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

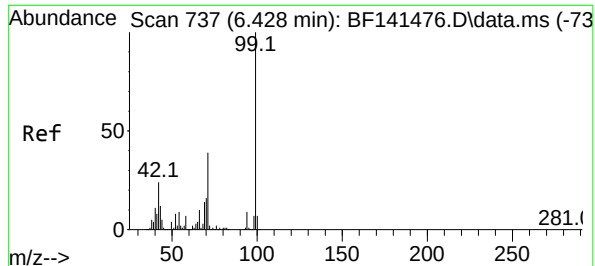
Tgt Ion:112 Resp: 878184
Ion Ratio Lower Upper
112 100
64 63.1 51.1 76.7
63 34.9 28.4 42.6



#6
Aniline
Concen: 72.913 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 93 Resp: 498556
Ion Ratio Lower Upper
93 100
66 83.5 62.6 94.0
65 52.1 38.3 57.5





#7

Phenol-d6

Concen: 152.591 ng

RT: 6.439 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

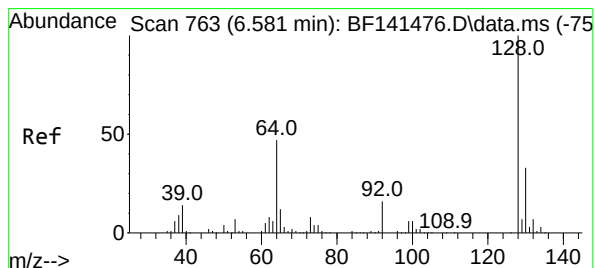
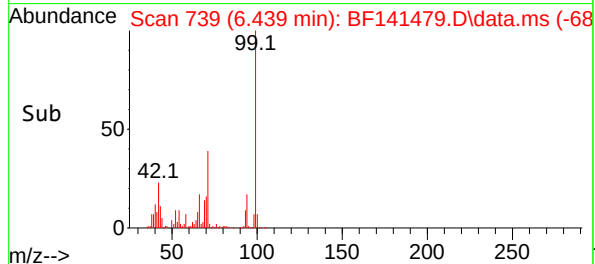
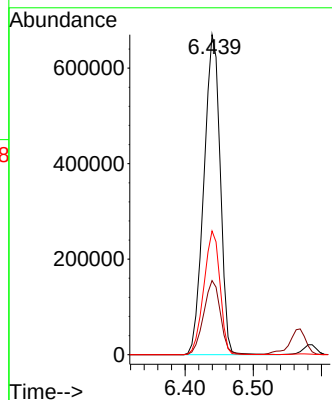
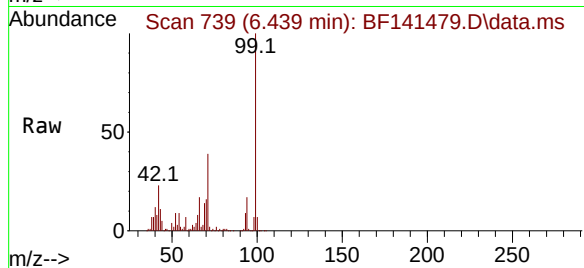
BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion: 99 Resp: 1112281

Ion	Ratio	Lower	Upper
99	100		
42	23.2	19.1	28.7
71	38.7	31.1	46.7



#8

2-Chlorophenol

Concen: 75.577 ng

RT: 6.586 min Scan# 764

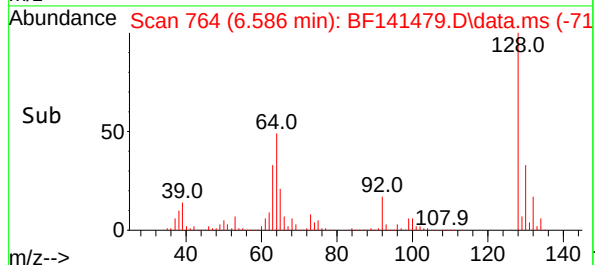
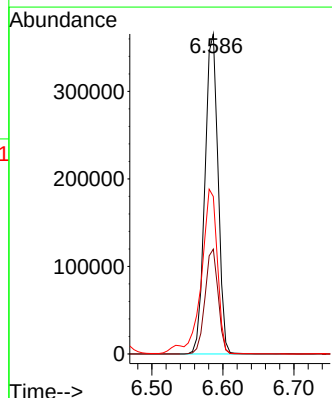
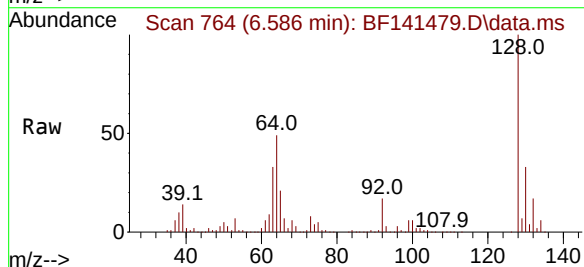
Delta R.T. 0.000 min

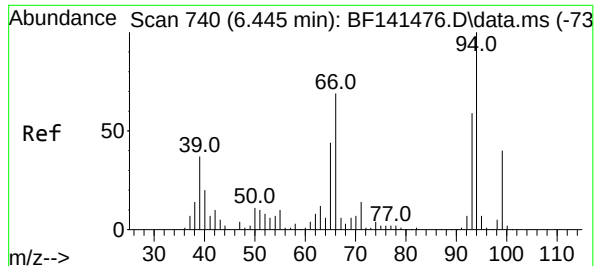
Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Tgt Ion: 128 Resp: 470975

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.7	52.7
64	49.2	28.3	68.3

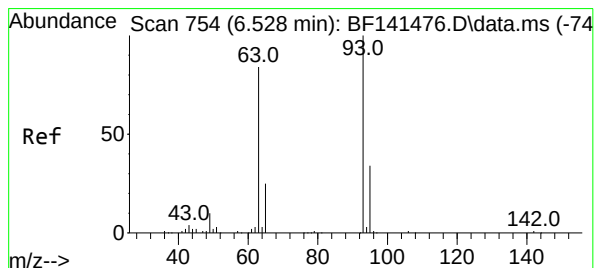
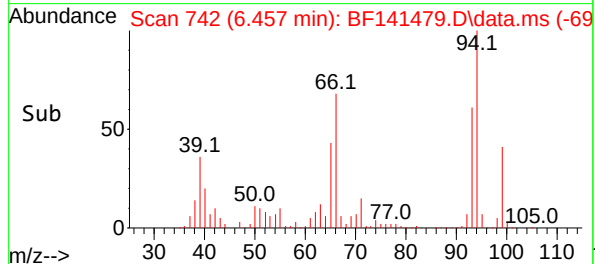
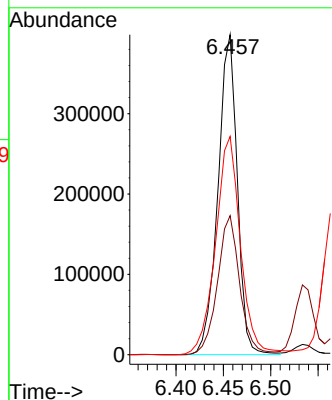
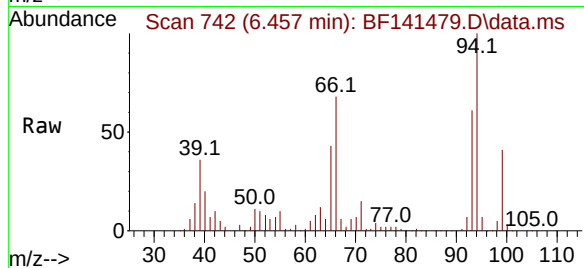




#10
Phenol
Concen: 74.779 ng
RT: 6.457 min Scan# 741
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

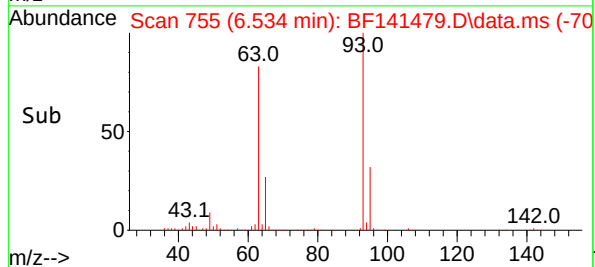
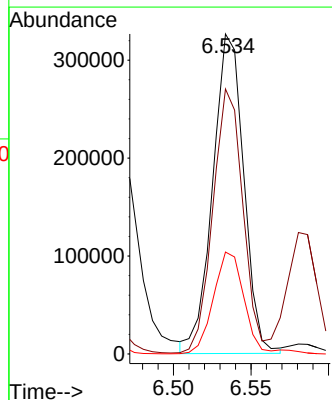
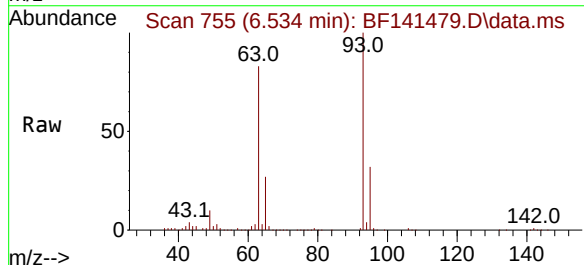
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

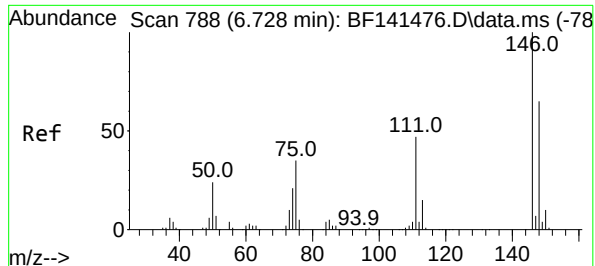
Tgt Ion: 94 Resp: 567332
Ion Ratio Lower Upper
94 100
65 43.5 23.7 63.7
66 68.2 49.3 89.3



#11
bis(2-Chloroethyl)ether
Concen: 79.695 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 93 Resp: 454141
Ion Ratio Lower Upper
93 100
63 82.8 62.0 102.0
95 31.9 12.6 52.6





#12

1,3-Dichlorobenzene

Concen: 75.115 ng

RT: 6.734 min Scan# 788

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

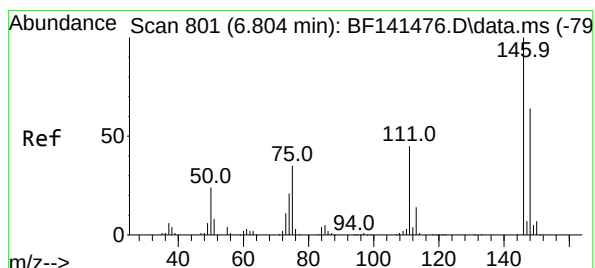
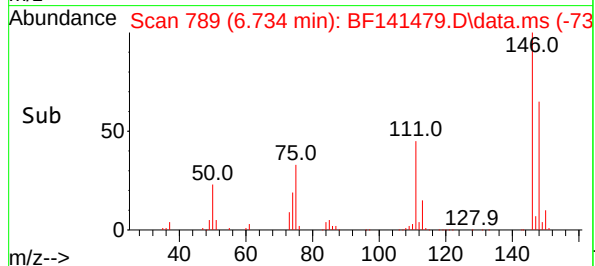
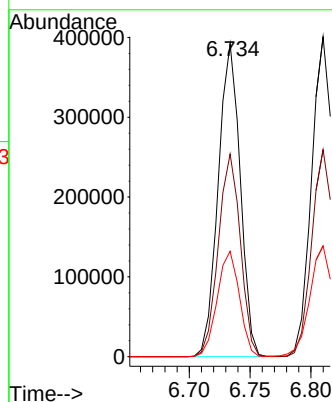
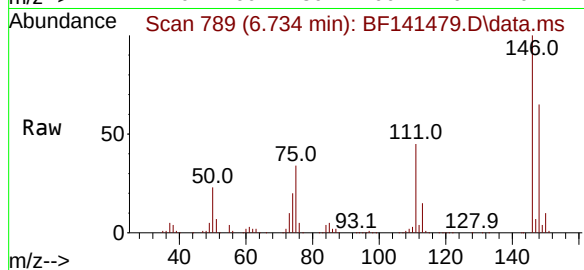
Tgt Ion:146 Resp: 494180

Ion Ratio Lower Upper

146 100

148 64.7 51.9 77.9

75 33.7 28.2 42.2



#13

1,4-Dichlorobenzene

Concen: 74.175 ng

RT: 6.810 min Scan# 802

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

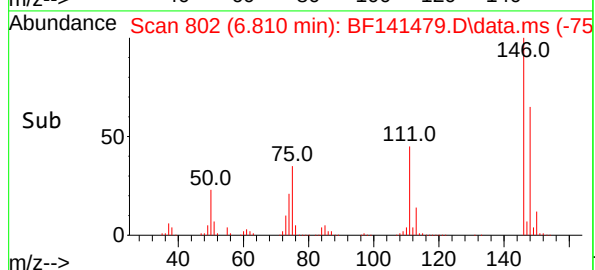
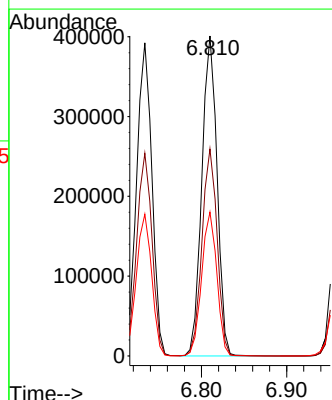
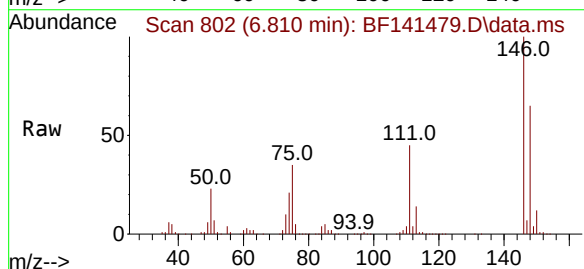
Tgt Ion:146 Resp: 498585

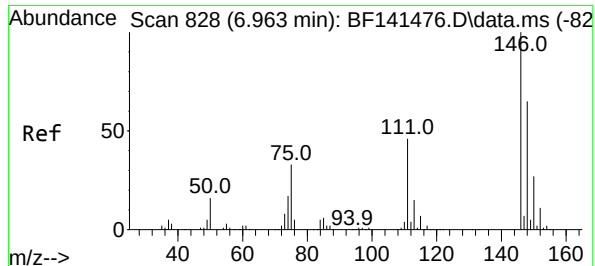
Ion Ratio Lower Upper

146 100

148 64.7 50.9 76.3

111 44.9 35.9 53.9





#14

1,2-Dichlorobenzene

Concen: 74.465 ng

RT: 6.963 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

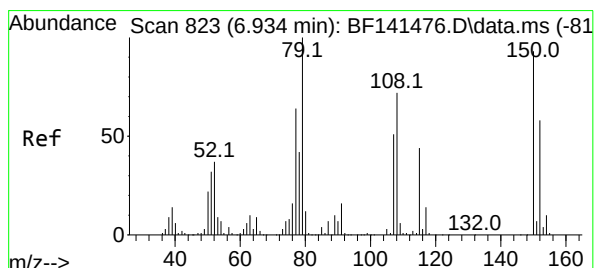
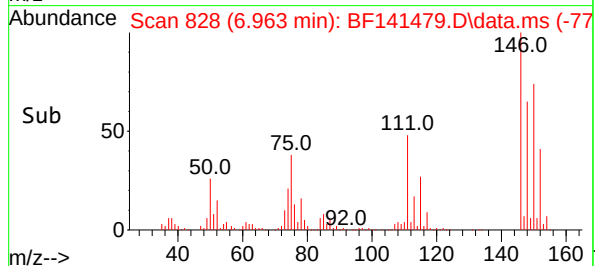
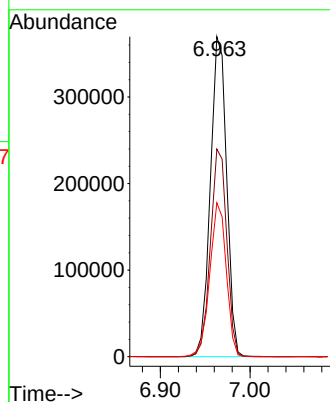
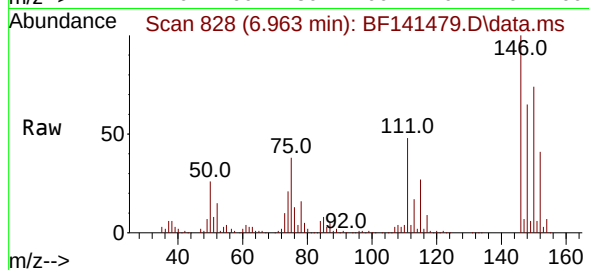
Tgt Ion:146 Resp: 464559

Ion Ratio Lower Upper

146 100

148 64.9 51.8 77.6

111 48.1 37.0 55.4



#15

Benzyl Alcohol

Concen: 75.258 ng

RT: 6.939 min Scan# 824

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

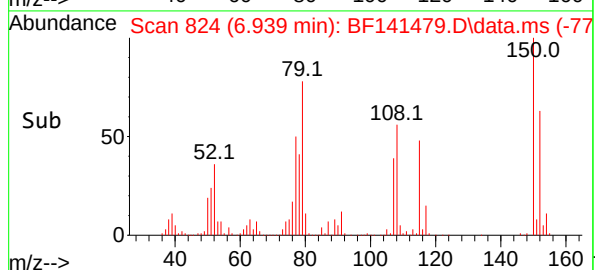
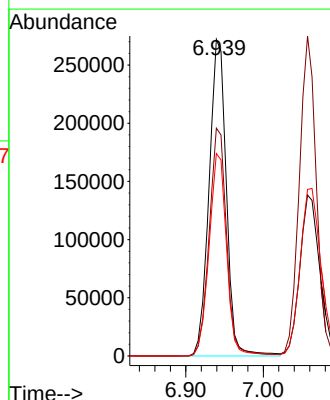
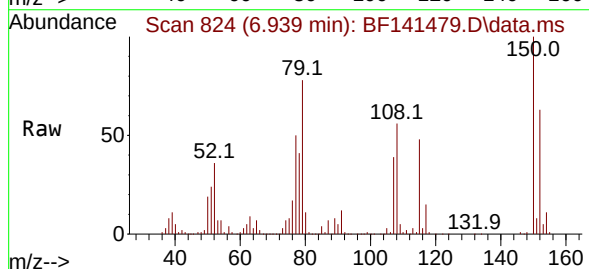
Tgt Ion: 79 Resp: 420673

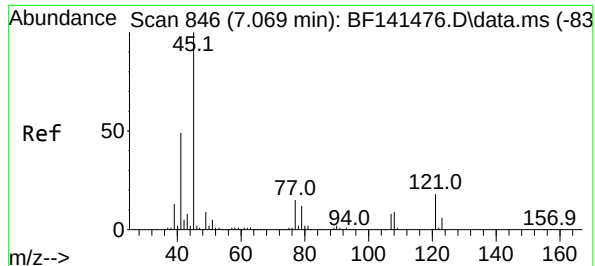
Ion Ratio Lower Upper

79 100

108 72.0 57.4 86.2

77 64.0 50.9 76.3





#16

2,2'-oxybis(1-Chloropropane)

Concen: 72.613 ng

RT: 7.069 min Scan# 84

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

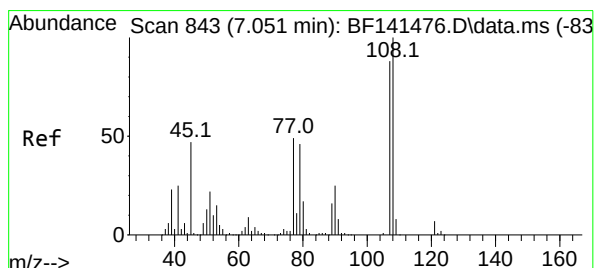
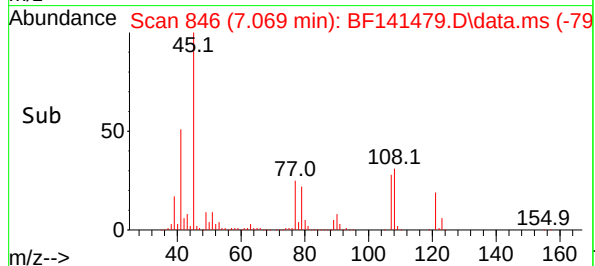
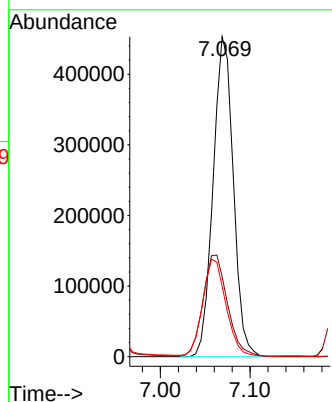
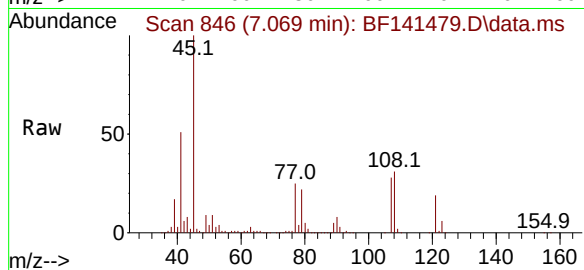
Tgt Ion: 45 Resp: 708318

Ion Ratio Lower Upper

45 100

77 25.1 0.0 35.8

79 22.0 0.0 32.7



#17

2-Methylphenol

Concen: 75.912 ng

RT: 7.057 min Scan# 844

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Tgt Ion:107 Resp: 370173

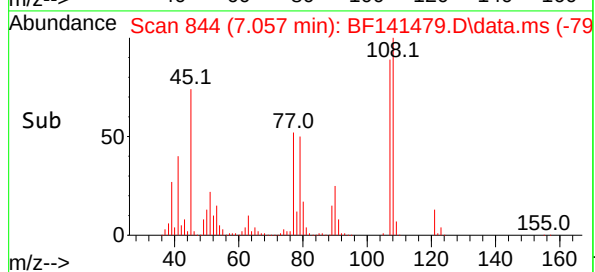
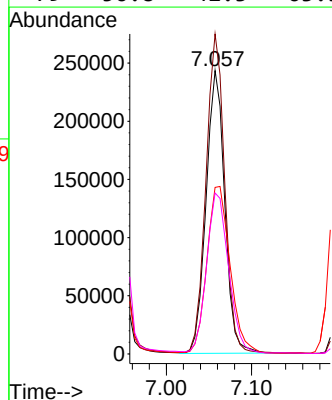
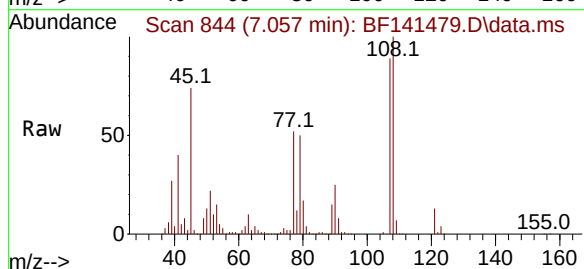
Ion Ratio Lower Upper

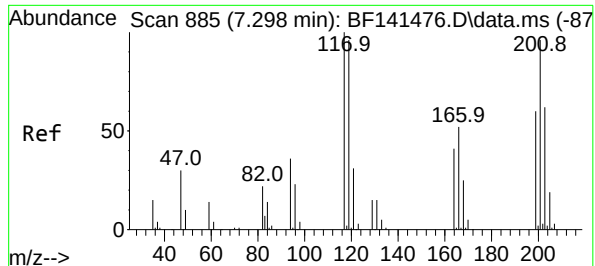
107 100

108 112.9 90.6 136.0

77 58.7 44.4 66.6

79 56.8 42.3 63.5

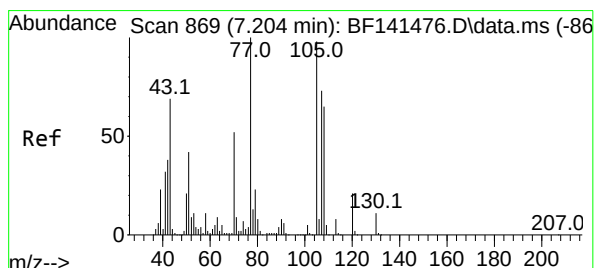
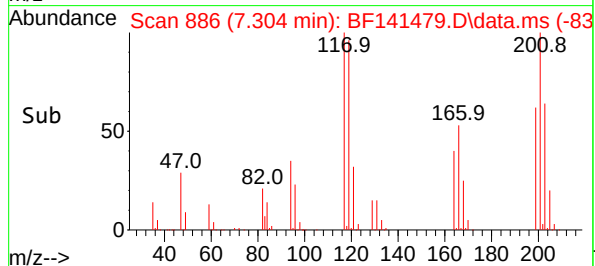
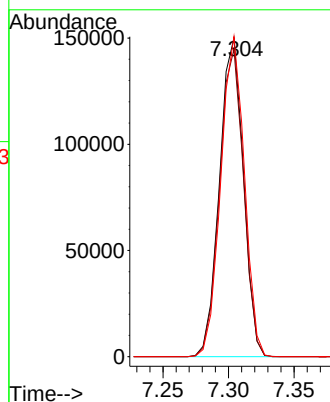
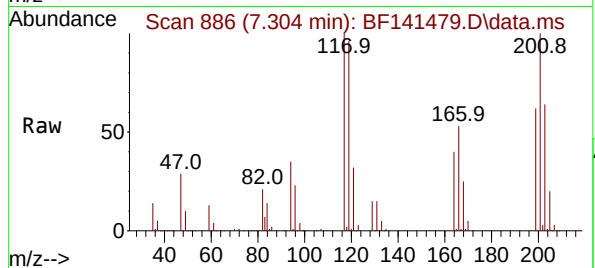




#18
Hexachloroethane
Concen: 76.402 ng
RT: 7.304 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

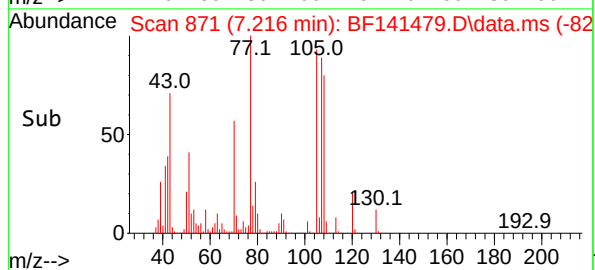
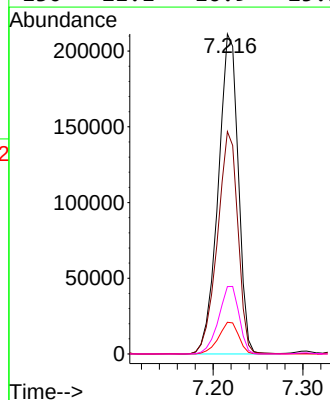
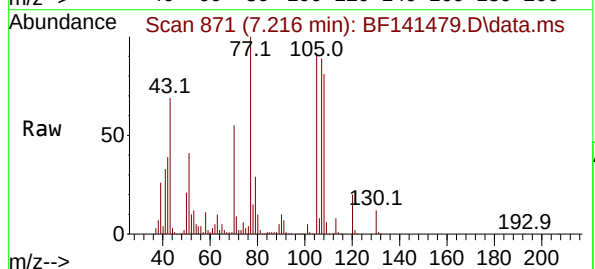
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

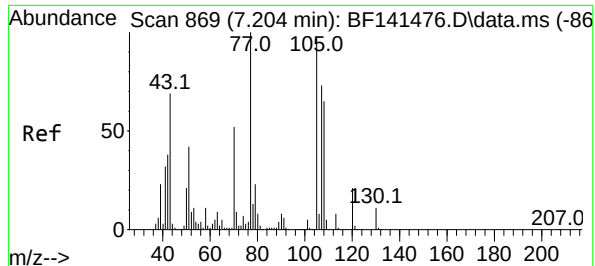
Tgt Ion:117 Resp: 190062
Ion Ratio Lower Upper
117 100
119 96.5 76.5 114.7
201 100.5 76.7 115.1



#19
n-Nitroso-di-n-propylamine
Concen: 75.249 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 70 Resp: 328097
Ion Ratio Lower Upper
70 100
42 69.5 57.4 86.2
101 9.9 8.0 12.0
130 21.1 16.9 25.3





#20

3+4-Methylphenols

Concen: 72.613 ng

RT: 7.216 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF141479.D

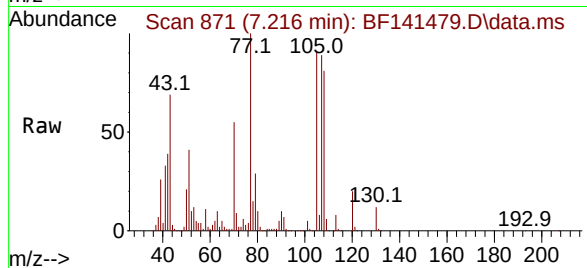
Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080



Tgt Ion:107 Resp: 450046

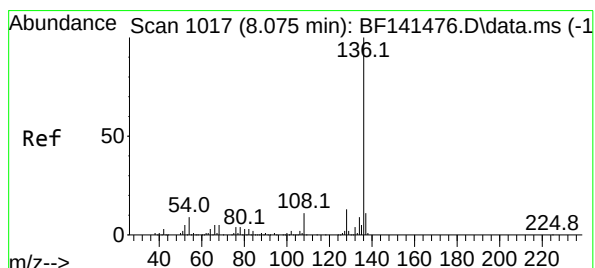
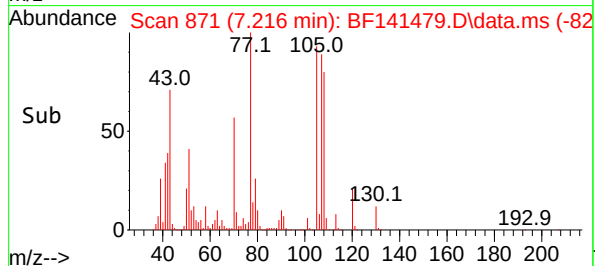
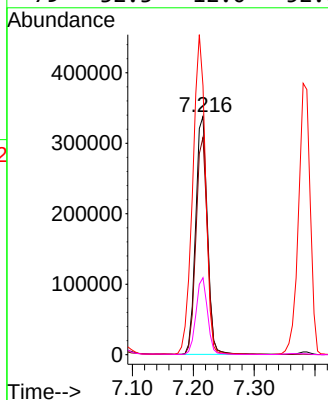
Ion Ratio Lower Upper

107 100

108 91.3 68.5 108.5

77 112.8 116.5 156.5#

79 32.3 12.0 52.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1017

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Tgt Ion:136 Resp: 341252

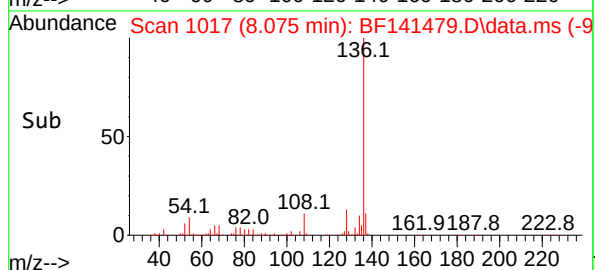
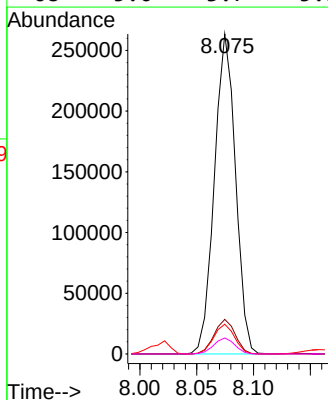
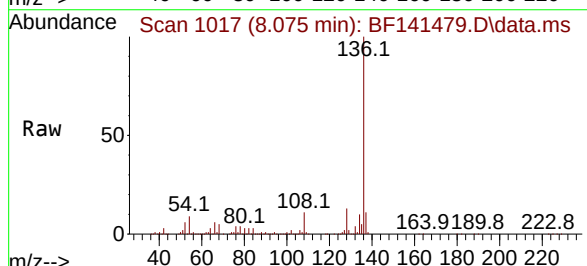
Ion Ratio Lower Upper

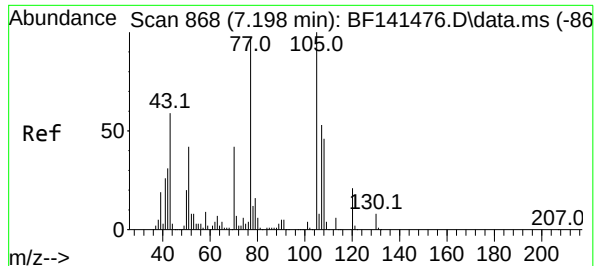
136 100

137 10.8 8.6 13.0

54 9.3 7.2 10.8

68 5.0 3.7 5.5

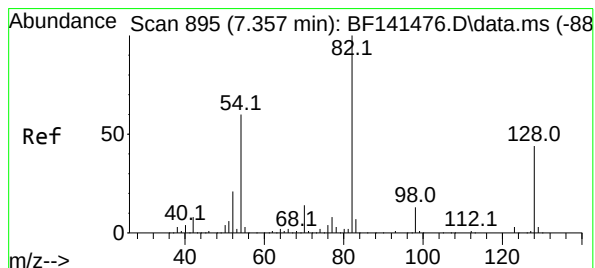
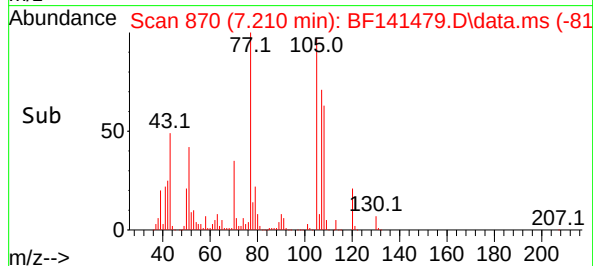
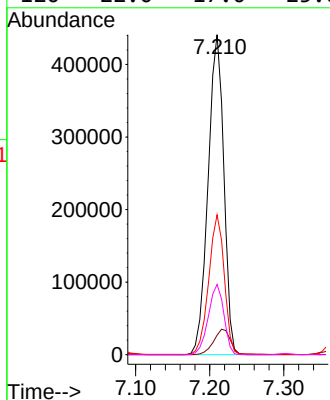
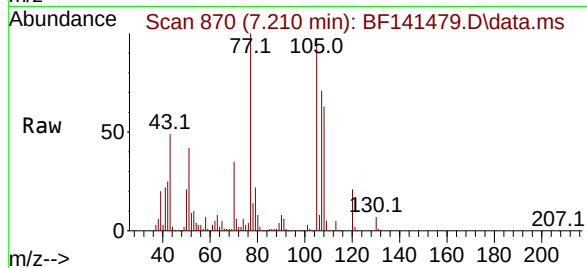




#22
Acetophenone
Concen: 76.846 ng
RT: 7.210 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

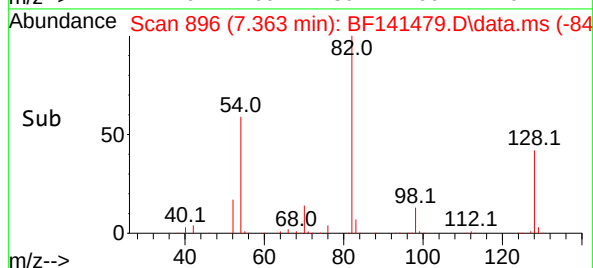
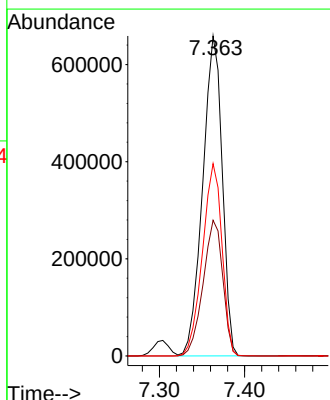
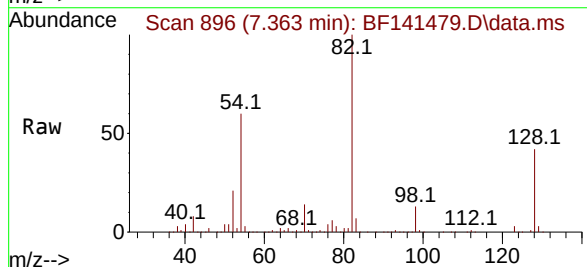
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

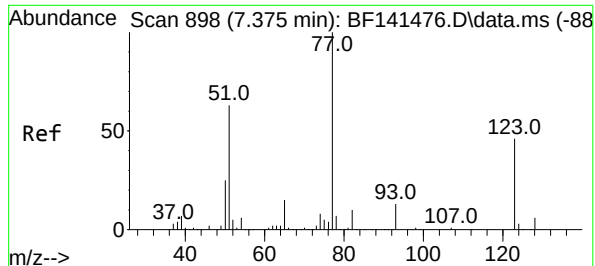
Tgt Ion:105 Resp: 652334
Ion Ratio Lower Upper
105 100
71 6.1 5.7 8.5
51 43.7 33.7 50.5
120 22.0 17.0 25.6



#23
Nitrobenzene-d5
Concen: 160.228 ng
RT: 7.363 min Scan# 896
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 82 Resp: 1048314
Ion Ratio Lower Upper
82 100
128 42.4 34.8 52.2
54 60.1 48.2 72.4

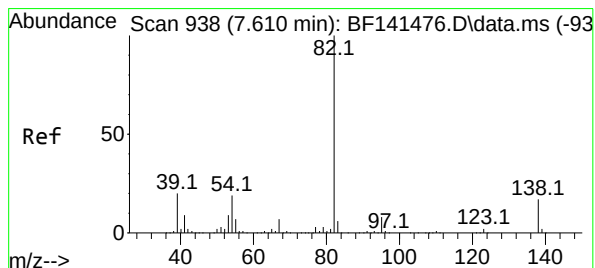
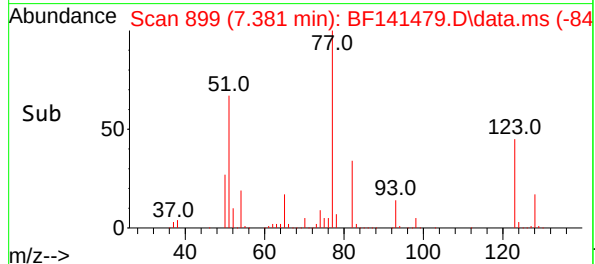
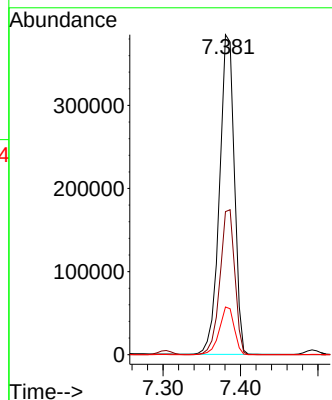
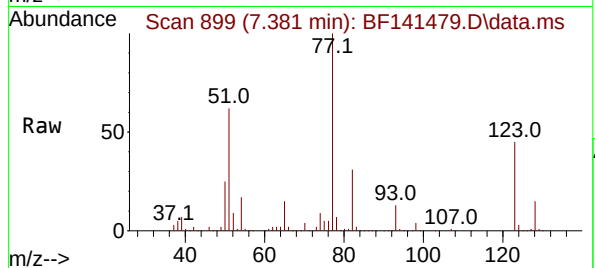




#24
Nitrobenzene
Concen: 80.448 ng
RT: 7.381 min Scan# 899
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

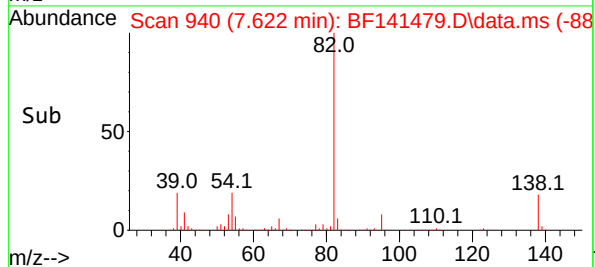
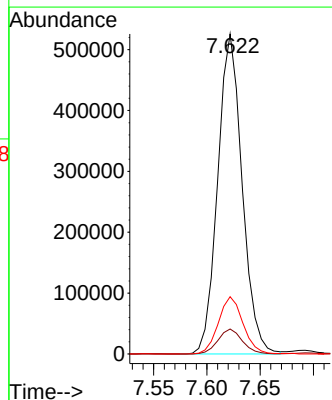
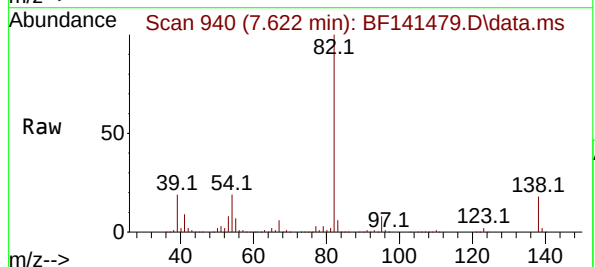
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

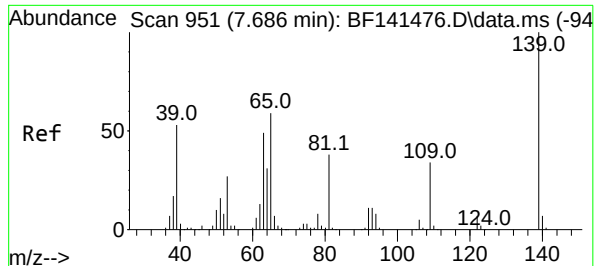
Tgt Ion: 77 Resp: 513249
Ion Ratio Lower Upper
77 100
123 44.7 36.9 55.3
65 14.9 11.9 17.9



#25
Isophorone
Concen: 80.337 ng
RT: 7.622 min Scan# 940
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 82 Resp: 838076
Ion Ratio Lower Upper
82 100
95 7.8 6.4 9.6
138 17.9 13.9 20.9





#26

2-Nitrophenol

Concen: 82.350 ng

RT: 7.692 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

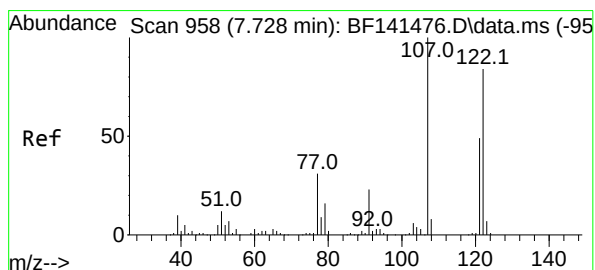
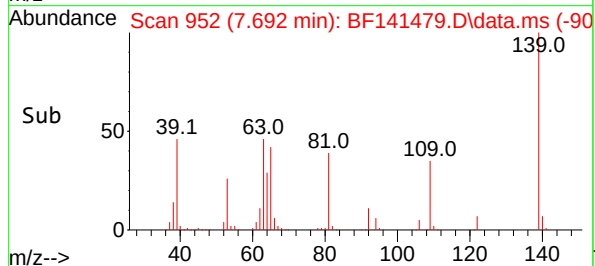
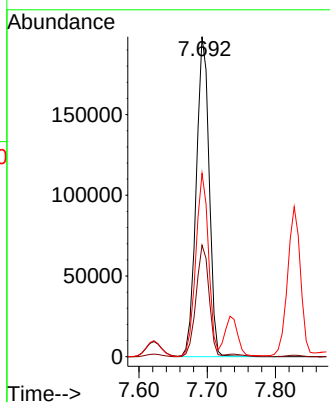
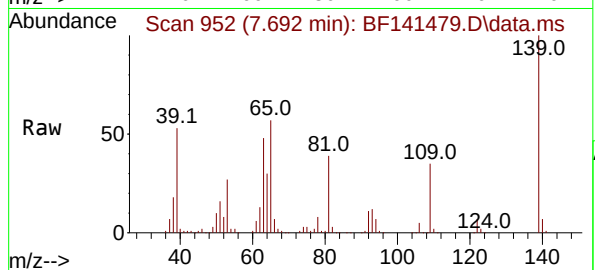
Tgt Ion:139 Resp: 261386

Ion Ratio Lower Upper

139 100

109 34.9 27.0 40.6

65 57.3 47.1 70.7



#27

2,4-Dimethylphenol

Concen: 80.915 ng

RT: 7.733 min Scan# 959

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

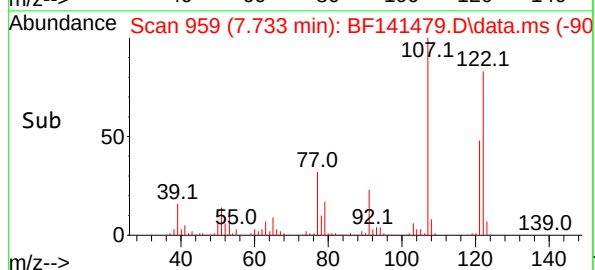
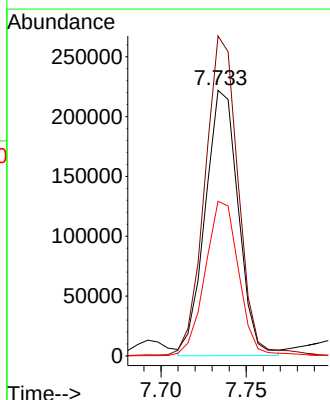
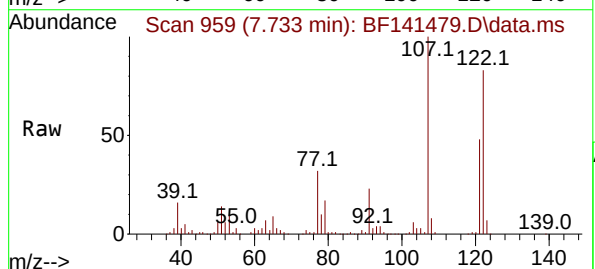
Tgt Ion:122 Resp: 300036

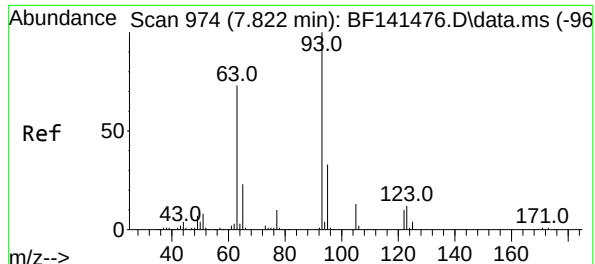
Ion Ratio Lower Upper

122 100

107 120.5 94.3 141.5

121 58.3 46.0 69.0





#28

bis(2-Chloroethoxy)methane

Concen: 79.203 ng

RT: 7.828 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

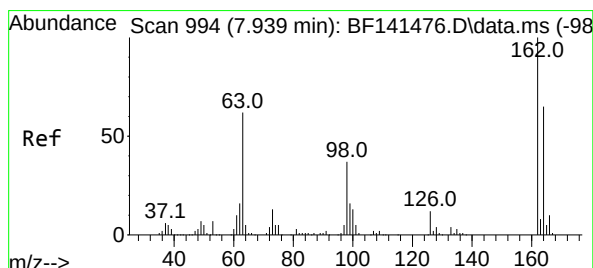
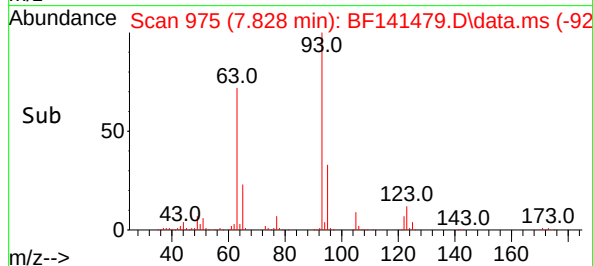
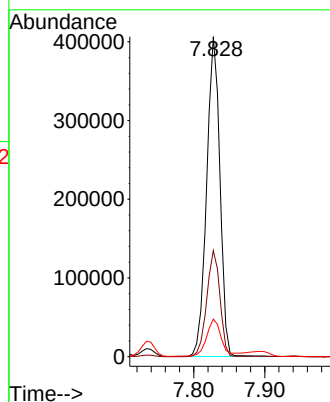
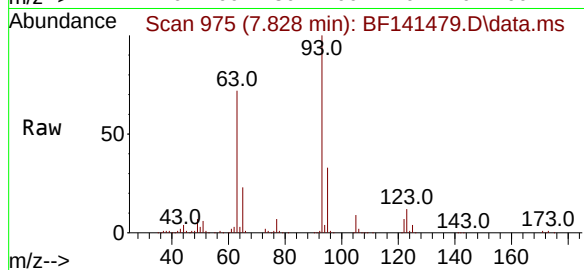
Tgt Ion: 93 Resp: 529442

Ion Ratio Lower Upper

93 100

95 33.2 26.1 39.1

123 11.8 9.5 14.3



#29

2,4-Dichlorophenol

Concen: 79.645 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

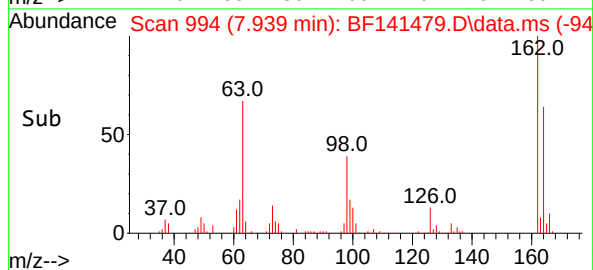
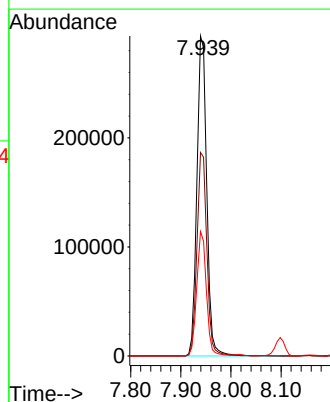
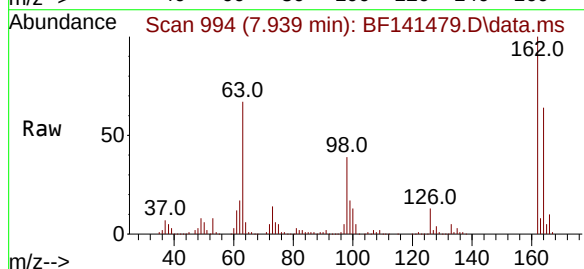
Tgt Ion:162 Resp: 399027

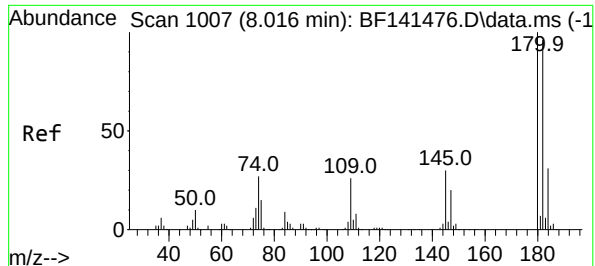
Ion Ratio Lower Upper

162 100

164 63.6 44.6 84.6

98 38.9 17.2 57.2





#30

1,2,4-Trichlorobenzene

Concen: 78.568 ng

RT: 8.016 min Scan# 1007

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

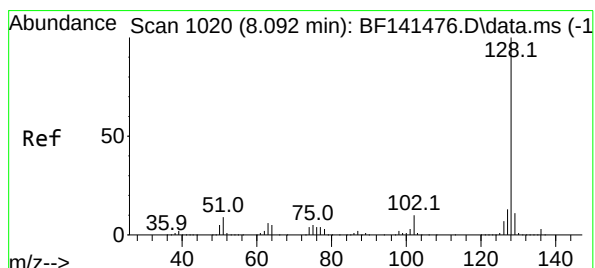
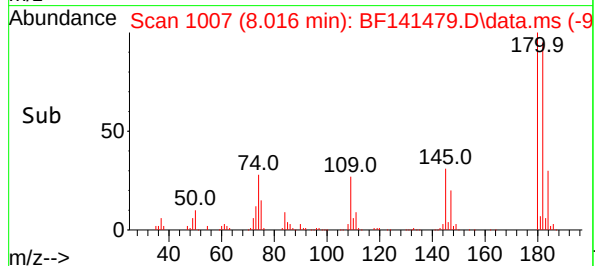
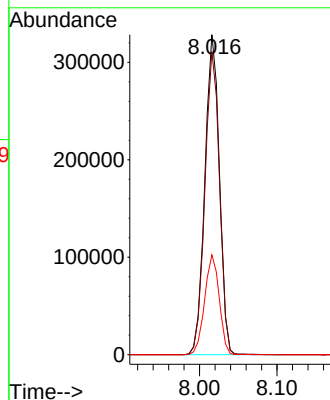
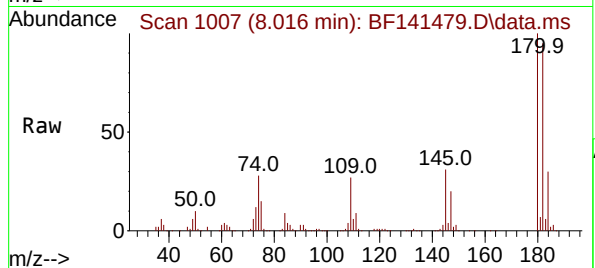
Tgt Ion:180 Resp: 428656

Ion Ratio Lower Upper

180 100

182 94.7 76.8 115.2

145 31.2 24.2 36.4



#31

Naphthalene

Concen: 77.769 ng

RT: 8.098 min Scan# 1021

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

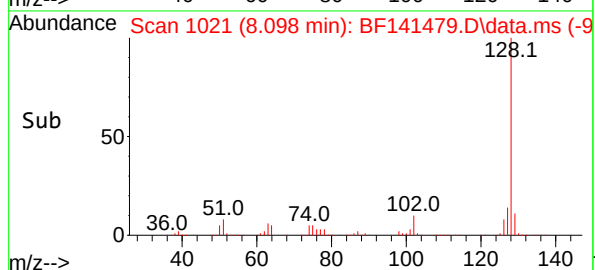
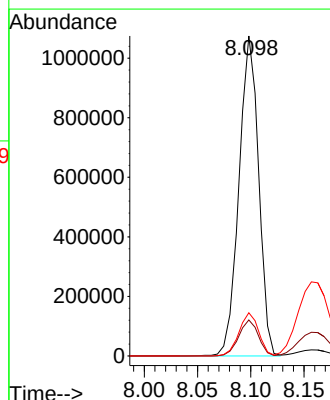
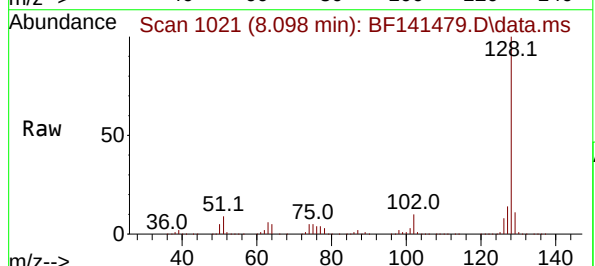
Tgt Ion:128 Resp: 1381453

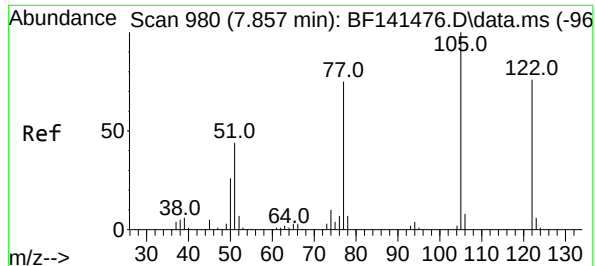
Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

127 13.5 10.7 16.1





#32

Benzoic acid

Concen: 87.086 ng

RT: 7.892 min Scan# 980

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

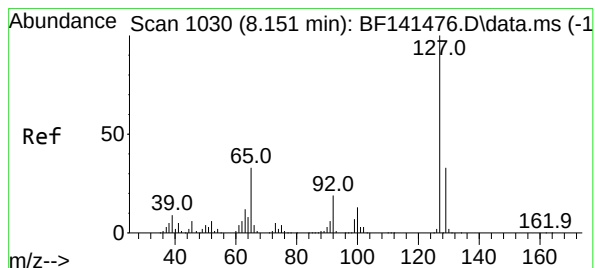
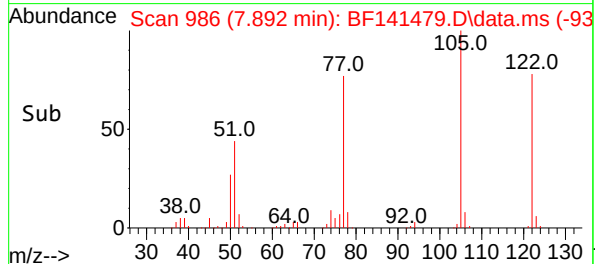
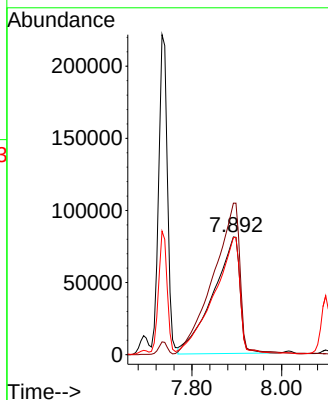
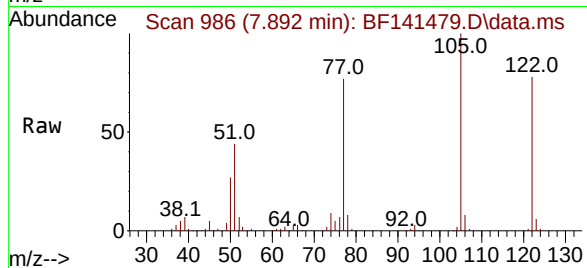
Tgt Ion:122 Resp: 335418

Ion Ratio Lower Upper

122 100

105 128.7 106.5 146.5

77 99.4 76.3 116.3



#33

4-Chloroaniline

Concen: 81.400 ng

RT: 8.157 min Scan# 1031

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Tgt Ion:127 Resp: 504834

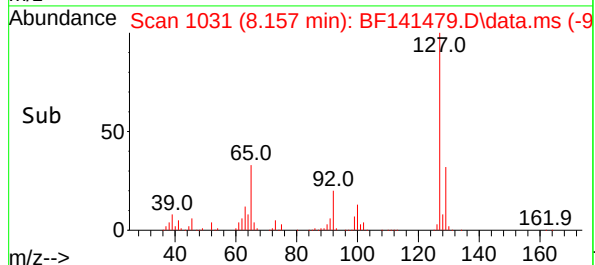
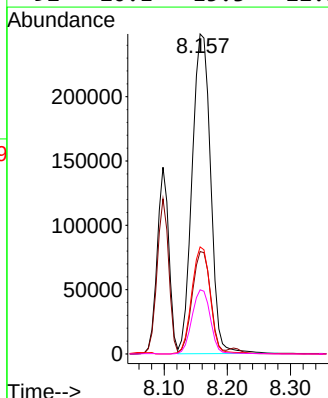
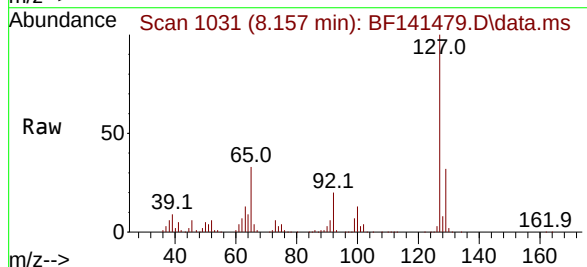
Ion Ratio Lower Upper

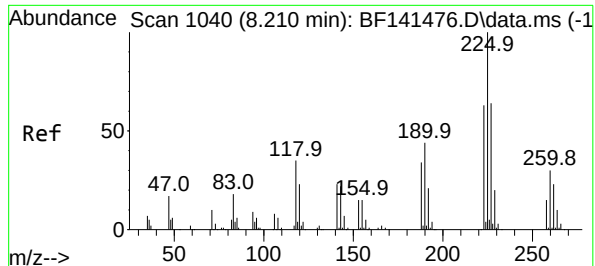
127 100

129 32.0 26.5 39.7

65 33.5 26.4 39.6

92 20.1 15.3 22.9

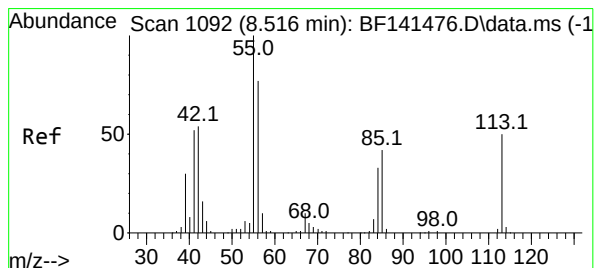
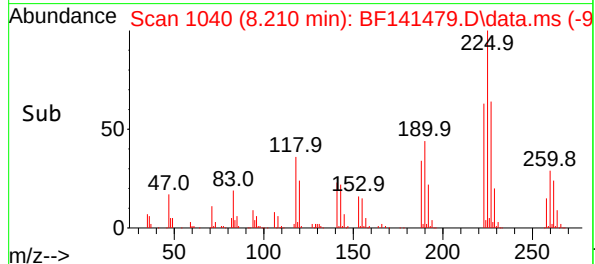
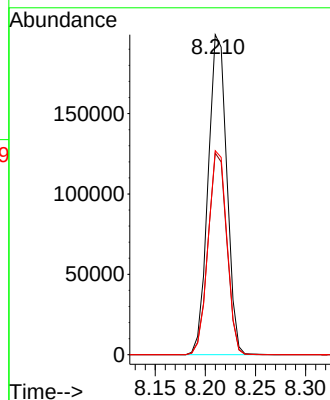
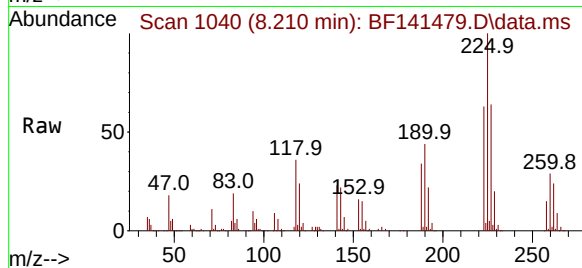




#34
Hexachlorobutadiene
Concen: 78.628 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

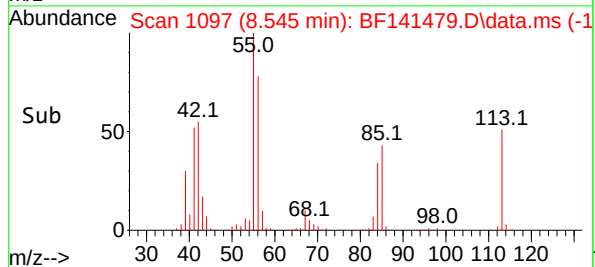
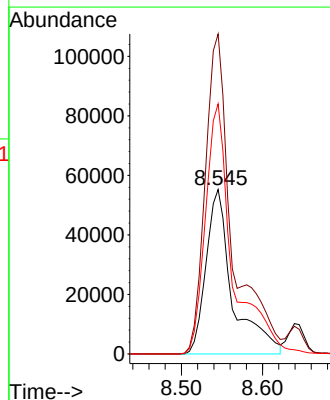
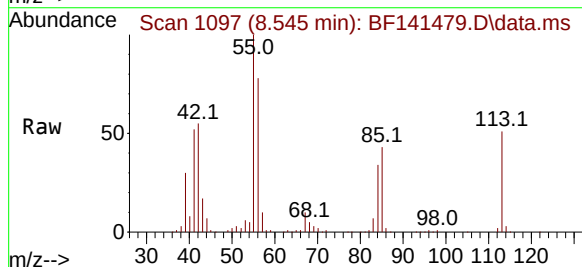
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

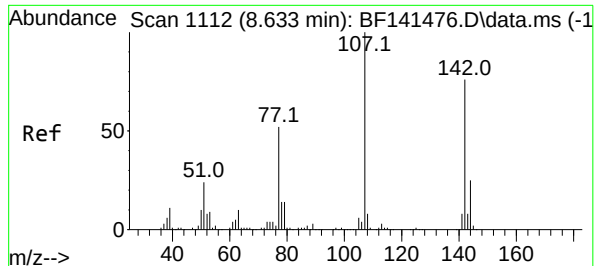
Tgt Ion:225 Resp: 257532
Ion Ratio Lower Upper
225 100
223 63.0 50.1 75.1
227 63.8 51.0 76.6



#35
Caprolactam
Concen: 82.350 ng
RT: 8.545 min Scan# 1097
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:113 Resp: 125619
Ion Ratio Lower Upper
113 100
55 194.6 180.8 220.8
56 152.1 133.6 173.6

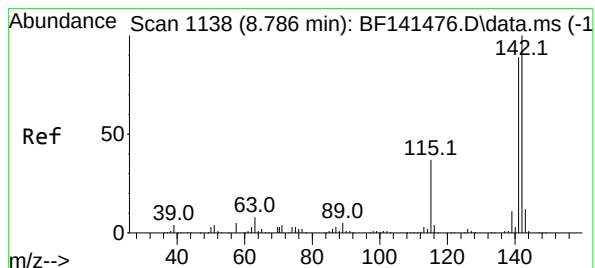
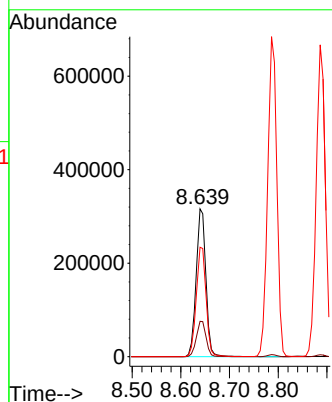
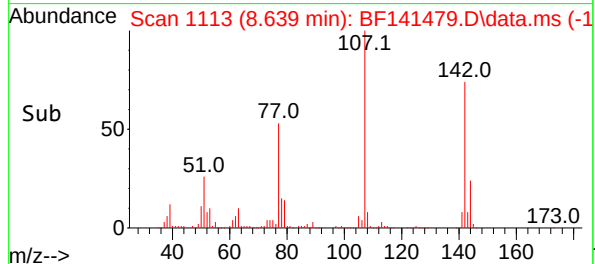
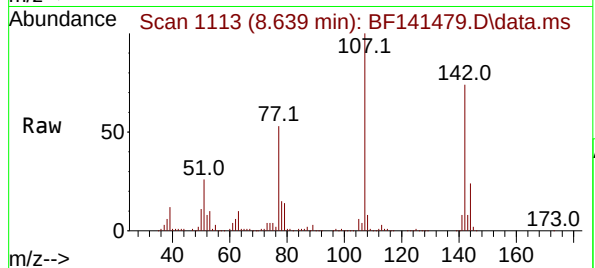




#36
4-Chloro-3-methylphenol
Concen: 79.630 ng
RT: 8.639 min Scan# 1112
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

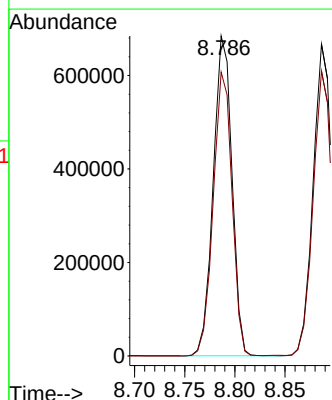
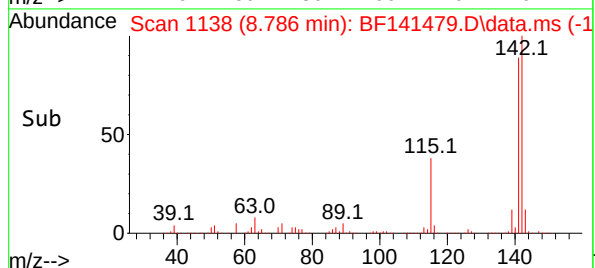
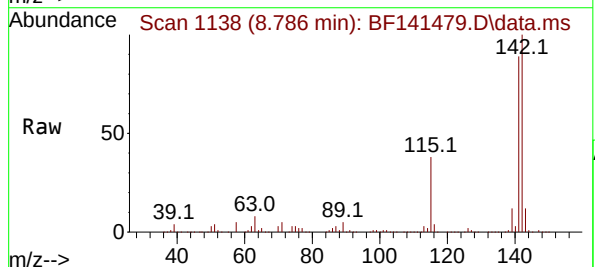
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

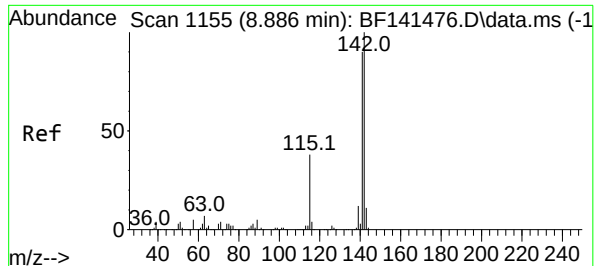
Tgt Ion:107 Resp: 441925
Ion Ratio Lower Upper
107 100
144 23.9 19.7 29.5
142 74.0 60.8 91.2



#37
2-Methylnaphthalene
Concen: 76.975 ng
RT: 8.786 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:142 Resp: 889774
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8

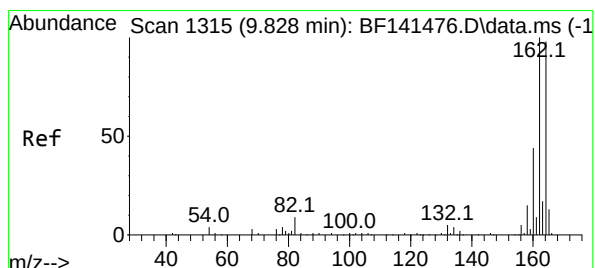
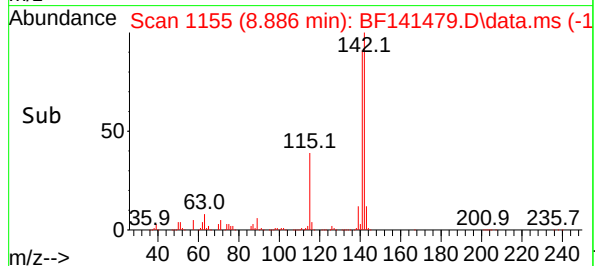
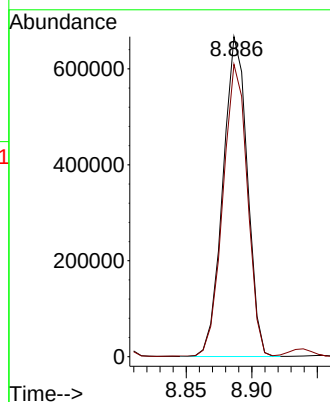
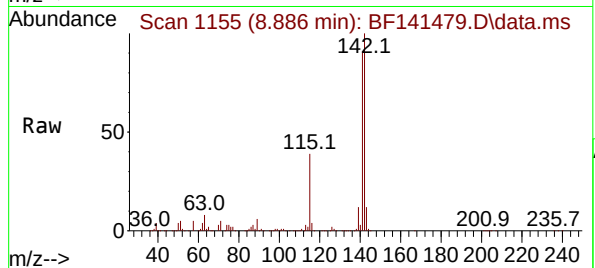




#38
1-Methylnaphthalene
Concen: 76.983 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

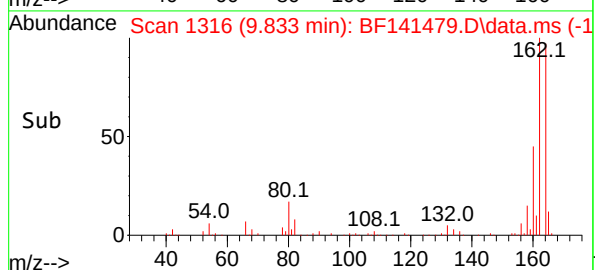
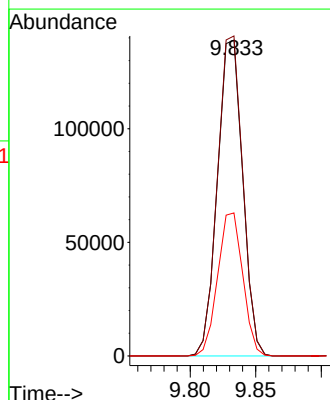
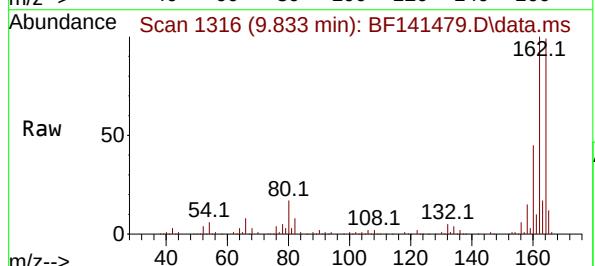
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

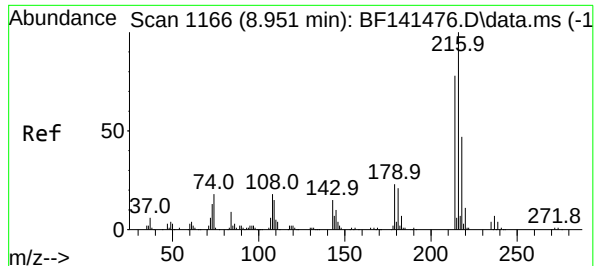
Tgt Ion:142 Resp: 861860
Ion Ratio Lower Upper
142 100
141 91.3 72.1 108.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:164 Resp: 186230
Ion Ratio Lower Upper
164 100
162 101.3 81.3 121.9
160 45.3 35.9 53.9





#40

1,2,4,5-Tetrachlorobenzene

Concen: 77.689 ng

RT: 8.951 min Scan# 1166

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion:216 Resp: 418579

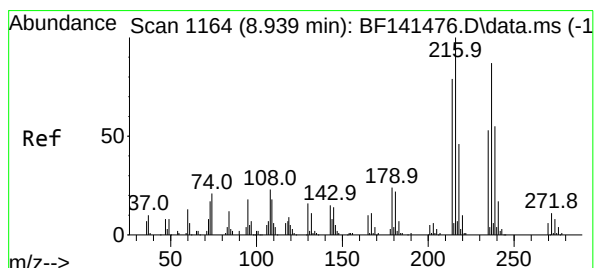
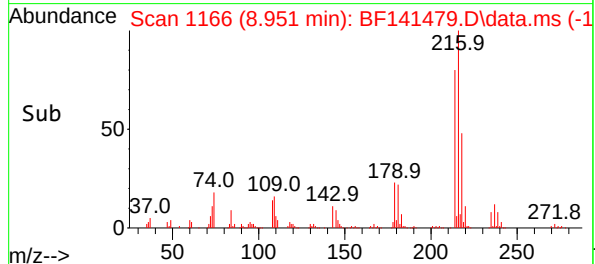
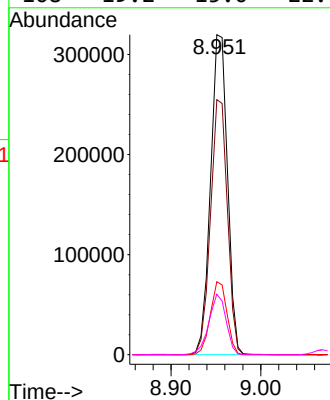
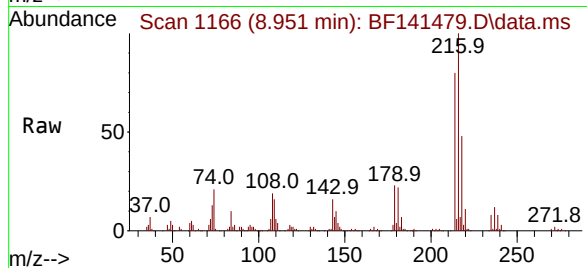
Ion Ratio Lower Upper

216 100

214 79.6 62.3 93.5

179 22.4 18.0 27.0

108 19.2 15.0 22.6



#41

Hexachlorocyclopentadiene

Concen: 88.965 ng

RT: 8.939 min Scan# 1164

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

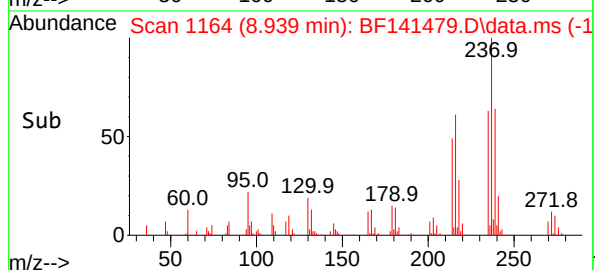
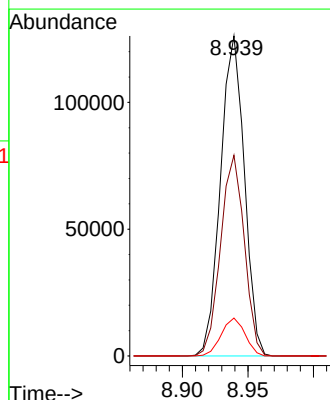
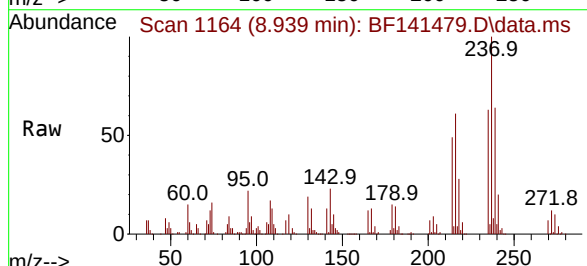
Tgt Ion:237 Resp: 159430

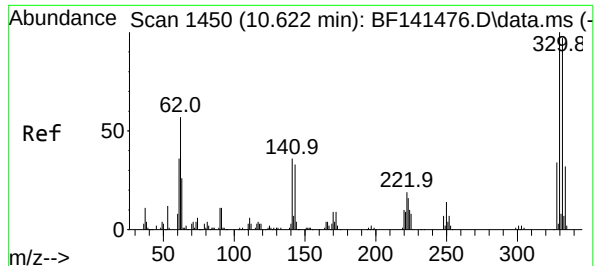
Ion Ratio Lower Upper

237 100

235 62.7 41.4 81.4

272 11.9 0.0 32.4





#42

2,4,6-Tribromophenol

Concen: 156.058 ng

RT: 10.627 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BF141479.D

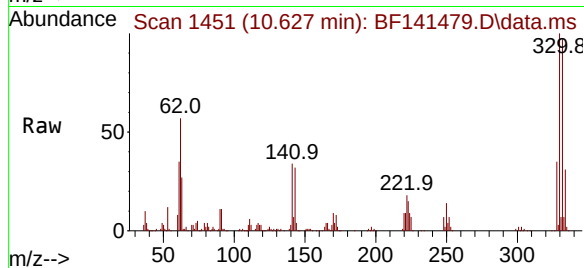
Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080



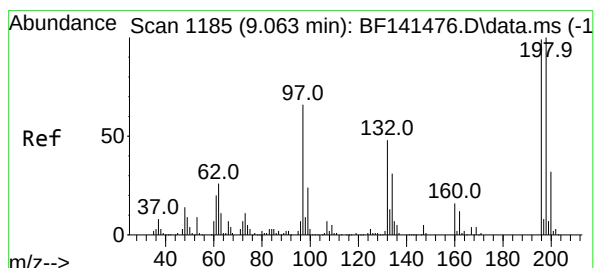
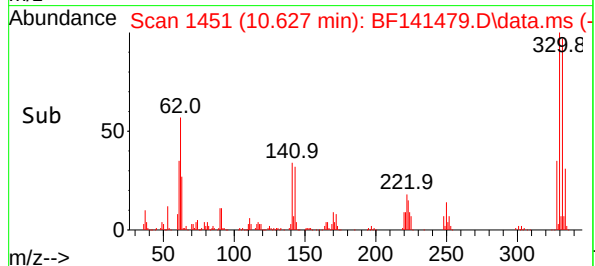
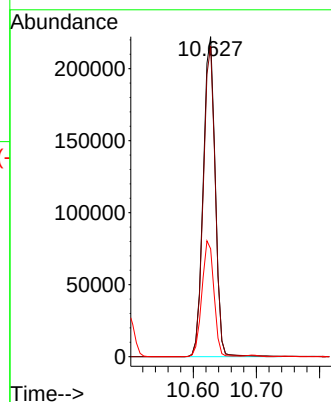
Tgt Ion:330 Resp: 291947

Ion Ratio Lower Upper

330 100

332 97.2 78.5 117.7

141 36.6 31.0 46.4



#43

2,4,6-Trichlorophenol

Concen: 79.591 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

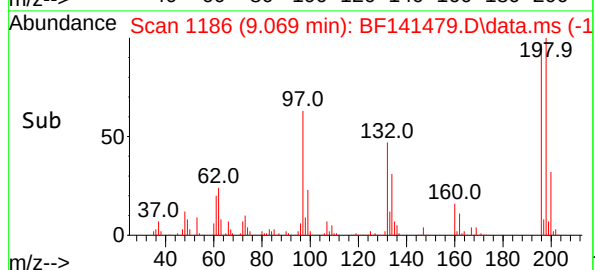
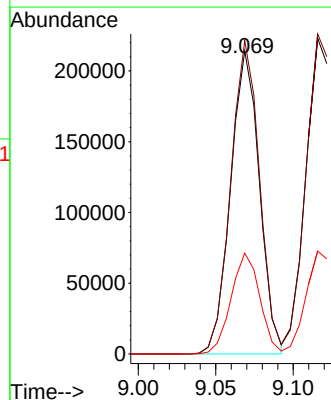
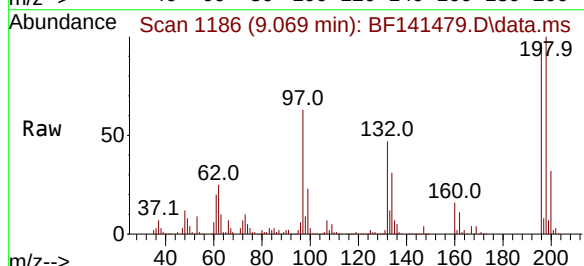
Tgt Ion:196 Resp: 277156

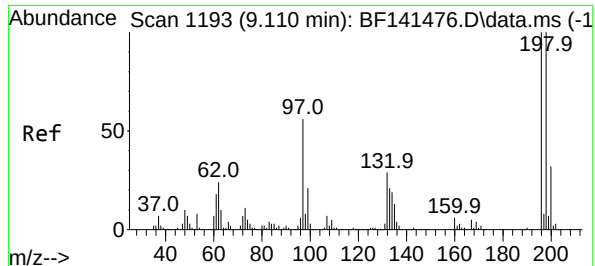
Ion Ratio Lower Upper

196 100

198 103.5 80.6 121.0

200 33.3 25.5 38.3

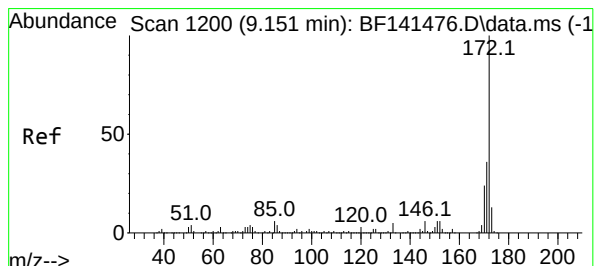
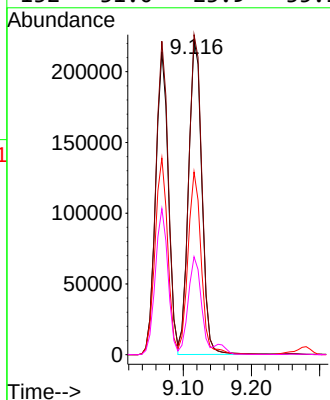
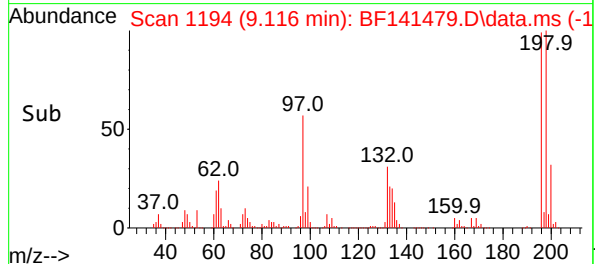
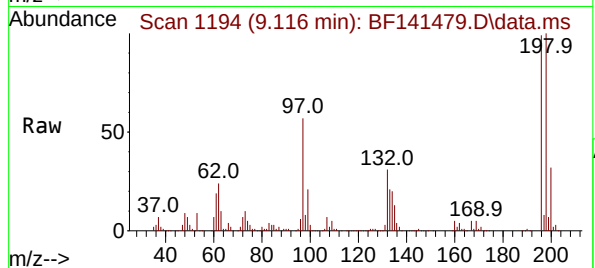




#44
2,4,5-Trichlorophenol
Concen: 79.189 ng
RT: 9.116 min Scan# 1193
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

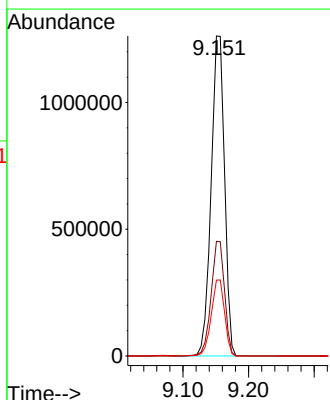
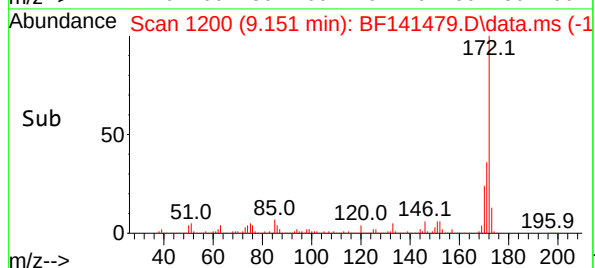
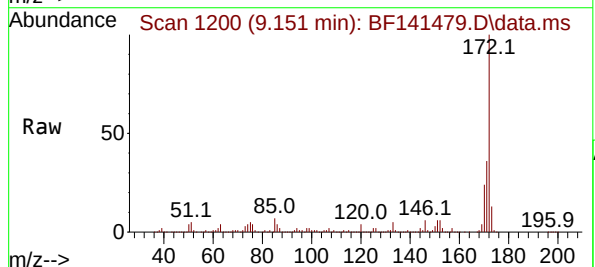
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

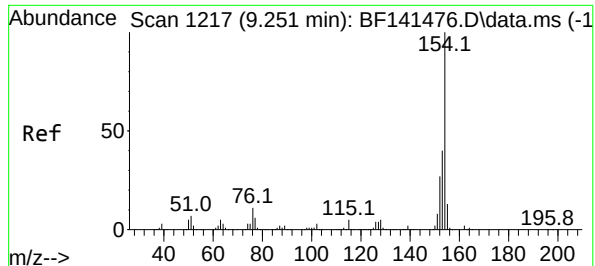
Tgt Ion:196 Resp: 298856
Ion Ratio Lower Upper
196 100
198 101.4 79.8 119.8
97 57.9 44.8 67.2
132 31.0 23.9 35.9



#45
2-Fluorobiphenyl
Concen: 148.066 ng
RT: 9.151 min Scan# 1200
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:172 Resp: 1789795
Ion Ratio Lower Upper
172 100
171 35.8 28.7 43.1
170 23.7 18.9 28.3





#46

1,1'-Biphenyl

Concen: 76.237 ng

RT: 9.257 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

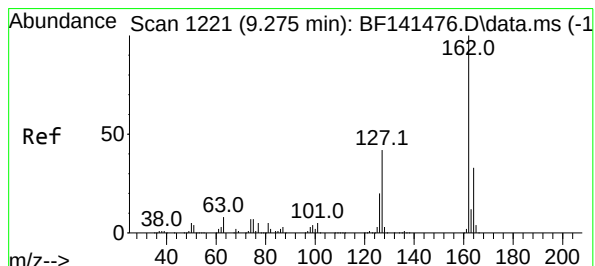
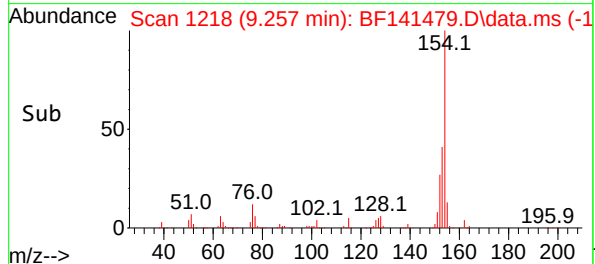
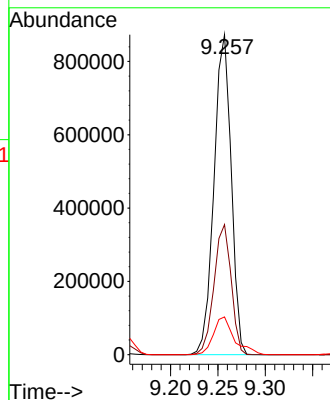
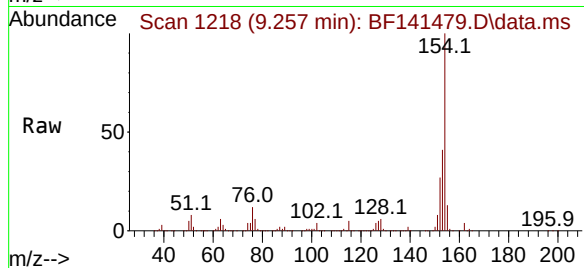
Tgt Ion:154 Resp: 1100720

Ion Ratio Lower Upper

154 100

153 40.7 20.4 60.4

76 11.8 0.0 30.8



#47

2-Chloronaphthalene

Concen: 76.929 ng

RT: 9.280 min Scan# 1222

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

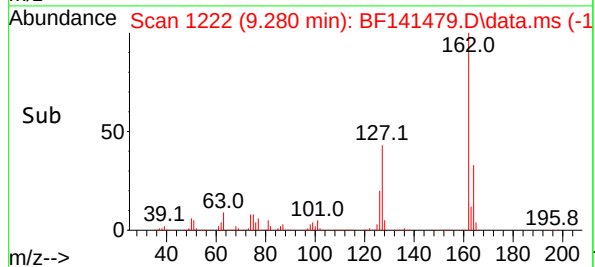
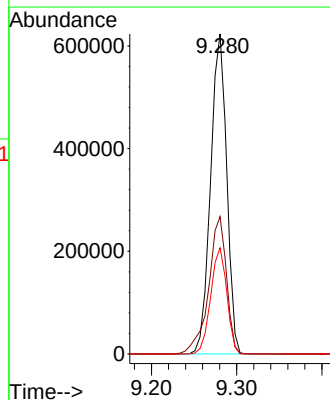
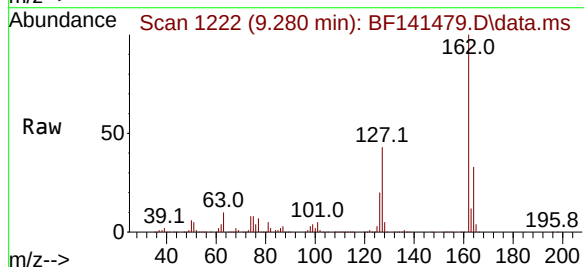
Tgt Ion:162 Resp: 821334

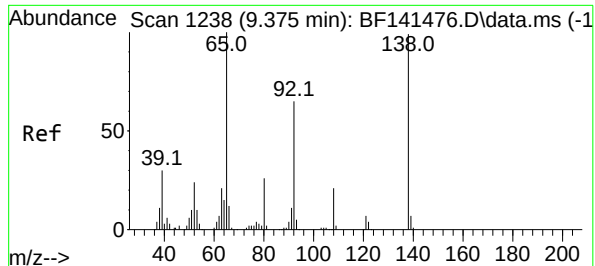
Ion Ratio Lower Upper

162 100

127 43.0 34.1 51.1

164 33.2 26.3 39.5





#48

2-Nitroaniline

Concen: 79.969 ng

RT: 9.380 min Scan# 1238

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

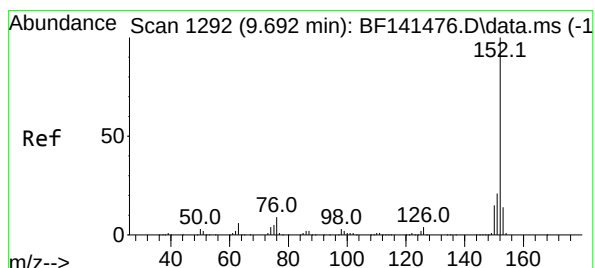
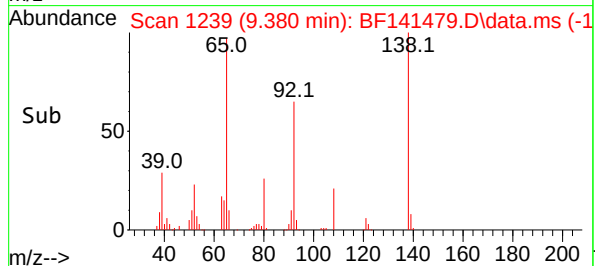
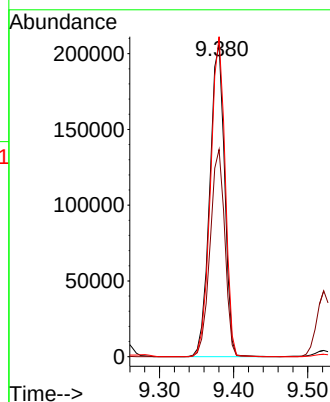
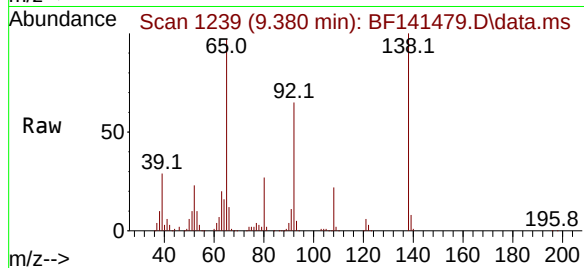
Tgt Ion: 65 Resp: 286532

Ion Ratio Lower Upper

65 100

92 66.4 52.2 78.2

138 102.6 79.5 119.3



#49

Acenaphthylene

Concen: 76.291 ng

RT: 9.692 min Scan# 1292

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

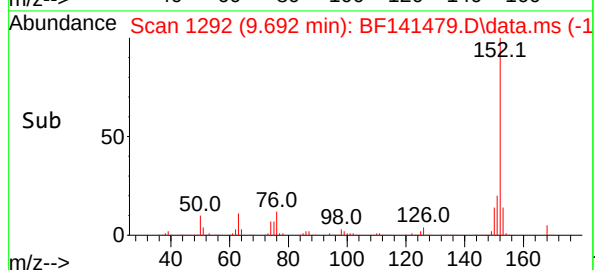
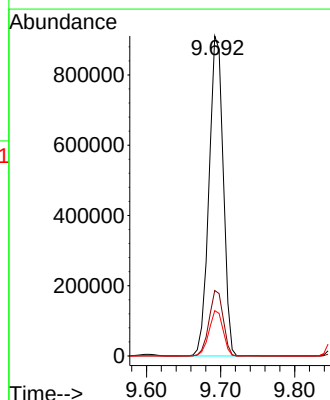
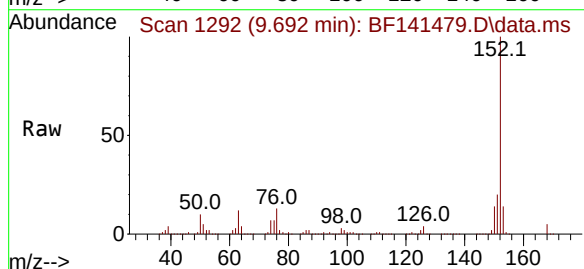
Tgt Ion: 152 Resp: 1211515

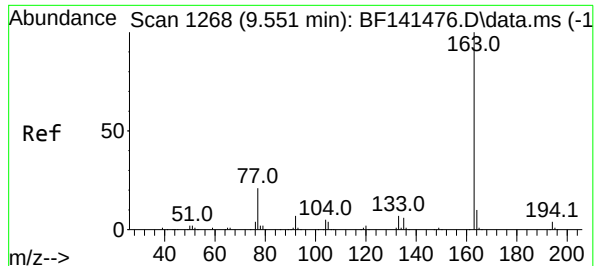
Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

153 14.1 10.9 16.3





#50

Dimethylphthalate

Concen: 79.265 ng

RT: 9.563 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

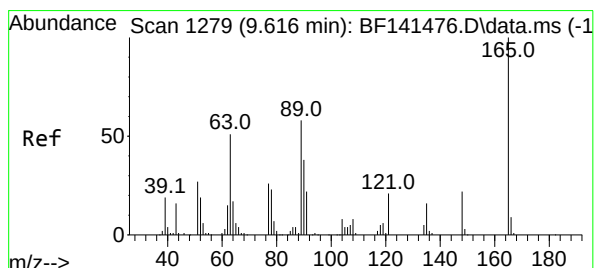
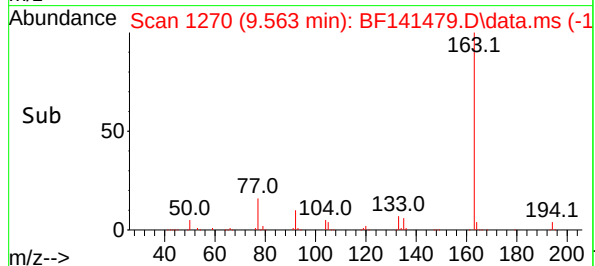
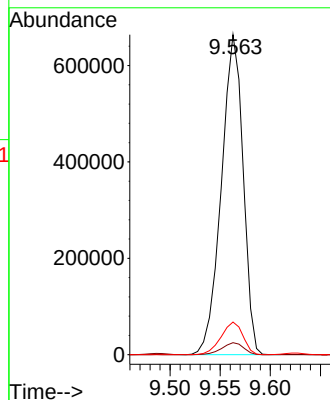
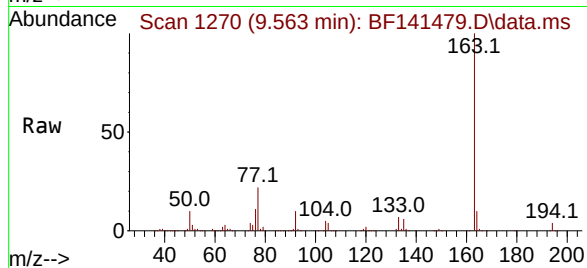
Tgt Ion:163 Resp: 1002121

Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

164 10.2 7.9 11.9



#51

2,6-Dinitrotoluene

Concen: 78.101 ng

RT: 9.622 min Scan# 1280

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

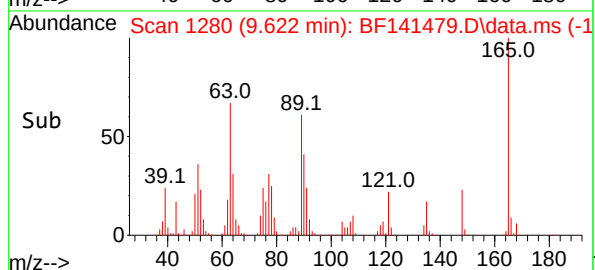
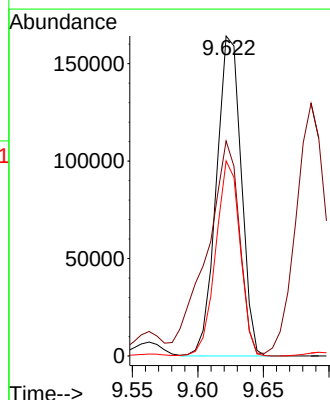
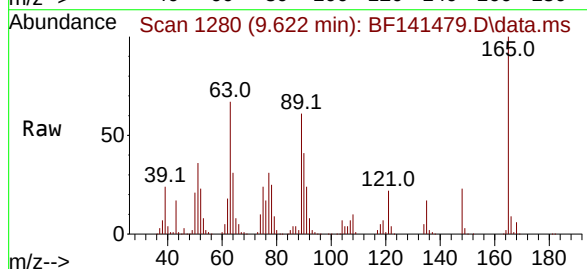
Tgt Ion:165 Resp: 215853

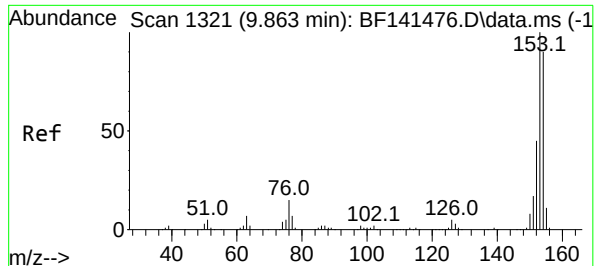
Ion Ratio Lower Upper

165 100

63 67.2 49.4 74.0

89 60.9 46.5 69.7

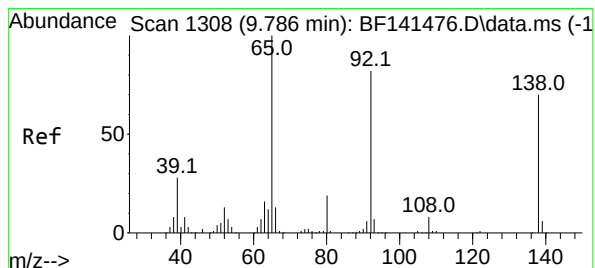
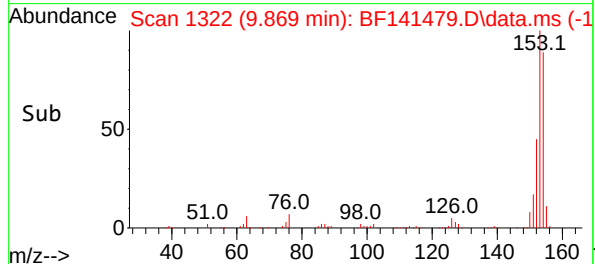
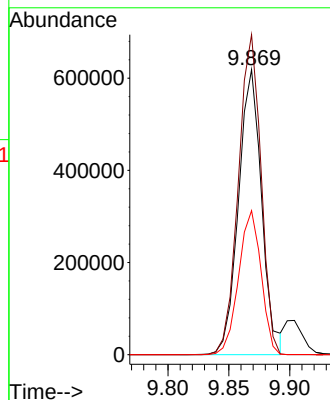
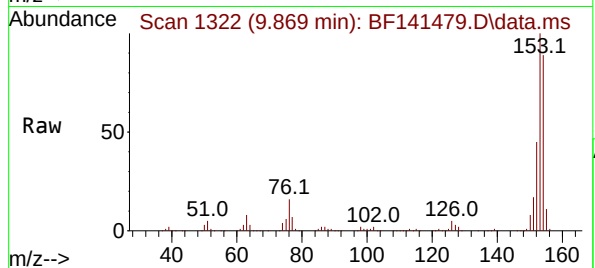




#52
Acenaphthene
Concen: 76.791 ng
RT: 9.869 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

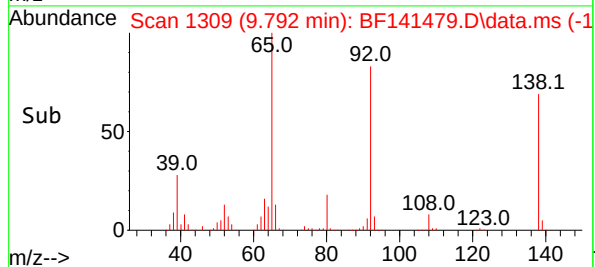
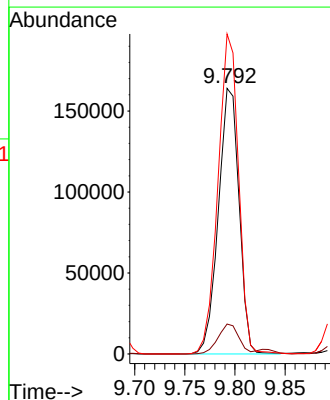
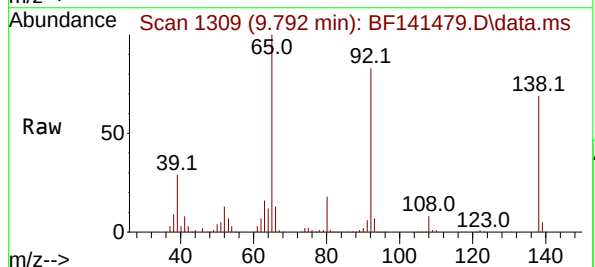
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

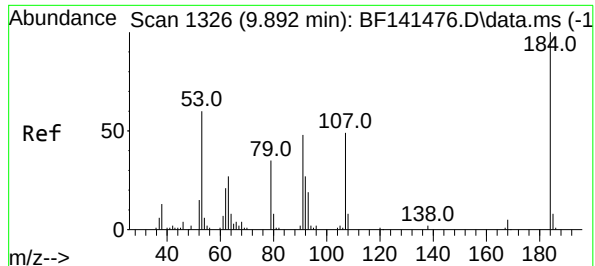
Tgt Ion:154 Resp: 819818
Ion Ratio Lower Upper
154 100
153 112.2 89.2 133.8
152 50.5 39.8 59.8



#53
3-Nitroaniline
Concen: 79.173 ng
RT: 9.792 min Scan# 1309
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:138 Resp: 235511
Ion Ratio Lower Upper
138 100
108 11.3 9.0 13.4
92 120.4 93.7 140.5

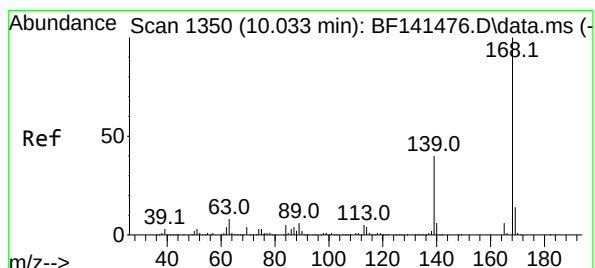
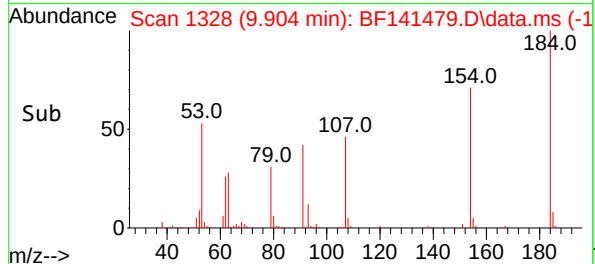
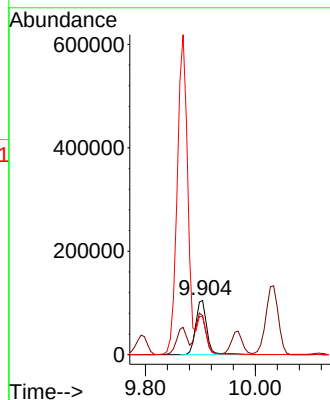
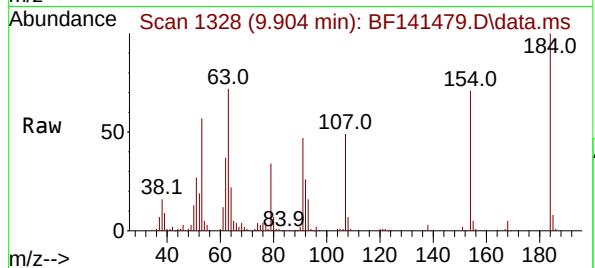




#54
2,4-Dinitrophenol
Concen: 89.960 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

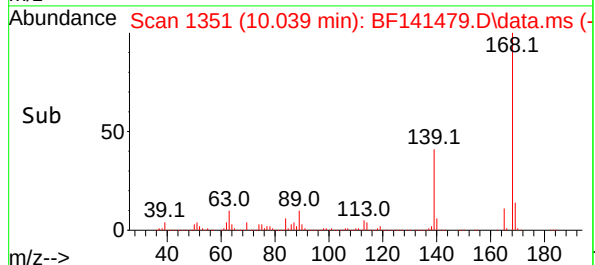
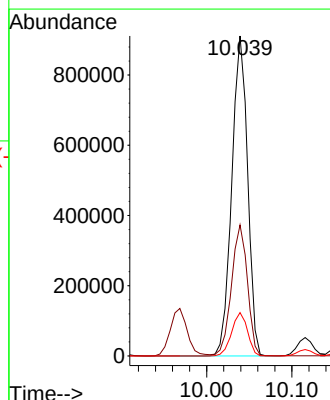
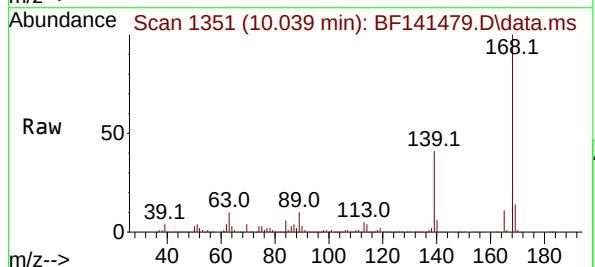
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

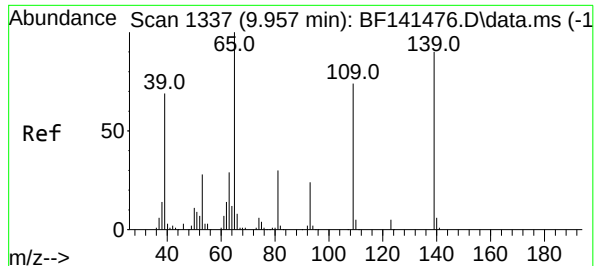
Tgt Ion:184 Resp: 147768
Ion Ratio Lower Upper
184 100
63 72.1 61.0 91.6
154 70.8 59.9 89.9



#55
Dibenzofuran
Concen: 74.928 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:168 Resp: 1174157
Ion Ratio Lower Upper
168 100
139 40.9 32.7 49.1
169 13.6 10.8 16.2





#56

4-Nitrophenol

Concen: 84.744 ng

RT: 9.969 min Scan# 1339

Delta R.T. -0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

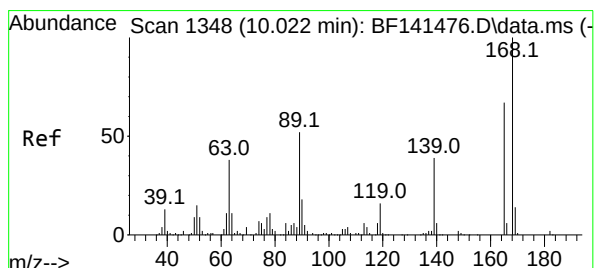
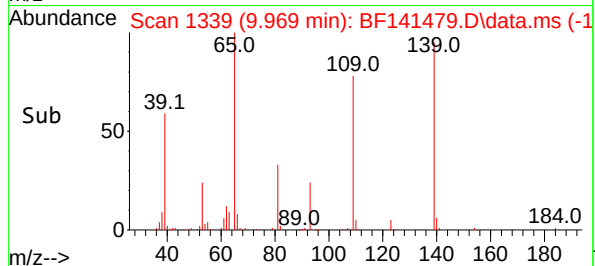
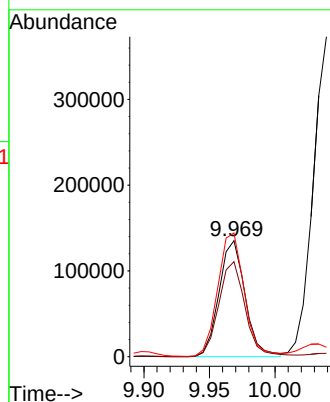
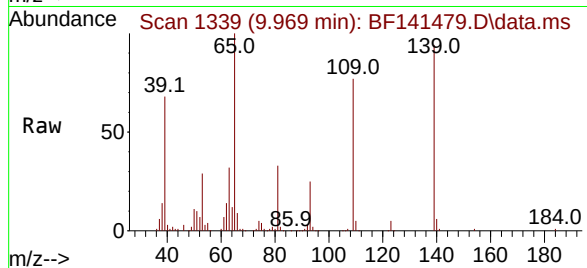
Tgt Ion:139 Resp: 187131

Ion Ratio Lower Upper

139 100

109 81.9 62.0 102.0

65 106.7 91.2 131.2



#57

2,4-Dinitrotoluene

Concen: 77.449 ng

RT: 10.027 min Scan# 1349

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Tgt Ion:165 Resp: 284954

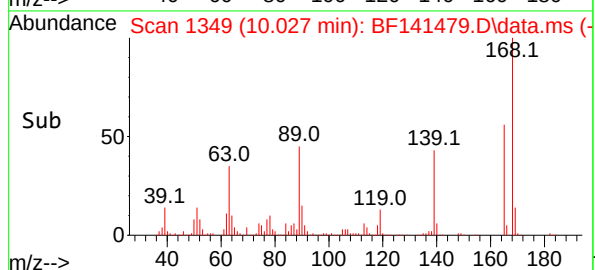
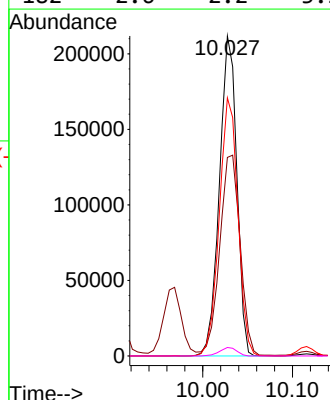
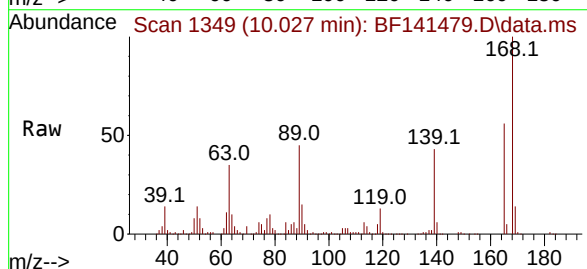
Ion Ratio Lower Upper

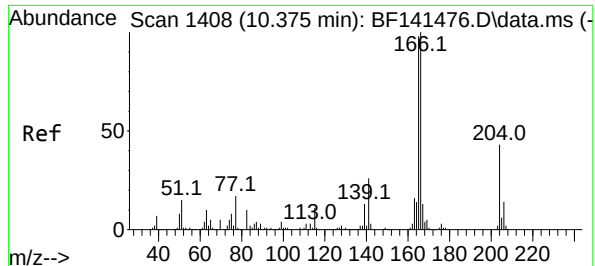
165 100

63 62.1 46.4 69.6

89 80.7 61.8 92.6

182 2.6 2.2 3.2

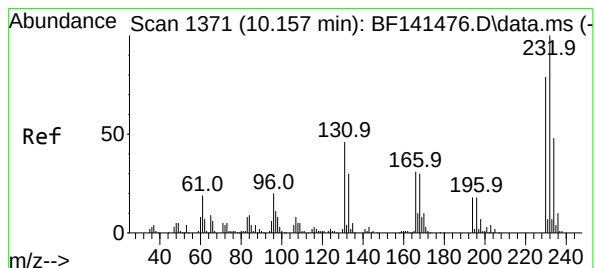
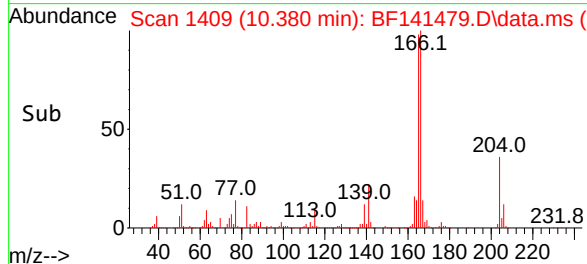
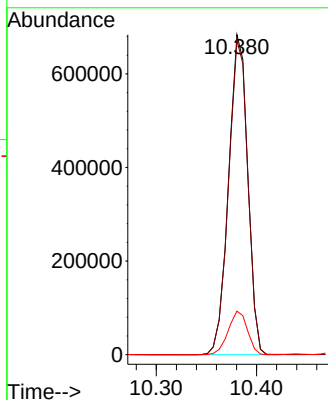
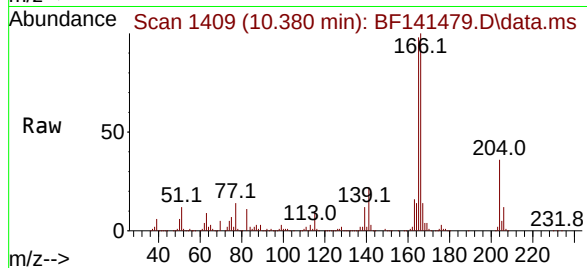




#58
Fluorene
Concen: 75.080 ng
RT: 10.380 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

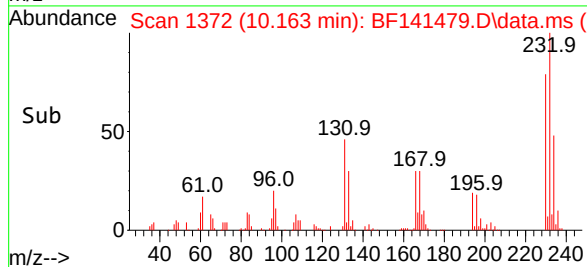
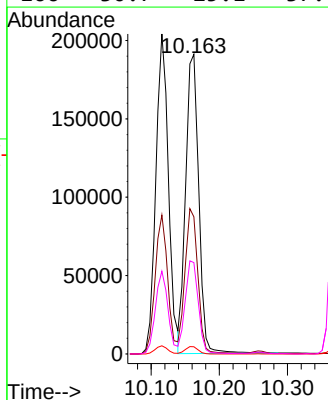
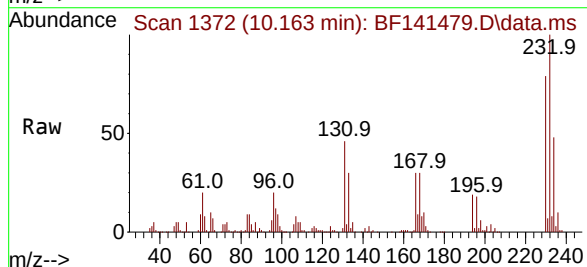
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

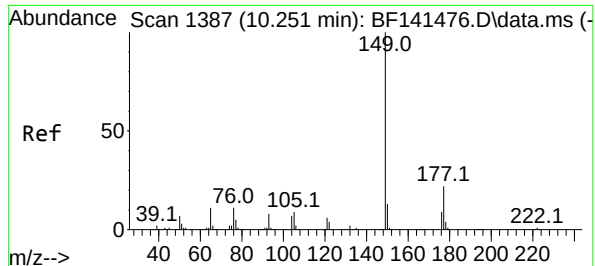
Tgt Ion:166 Resp: 909704
Ion Ratio Lower Upper
166 100
165 98.3 78.2 117.2
167 13.6 10.7 16.1



#59
2,3,4,6-Tetrachlorophenol
Concen: 78.006 ng
RT: 10.163 min Scan# 1372
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:232 Resp: 253454
Ion Ratio Lower Upper
232 100
131 47.1 39.2 58.8
130 2.4 2.1 3.1
166 30.7 25.1 37.7





#60

Diethylphthalate

Concen: 75.995 ng

RT: 10.257 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

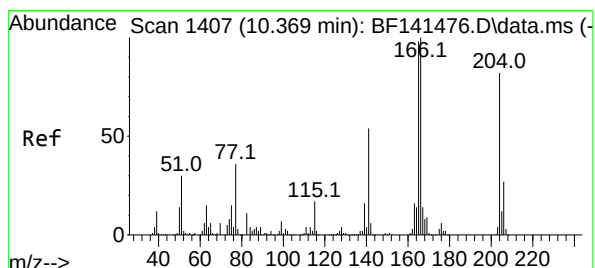
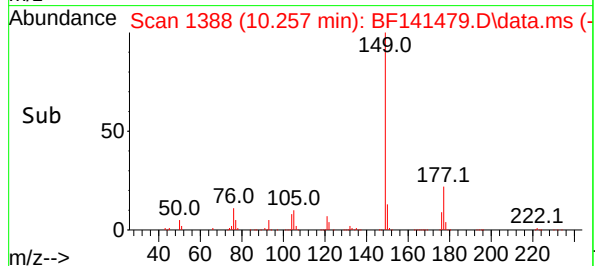
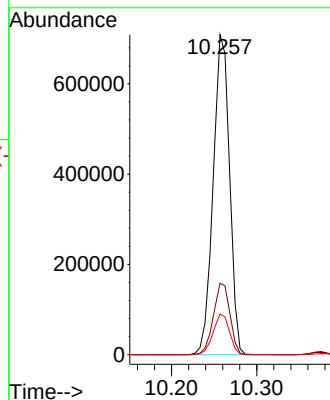
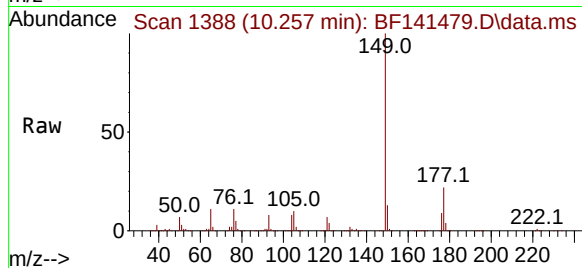
Tgt Ion:149 Resp: 945293

Ion Ratio Lower Upper

149 100

177 22.4 17.8 26.6

150 12.7 10.1 15.1



#61

4-Chlorophenyl-phenylether

Concen: 74.716 ng

RT: 10.374 min Scan# 1408

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

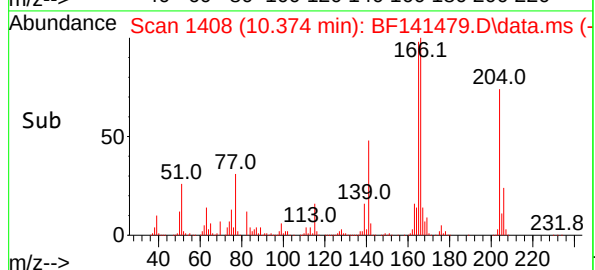
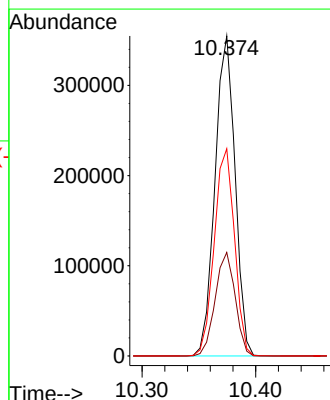
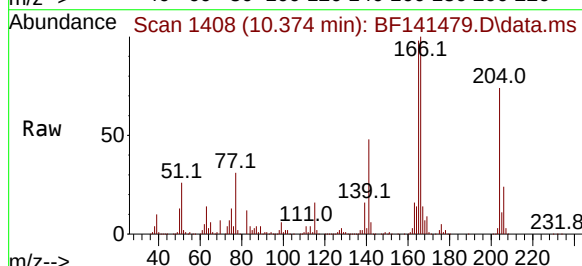
Tgt Ion:204 Resp: 435522

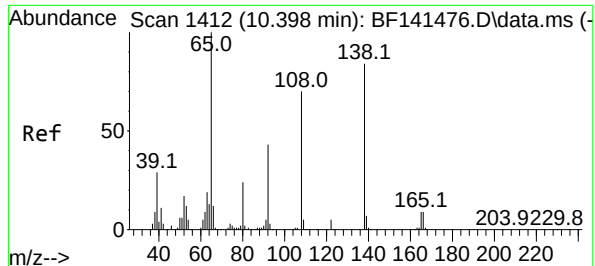
Ion Ratio Lower Upper

204 100

206 32.4 26.6 40.0

141 64.8 51.9 77.9

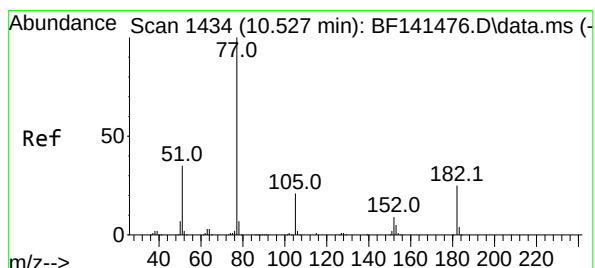
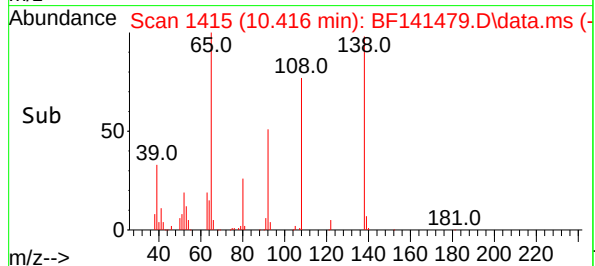
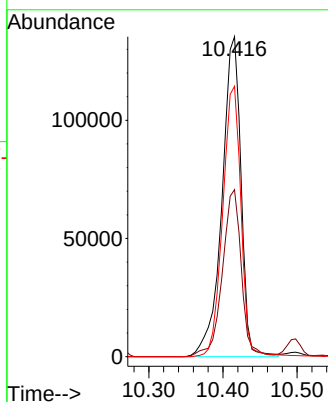
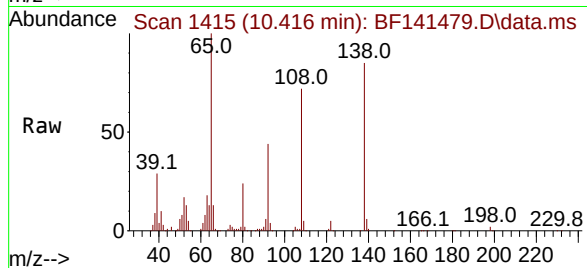




#62
4-Nitroaniline
Concen: 79.873 ng
RT: 10.416 min Scan# 1415
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

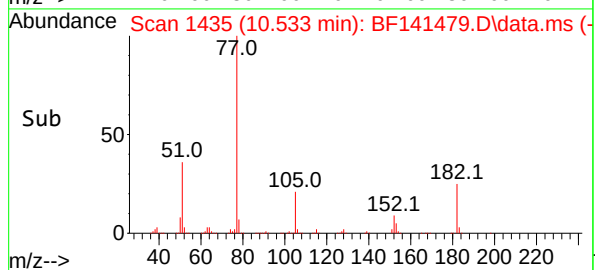
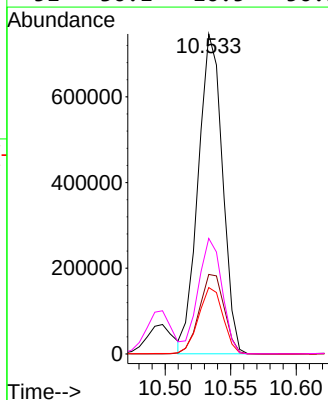
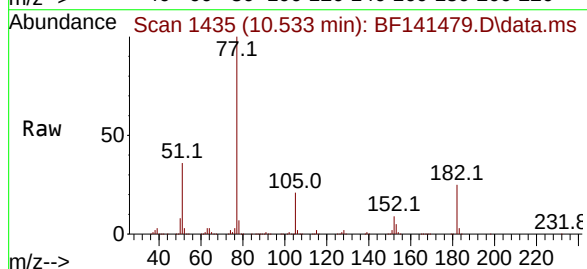
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

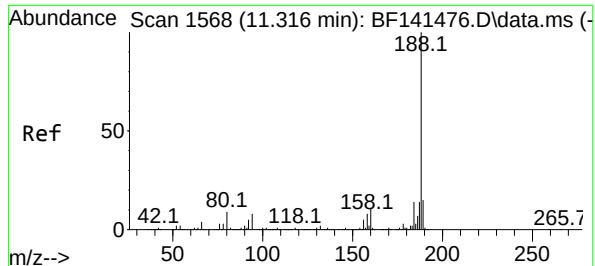
Tgt Ion:138 Resp: 241257
Ion Ratio Lower Upper
138 100
92 52.2 31.3 71.3
108 84.5 63.7 103.7



#63
Azobenzene
Concen: 77.931 ng
RT: 10.533 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 77 Resp: 963689
Ion Ratio Lower Upper
77 100
182 24.9 4.7 44.7
105 20.8 0.4 40.4
51 36.1 16.5 56.5

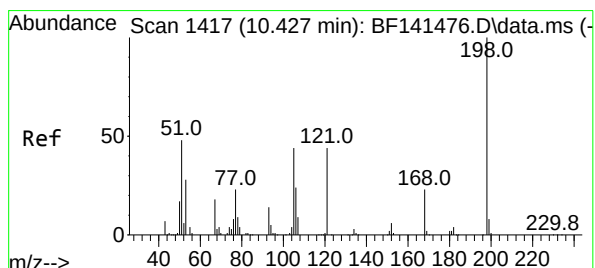
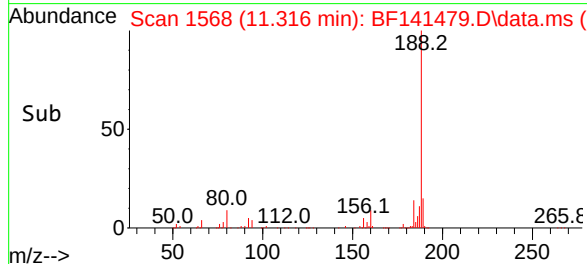
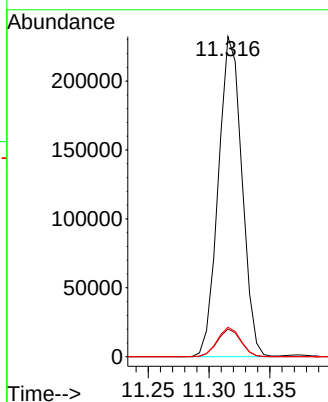
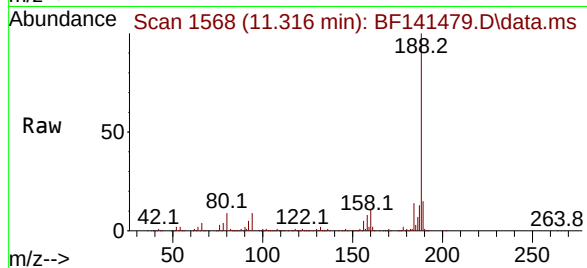




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

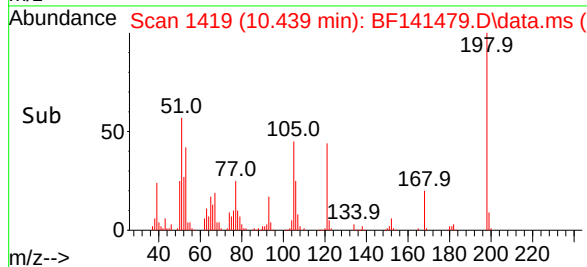
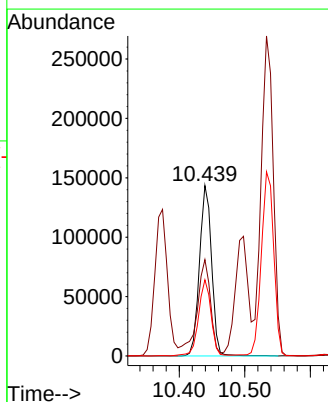
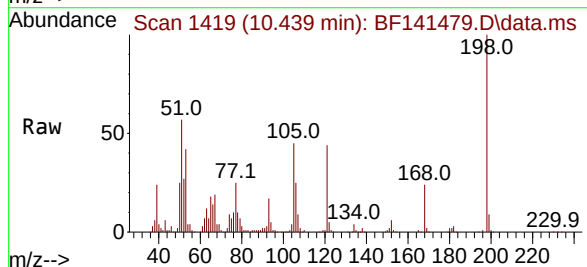
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

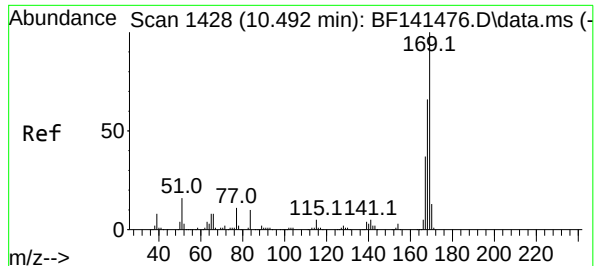
Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.2	7.3	10.9



#65
4,6-Dinitro-2-methylphenol
Concen: 85.309 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion	Ratio	Lower	Upper
198	100		
51	56.6	37.4	77.4
105	44.7	25.2	65.2





#66

n-Nitrosodiphenylamine

Concen: 78.404 ng

RT: 10.498 min Scan# 1428

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

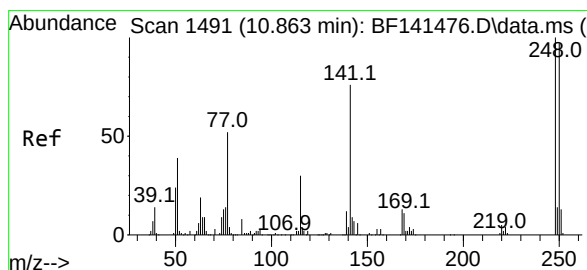
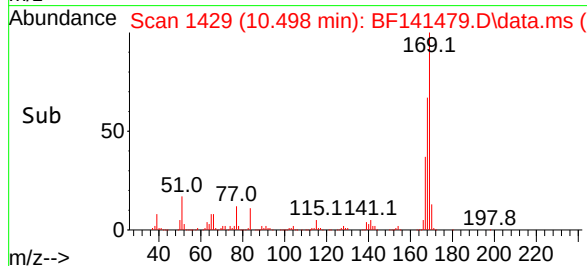
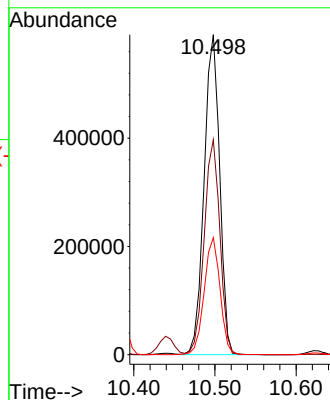
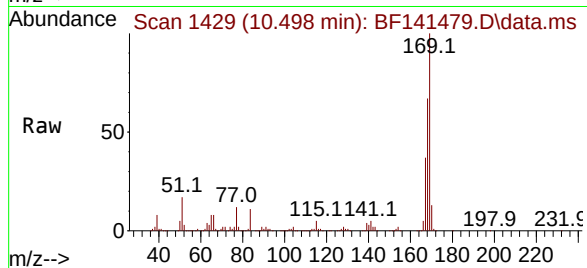
Tgt Ion:169 Resp: 785313

Ion Ratio Lower Upper

169 100

168 67.2 53.3 79.9

167 36.6 29.4 44.2



#67

4-Bromophenyl-phenylether

Concen: 78.988 ng

RT: 10.863 min Scan# 1491

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

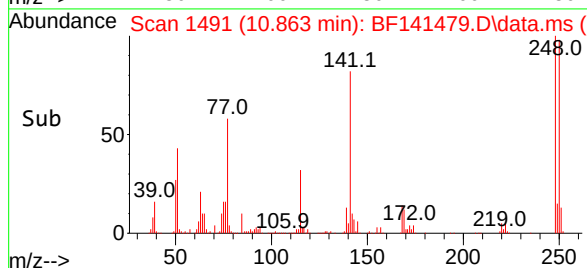
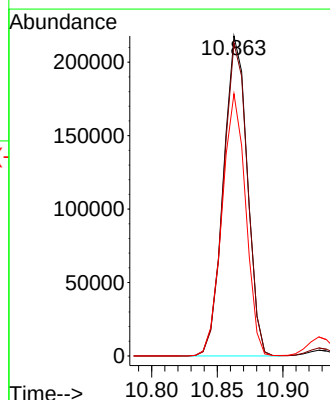
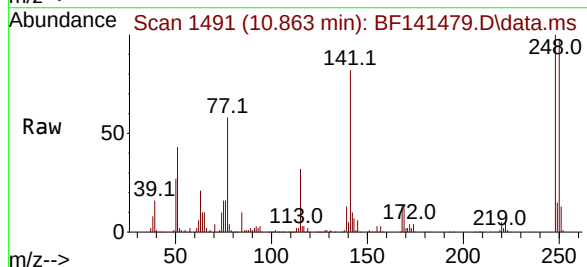
Tgt Ion:248 Resp: 276228

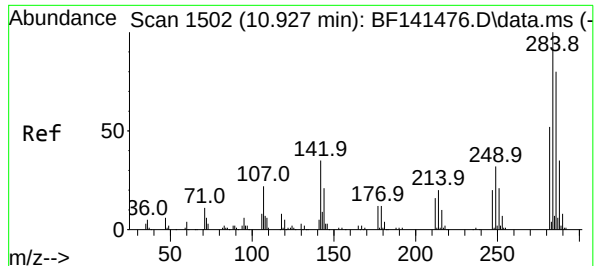
Ion Ratio Lower Upper

248 100

250 97.8 77.8 116.6

141 81.9 60.6 90.8

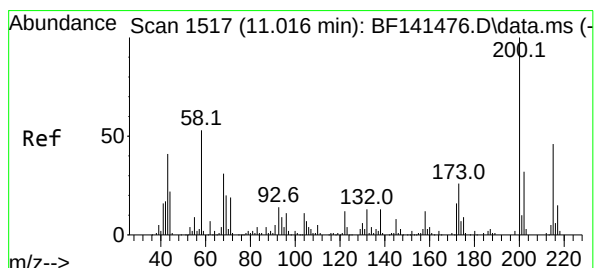
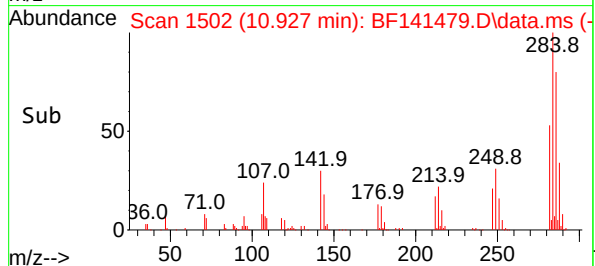
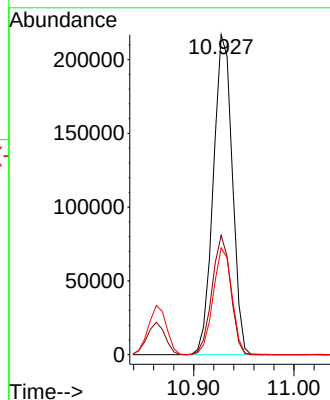
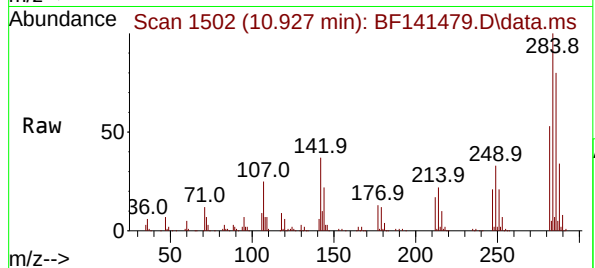




#68
Hexachlorobenzene
Concen: 79.174 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

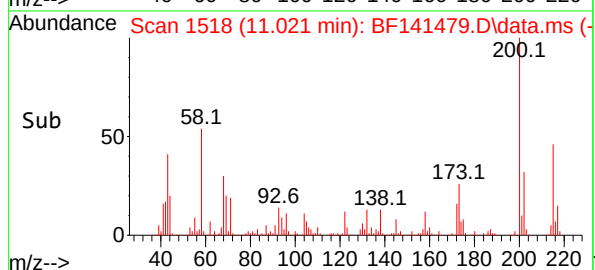
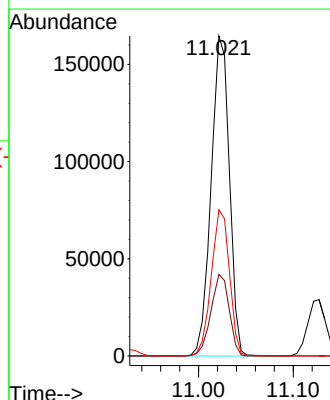
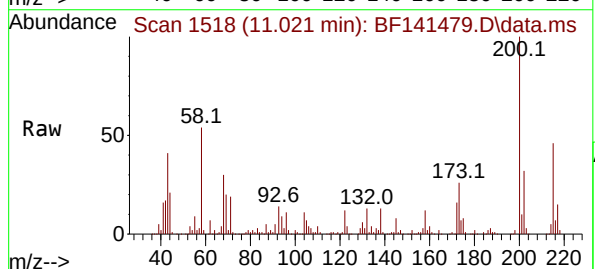
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

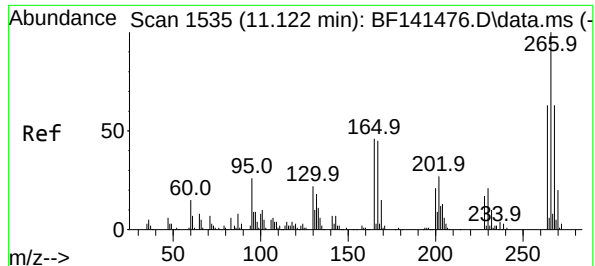
Tgt Ion:284 Resp: 285111
Ion Ratio Lower Upper
284 100
142 37.3 28.0 42.0
249 33.4 25.8 38.8



#69
Atrazine
Concen: 73.188 ng
RT: 11.021 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:200 Resp: 219923
Ion Ratio Lower Upper
200 100
173 25.5 5.9 45.9
215 45.7 25.9 65.9





#70

Pentachlorophenol

Concen: 87.100 ng

RT: 11.127 min Scan# 1535

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

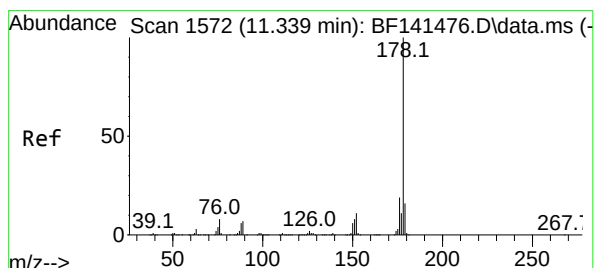
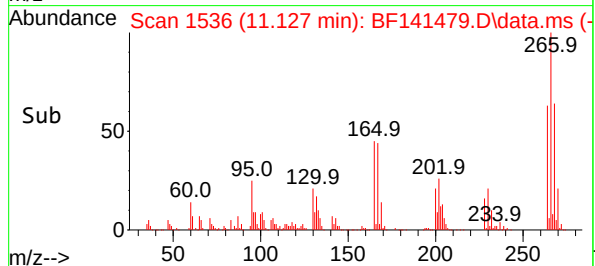
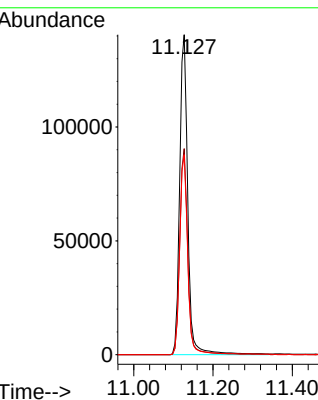
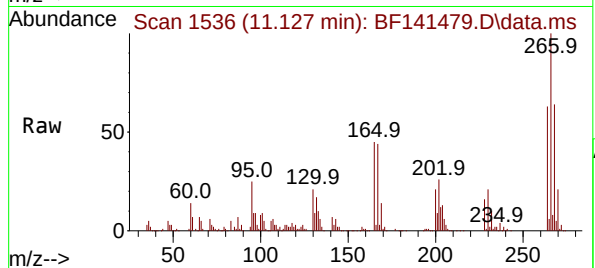
Tgt Ion:266 Resp: 200556

Ion Ratio Lower Upper

266 100

268 64.4 50.1 75.1

264 62.5 50.1 75.1



#71

Phenanthrene

Concen: 76.201 ng

RT: 11.345 min Scan# 1573

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

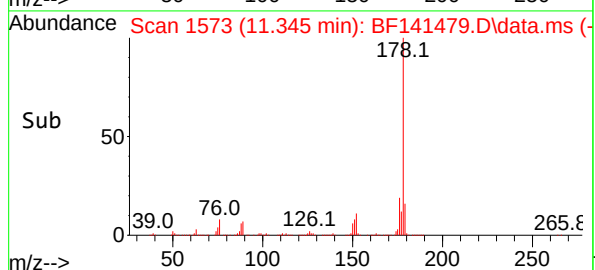
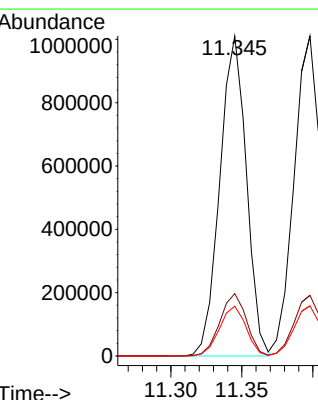
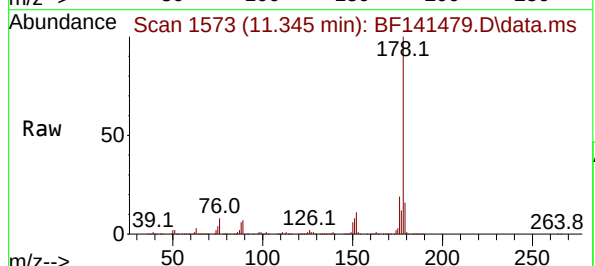
Tgt Ion:178 Resp: 1312474

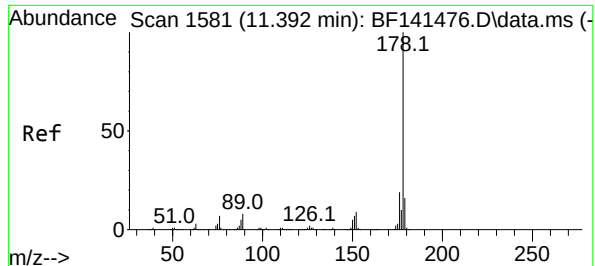
Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.0

179 15.6 12.4 18.6

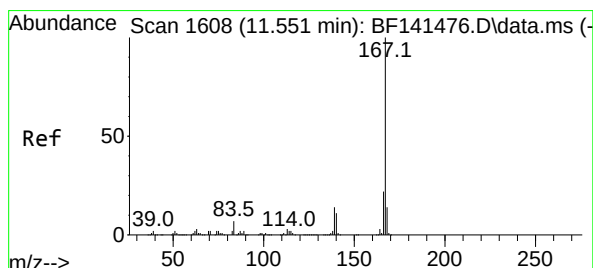
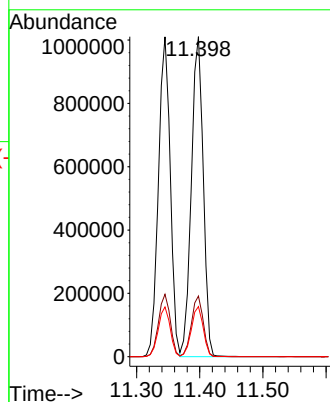
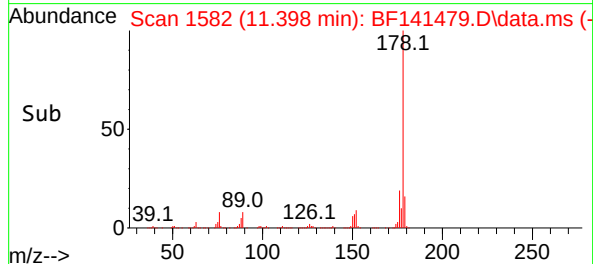
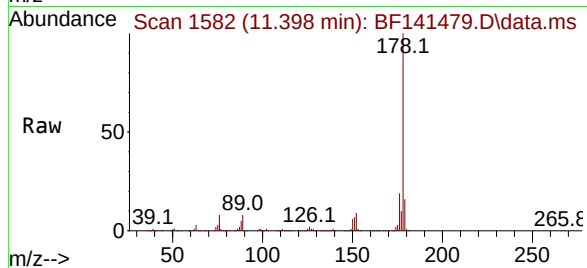




#72
Anthracene
Concen: 76.380 ng
RT: 11.398 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

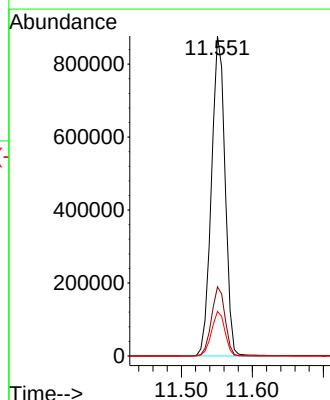
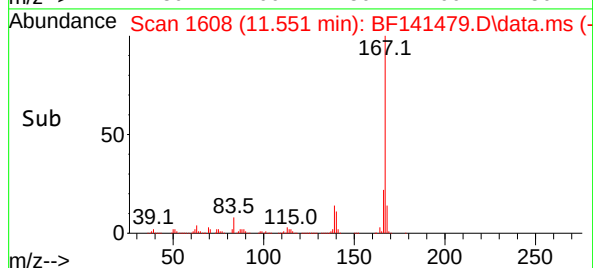
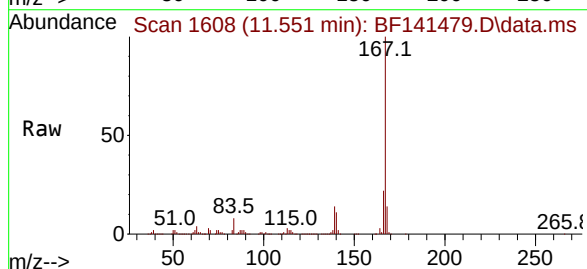
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

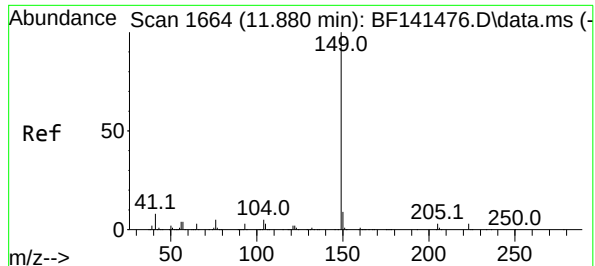
Tgt Ion:178 Resp: 1322462
Ion Ratio Lower Upper
178 100
176 19.0 14.8 22.2
179 15.6 12.4 18.6



#73
Carbazole
Concen: 74.989 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:167 Resp: 1168253
Ion Ratio Lower Upper
167 100
166 21.6 17.4 26.2
139 13.9 10.9 16.3

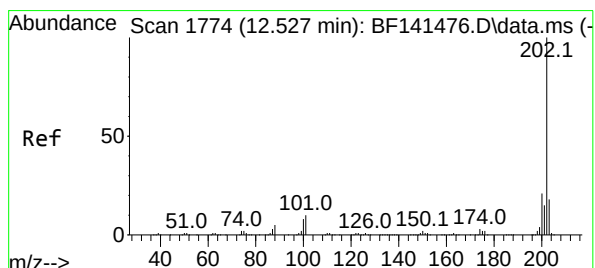
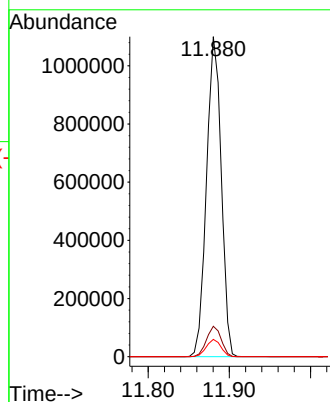
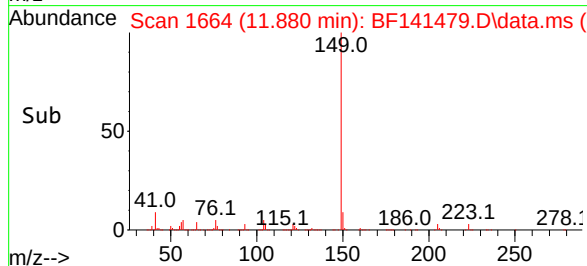
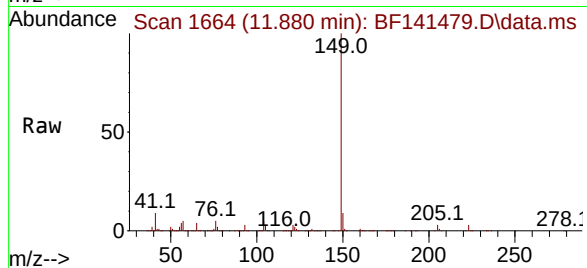




#74
Di-n-butylphthalate
Concen: 76.865 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

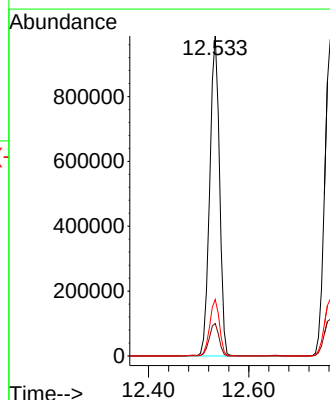
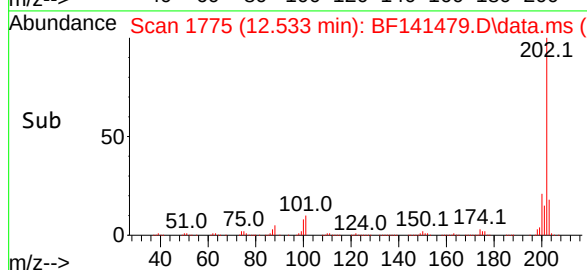
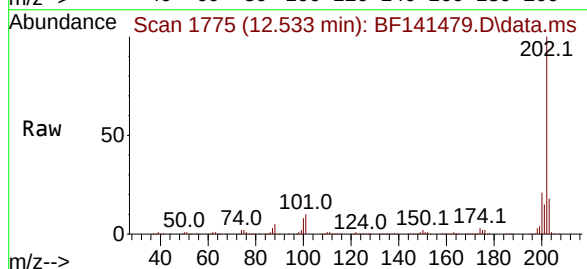
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

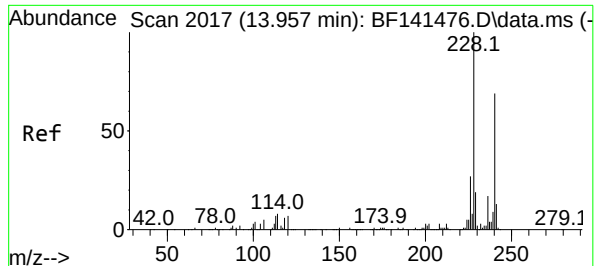
Tgt Ion:149 Resp: 1382706
Ion Ratio Lower Upper
149 100
150 9.5 7.4 11.0
104 5.4 4.2 6.2



#75
Fluoranthene
Concen: 73.011 ng
RT: 12.533 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:202 Resp: 1333237
Ion Ratio Lower Upper
202 100
101 10.2 0.0 30.2
203 17.6 0.0 37.6

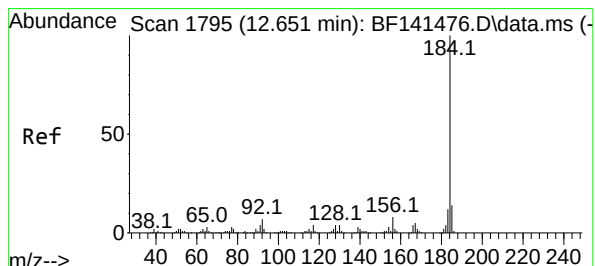
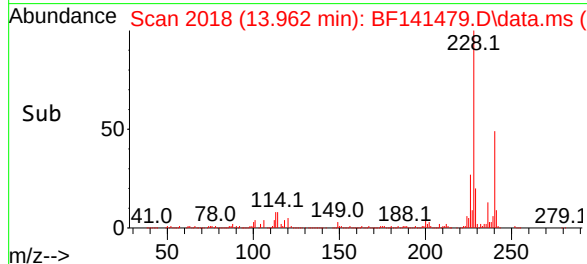
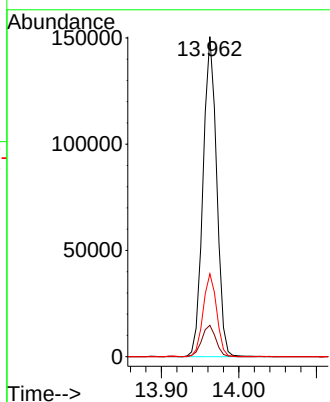
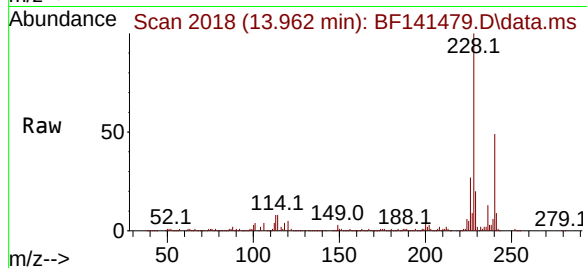




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

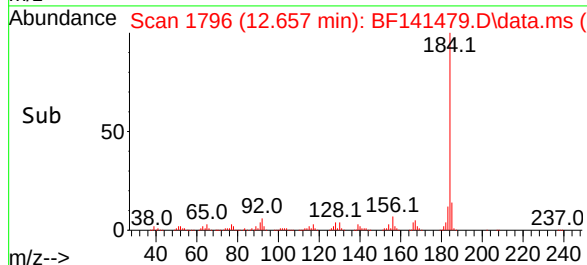
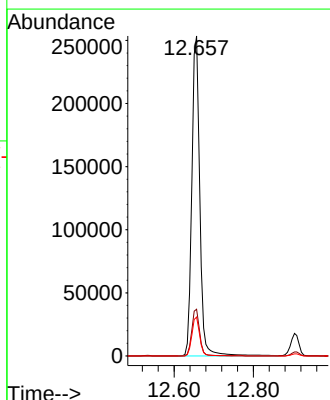
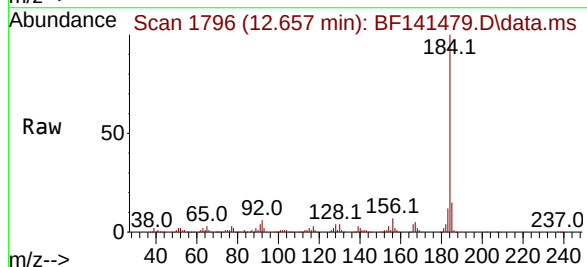
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

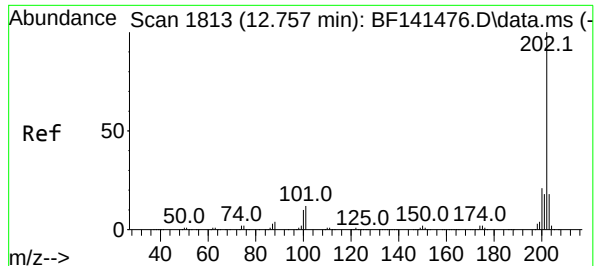
Tgt Ion:240 Resp: 184347
Ion Ratio Lower Upper
240 100
120 9.8 8.0 12.0
236 25.9 19.8 29.8



#77
Benzidine
Concen: 87.207 ng
RT: 12.657 min Scan# 1796
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:184 Resp: 354555
Ion Ratio Lower Upper
184 100
185 14.6 11.3 16.9
183 12.1 9.3 13.9

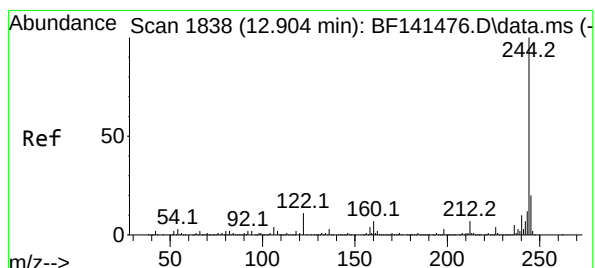
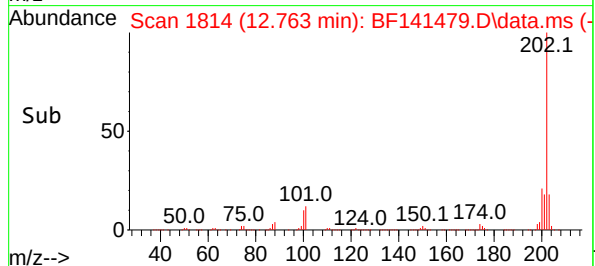
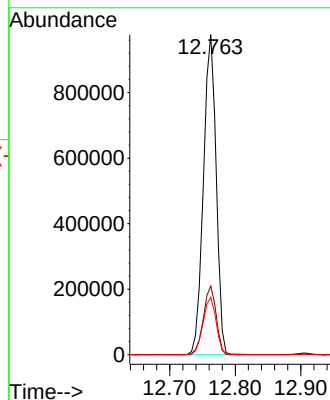
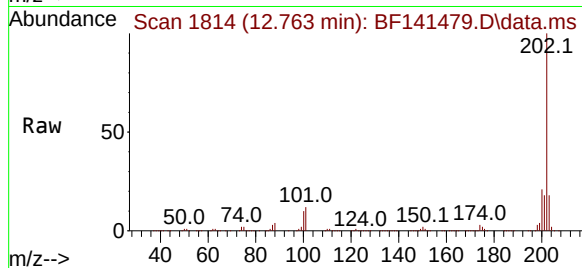




#78
Pyrene
Concen: 84.086 ng
RT: 12.763 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

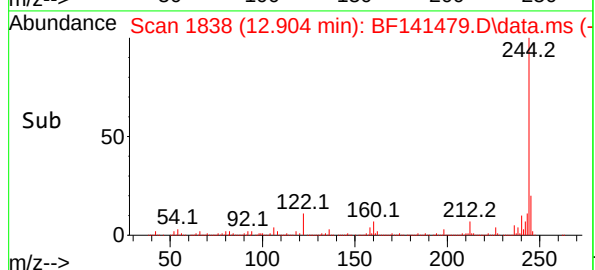
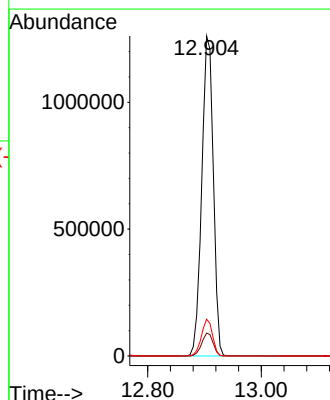
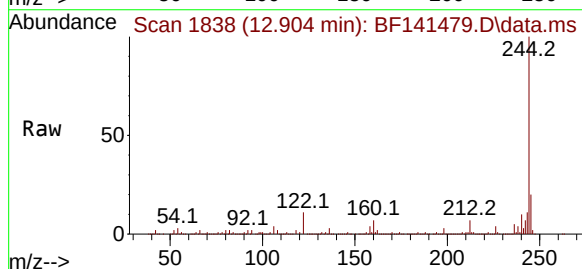
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

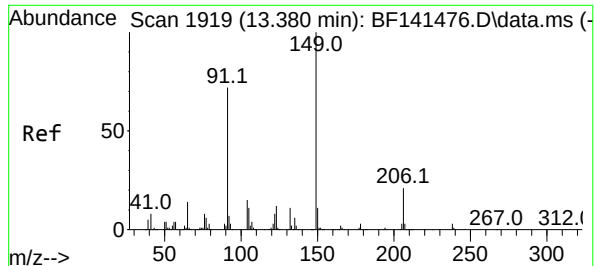
Tgt Ion:202 Resp: 1319554
Ion Ratio Lower Upper
202 100
200 21.4 17.0 25.4
203 17.9 14.3 21.5



#79
Terphenyl-d14
Concen: 163.152 ng
RT: 12.904 min Scan# 1838
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:244 Resp: 1781602
Ion Ratio Lower Upper
244 100
212 7.2 5.6 8.4
122 11.5 8.4 12.6





#80

Butylbenzylphthalate

Concen: 84.592 ng

RT: 13.380 min Scan# 1919

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

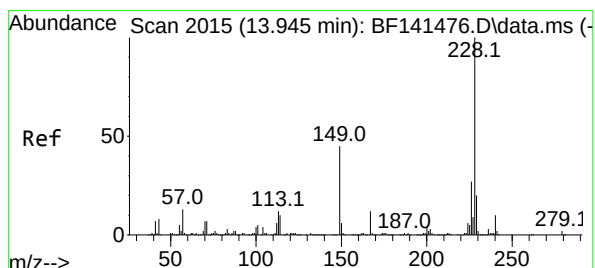
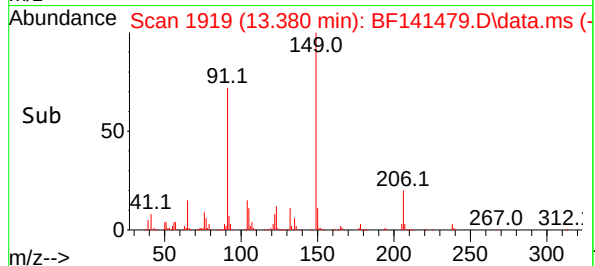
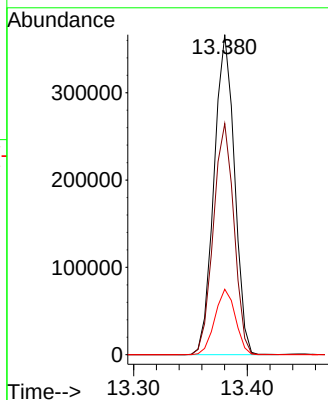
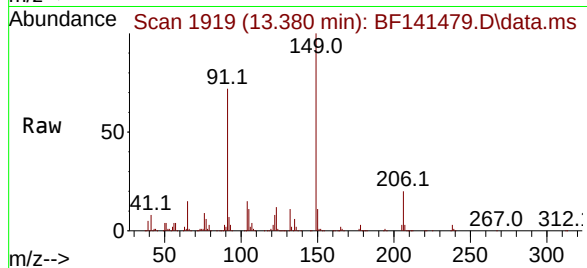
Tgt Ion:149 Resp: 459803

Ion Ratio Lower Upper

149 100

91 72.2 57.8 86.8

206 20.4 16.7 25.1



#81

Benzo(a)anthracene

Concen: 76.977 ng

RT: 13.951 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

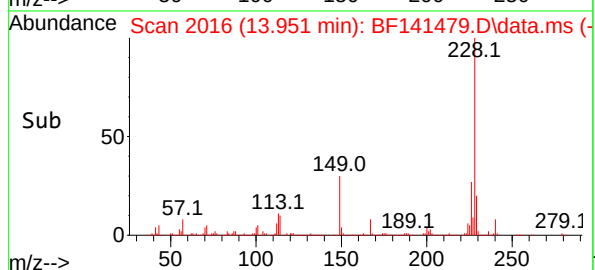
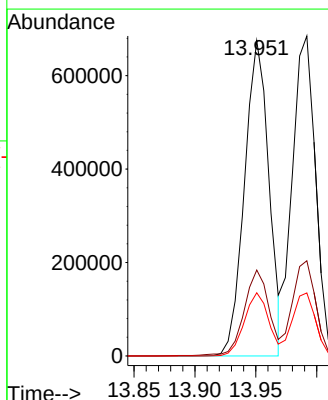
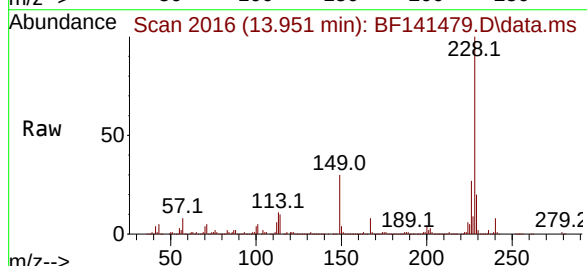
Tgt Ion:228 Resp: 943291

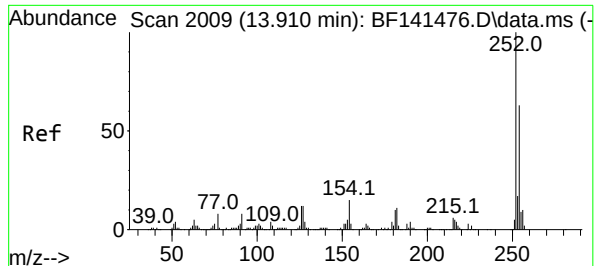
Ion Ratio Lower Upper

228 100

226 27.3 21.8 32.8

229 20.0 15.8 23.6





#82

3,3'-Dichlorobenzidine

Concen: 75.143 ng

RT: 13.915 min Scan# 2009

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

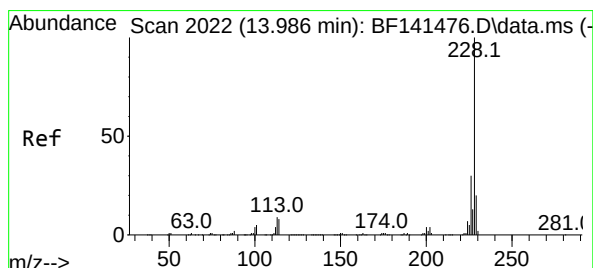
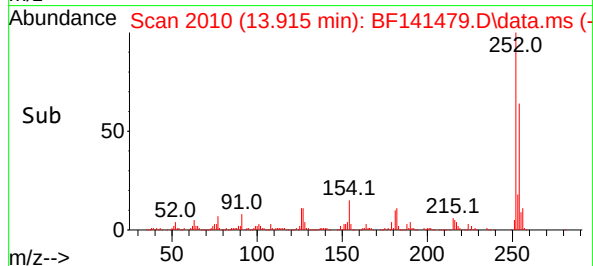
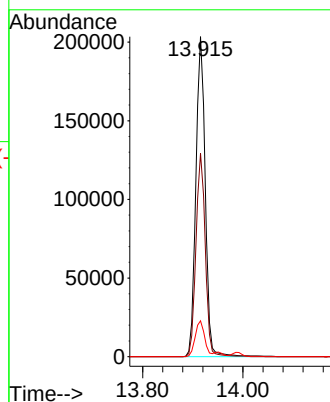
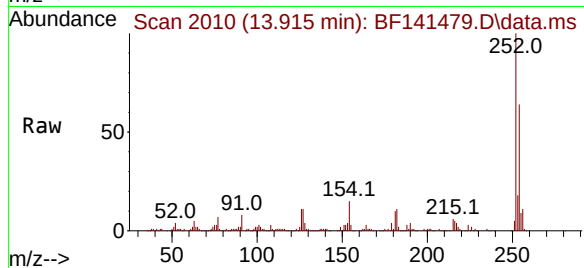
Tgt Ion:252 Resp: 263773

Ion Ratio Lower Upper

252 100

254 63.6 50.6 76.0

126 11.2 9.3 13.9



#83

Chrysene

Concen: 80.108 ng

RT: 13.992 min Scan# 2023

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

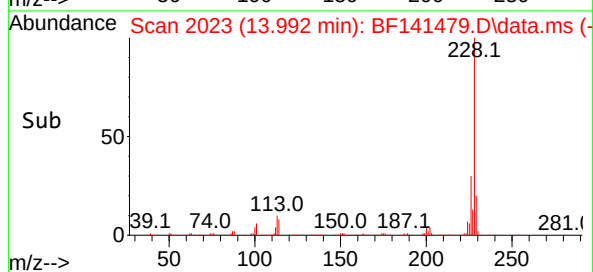
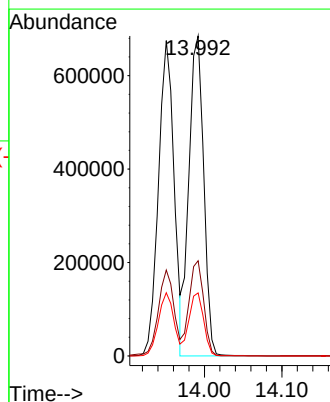
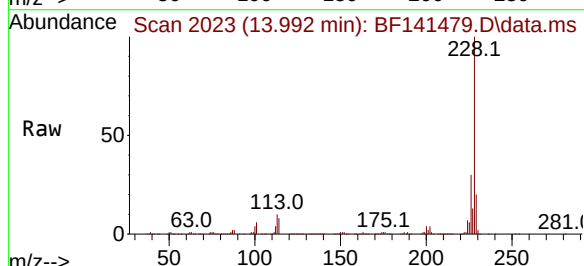
Tgt Ion:228 Resp: 906415

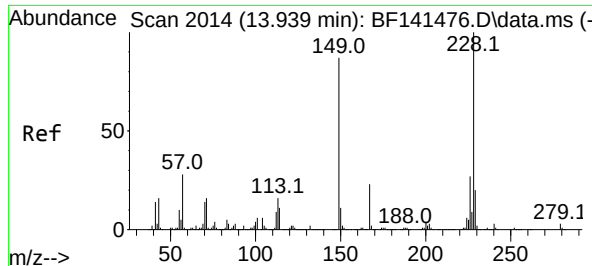
Ion Ratio Lower Upper

228 100

226 29.8 24.0 36.0

229 19.7 15.7 23.5

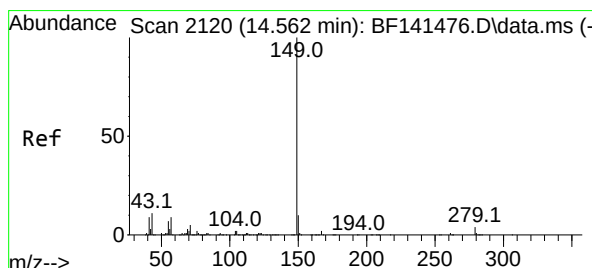
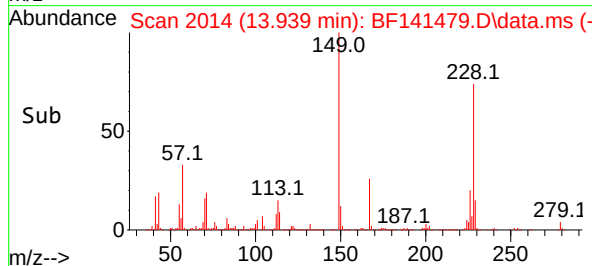
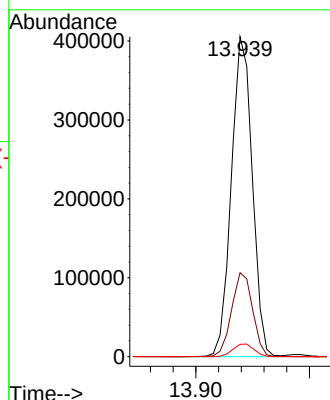
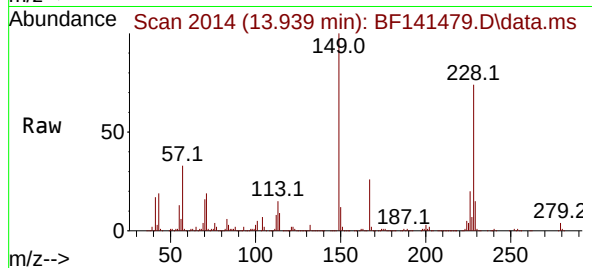




#84
Bis(2-ethylhexyl)phthalate
Concen: 84.477 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

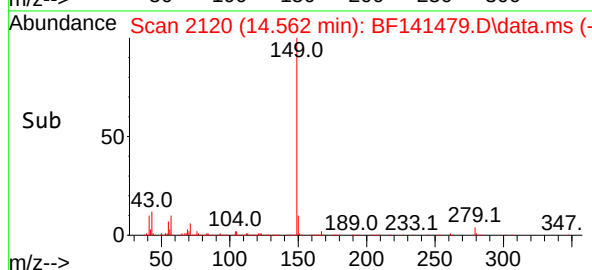
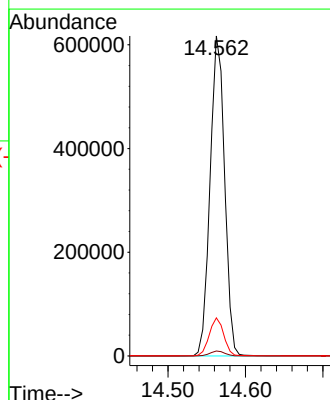
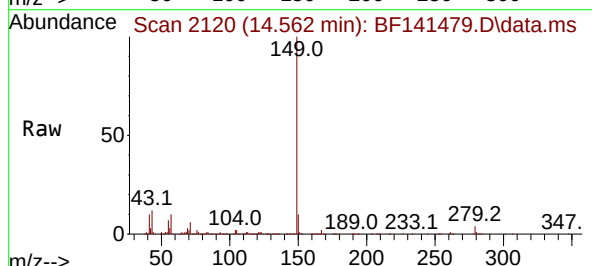
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

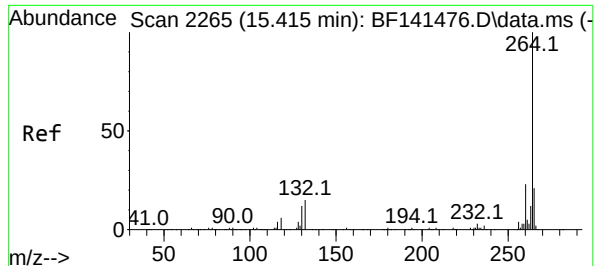
Tgt Ion:149 Resp: 517884
Ion Ratio Lower Upper
149 100
167 26.3 21.4 32.0
279 3.9 3.1 4.7



#85
Di-n-octyl phthalate
Concen: 91.886 ng
RT: 14.562 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

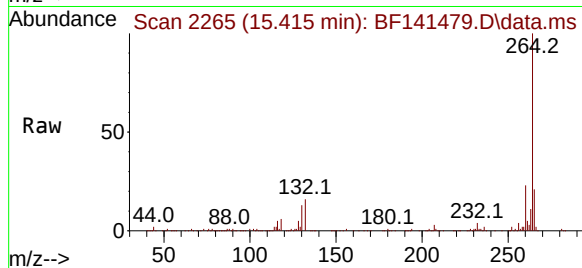
Tgt Ion:149 Resp: 803601
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 11.8 9.5 14.3



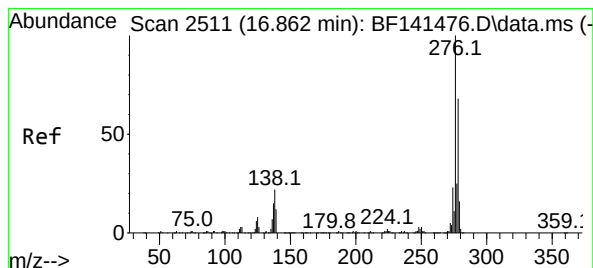
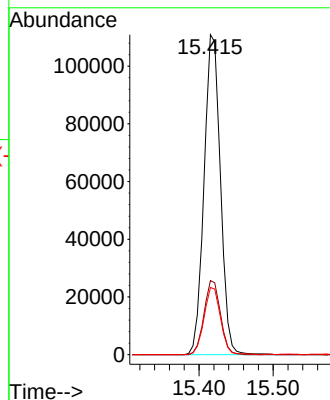
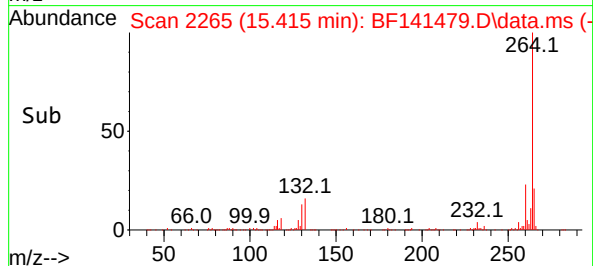


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

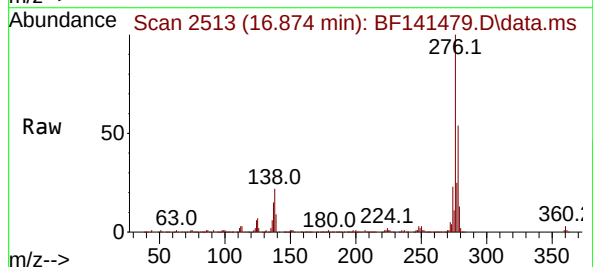
Instrument :
BNA_F
ClientSampleId :
SSTDICC080



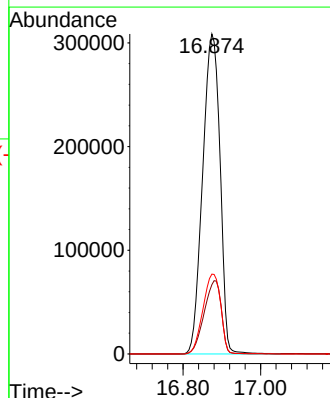
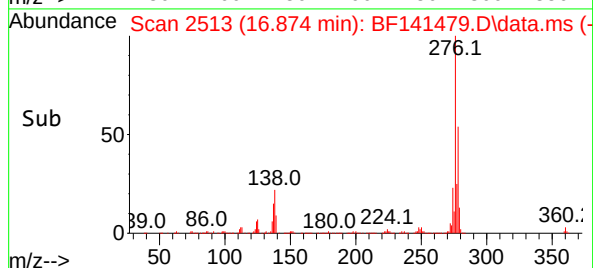
Tgt Ion:264 Resp: 170605
Ion Ratio Lower Upper
264 100
260 23.1 18.6 28.0
265 21.0 17.0 25.4

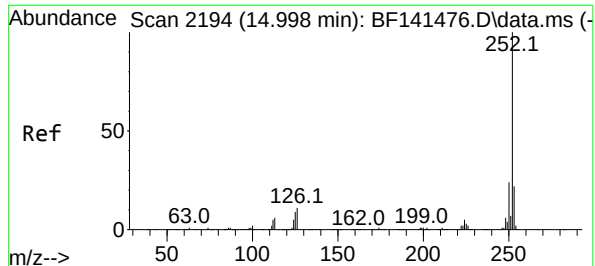


#87
Indeno(1,2,3-cd)pyrene
Concen: 91.166 ng
RT: 16.874 min Scan# 2513
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14



Tgt Ion:276 Resp: 961023
Ion Ratio Lower Upper
276 100
138 22.7 18.0 27.0
277 25.4 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 75.529 ng

RT: 15.004 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

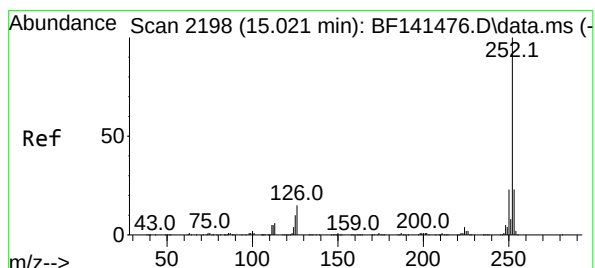
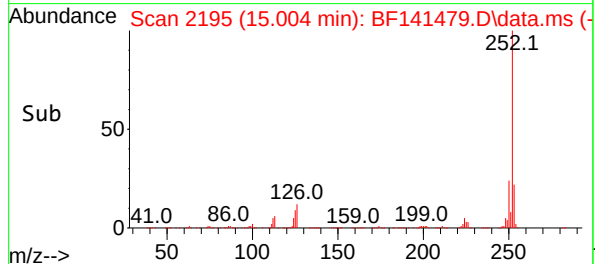
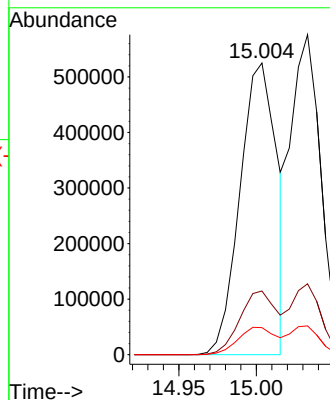
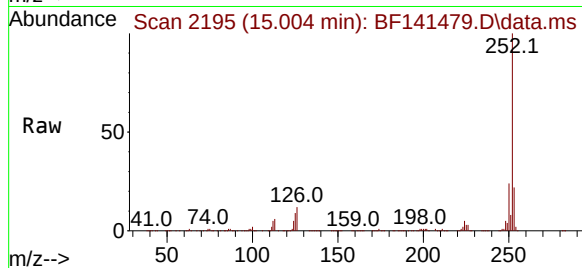
Tgt Ion:252 Resp: 865205

Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

125 9.3 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 79.364 ng

RT: 15.033 min Scan# 2200

Delta R.T. 0.000 min

Lab File: BF141479.D

Acq: 06 Feb 2025 14:14

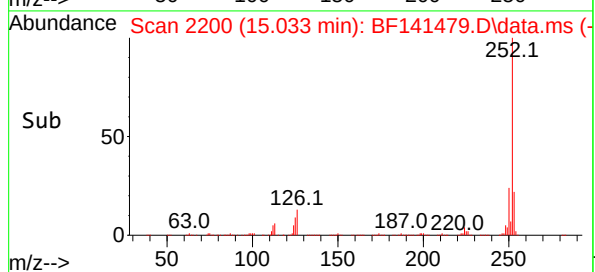
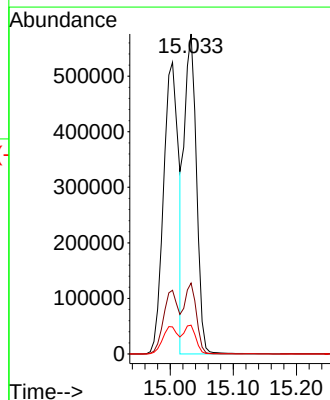
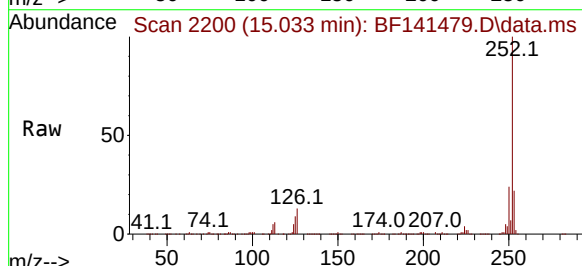
Tgt Ion:252 Resp: 776323

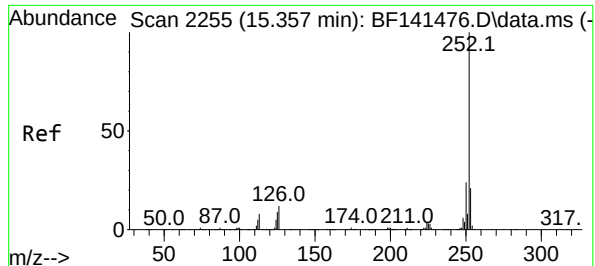
Ion Ratio Lower Upper

252 100

253 22.2 18.0 27.0

125 9.0 7.4 11.0

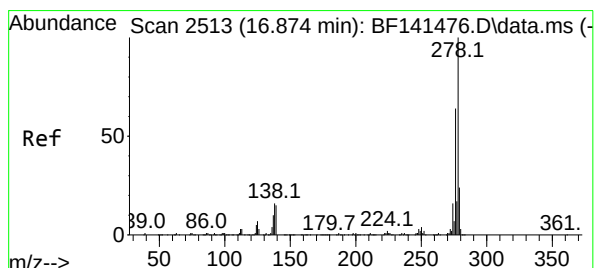
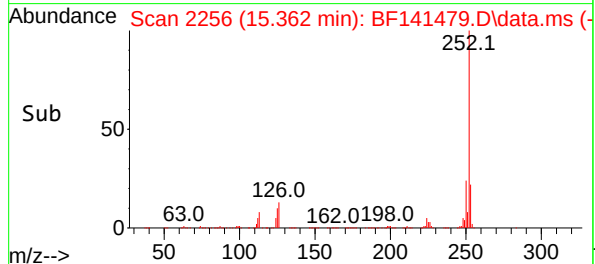
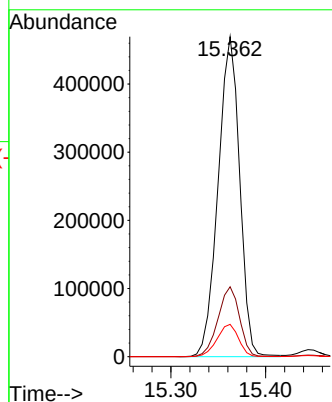
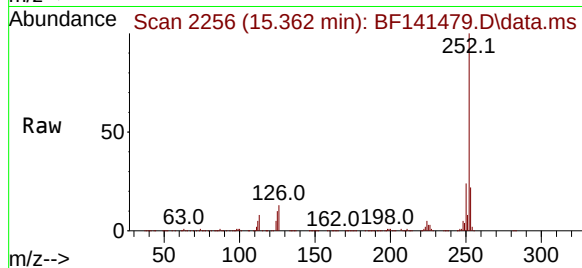




#90
Benzo(a)pyrene
Concen: 80.150 ng
RT: 15.362 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

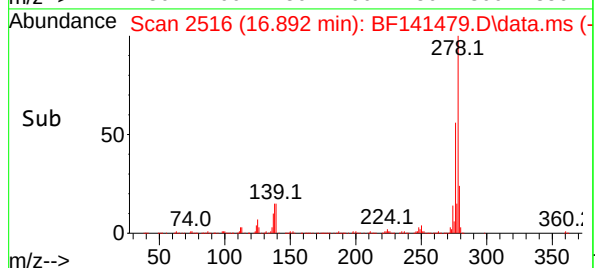
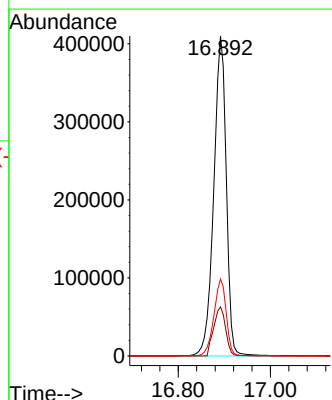
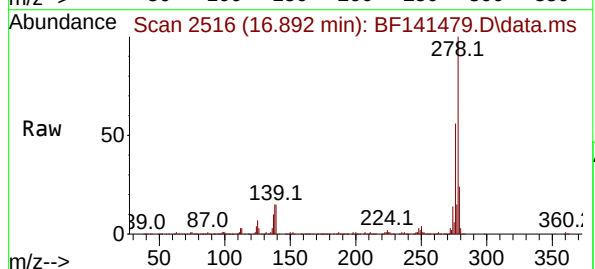
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

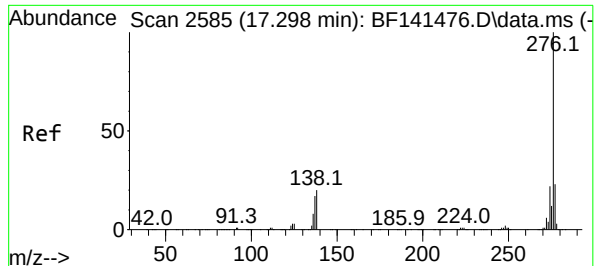
Tgt Ion:252 Resp: 742932
Ion Ratio Lower Upper
252 100
253 21.8 17.1 25.7
125 10.1 7.4 11.2



#91
Dibenzo(a,h)anthracene
Concen: 90.578 ng
RT: 16.892 min Scan# 2516
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:278 Resp: 773684
Ion Ratio Lower Upper
278 100
139 15.3 11.8 17.6
279 24.1 19.1 28.7





#92

Benzo(g,h,i)perylene

Concen: 93.015 ng

RT: 17.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF141479.D

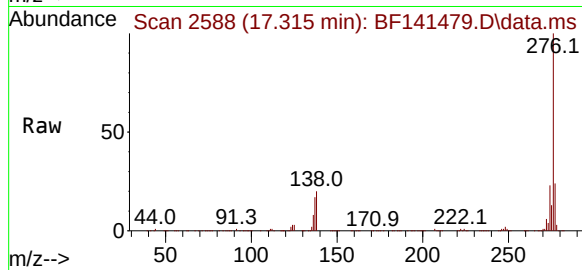
Acq: 06 Feb 2025 14:14

Instrument :

BNA_F

ClientSampleId :

SSTDICC080



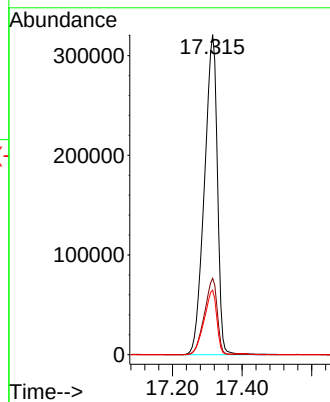
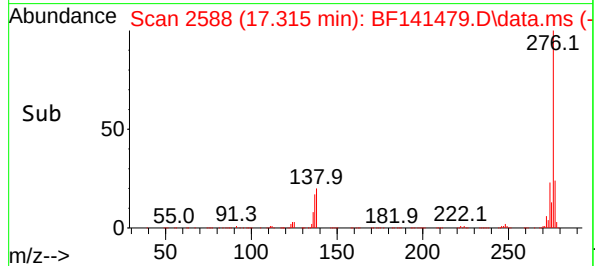
Tgt Ion:276 Resp: 831418

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 20.2 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141480.D
 Acq On : 06 Feb 2025 15:03
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF020625

Quant Time: Feb 06 16:01:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	90009	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	362467	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	197991	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	337289	20.000	ng	0.00
76) Chrysene-d12	13.963	240	252530	20.000	ng	0.00
86) Perylene-d12	15.427	264	199389	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	470176	81.894	ng	0.00
7) Phenol-d6	6.428	99	586892	80.878	ng	-0.01
23) Nitrobenzene-d5	7.357	82	544613	78.369	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	158098	79.490	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1012492	78.786	ng	0.00
79) Terphenyl-d14	12.904	244	1133126	75.750	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.475	88	93282	40.369	ng	99
3) Pyridine	3.205	79	230604	41.938	ng	99
4) n-Nitrosodimethylamine	3.158	42	151656	41.653	ng	97
6) Aniline	6.451	93	284762	41.834	ng	92
8) 2-Chlorophenol	6.575	128	251415	40.527	ng	96
9) Benzaldehyde	6.340	77	154649	40.105	ng	99
10) Phenol	6.446	94	306753	40.615	ng	97
11) bis(2-Chloroethyl)ether	6.528	93	226152	39.866	ng	100
12) 1,3-Dichlorobenzene	6.728	146	264052	40.317	ng	98
13) 1,4-Dichlorobenzene	6.804	146	267068	39.911	ng	99
14) 1,2-Dichlorobenzene	6.957	146	250623	40.354	ng	99
15) Benzyl Alcohol	6.934	79	228379	41.041	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	393626	40.535	ng	98
17) 2-Methylphenol	7.051	107	197905	40.768	ng	99
18) Hexachloroethane	7.298	117	101687	41.061	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	173832	40.048	ng	100
20) 3+4-Methylphenols	7.204	107	247254	40.073	ng	98
22) Acetophenone	7.198	105	353867	39.246	ng	100
24) Nitrobenzene	7.375	77	267193	39.429	ng	100
25) Isophorone	7.610	82	440640	39.767	ng	100
26) 2-Nitrophenol	7.687	139	136248	40.413	ng	98
27) 2,4-Dimethylphenol	7.728	122	157242	39.924	ng	99
28) bis(2-Chloroethoxy)met...	7.822	93	282744	39.822	ng	100
29) 2,4-Dichlorophenol	7.934	162	211891	39.818	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	227379	39.237	ng	100
31) Naphthalene	8.093	128	741255	39.287	ng	100
32) Benzoic acid	7.857	122	164966	40.324	ng	98
33) 4-Chloroaniline	8.145	127	267977	40.680	ng	99
34) Hexachlorobutadiene	8.210	225	139658	40.144	ng	99
35) Caprolactam	8.516	113	66599	41.104	ng	99
36) 4-Chloro-3-methylphenol	8.634	107	235824	40.006	ng	100
37) 2-Methylnaphthalene	8.787	142	475273	38.710	ng	100
38) 1-Methylnaphthalene	8.881	142	464346	39.049	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	230166	40.182	ng	99
41) Hexachlorocyclopentadiene	8.934	237	73834	38.754	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	147770	39.914	ng	99

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 Data File : BF141480.D
 Acq On : 06 Feb 2025 15:03
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF020625

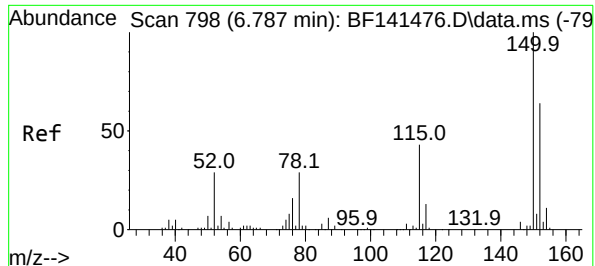
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 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	160926	40.108	ng	99
46) 1,1'-Biphenyl	9.251	154	606611	39.519	ng	100
47) 2-Chloronaphthalene	9.275	162	447817	39.453	ng	100
48) 2-Nitroaniline	9.375	65	154092	40.451	ng	98
49) Acenaphthylene	9.687	152	670833	39.734	ng	99
50) Dimethylphthalate	9.551	163	530769	39.488	ng	99
51) 2,6-Dinitrotoluene	9.616	165	117431	39.965	ng	99
52) Acenaphthene	9.863	154	452794	39.893	ng	100
53) 3-Nitroaniline	9.787	138	127965	40.463	ng	99
54) 2,4-Dinitrophenol	9.892	184	74461	42.639	ng	97
55) Dibenzofuran	10.034	168	664069	39.860	ng	99
56) 4-Nitrophenol	9.957	139	98990	42.166	ng	99
57) 2,4-Dinitrotoluene	10.022	165	158941	40.633	ng	100
58) Fluorene	10.375	166	508833	39.501	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	139688	40.438	ng	97
60) Diethylphthalate	10.251	149	521933	39.467	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	243659	39.318	ng	98
62) 4-Nitroaniline	10.398	138	132059	41.124	ng	99
63) Azobenzene	10.528	77	522705	39.759	ng	99
65) 4,6-Dinitro-2-methylph...	10.428	198	98944	42.230	ng	98
66) n-Nitrosodiphenylamine	10.492	169	432307	40.040	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	154044	40.864	ng	95
68) Hexachlorobenzene	10.928	284	156075	40.208	ng	99
69) Atrazine	11.016	200	127486	39.358	ng	100
70) Pentachlorophenol	11.122	266	105427	42.476	ng	99
71) Phenanthrene	11.339	178	744761	40.114	ng	100
72) Anthracene	11.392	178	753295	40.362	ng	100
73) Carbazole	11.551	167	676218	40.267	ng	100
74) Di-n-butylphthalate	11.881	149	794101	40.953	ng	100
75) Fluoranthene	12.528	202	807256	41.011	ng	100
77) Benzidine	12.651	184	211734	38.017	ng	100
78) Pyrene	12.757	202	812250	37.784	ng	100
80) Butylbenzylphthalate	13.380	149	311103	41.781	ng	99
81) Benzo(a)anthracene	13.951	228	638036	38.009	ng	100
82) 3,3'-Dichlorobenzidine	13.916	252	185650	38.608	ng	99
83) Chrysene	13.992	228	610091	39.361	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	371434	44.229	ng	100
85) Di-n-octyl phthalate	14.574	149	534947	44.652	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	474949	38.551	ng	99
88) Benzo(b)fluoranthene	15.010	252	526847	39.352	ng	100
89) Benzo(k)fluoranthene	15.039	252	470794	41.182	ng	98
90) Benzo(a)pyrene	15.369	252	427462	39.459	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	388028	38.870	ng	99
92) Benzo(g,h,i)perylene	17.310	276	402566	38.536	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

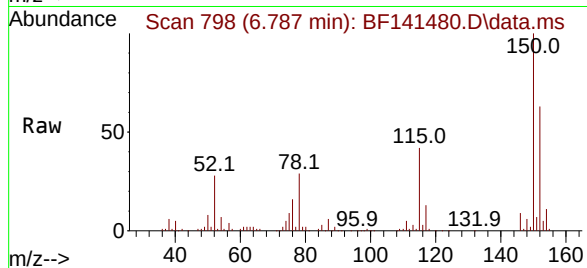
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BNA_F
ClientSampleId :
ICVBF020625

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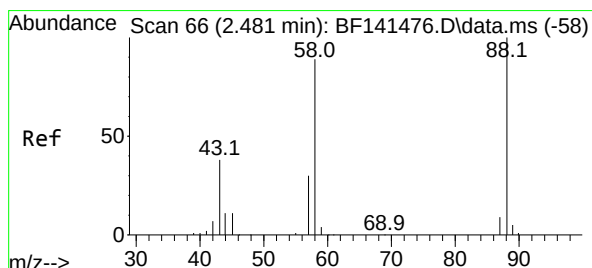
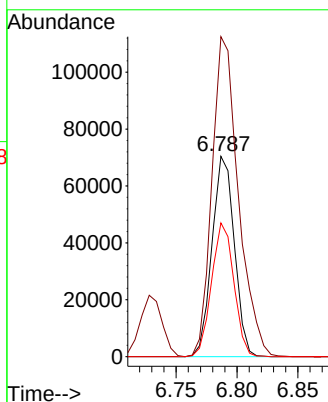
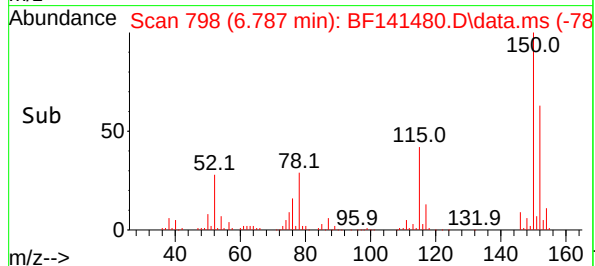


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

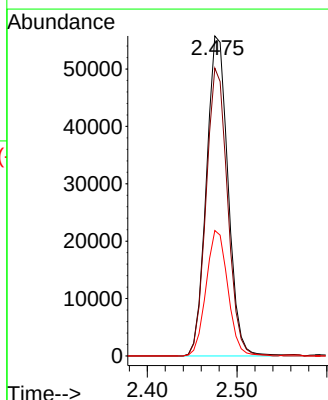
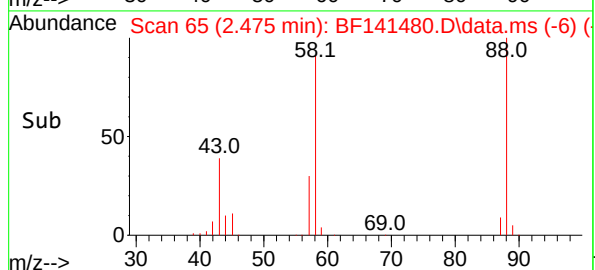
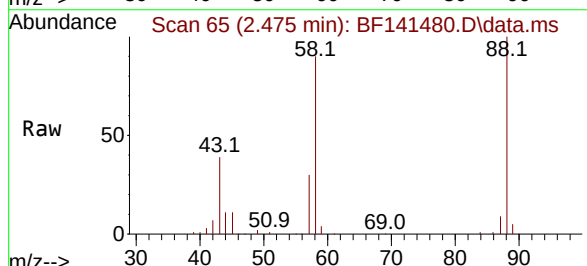


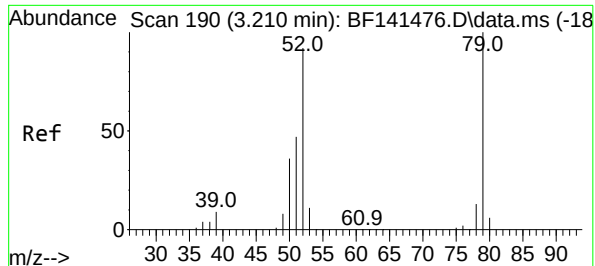
Tgt Ion:152 Resp: 90009
Ion Ratio Lower Upper
152 100
150 159.7 125.0 187.4
115 66.8 53.6 80.4



#2
1,4-Dioxane
Concen: 40.369 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 88 Resp: 93282
Ion Ratio Lower Upper
88 100
58 89.1 71.1 106.7
43 39.4 30.6 46.0





#3

Pyridine

Concen: 41.938 ng

RT: 3.205 min Scan# 189

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

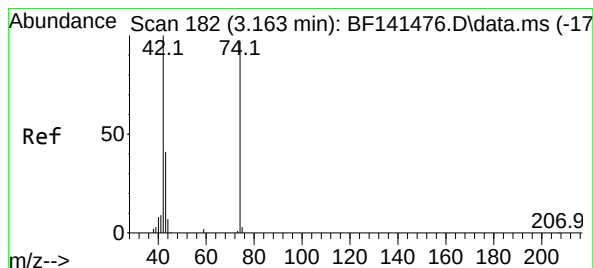
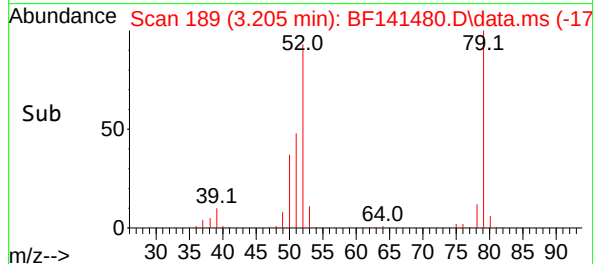
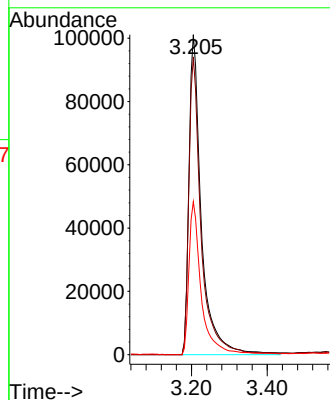
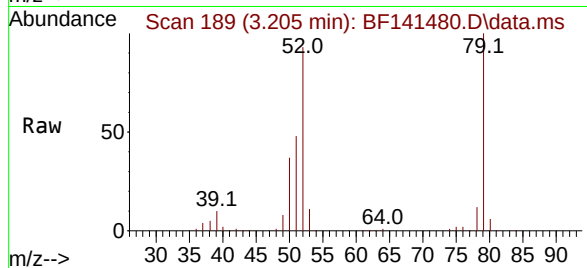
BNA_F

ClientSampleId :

ICVBF020625

Tgt Ion: 79 Resp: 230604

Ion	Ratio	Lower	Upper
79	100		
52	93.1	73.7	110.5
51	47.8	37.5	56.3



#4

n-Nitrosodimethylamine

Concen: 41.653 ng

RT: 3.158 min Scan# 181

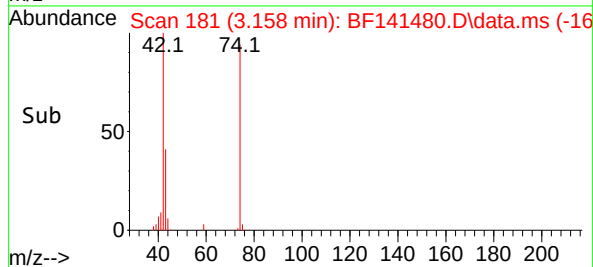
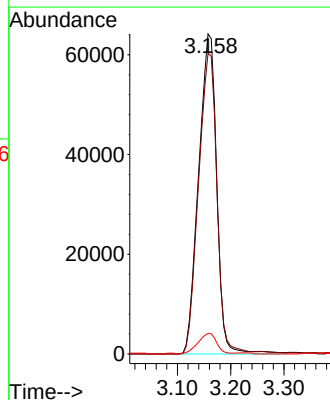
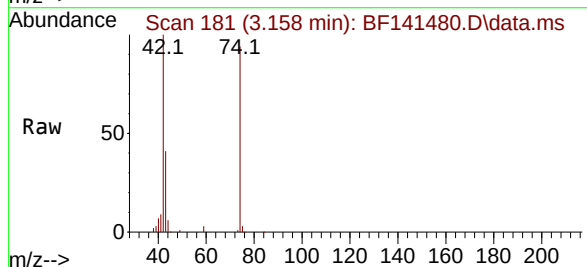
Delta R.T. -0.029 min

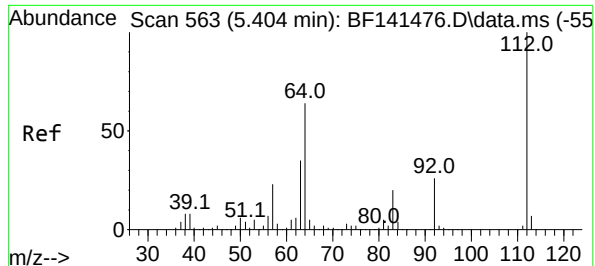
Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Tgt Ion: 42 Resp: 151656

Ion	Ratio	Lower	Upper
42	100		
74	94.0	78.0	117.0
44	6.5	5.4	8.2

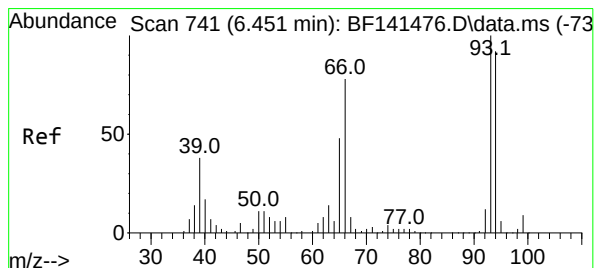
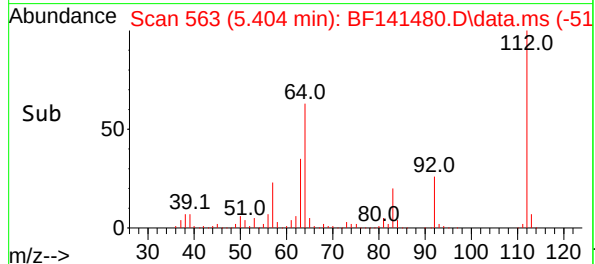
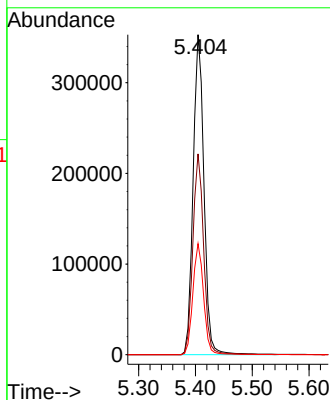
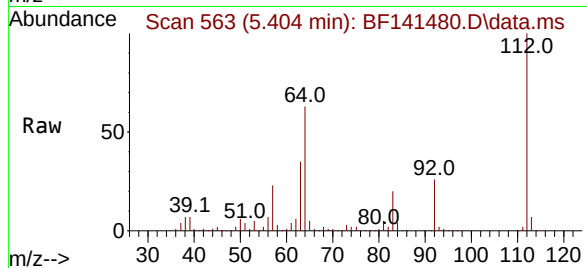




#5
2-Fluorophenol
Concen: 81.894 ng
RT: 5.404 min Scan# 563
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

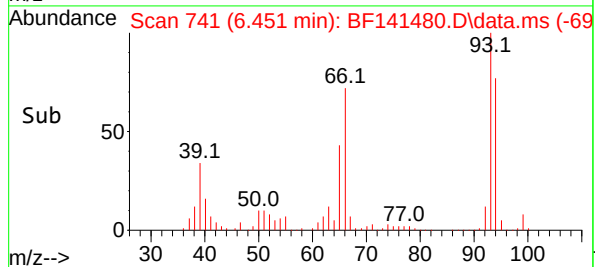
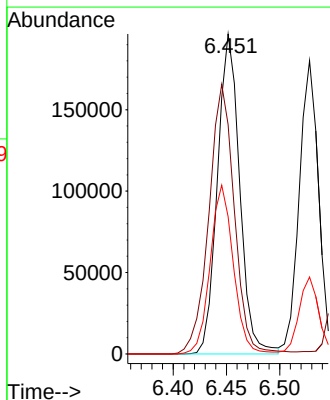
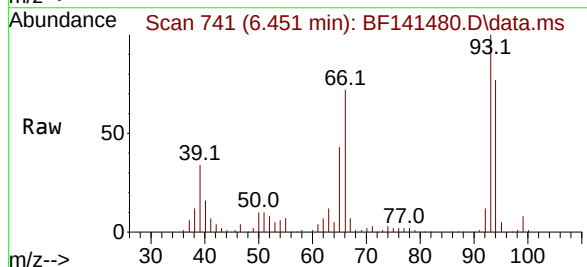
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

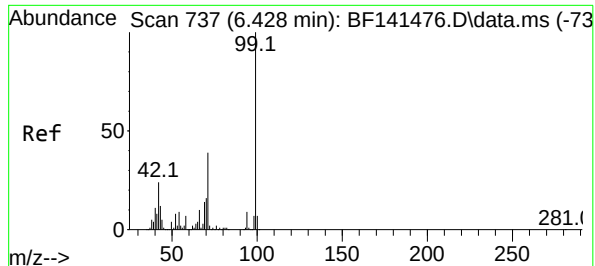
Tgt Ion:112 Resp: 470176
Ion Ratio Lower Upper
112 100
64 62.8 51.1 76.7
63 34.7 28.4 42.6



#6
Aniline
Concen: 41.834 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 93 Resp: 284762
Ion Ratio Lower Upper
93 100
66 71.6 62.6 94.0
65 42.9 38.3 57.5





#7

Phenol-d6

Concen: 80.878 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

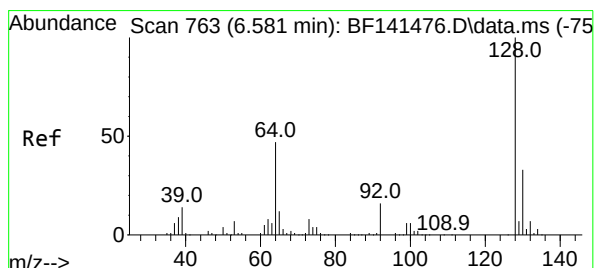
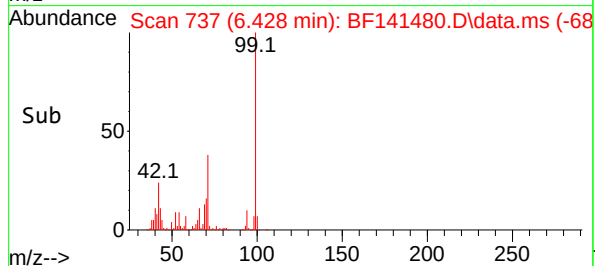
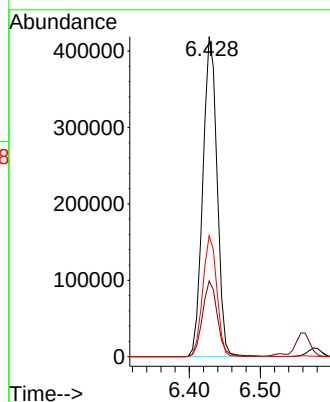
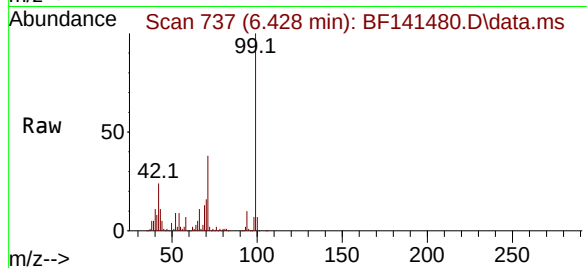
Tgt Ion: 99 Resp: 586892

Ion Ratio Lower Upper

99 100

42 23.7 19.1 28.7

71 37.8 31.1 46.7



#8

2-Chlorophenol

Concen: 40.527 ng

RT: 6.575 min Scan# 762

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

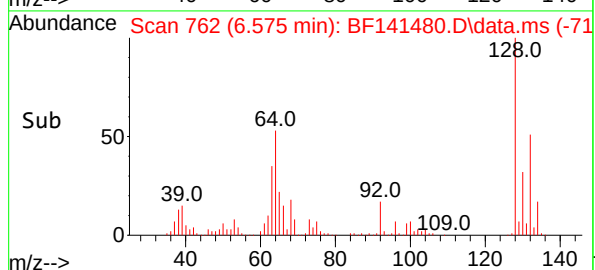
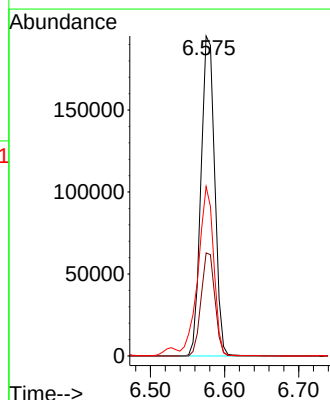
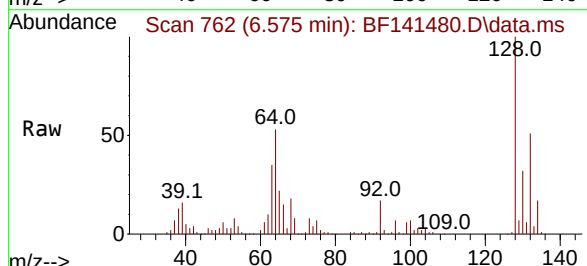
Tgt Ion: 128 Resp: 251415

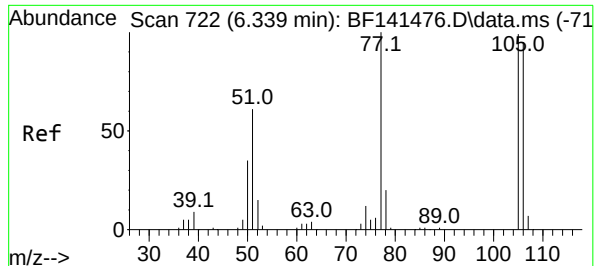
Ion Ratio Lower Upper

128 100

130 32.2 12.7 52.7

64 52.9 28.3 68.3





#9

Benzaldehyde

Concen: 40.105 ng

RT: 6.340 min Scan# 71

Delta R.T. 0.001 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

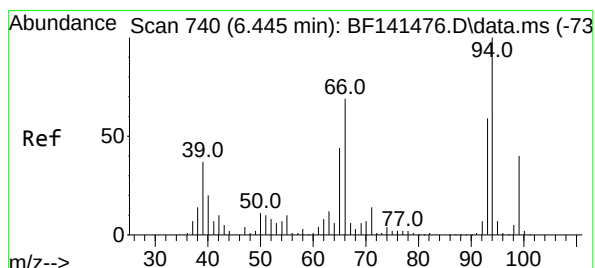
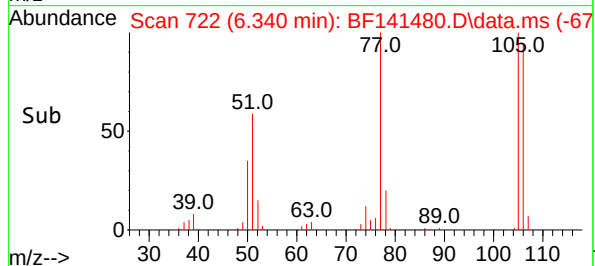
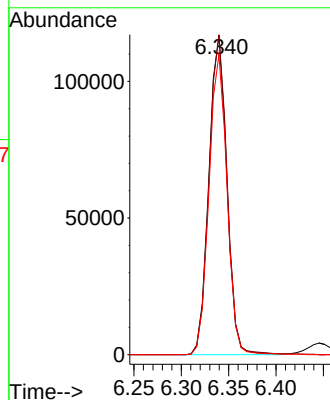
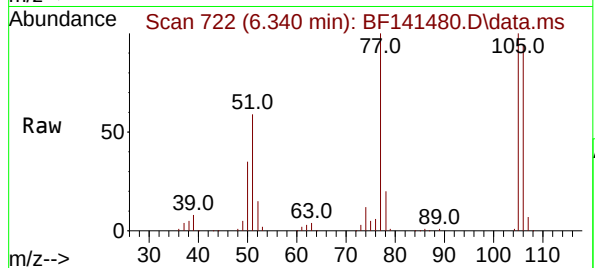
Tgt Ion: 77 Resp: 154649

Ion Ratio Lower Upper

77 100

105 100.4 79.4 119.4

106 94.1 75.1 115.1



#10

Phenol

Concen: 40.615 ng

RT: 6.446 min Scan# 740

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

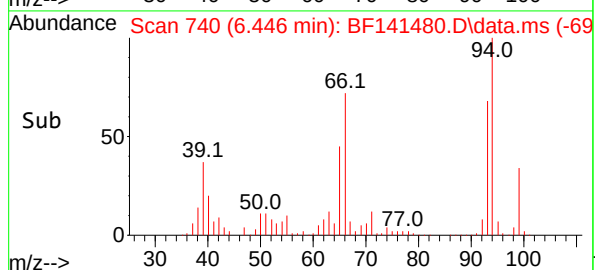
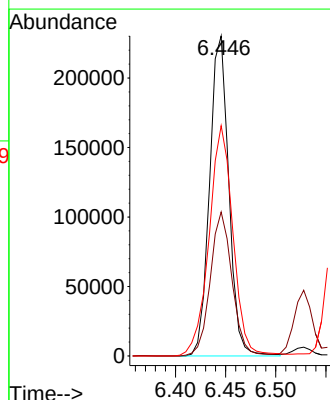
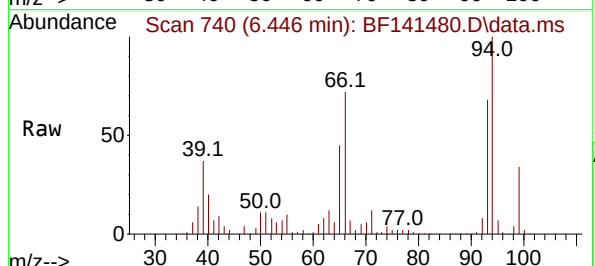
Tgt Ion: 94 Resp: 306753

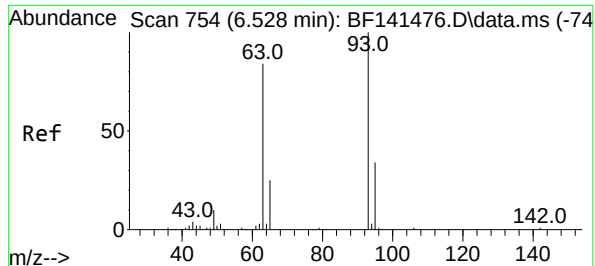
Ion Ratio Lower Upper

94 100

65 45.0 23.7 63.7

66 71.9 49.3 89.3

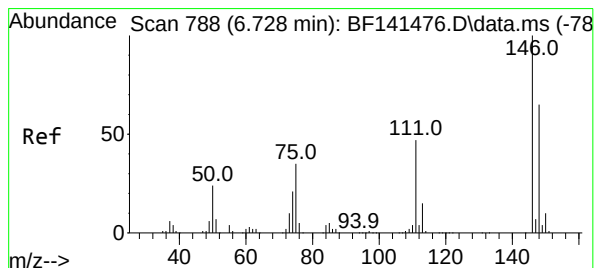
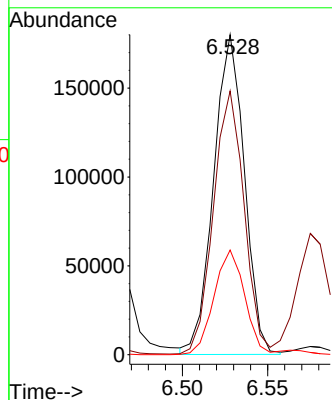
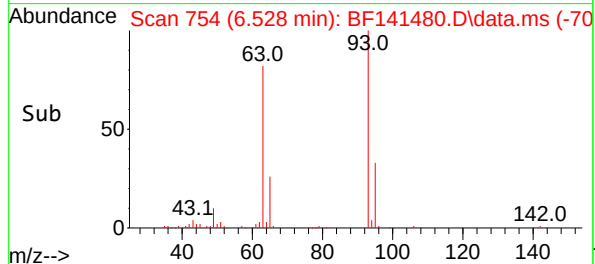
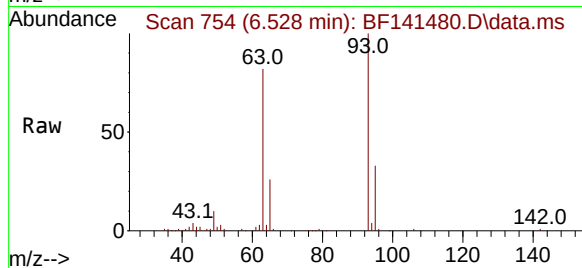




#11
bis(2-Chloroethyl)ether
Concen: 39.866 ng
RT: 6.528 min Scan# 754
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

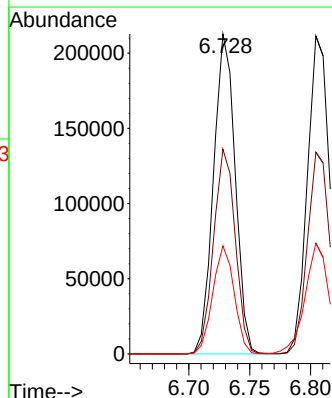
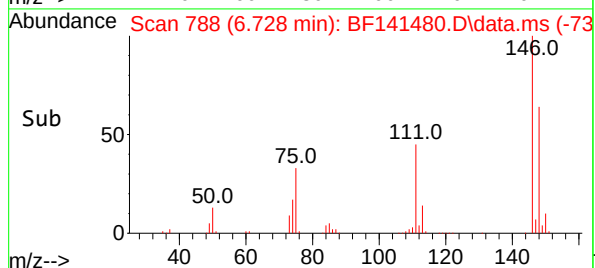
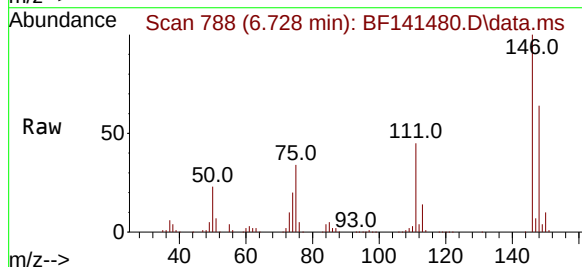
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ClientSampleId :
ICVBF020625

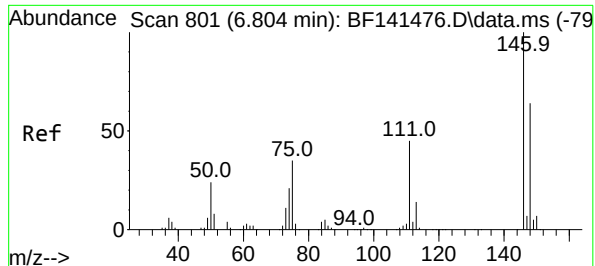
Tgt Ion: 93 Resp: 226152
Ion Ratio Lower Upper
93 100
63 82.4 62.0 102.0
95 32.7 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 40.317 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 146 Resp: 264052
Ion Ratio Lower Upper
146 100
148 64.0 51.9 77.9
75 33.8 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 39.911 ng

RT: 6.804 min Scan# 801

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

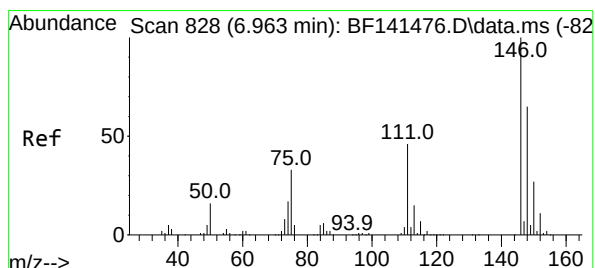
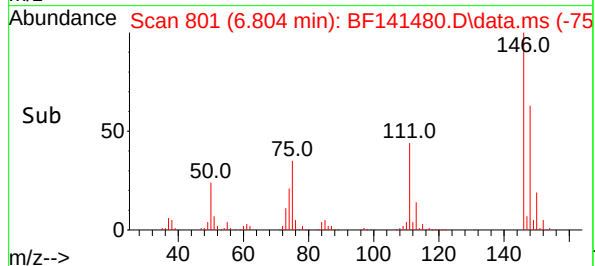
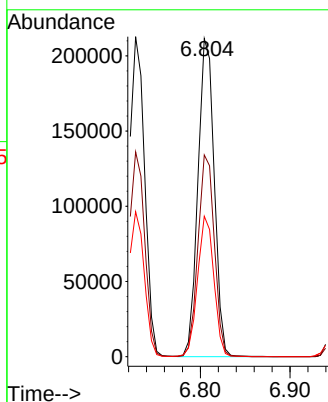
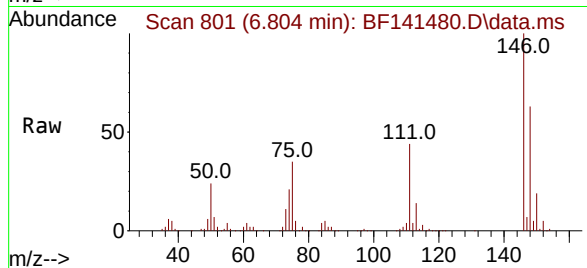
Tgt Ion:146 Resp: 267068

Ion Ratio Lower Upper

146 100

148 63.4 50.9 76.3

111 44.2 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 40.354 ng

RT: 6.957 min Scan# 827

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

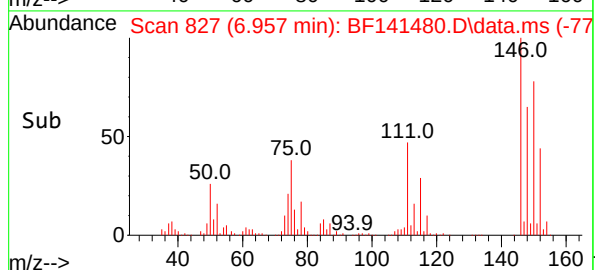
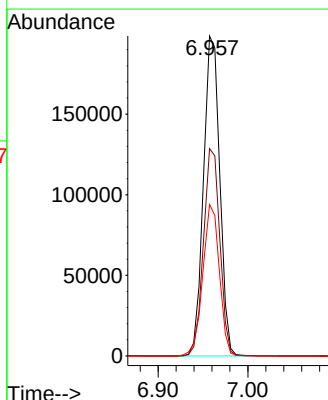
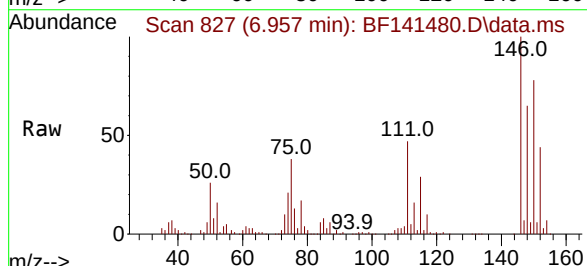
Tgt Ion:146 Resp: 250623

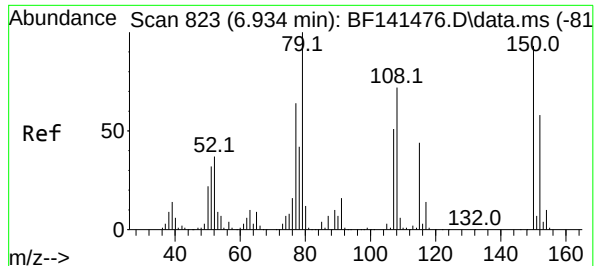
Ion Ratio Lower Upper

146 100

148 64.8 51.8 77.6

111 47.4 37.0 55.4

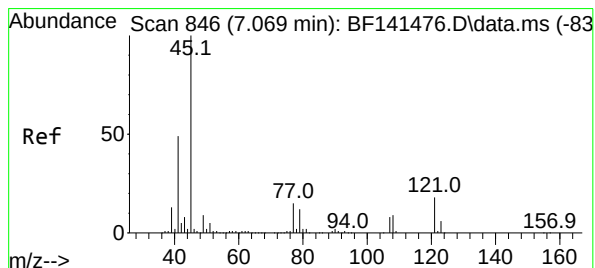
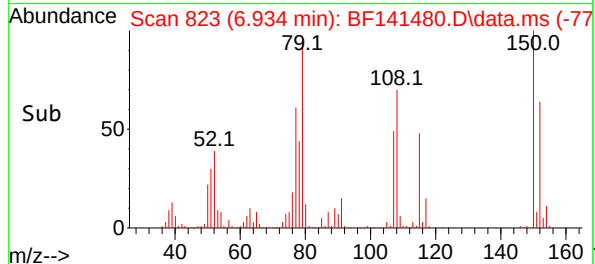
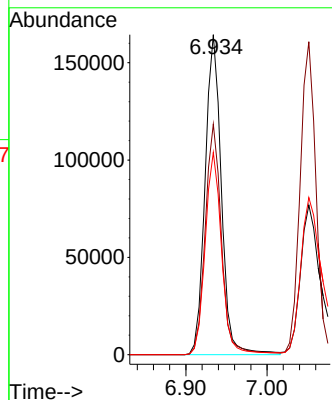
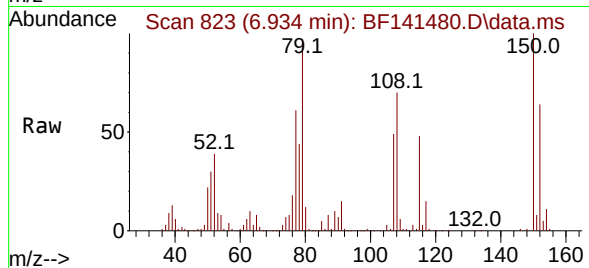




#15
Benzyl Alcohol
Concen: 41.041 ng
RT: 6.934 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

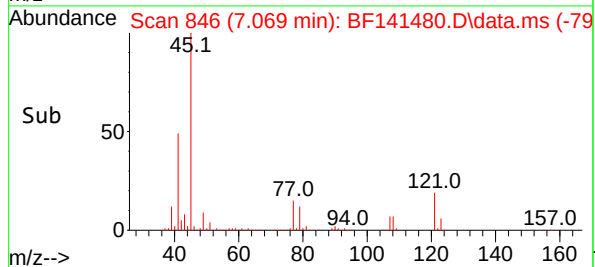
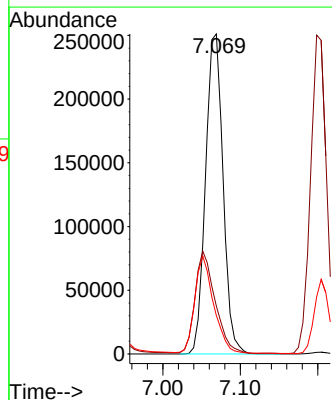
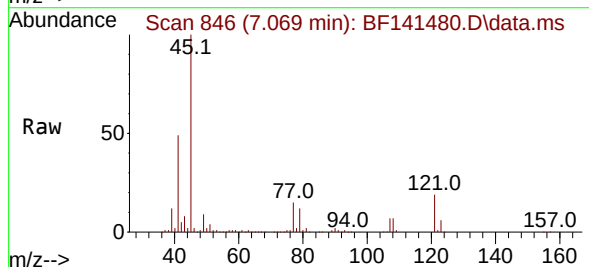
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

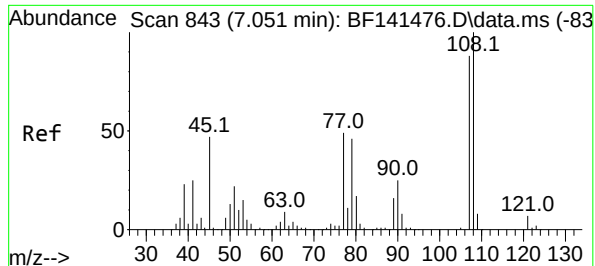
Tgt Ion: 79 Resp: 228379
Ion Ratio Lower Upper
79 100
108 72.0 57.4 86.2
77 63.2 50.9 76.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.535 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

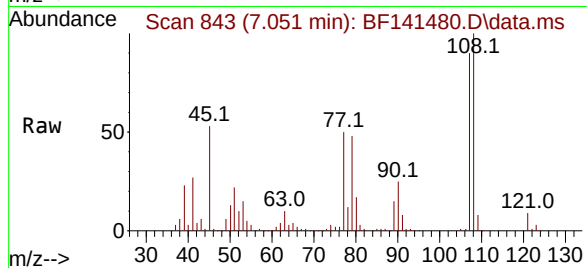
Tgt Ion: 45 Resp: 393626
Ion Ratio Lower Upper
45 100
77 14.9 0.0 35.8
79 12.0 0.0 32.7



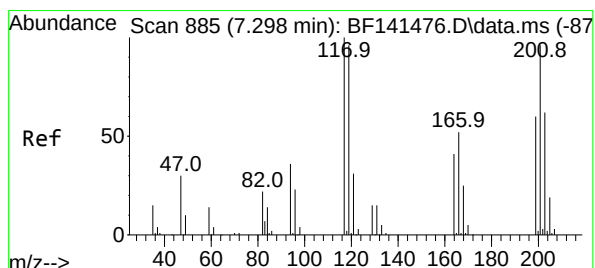
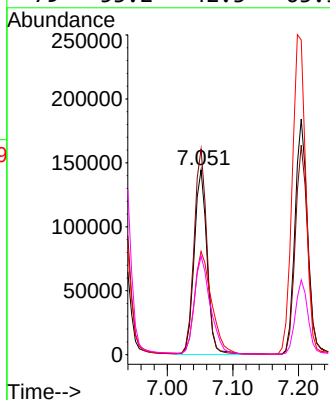
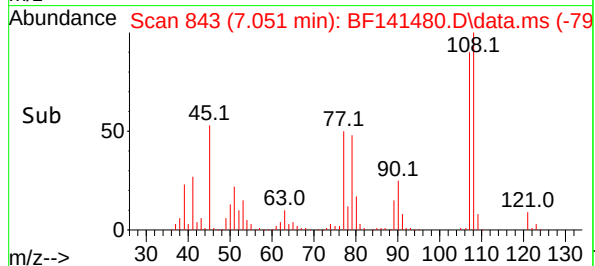


#17
2-Methylphenol
Concen: 40.768 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

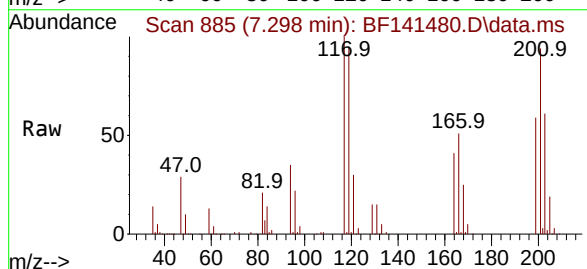
Instrument :
BNA_F
ClientSampleId :
ICVBF020625



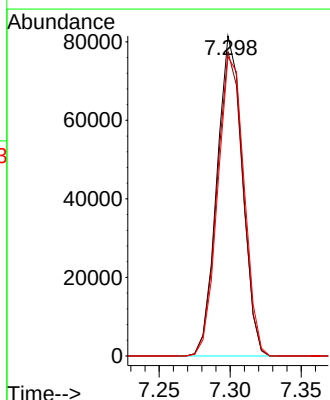
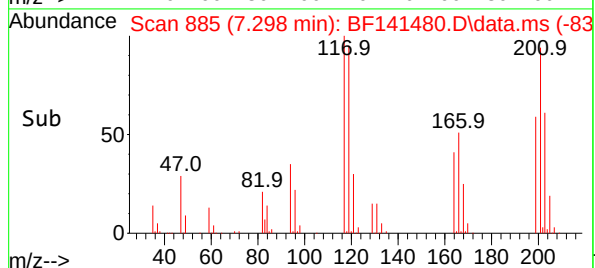
Tgt Ion:107 Resp: 197905
Ion Ratio Lower Upper
107 100
108 111.3 90.6 136.0
77 55.8 44.4 66.6
79 53.2 42.3 63.5

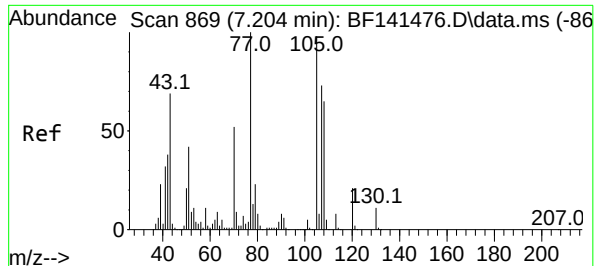


#18
Hexachloroethane
Concen: 41.061 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03



Tgt Ion:117 Resp: 101687
Ion Ratio Lower Upper
117 100
119 95.0 76.5 114.7
201 93.5 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 40.048 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

Tgt Ion: 70 Resp: 173832

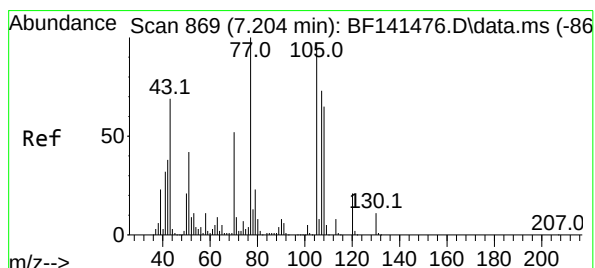
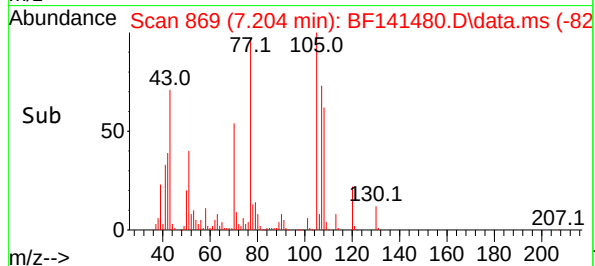
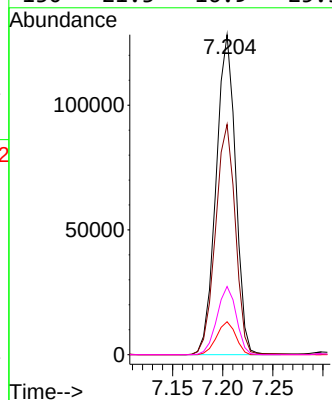
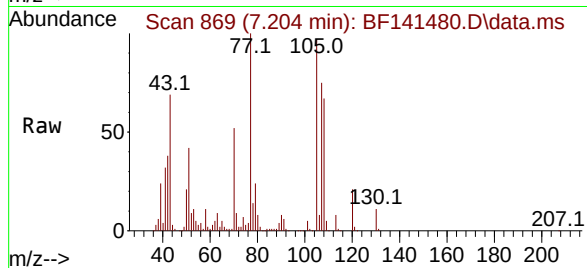
Ion Ratio Lower Upper

70 100

42 72.0 57.4 86.2

101 10.3 8.0 12.0

130 21.3 16.9 25.3



#20

3+4-Methylphenols

Concen: 40.073 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Tgt Ion: 107 Resp: 247254

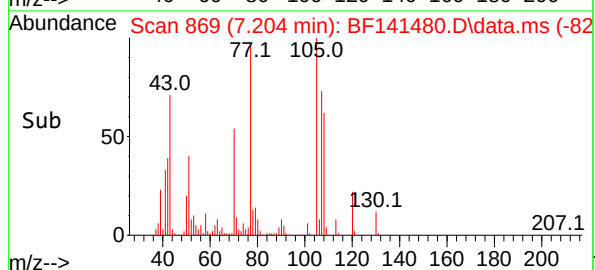
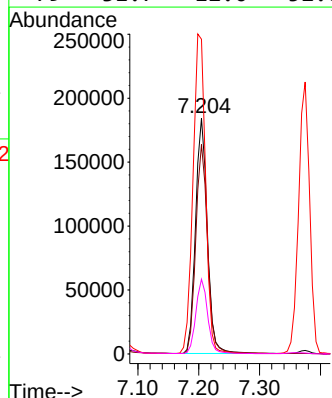
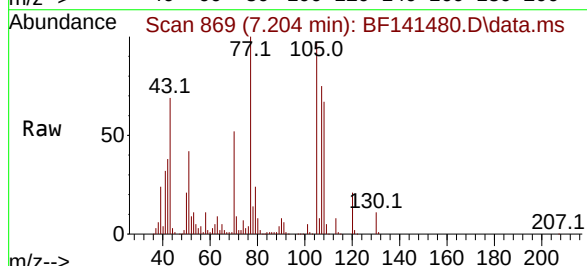
Ion Ratio Lower Upper

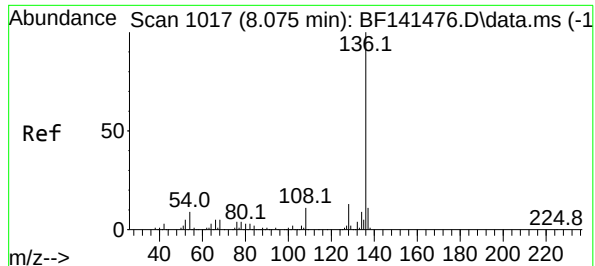
107 100

108 88.9 68.5 108.5

77 133.5 116.5 156.5

79 31.7 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

Tgt Ion:136 Resp: 362467

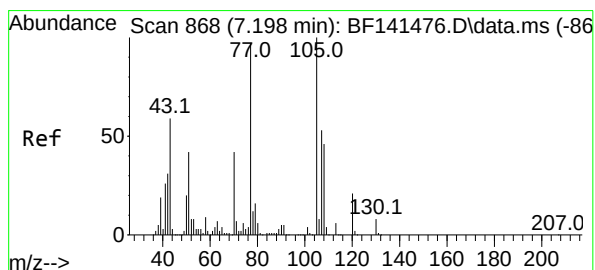
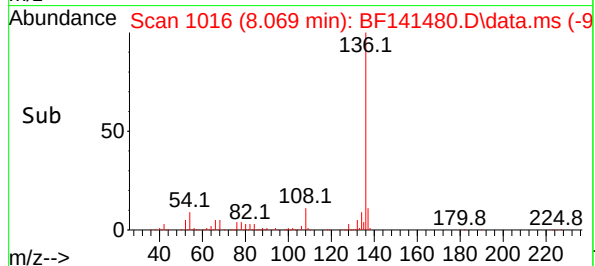
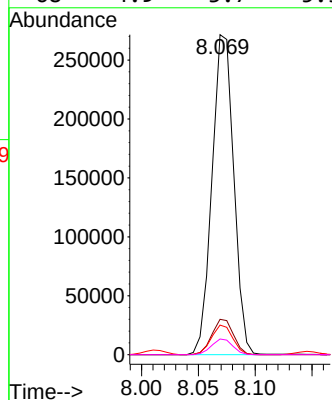
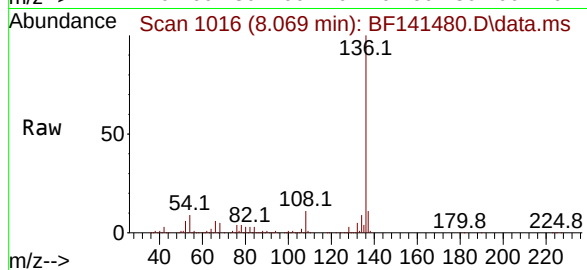
Ion Ratio Lower Upper

136 100

137 11.1 8.6 13.0

54 9.3 7.2 10.8

68 4.9 3.7 5.5



#22

Acetophenone

Concen: 39.246 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Tgt Ion:105 Resp: 353867

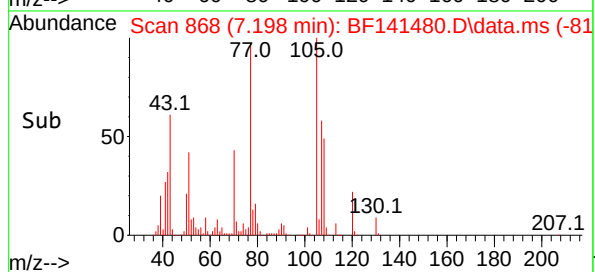
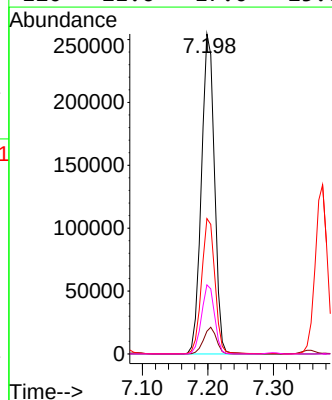
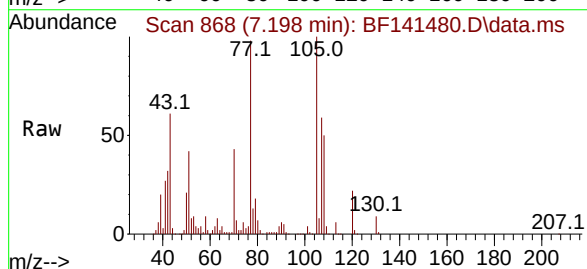
Ion Ratio Lower Upper

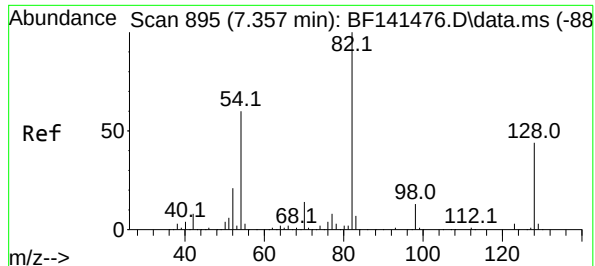
105 100

71 7.1 5.7 8.5

51 42.3 33.7 50.5

120 21.6 17.0 25.6

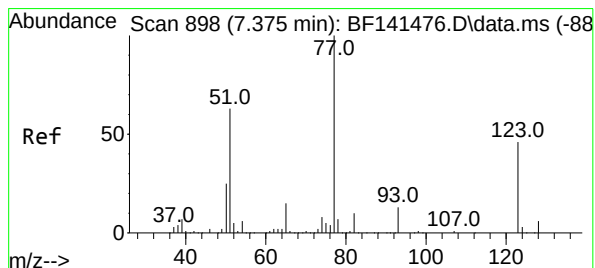
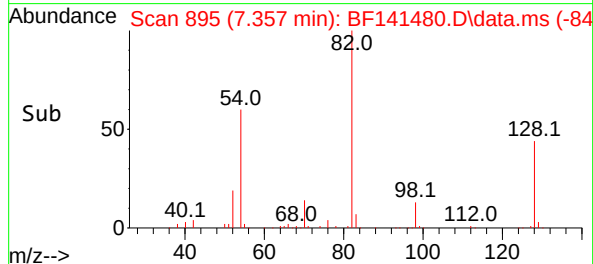
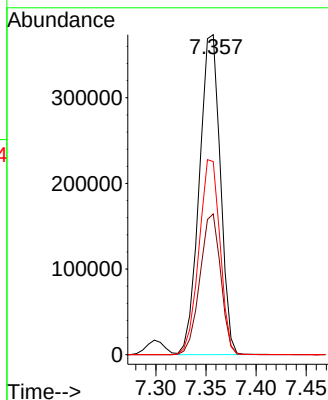
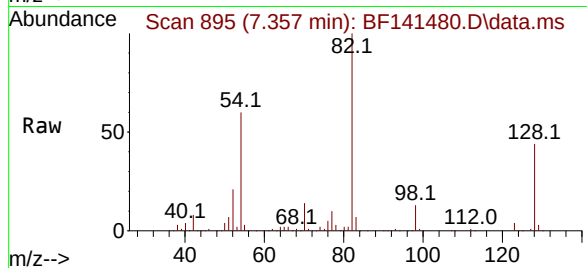




#23
Nitrobenzene-d5
Concen: 78.369 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

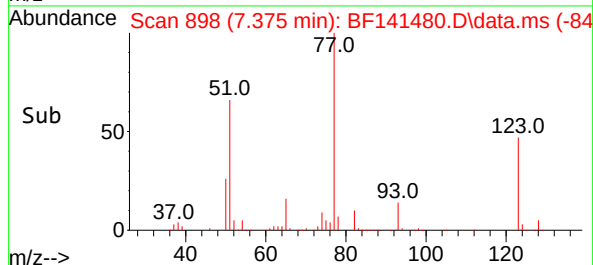
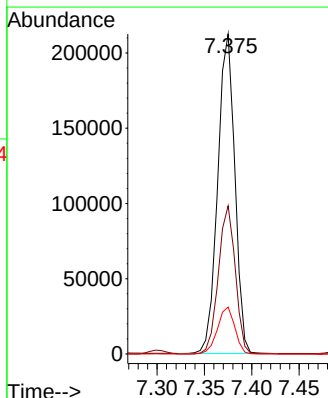
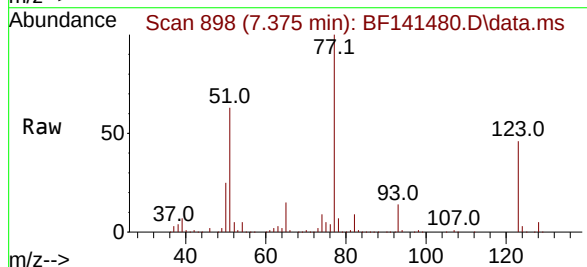
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

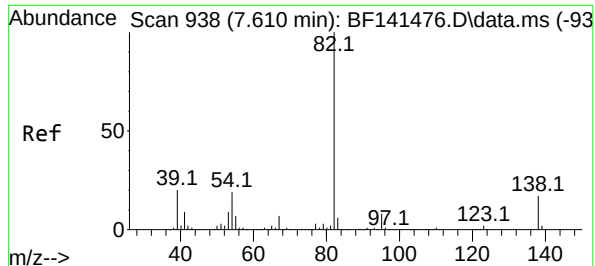
Tgt Ion: 82 Resp: 544613
Ion Ratio Lower Upper
82 100
128 44.0 34.8 52.2
54 60.4 48.2 72.4



#24
Nitrobenzene
Concen: 39.429 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 77 Resp: 267193
Ion Ratio Lower Upper
77 100
123 46.3 36.9 55.3
65 14.6 11.9 17.9

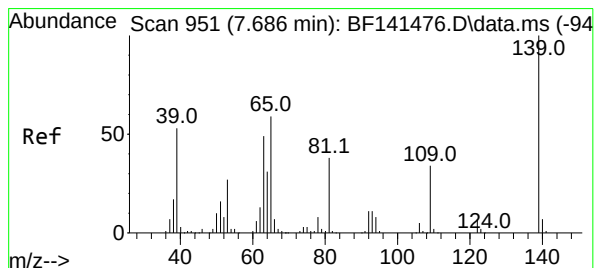
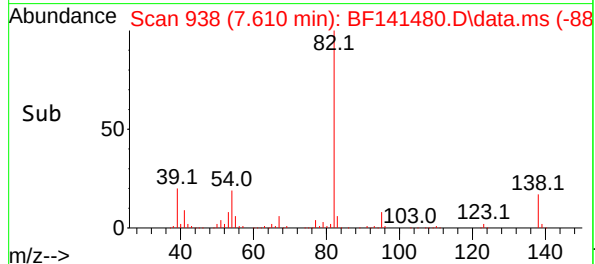
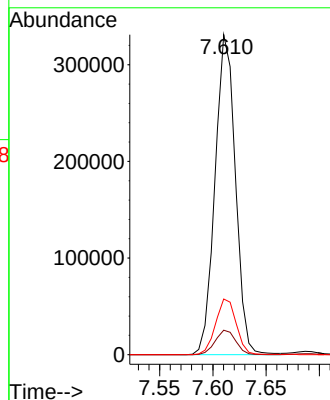
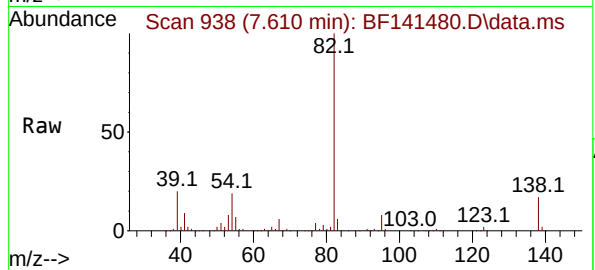




#25
Isophorone
Concen: 39.767 ng
RT: 7.610 min Scan# 910
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

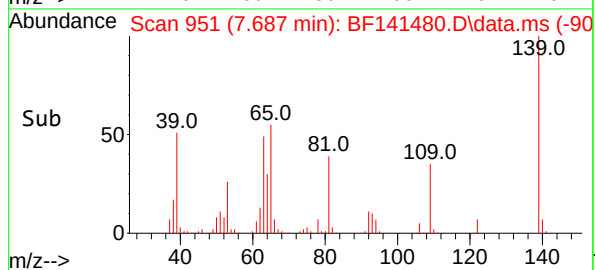
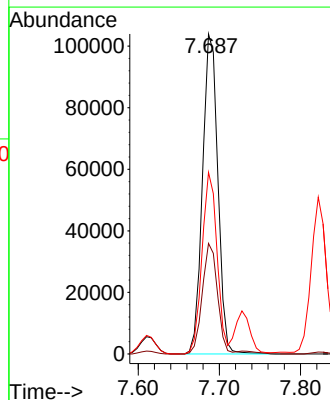
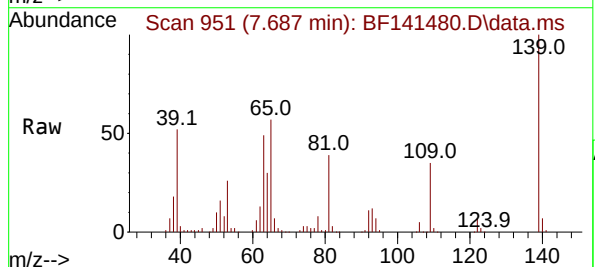
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

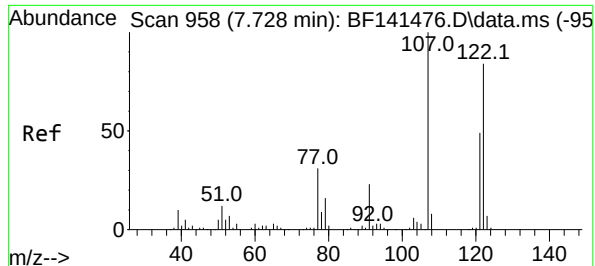
Tgt Ion: 82 Resp: 440640
Ion Ratio Lower Upper
82 100
95 7.7 6.4 9.6
138 17.4 13.9 20.9



#26
2-Nitrophenol
Concen: 40.413 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 139 Resp: 136248
Ion Ratio Lower Upper
139 100
109 34.6 27.0 40.6
65 56.7 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 39.924 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

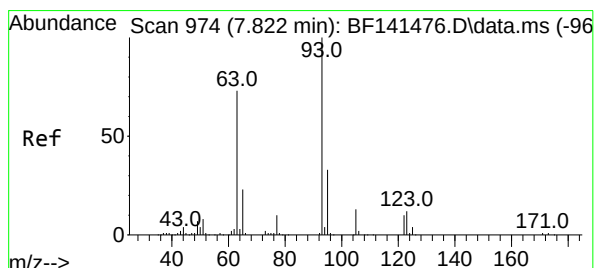
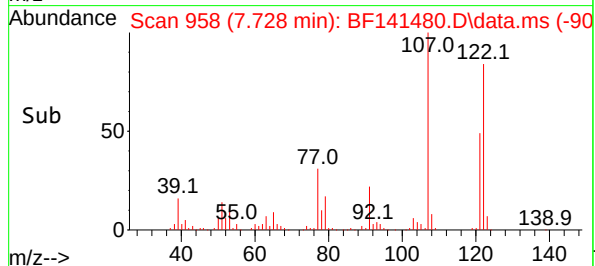
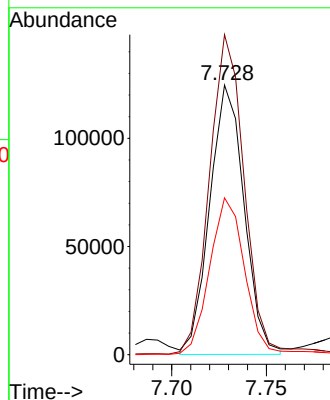
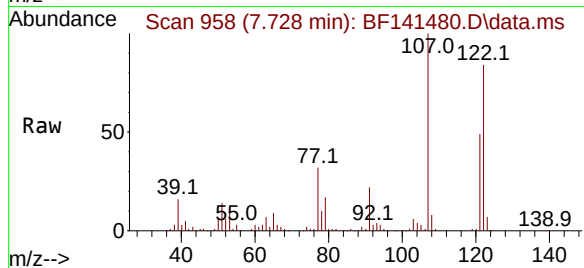
Tgt Ion:122 Resp: 157242

Ion Ratio Lower Upper

122 100

107 118.7 94.3 141.5

121 58.2 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 39.822 ng

RT: 7.822 min Scan# 974

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

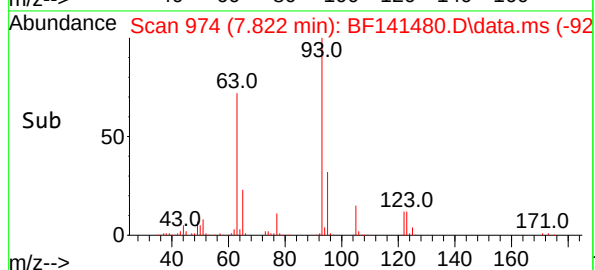
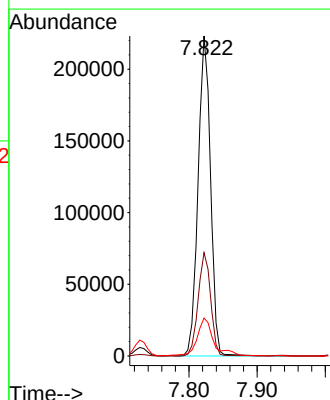
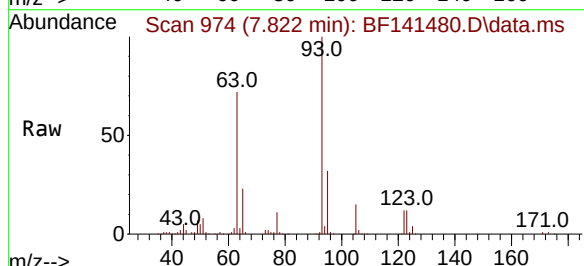
Tgt Ion: 93 Resp: 282744

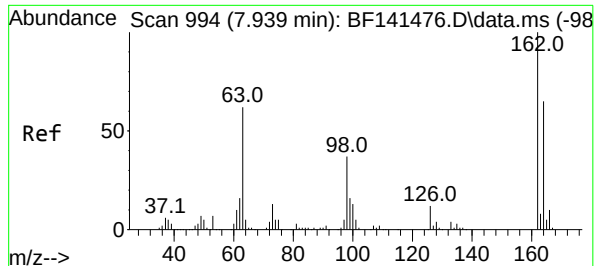
Ion Ratio Lower Upper

93 100

95 32.3 26.1 39.1

123 11.9 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 39.818 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

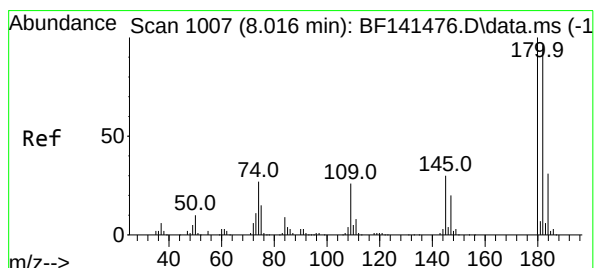
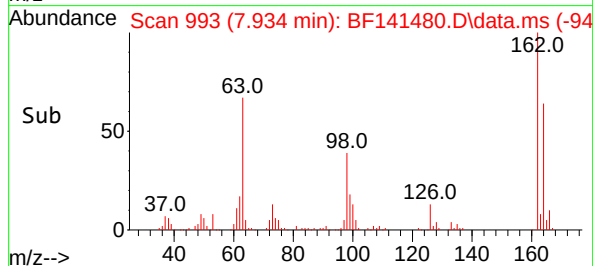
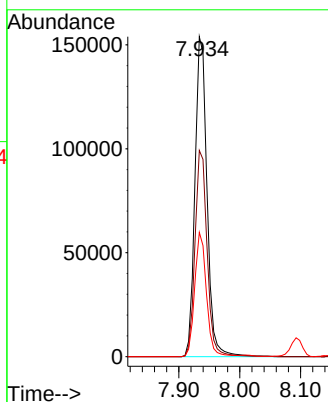
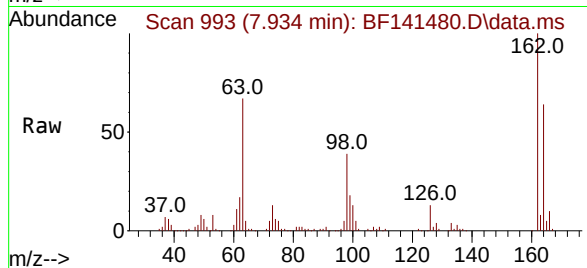
Tgt Ion:162 Resp: 211891

Ion Ratio Lower Upper

162 100

164 64.5 44.6 84.6

98 38.9 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 39.237 ng

RT: 8.016 min Scan# 1007

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

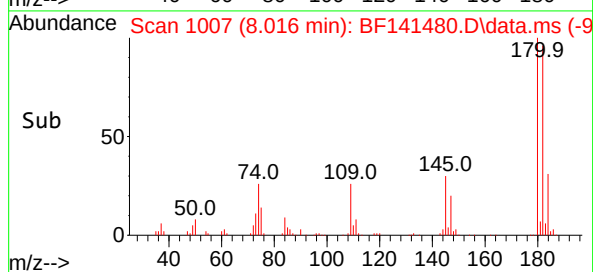
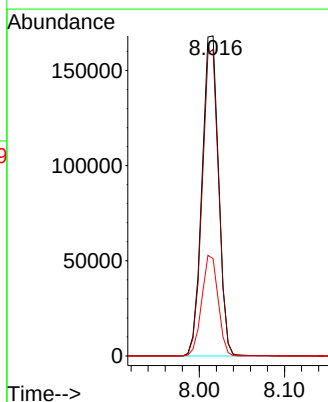
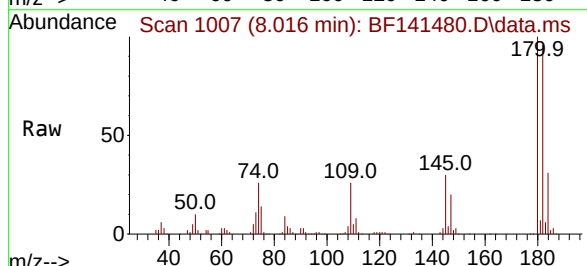
Tgt Ion:180 Resp: 227379

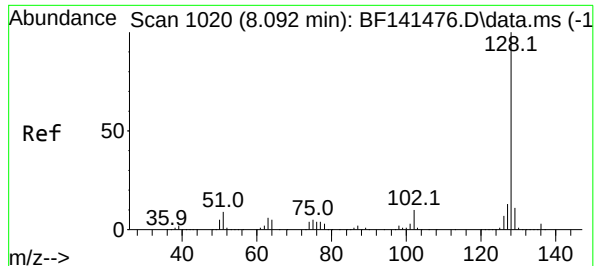
Ion Ratio Lower Upper

180 100

182 95.7 76.8 115.2

145 30.4 24.2 36.4

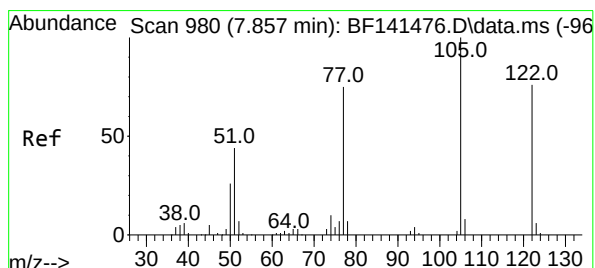
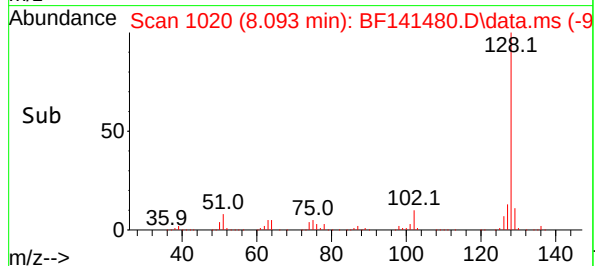
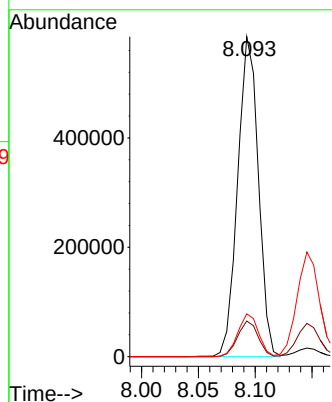
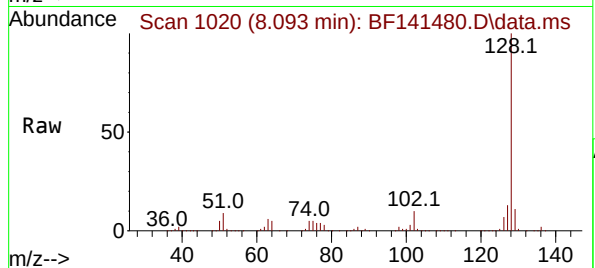




#31
Naphthalene
Concen: 39.287 ng
RT: 8.093 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

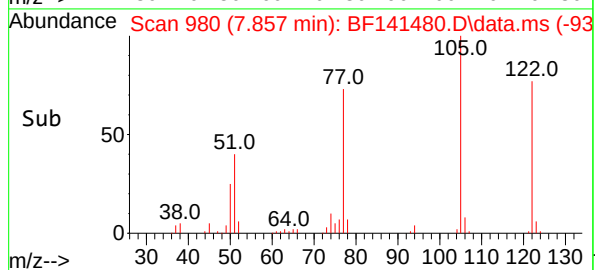
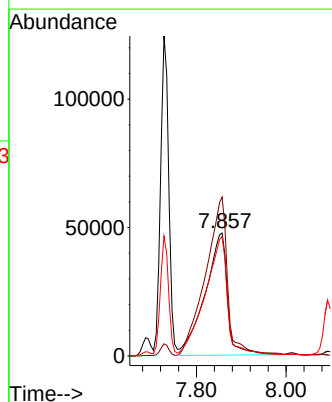
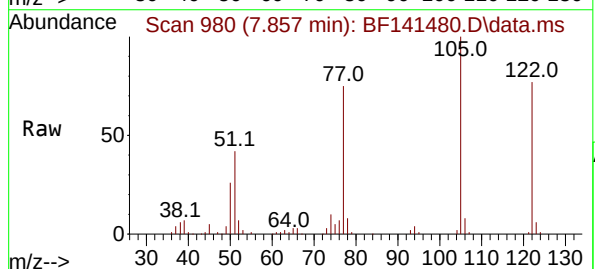
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

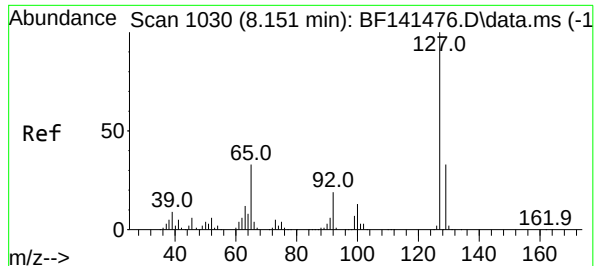
Tgt Ion:128 Resp: 741255
Ion Ratio Lower Upper
128 100
129 11.1 8.9 13.3
127 13.4 10.7 16.1



#32
Benzoic acid
Concen: 40.324 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:122 Resp: 164966
Ion Ratio Lower Upper
122 100
105 129.3 106.5 146.5
77 97.2 76.3 116.3





#33

4-Chloroaniline

Concen: 40.680 ng

RT: 8.145 min Scan# 1029

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

Tgt Ion:127 Resp: 267977

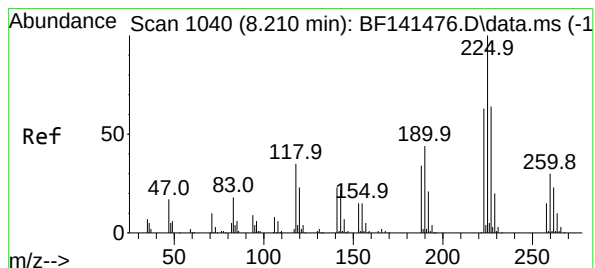
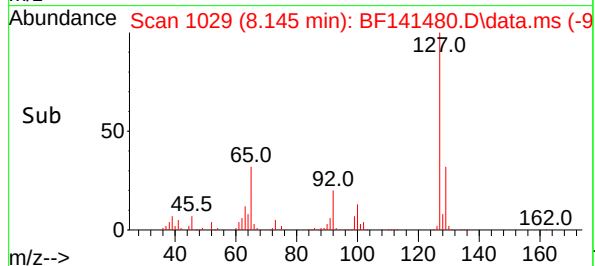
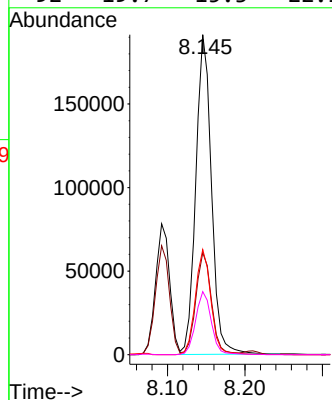
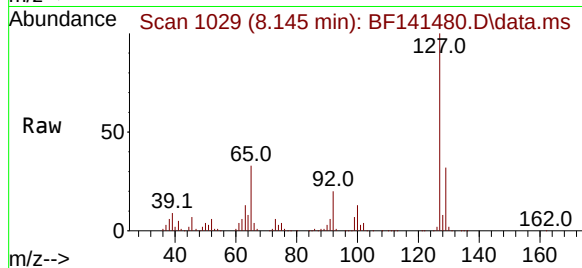
Ion Ratio Lower Upper

127 100

129 31.9 26.5 39.7

65 32.9 26.4 39.6

92 19.7 15.3 22.9



#34

Hexachlorobutadiene

Concen: 40.144 ng

RT: 8.210 min Scan# 1040

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

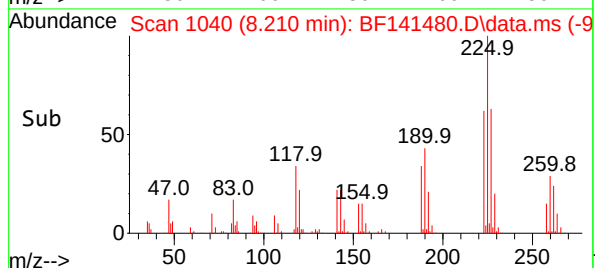
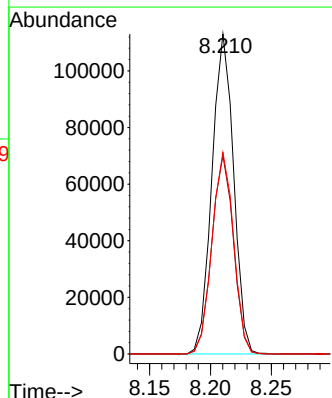
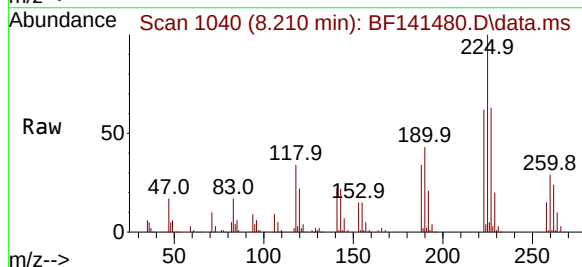
Tgt Ion:225 Resp: 139658

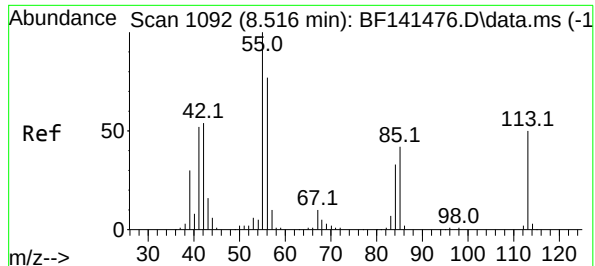
Ion Ratio Lower Upper

225 100

223 62.0 50.1 75.1

227 63.0 51.0 76.6

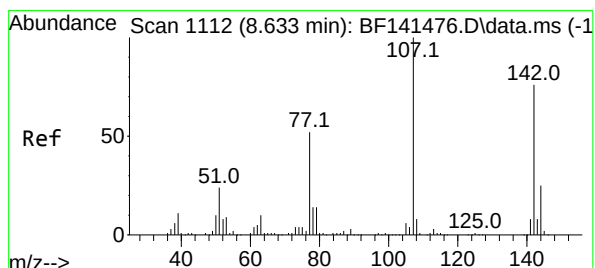
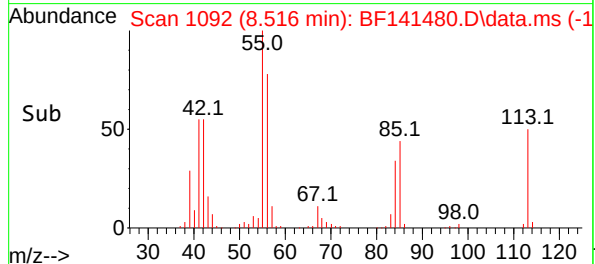
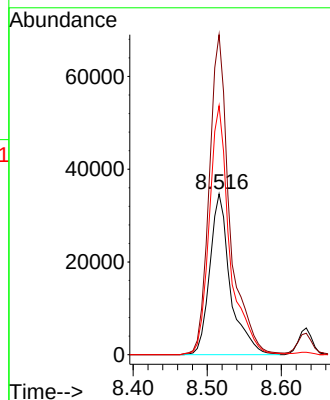
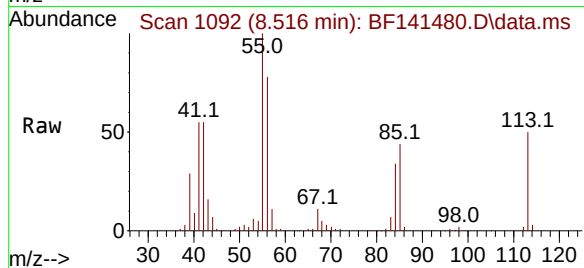




#35
 Caprolactam
 Concen: 41.104 ng
 RT: 8.516 min Scan# 1092
 Delta R.T. -0.029 min
 Lab File: BF141480.D
 Acq: 06 Feb 2025 15:03

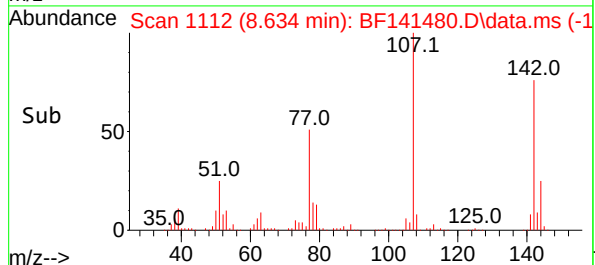
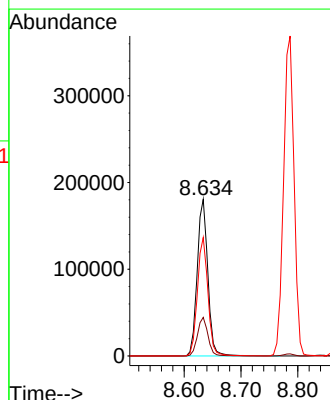
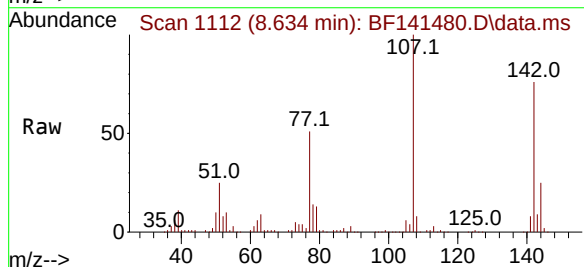
Instrument :
 BNA_F
 ClientSampleId :
 ICVBF020625

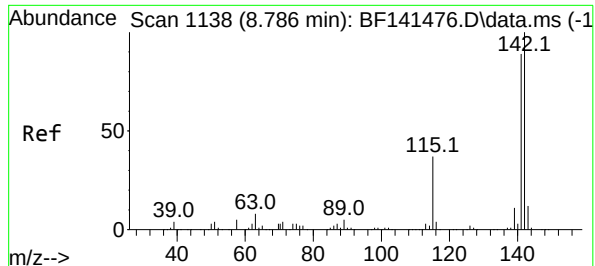
Tgt Ion:113 Resp: 66599
 Ion Ratio Lower Upper
 113 100
 55 199.0 180.8 220.8
 56 154.8 133.6 173.6



#36
 4-Chloro-3-methylphenol
 Concen: 40.006 ng
 RT: 8.634 min Scan# 1112
 Delta R.T. -0.006 min
 Lab File: BF141480.D
 Acq: 06 Feb 2025 15:03

Tgt Ion:107 Resp: 235824
 Ion Ratio Lower Upper
 107 100
 144 24.7 19.7 29.5
 142 75.6 60.8 91.2

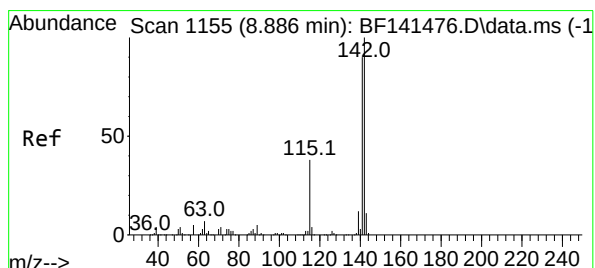
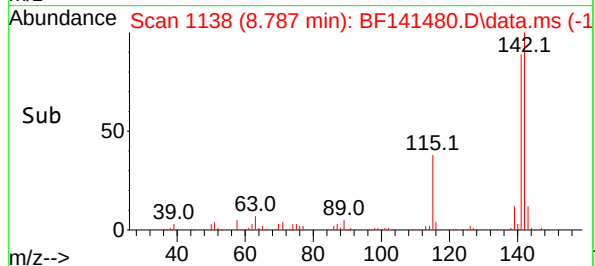
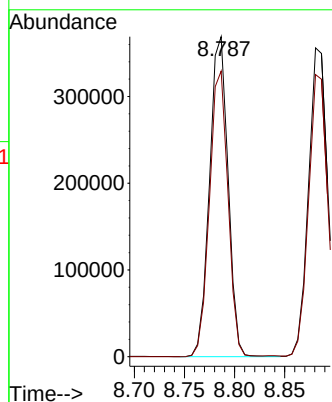
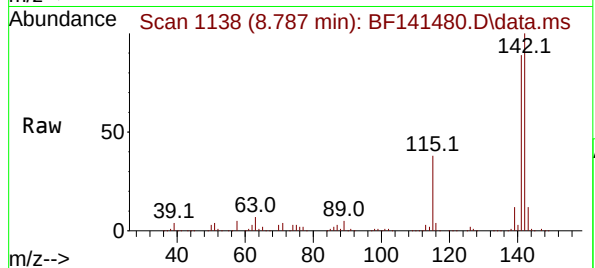




#37
2-Methylnaphthalene
Concen: 38.710 ng
RT: 8.787 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

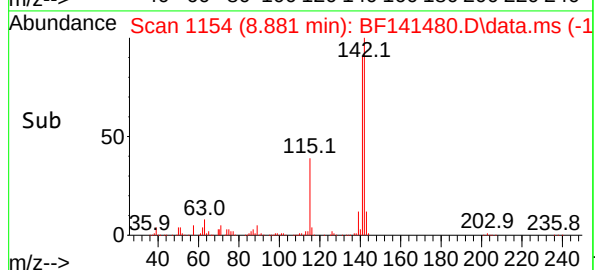
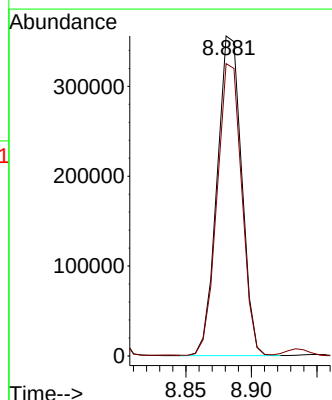
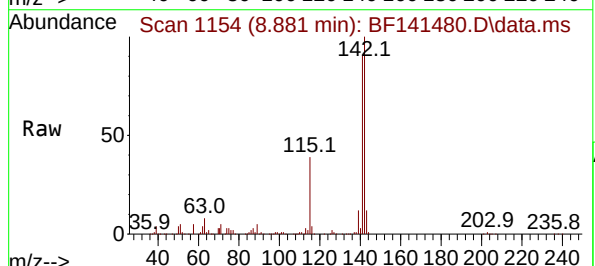
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

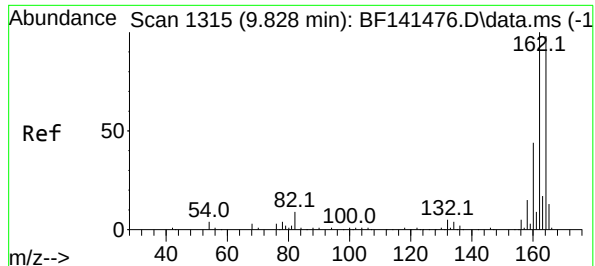
Tgt Ion:142 Resp: 475273
Ion Ratio Lower Upper
142 100
141 89.2 71.2 106.8



#38
1-Methylnaphthalene
Concen: 39.049 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:142 Resp: 464346
Ion Ratio Lower Upper
142 100
141 91.3 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

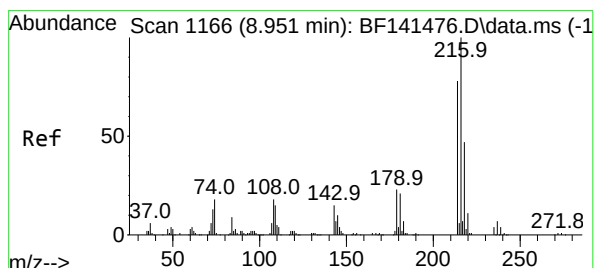
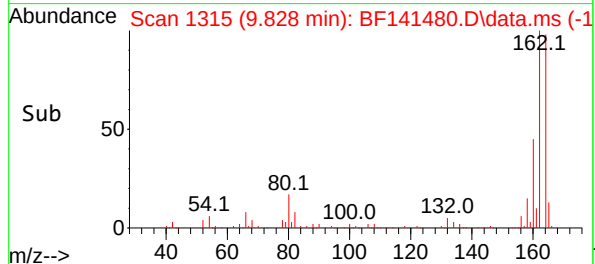
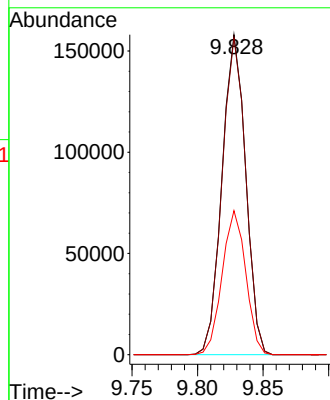
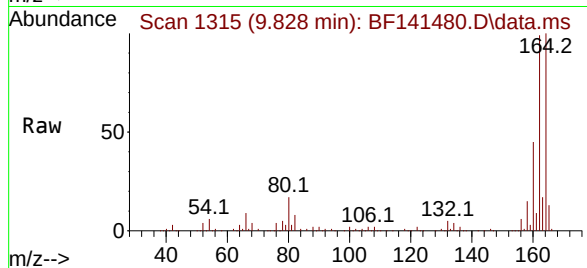
Tgt Ion:164 Resp: 197991

Ion Ratio Lower Upper

164 100

162 99.1 81.3 121.9

160 45.0 35.9 53.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 40.182 ng

RT: 8.951 min Scan# 1166

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Tgt Ion:216 Resp: 230166

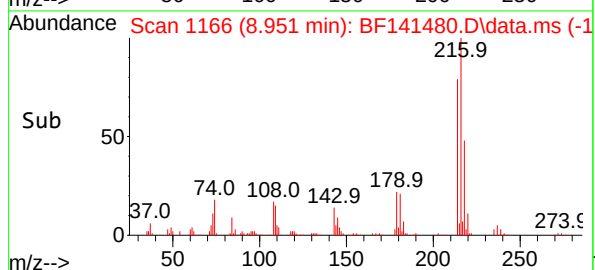
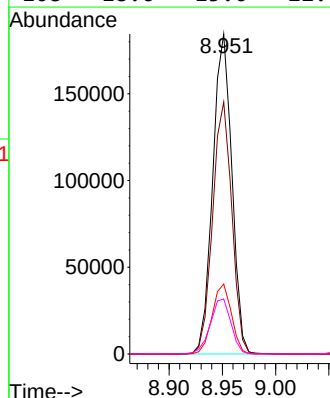
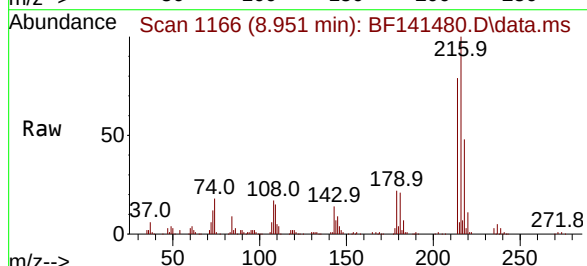
Ion Ratio Lower Upper

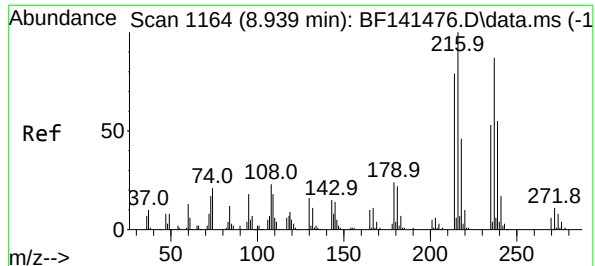
216 100

214 78.9 62.3 93.5

179 22.1 18.0 27.0

108 18.6 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 38.754 ng

RT: 8.934 min Scan# 1163

Delta R.T. -0.005 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

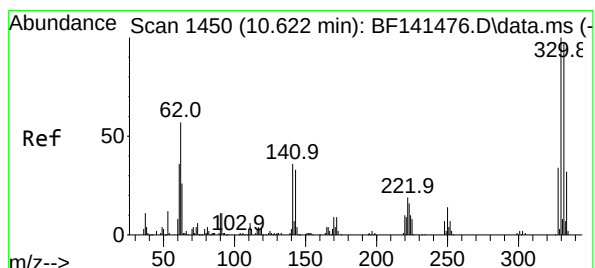
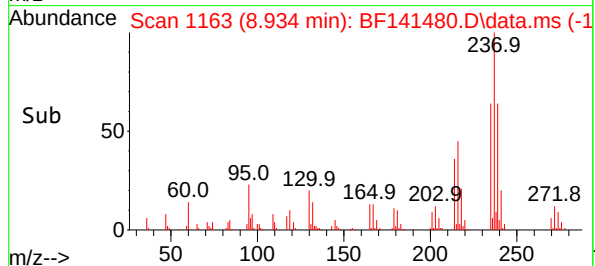
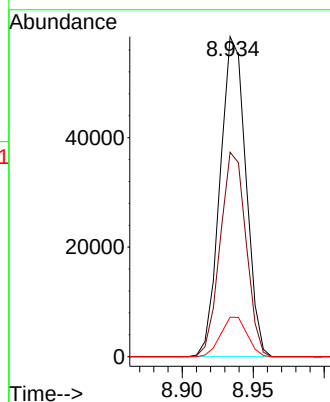
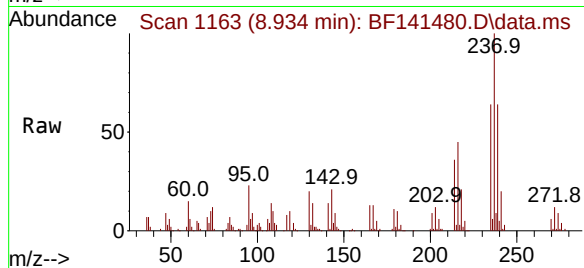
Tgt Ion:237 Resp: 73834

Ion Ratio Lower Upper

237 100

235 63.9 41.4 81.4

272 12.4 0.0 32.4



#42

2,4,6-Tribromophenol

Concen: 79.490 ng

RT: 10.622 min Scan# 1450

Delta R.T. -0.005 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

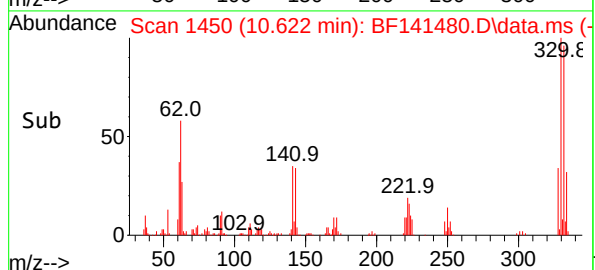
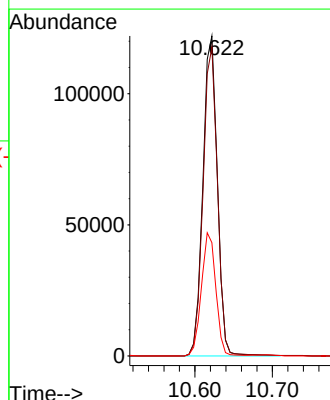
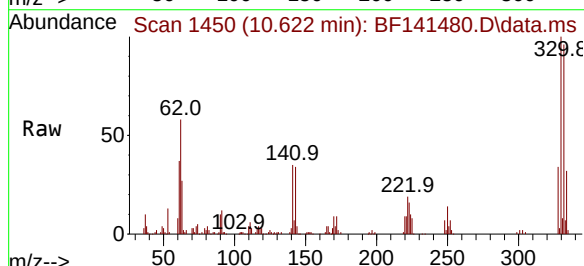
Tgt Ion:330 Resp: 158098

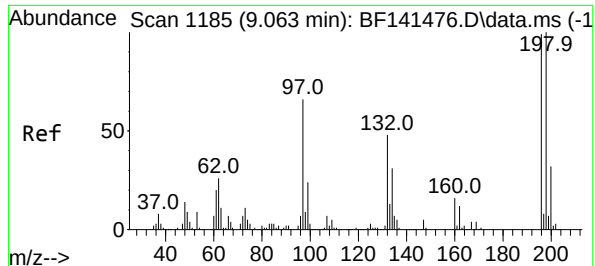
Ion Ratio Lower Upper

330 100

332 96.5 78.5 117.7

141 38.4 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 39.914 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141480.D

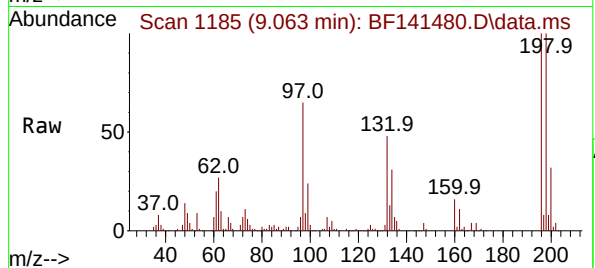
Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625



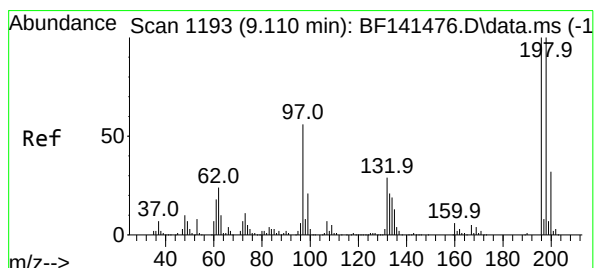
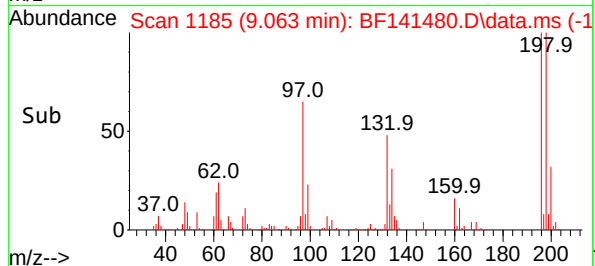
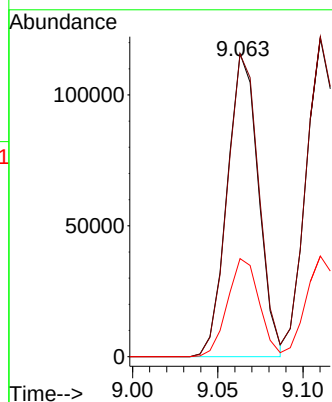
Tgt Ion:196 Resp: 147770

Ion Ratio Lower Upper

196 100

198 99.8 80.6 121.0

200 32.3 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 40.108 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Tgt Ion:196 Resp: 160926

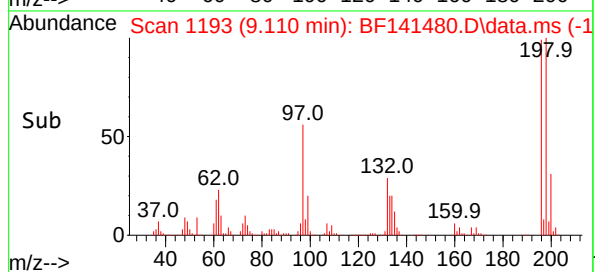
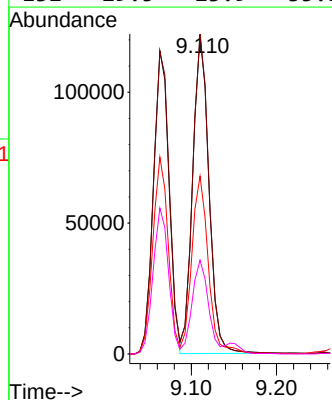
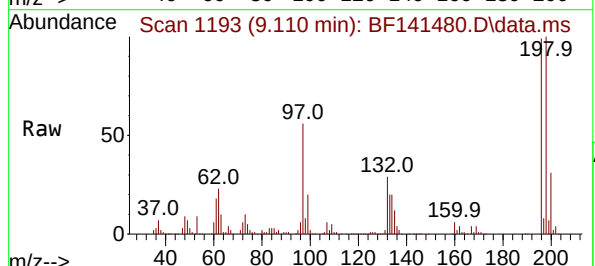
Ion Ratio Lower Upper

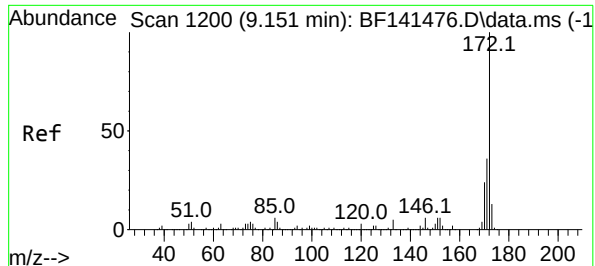
196 100

198 100.5 79.8 119.8

97 55.8 44.8 67.2

132 29.5 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 78.786 ng

RT: 9.151 min Scan# 1200

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

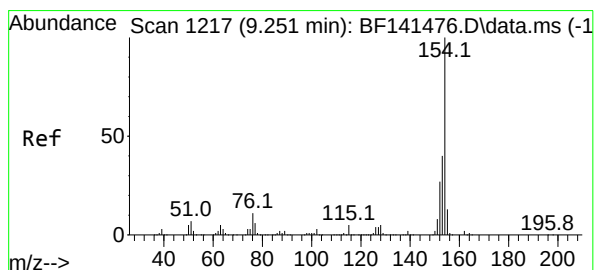
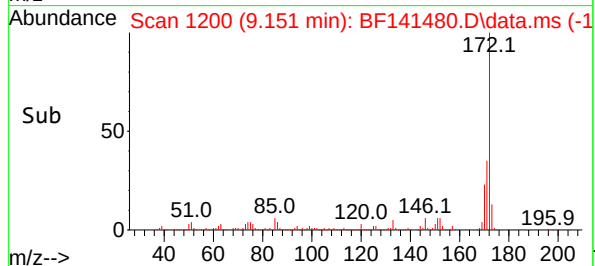
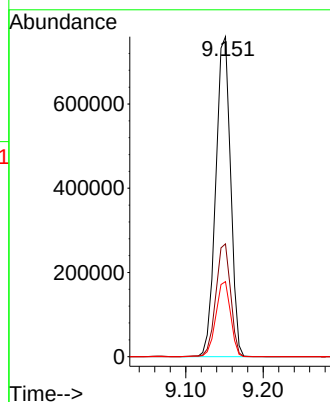
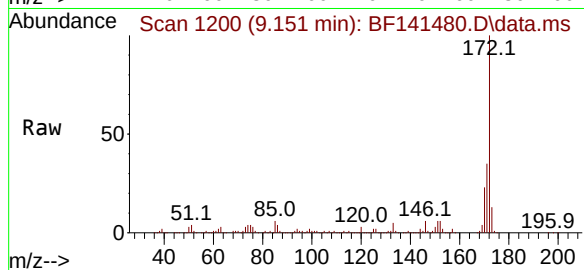
Tgt Ion:172 Resp: 1012492

Ion Ratio Lower Upper

172 100

171 35.3 28.7 43.1

170 23.4 18.9 28.3



#46

1,1'-Biphenyl

Concen: 39.519 ng

RT: 9.251 min Scan# 1217

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

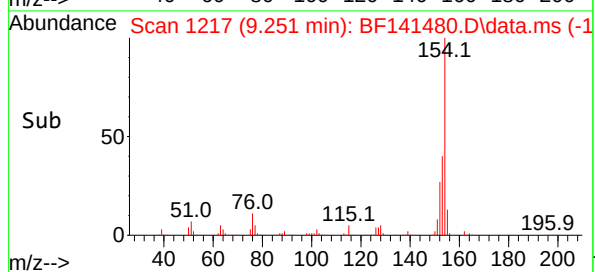
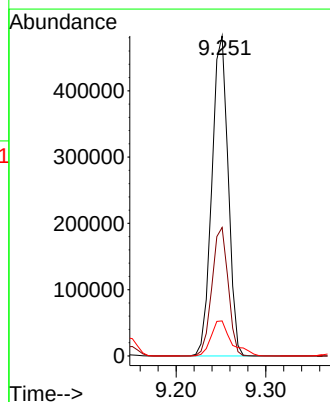
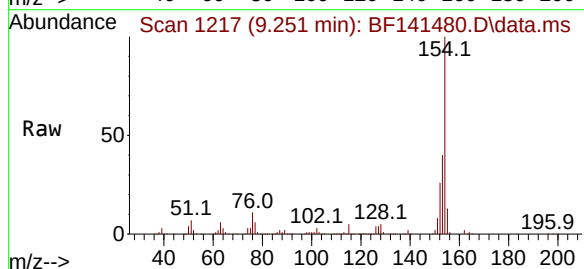
Tgt Ion:154 Resp: 606611

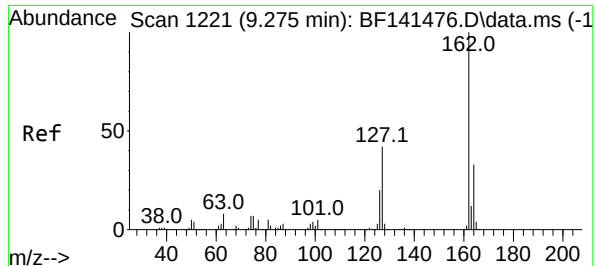
Ion Ratio Lower Upper

154 100

153 40.1 20.4 60.4

76 10.9 0.0 30.8

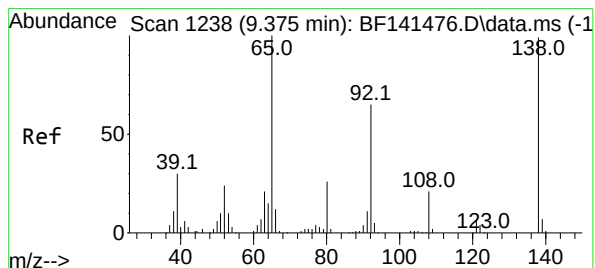
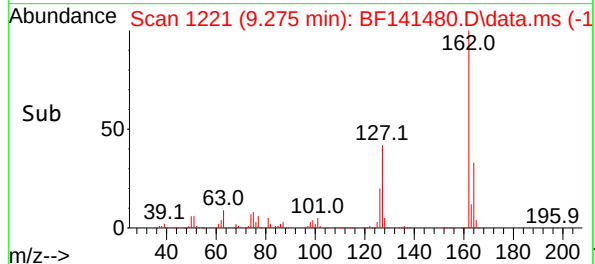
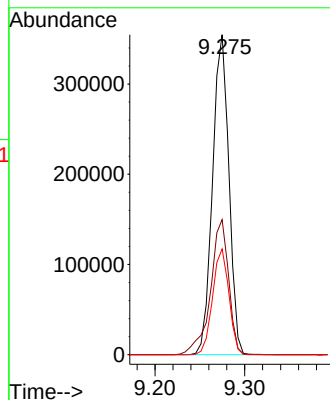
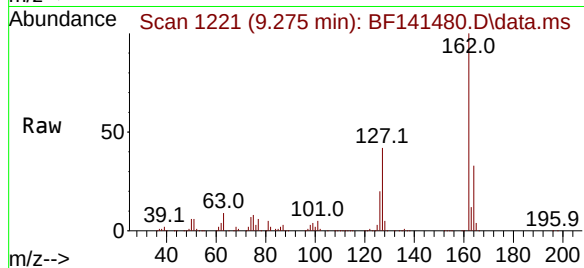




#47
2-Chloronaphthalene
Concen: 39.453 ng
RT: 9.275 min Scan# 1221
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

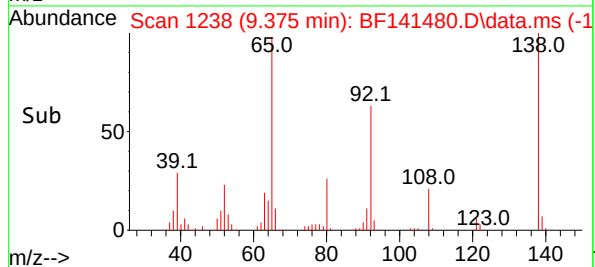
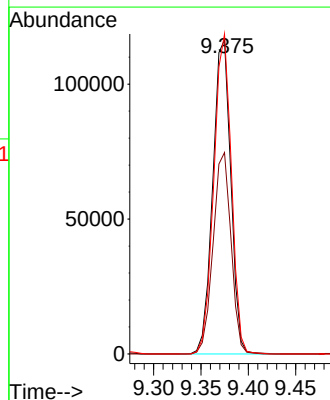
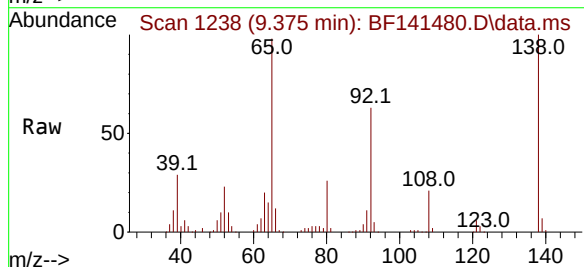
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

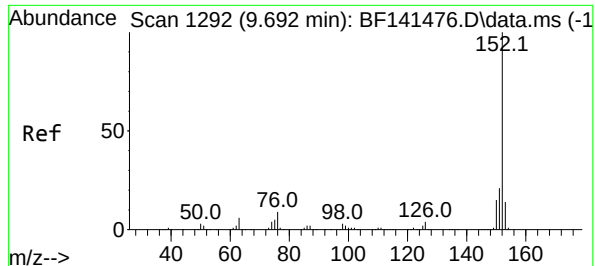
Tgt Ion:162 Resp: 447817
Ion Ratio Lower Upper
162 100
127 42.2 34.1 51.1
164 33.1 26.3 39.5



#48
2-Nitroaniline
Concen: 40.451 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 65 Resp: 154092
Ion Ratio Lower Upper
65 100
92 64.2 52.2 78.2
138 101.9 79.5 119.3





#49

Acenaphthylene

Concen: 39.734 ng

RT: 9.687 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

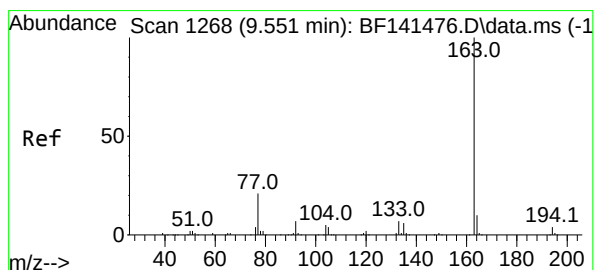
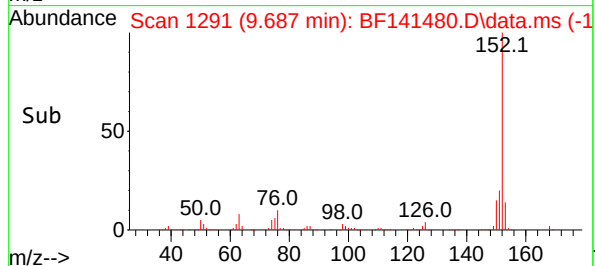
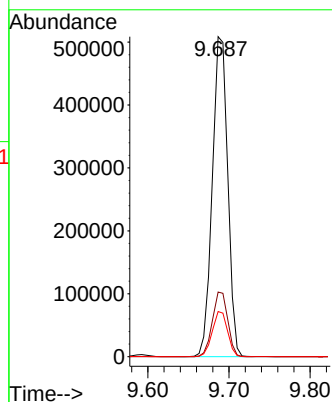
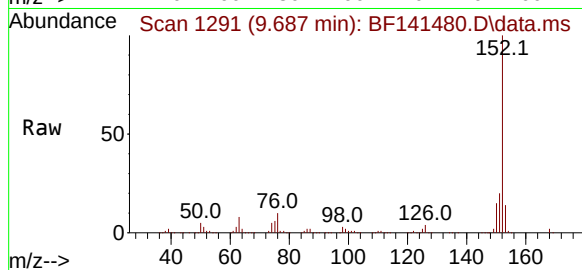
Tgt Ion:152 Resp: 670833

Ion Ratio Lower Upper

152 100

151 20.2 16.4 24.6

153 14.1 10.9 16.3



#50

Dimethylphthalate

Concen: 39.488 ng

RT: 9.551 min Scan# 1268

Delta R.T. -0.011 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

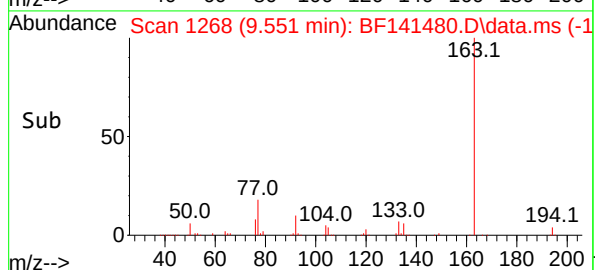
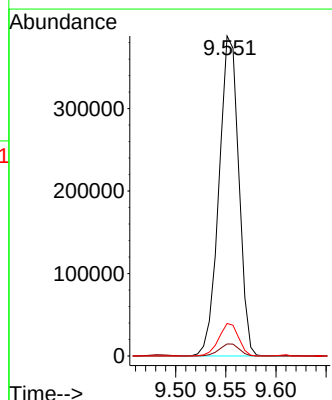
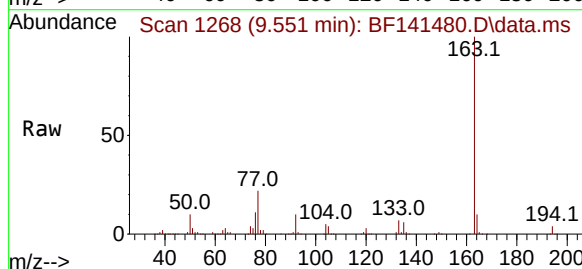
Tgt Ion:163 Resp: 530769

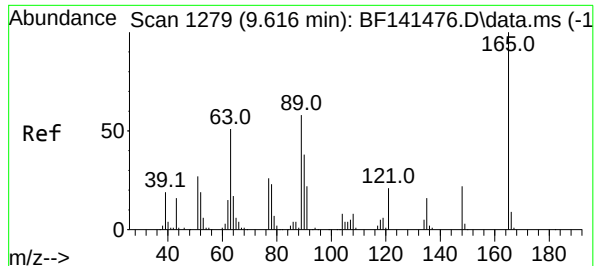
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

164 10.2 7.9 11.9





#51

2,6-Dinitrotoluene

Concen: 39.965 ng

RT: 9.616 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

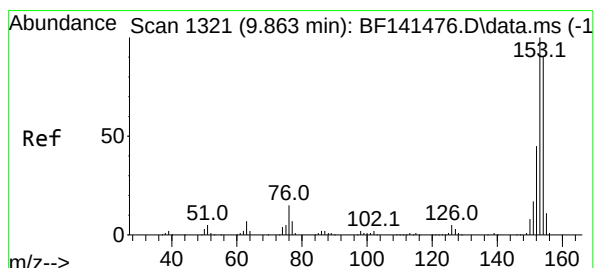
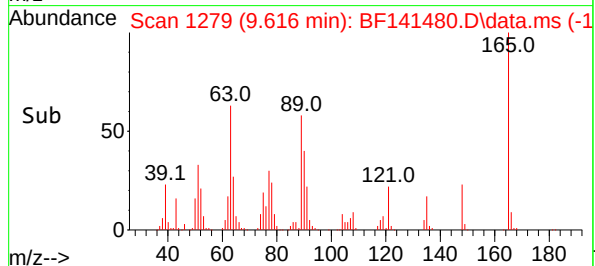
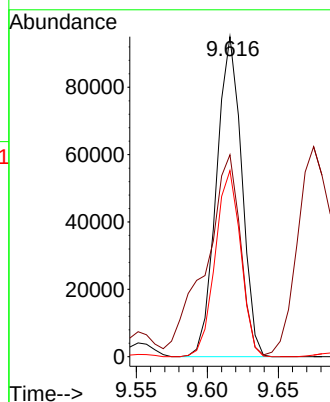
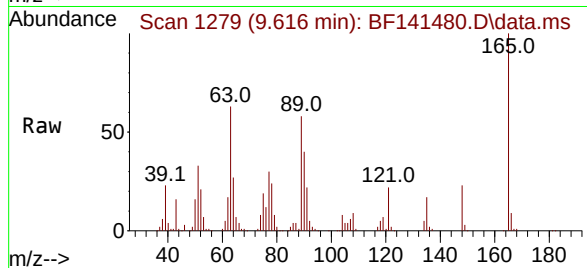
Tgt Ion:165 Resp: 117431

Ion Ratio Lower Upper

165 100

63 63.1 49.4 74.0

89 58.2 46.5 69.7



#52

Acenaphthene

Concen: 39.893 ng

RT: 9.863 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

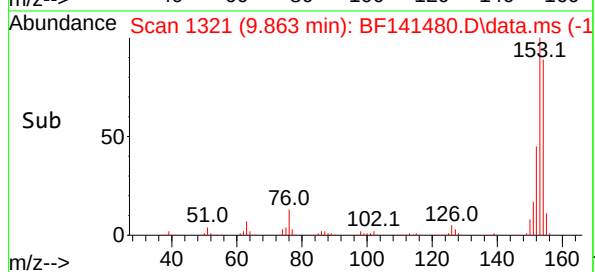
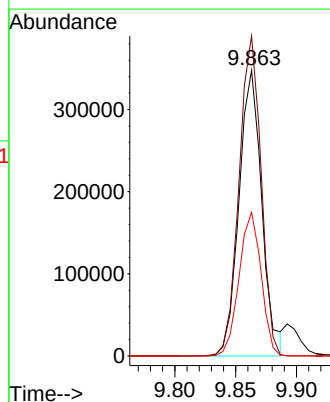
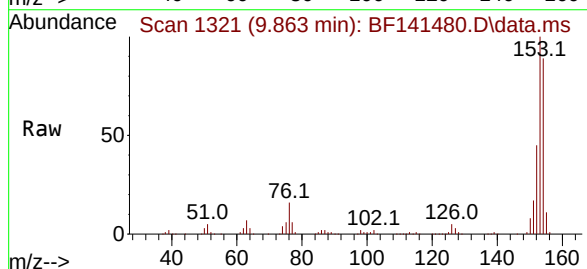
Tgt Ion:154 Resp: 452794

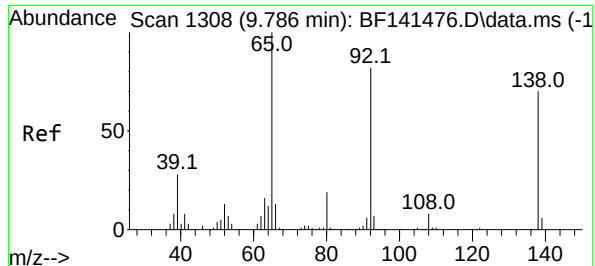
Ion Ratio Lower Upper

154 100

153 112.0 89.2 133.8

152 50.2 39.8 59.8





#53

3-Nitroaniline

Concen: 40.463 ng

RT: 9.787 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

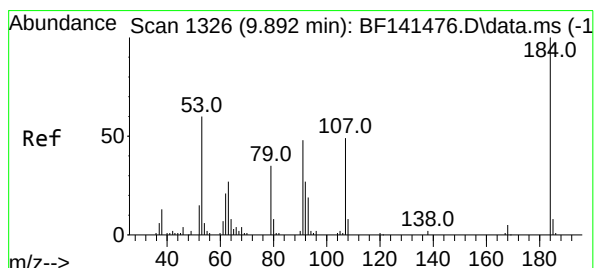
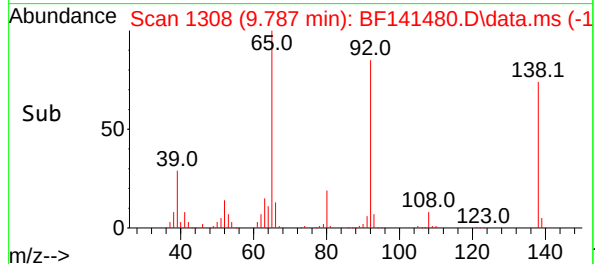
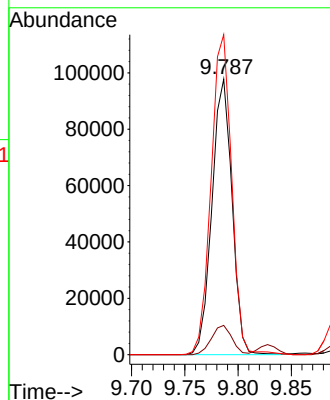
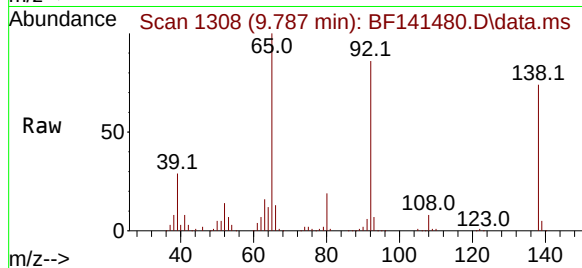
Tgt Ion:138 Resp: 127965

Ion Ratio Lower Upper

138 100

108 10.7 9.0 13.4

92 116.2 93.7 140.5



#54

2,4-Dinitrophenol

Concen: 42.639 ng

RT: 9.892 min Scan# 1326

Delta R.T. -0.012 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

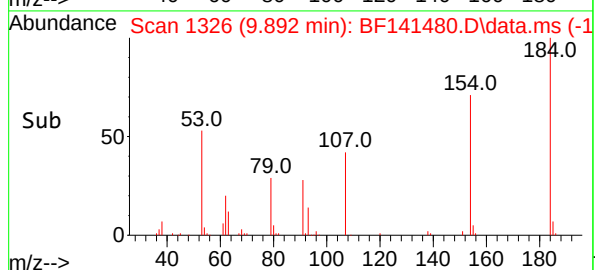
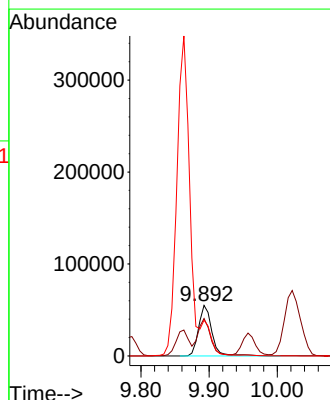
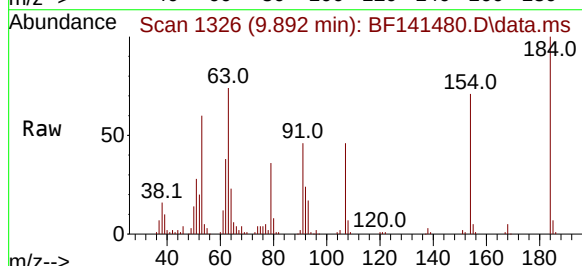
Tgt Ion:184 Resp: 74461

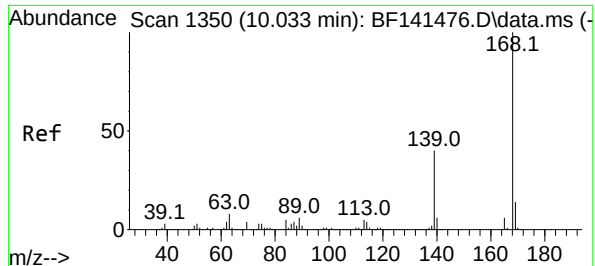
Ion Ratio Lower Upper

184 100

63 74.2 61.0 91.6

154 71.0 59.9 89.9





#55

Dibenzenofuran

Concen: 39.860 ng

RT: 10.034 min Scan# 1350

Delta R.T. -0.005 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

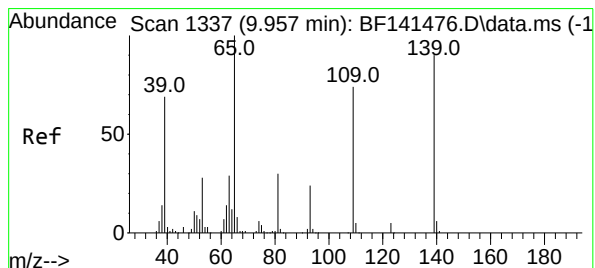
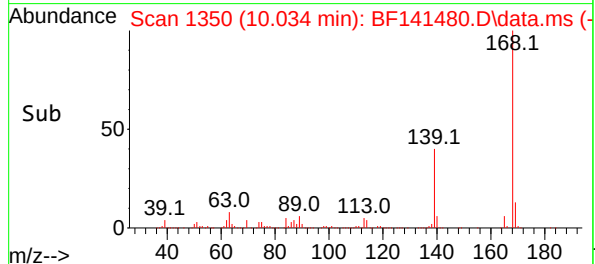
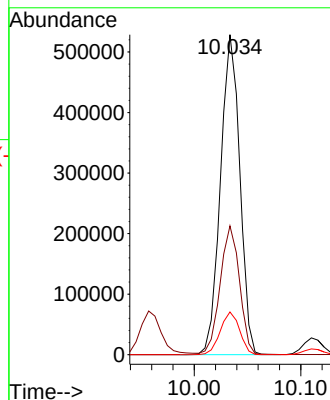
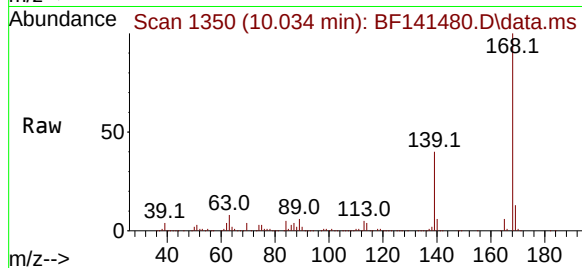
Tgt Ion:168 Resp: 664069

Ion Ratio Lower Upper

168 100

139 40.2 32.7 49.1

169 13.4 10.8 16.2



#56

4-Nitrophenol

Concen: 42.166 ng

RT: 9.957 min Scan# 1337

Delta R.T. -0.012 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

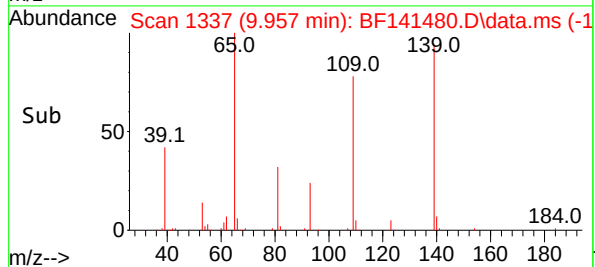
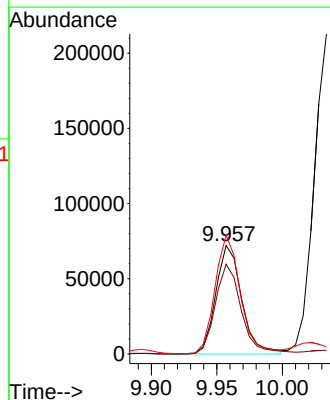
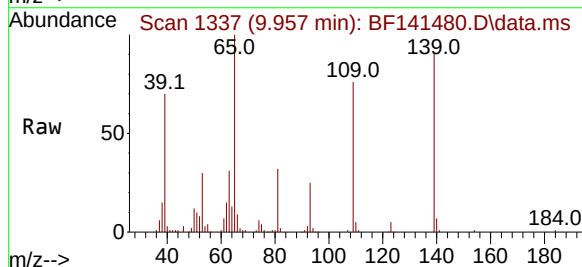
Tgt Ion:139 Resp: 98990

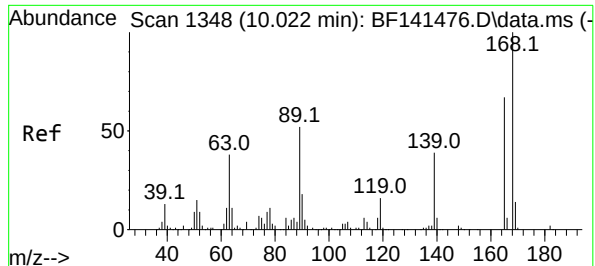
Ion Ratio Lower Upper

139 100

109 82.7 62.0 102.0

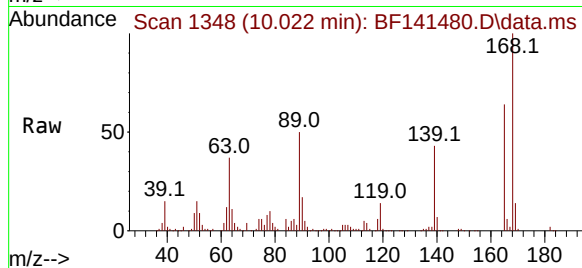
65 109.5 91.2 131.2



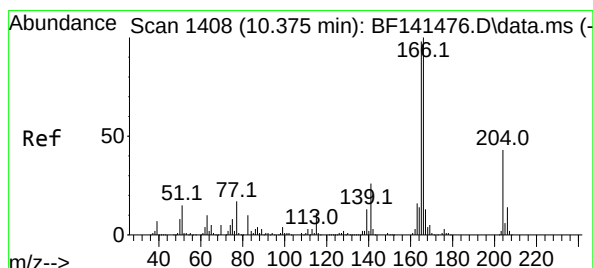
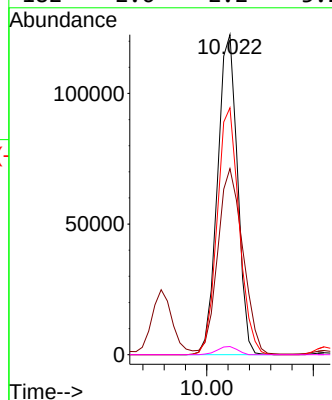
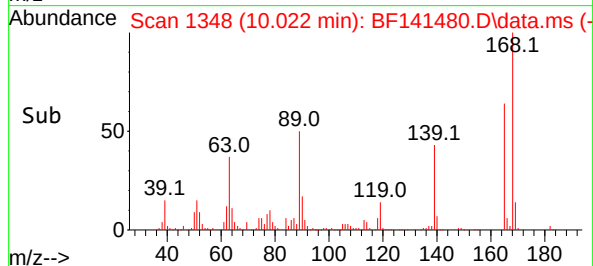


#57
2,4-Dinitrotoluene
Concen: 40.633 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

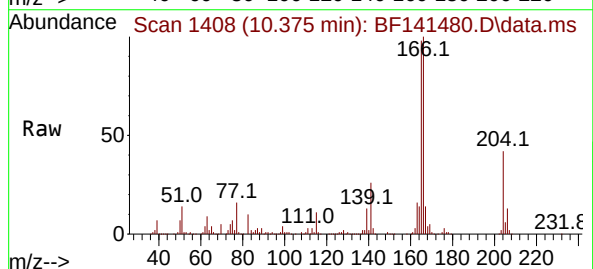
Instrument :
BNA_F
ClientSampleId :
ICVBF020625



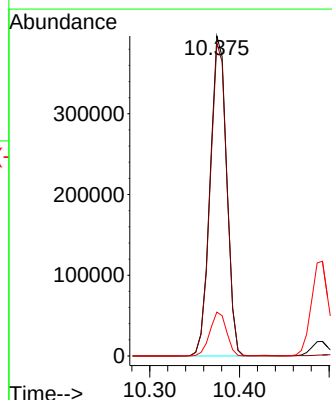
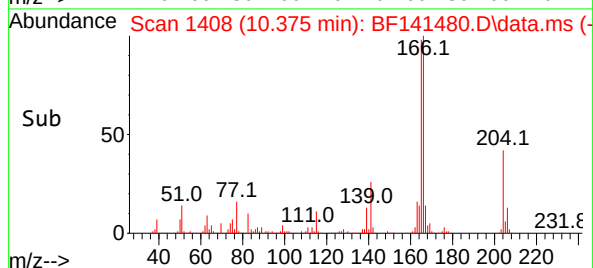
Tgt Ion:165 Resp: 158941
Ion Ratio Lower Upper
165 100
63 58.1 46.4 69.6
89 77.2 61.8 92.6
182 2.6 2.2 3.2

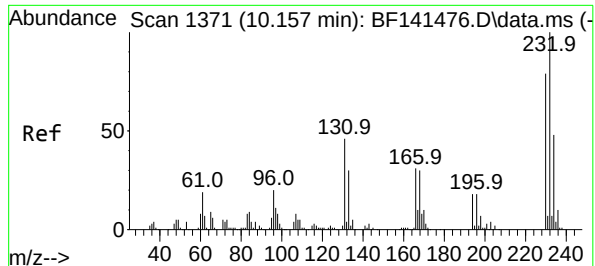


#58
Fluorene
Concen: 39.501 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03



Tgt Ion:166 Resp: 508833
Ion Ratio Lower Upper
166 100
165 97.8 78.2 117.2
167 13.7 10.7 16.1

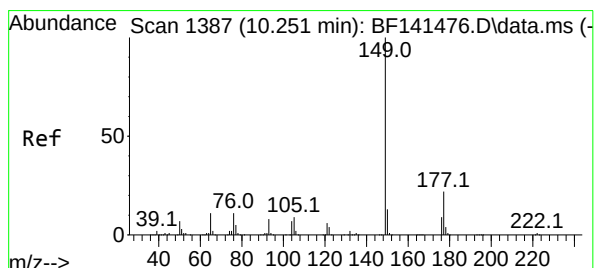
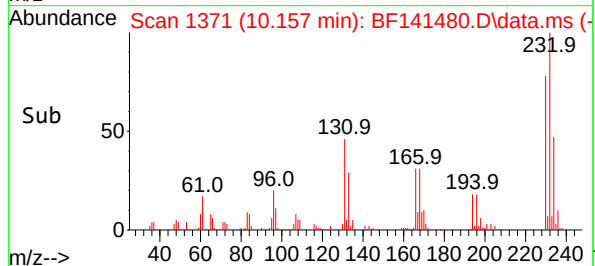
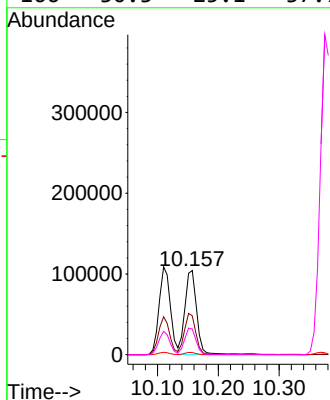
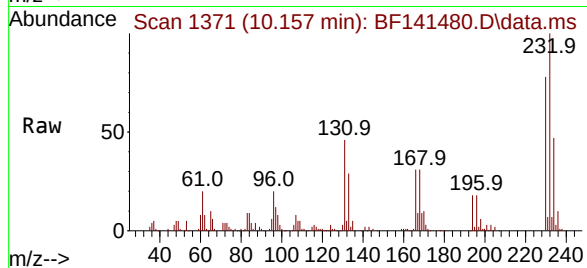




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.438 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

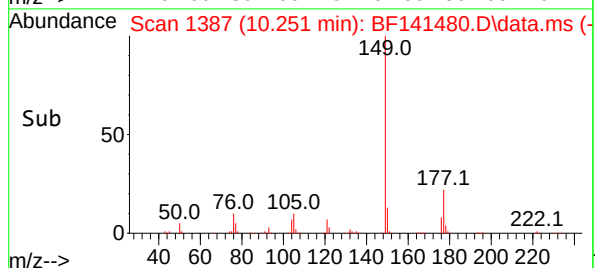
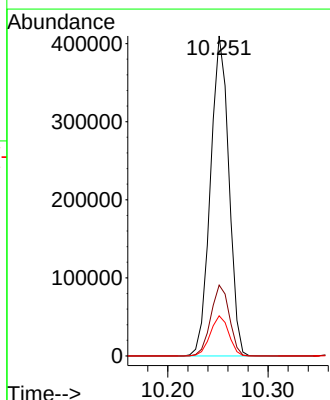
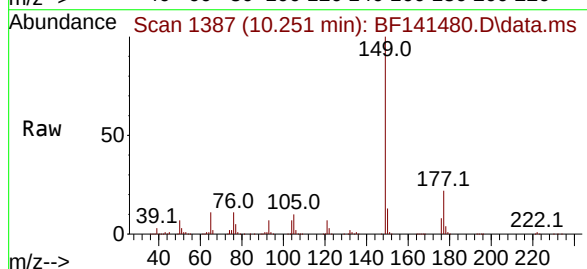
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

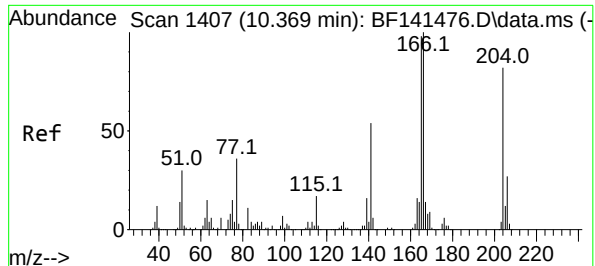
Tgt Ion:232 Resp: 139688
Ion Ratio Lower Upper
232 100
131 46.8 39.2 58.8
130 2.6 2.1 3.1
166 30.3 25.1 37.7



#60
Diethylphthalate
Concen: 39.467 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 521933
Ion Ratio Lower Upper
149 100
177 22.2 17.8 26.6
150 12.6 10.1 15.1

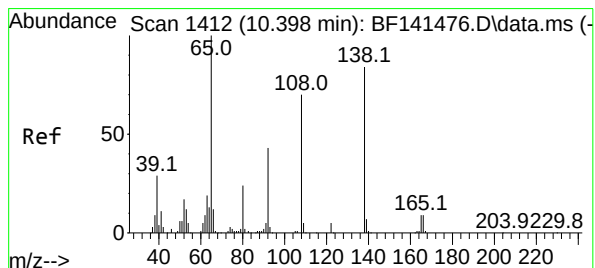
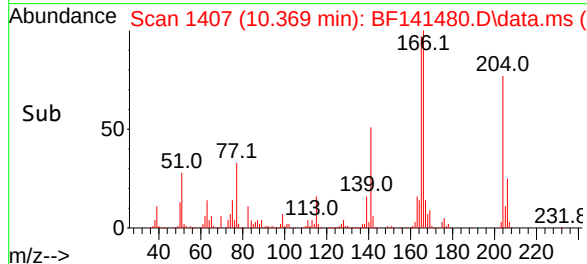
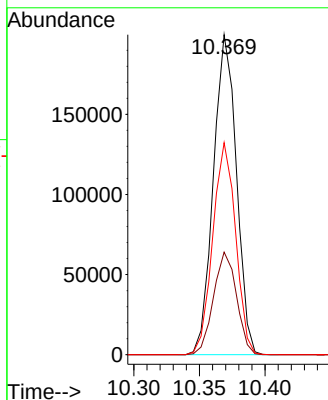
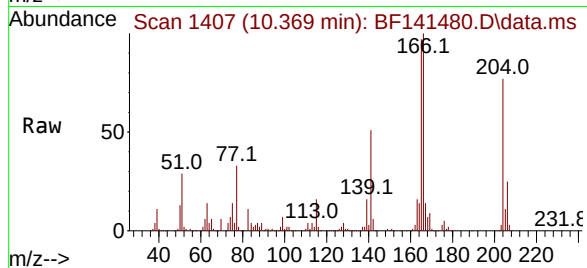




#61
4-Chlorophenyl-phenylether
Concen: 39.318 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

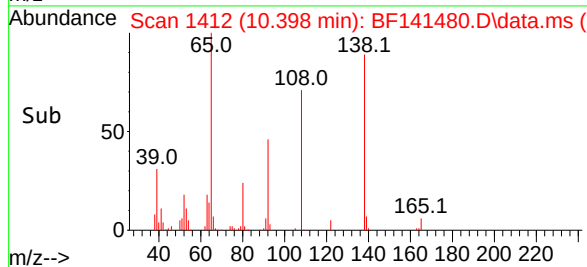
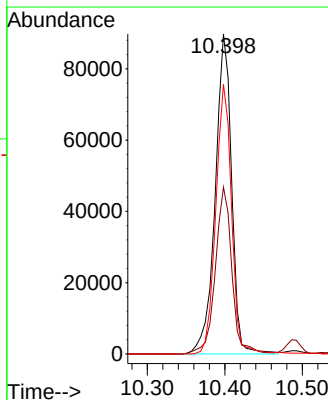
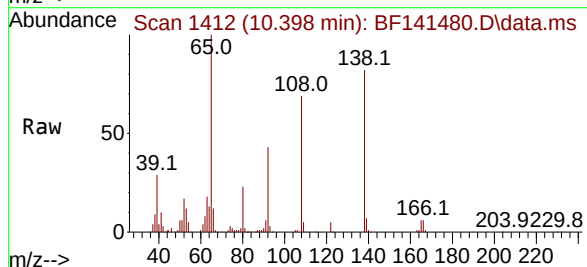
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

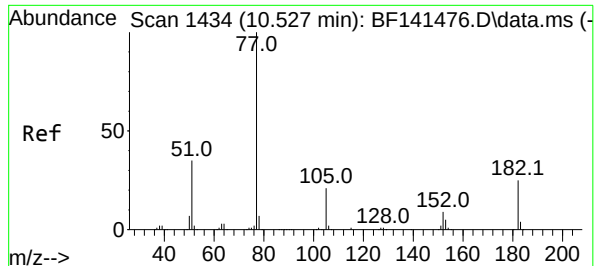
Tgt Ion:204 Resp: 243659
Ion Ratio Lower Upper
204 100
206 32.1 26.6 40.0
141 66.2 51.9 77.9



#62
4-Nitroaniline
Concen: 41.124 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:138 Resp: 132059
Ion Ratio Lower Upper
138 100
92 52.1 31.3 71.3
108 84.3 63.7 103.7

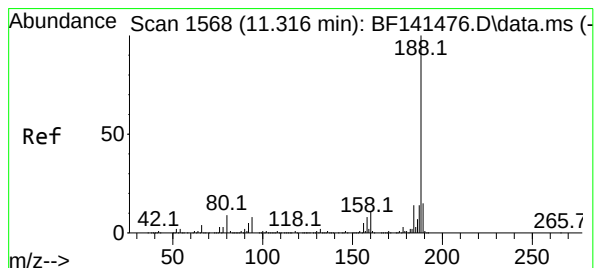
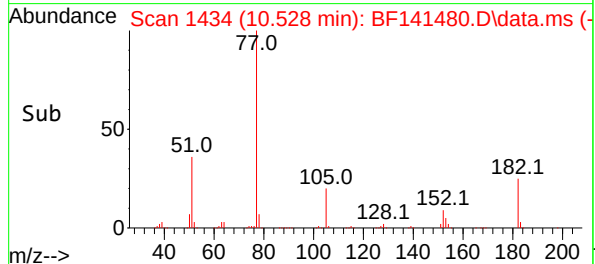
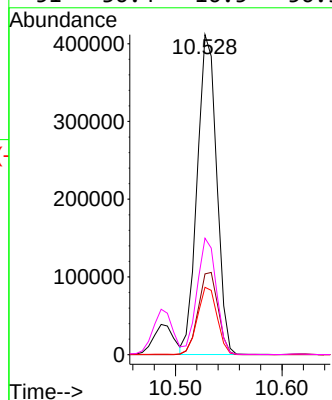
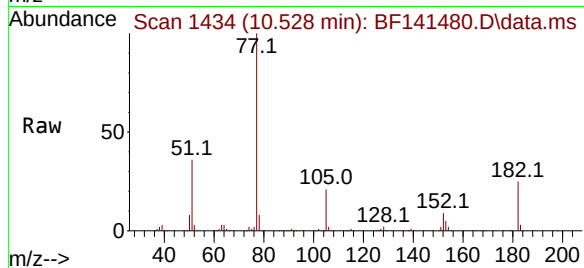




#63
Azobenzene
Concen: 39.759 ng
RT: 10.528 min Scan# 1434
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

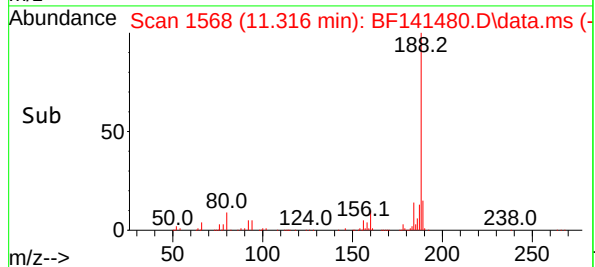
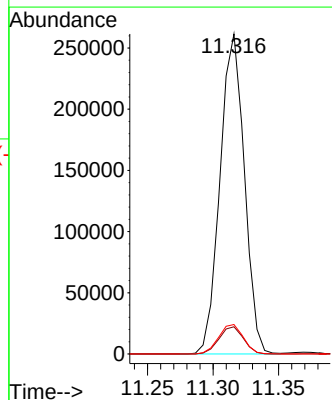
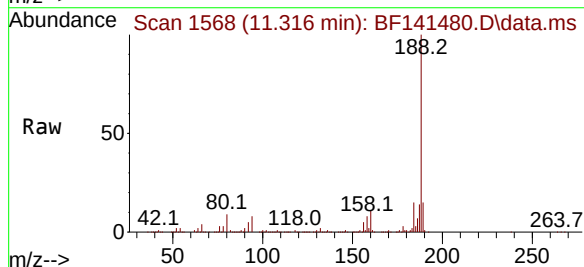
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

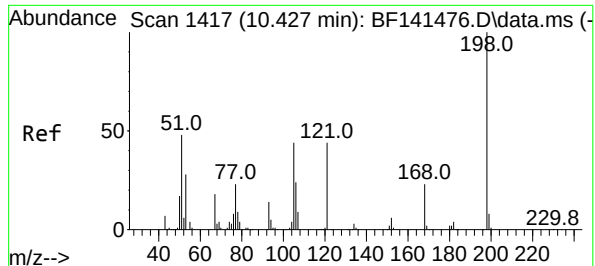
Tgt Ion: 77 Resp: 522705
Ion Ratio Lower Upper
77 100
182 25.2 4.7 44.7
105 21.0 0.4 40.4
51 36.4 16.5 56.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 188 Resp: 337289
Ion Ratio Lower Upper
188 100
94 8.5 6.6 10.0
80 9.2 7.3 10.9

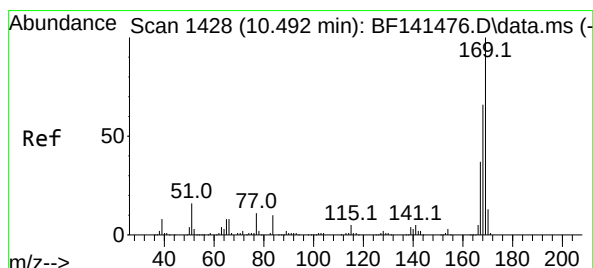
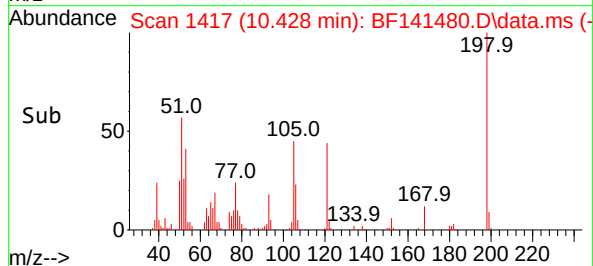
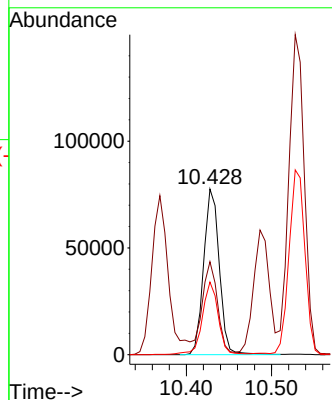
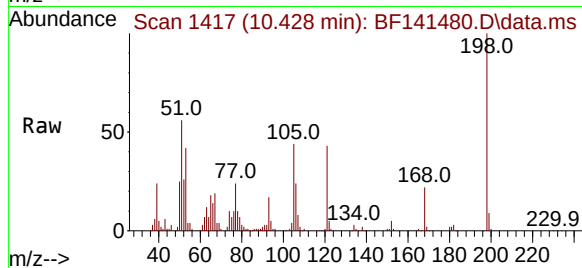




#65
4,6-Dinitro-2-methylphenol
Concen: 42.230 ng
RT: 10.428 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

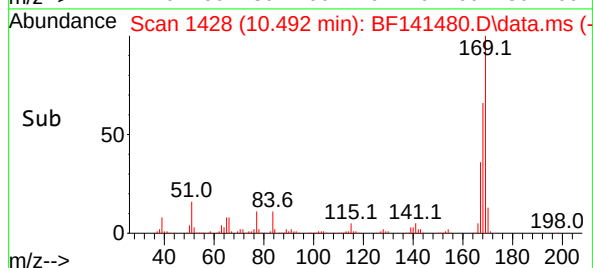
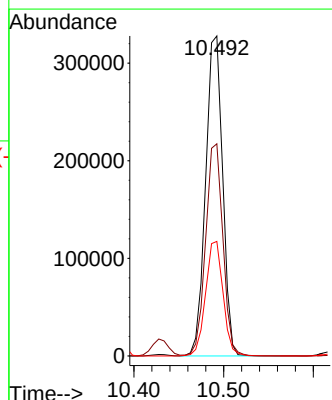
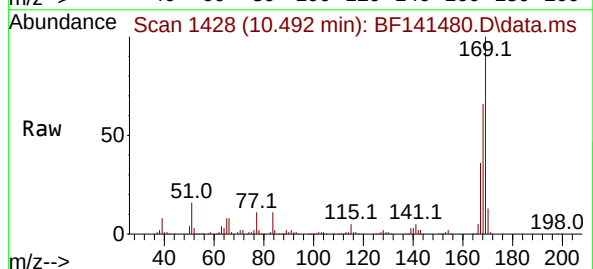
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

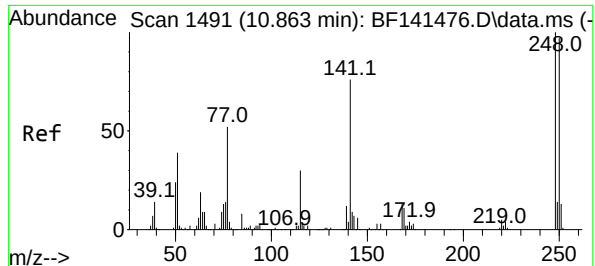
Tgt Ion	Ratio	Lower	Upper
198	100		
51	56.2	37.4	77.4
105	43.9	25.2	65.2



#66
n-Nitrosodiphenylamine
Concen: 40.040 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.3	79.9
167	35.8	29.4	44.2

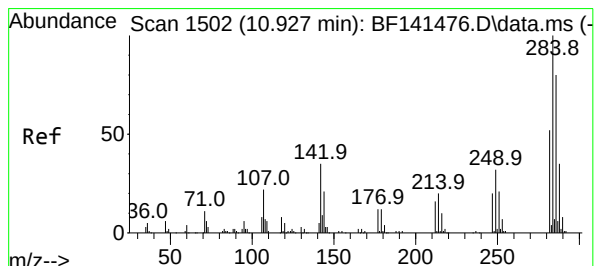
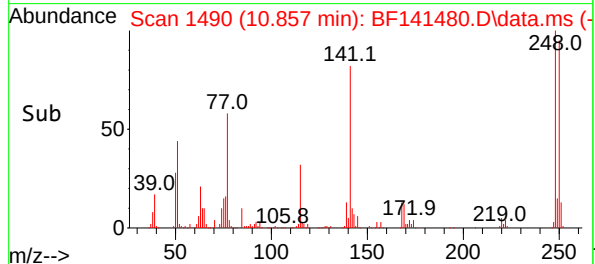
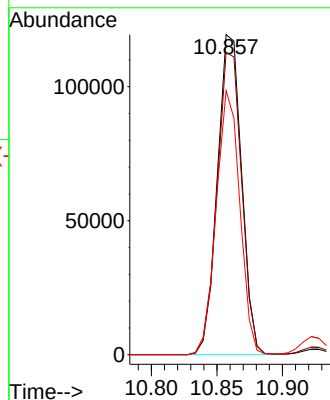
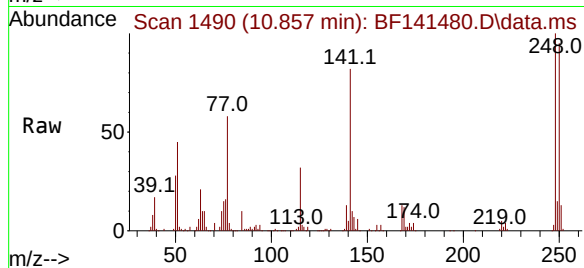




#67
4-Bromophenyl-phenylether
Concen: 40.864 ng
RT: 10.857 min Scan# 1490
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

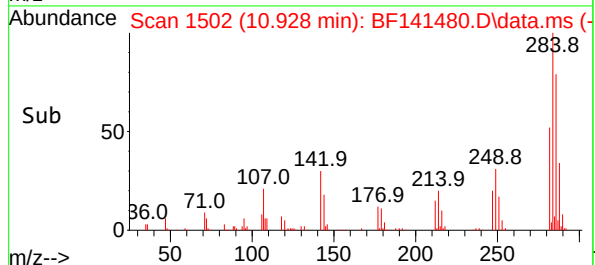
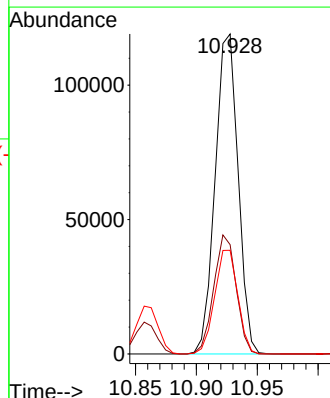
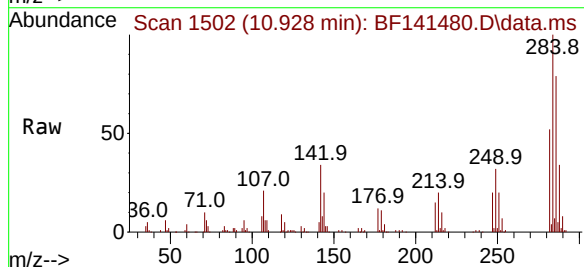
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

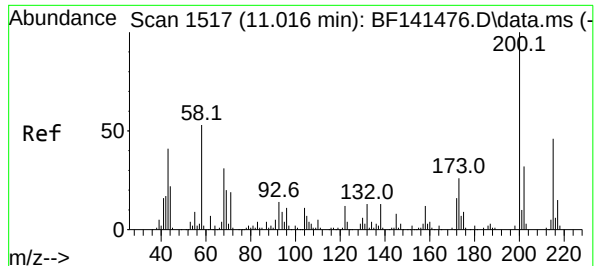
Tgt Ion:248 Resp: 154044
Ion Ratio Lower Upper
248 100
250 94.5 77.8 116.6
141 82.5 60.6 90.8



#68
Hexachlorobenzene
Concen: 40.208 ng
RT: 10.928 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:284 Resp: 156075
Ion Ratio Lower Upper
284 100
142 34.2 28.0 42.0
249 32.4 25.8 38.8

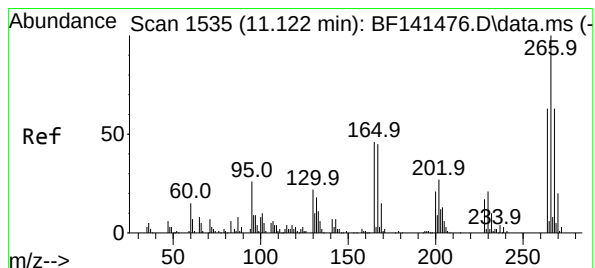
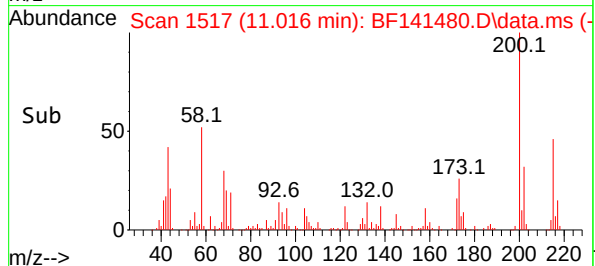
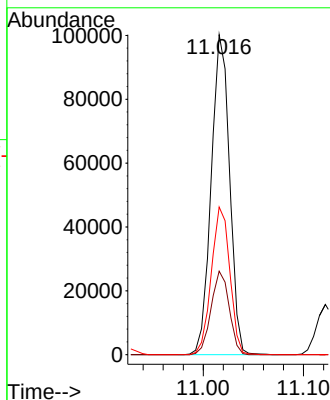
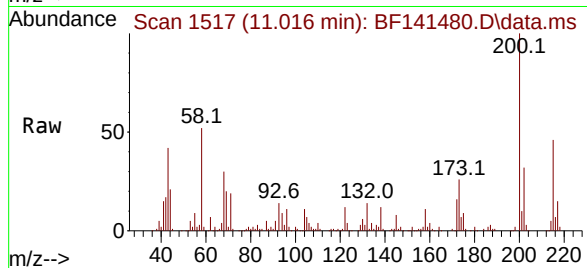




#69
Atrazine
Concen: 39.358 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

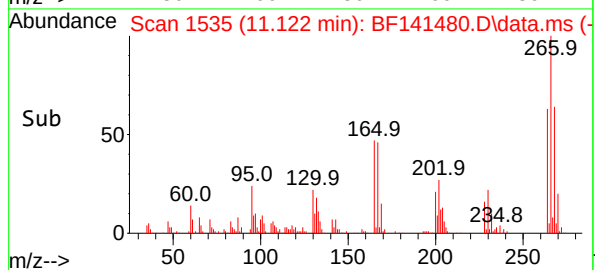
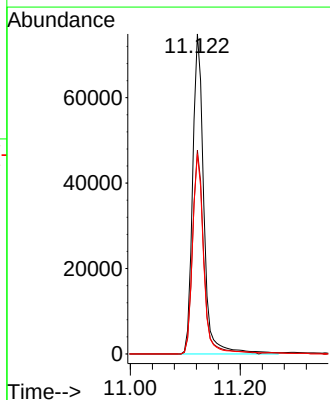
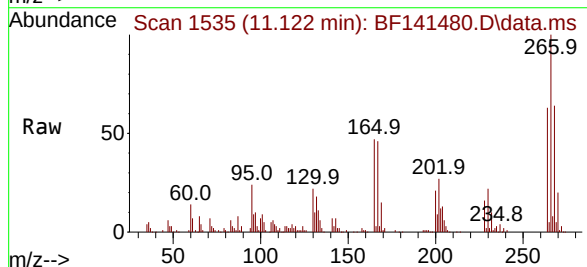
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

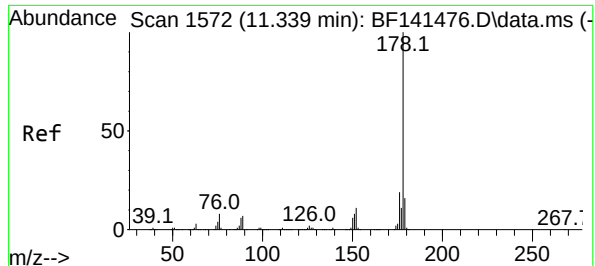
Tgt Ion:200 Resp: 127486
Ion Ratio Lower Upper
200 100
173 26.1 5.9 45.9
215 46.2 25.9 65.9



#70
Pentachlorophenol
Concen: 42.476 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:266 Resp: 105427
Ion Ratio Lower Upper
266 100
268 63.6 50.1 75.1
264 62.5 50.1 75.1

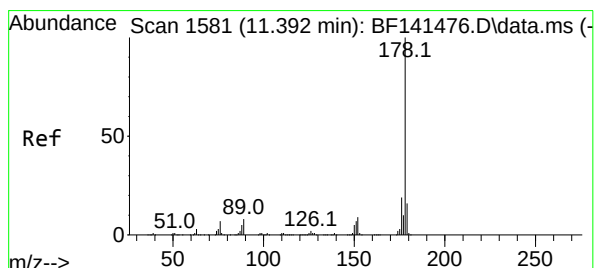
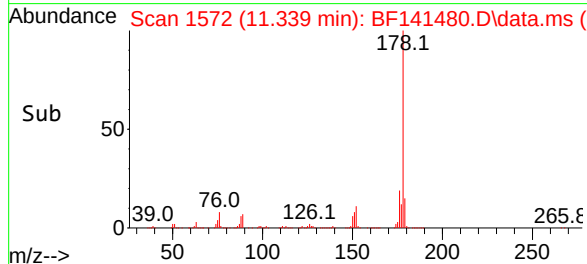
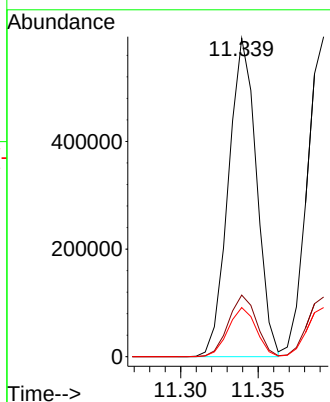
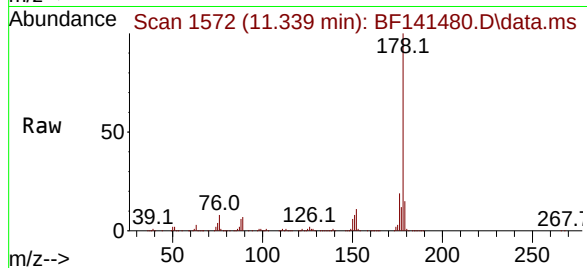




#71
Phenanthrene
Concen: 40.114 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

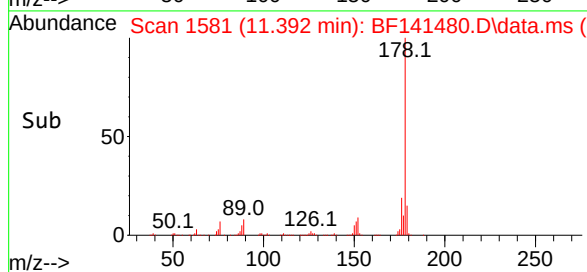
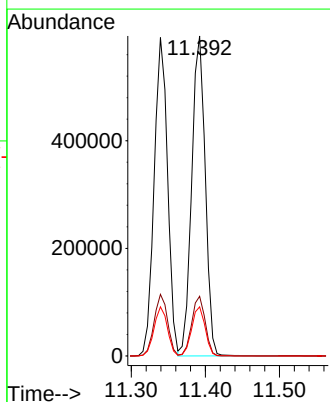
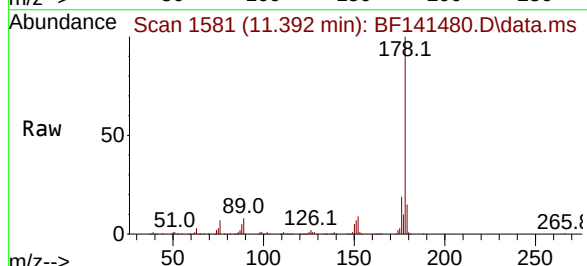
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

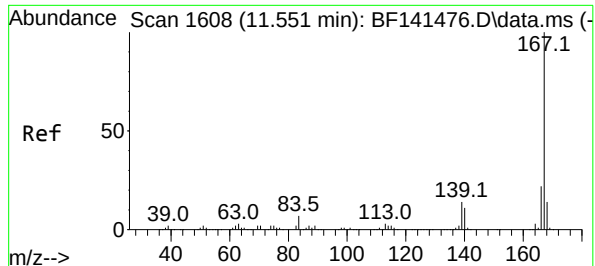
Tgt Ion:178 Resp: 744761
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.4 12.4 18.6



#72
Anthracene
Concen: 40.362 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:178 Resp: 753295
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.3 12.4 18.6

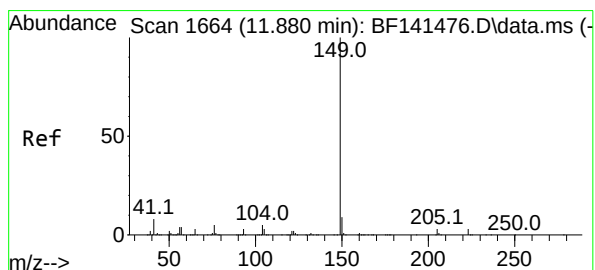
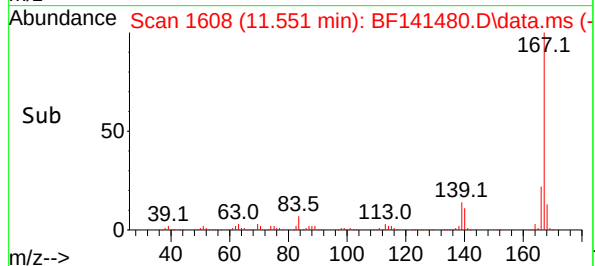
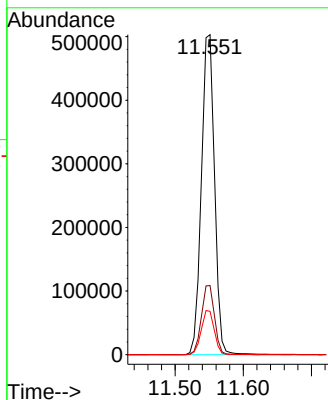
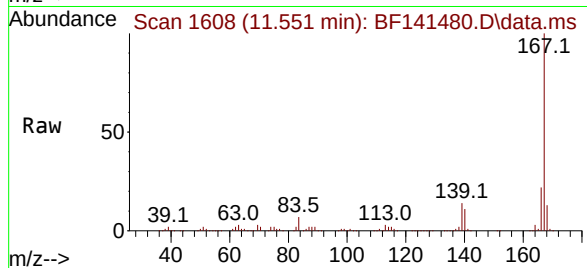




#73
Carbazole
Concen: 40.267 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

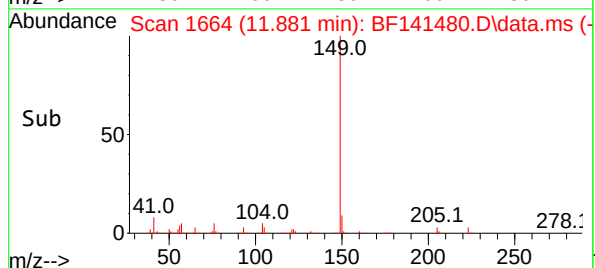
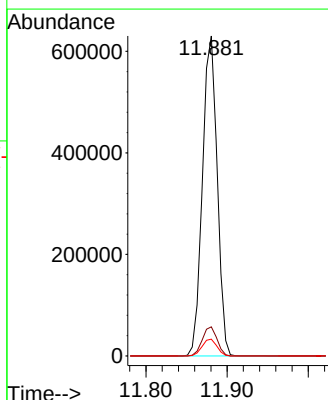
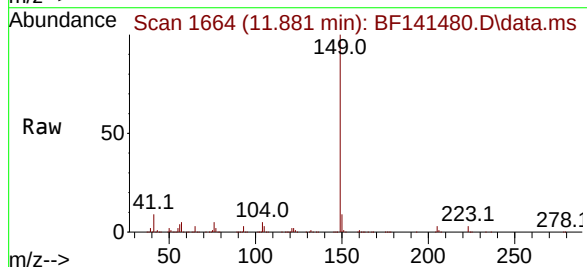
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

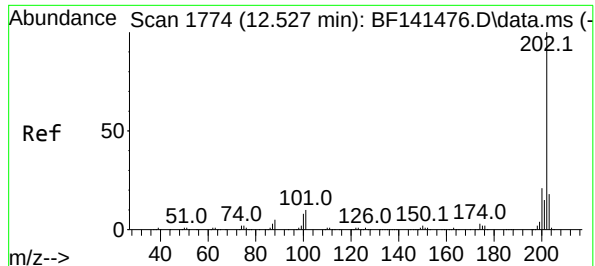
Tgt Ion:167 Resp: 676218
Ion Ratio Lower Upper
167 100
166 21.6 17.4 26.2
139 13.6 10.9 16.3



#74
Di-n-butylphthalate
Concen: 40.953 ng
RT: 11.881 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 794101
Ion Ratio Lower Upper
149 100
150 9.1 7.4 11.0
104 5.2 4.2 6.2

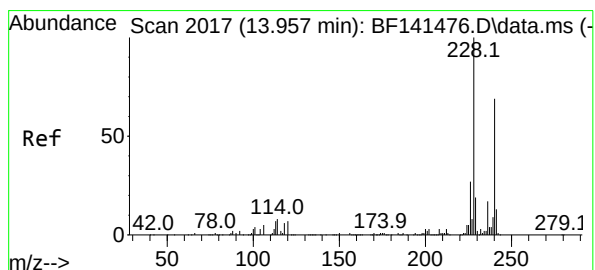
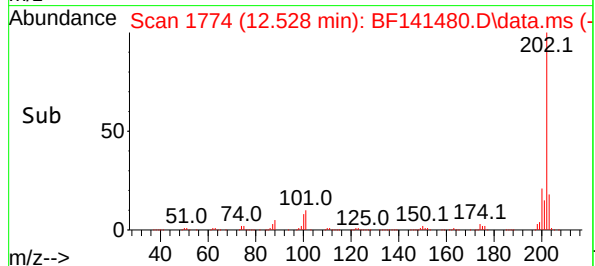
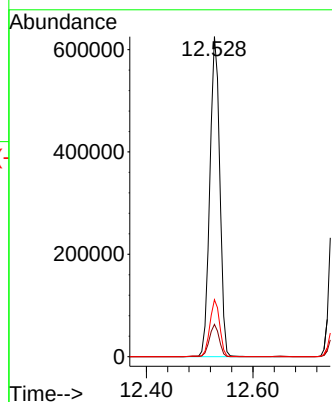
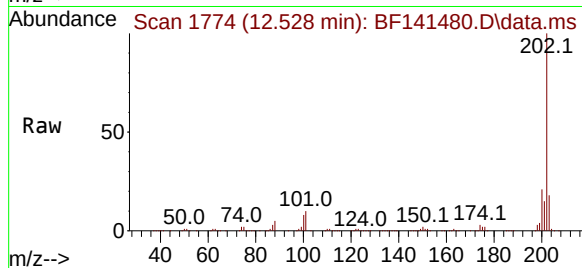




#75
Fluoranthene
Concen: 41.011 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

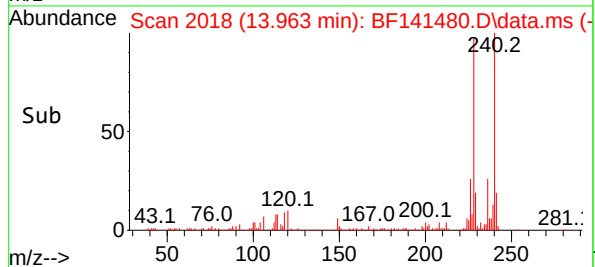
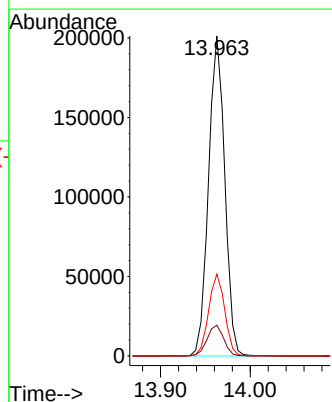
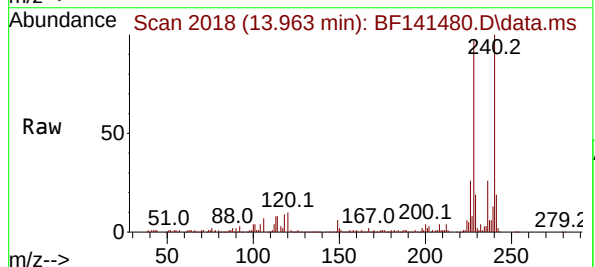
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

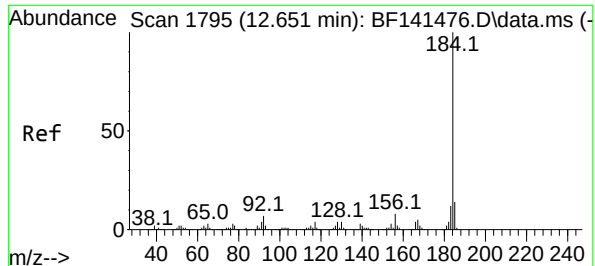
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.8	0.0	37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.6	19.8	29.8

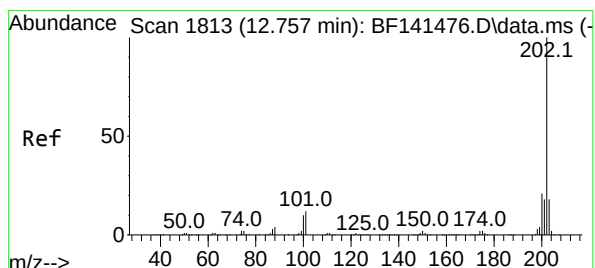
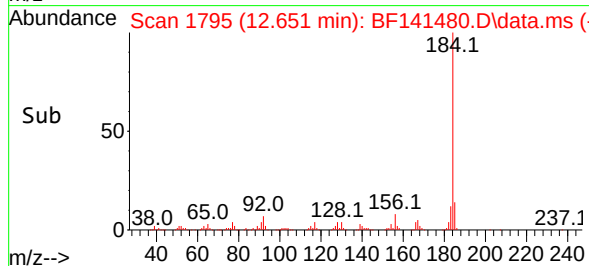
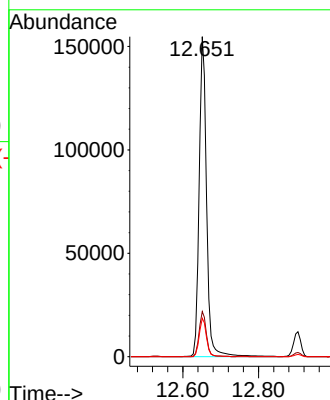
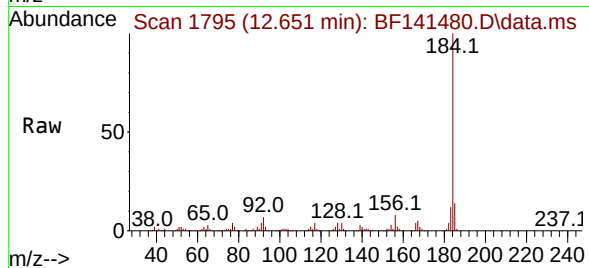




#77
Benzidine
Concen: 38.017 ng
RT: 12.651 min Scan# 1795
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

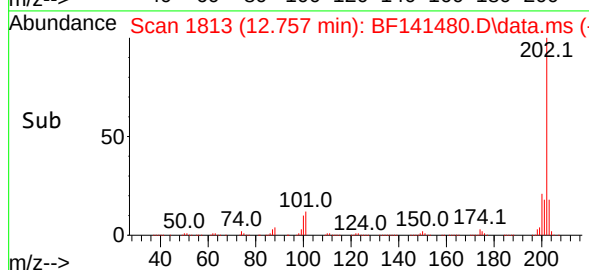
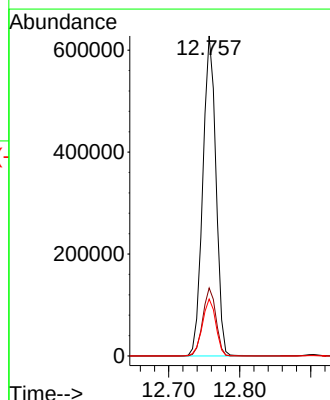
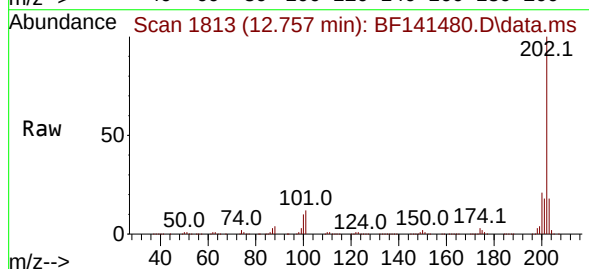
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

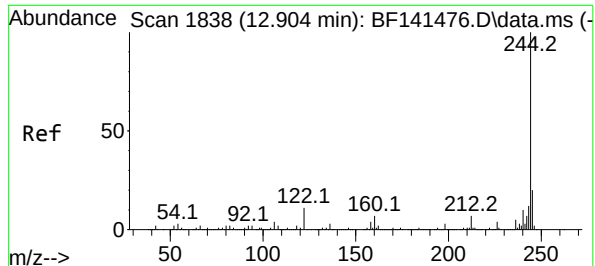
Tgt Ion:184 Resp: 211734
Ion Ratio Lower Upper
184 100
185 14.1 11.3 16.9
183 12.0 9.3 13.9



#78
Pyrene
Concen: 37.784 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:202 Resp: 812250
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 17.8 14.3 21.5





#79

Terphenyl-d14

Concen: 75.750 ng

RT: 12.904 min Scan# 1838

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

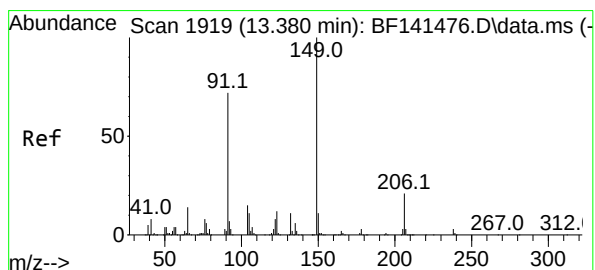
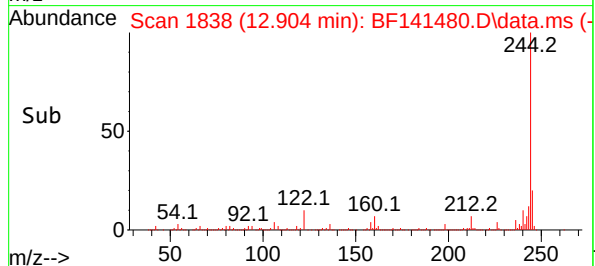
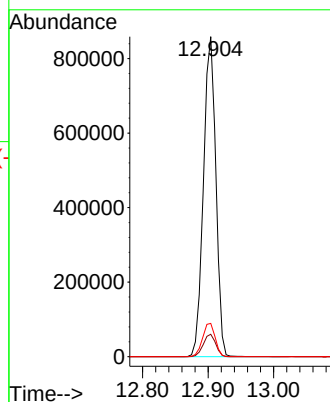
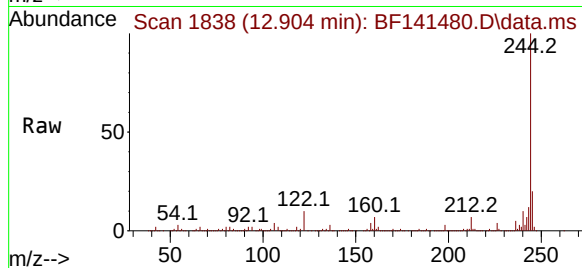
Tgt Ion:244 Resp: 1133126

Ion Ratio Lower Upper

244 100

212 7.0 5.6 8.4

122 10.4 8.4 12.6



#80

Butylbenzylphthalate

Concen: 41.781 ng

RT: 13.380 min Scan# 1919

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

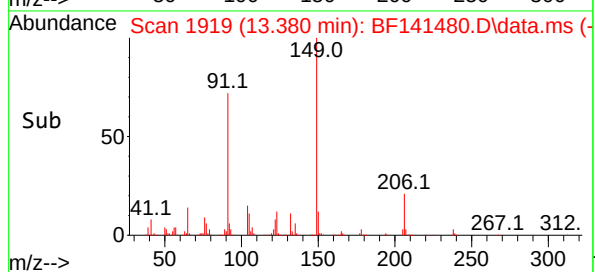
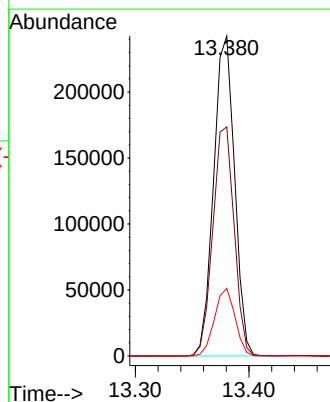
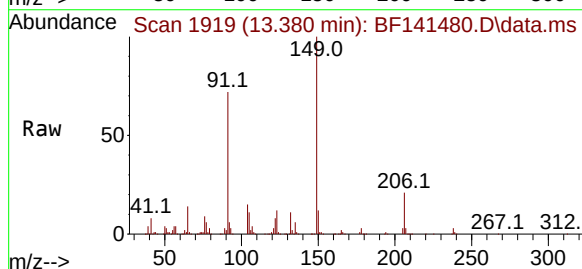
Tgt Ion:149 Resp: 311103

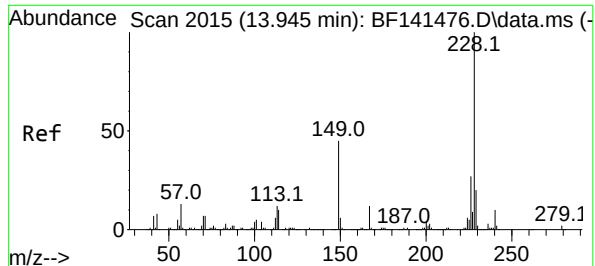
Ion Ratio Lower Upper

149 100

91 71.6 57.8 86.8

206 21.2 16.7 25.1

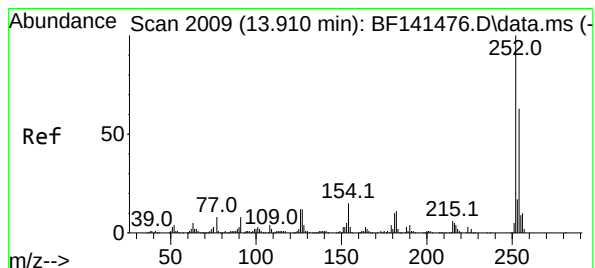
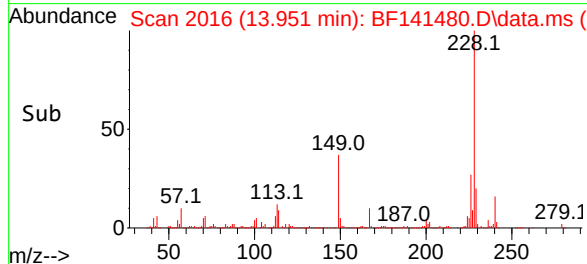
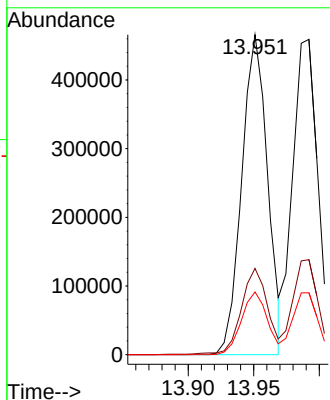
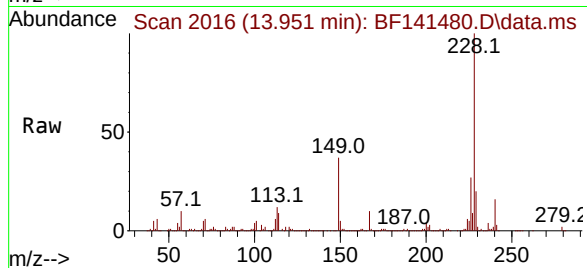




#81
Benzo(a)anthracene
Concen: 38.009 ng
RT: 13.951 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

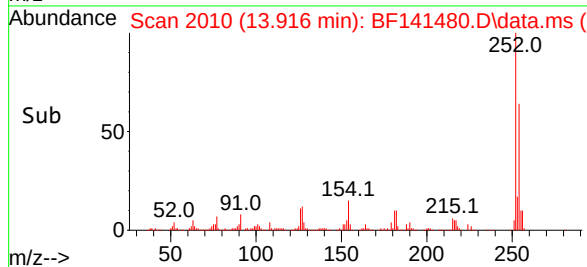
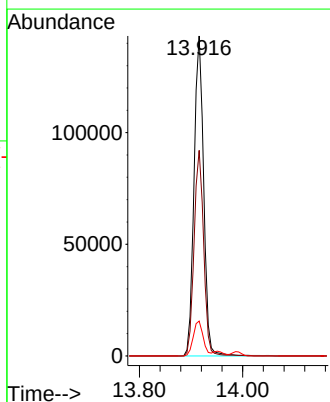
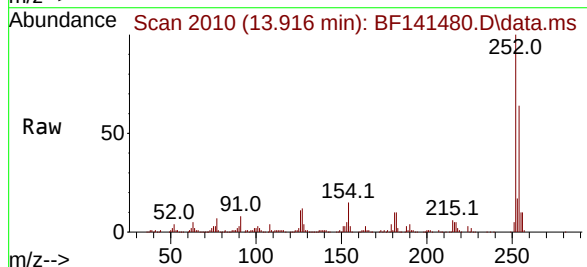
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

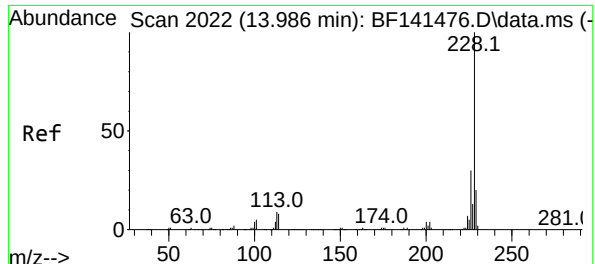
Tgt Ion:228 Resp: 638036
Ion Ratio Lower Upper
228 100
226 27.0 21.8 32.8
229 19.6 15.8 23.6



#82
3,3'-Dichlorobenzidine
Concen: 38.608 ng
RT: 13.916 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 185650
Ion Ratio Lower Upper
252 100
254 64.3 50.6 76.0
126 10.9 9.3 13.9

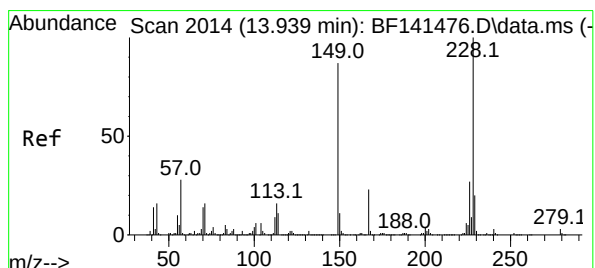
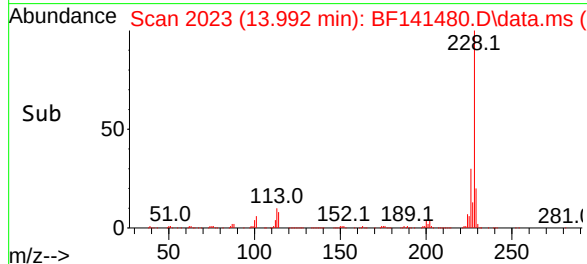
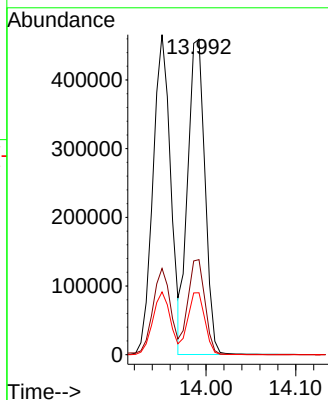
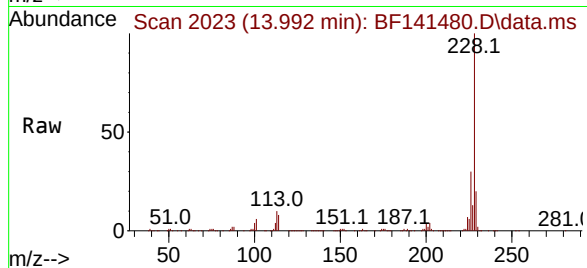




#83
Chrysene
Concen: 39.361 ng
RT: 13.992 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

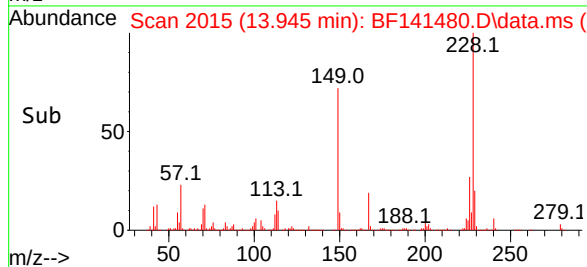
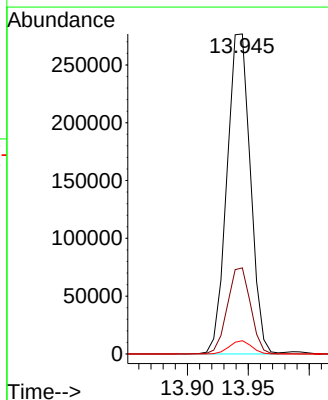
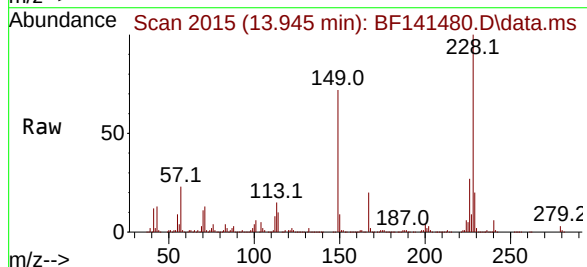
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

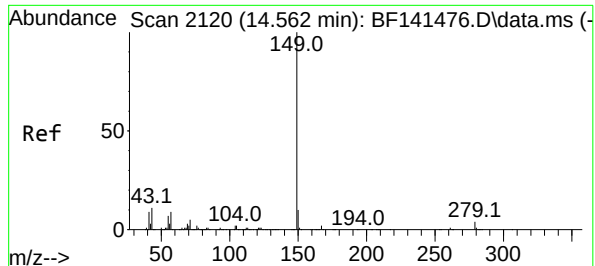
Tgt Ion:228 Resp: 610091
Ion Ratio Lower Upper
228 100
226 30.1 24.0 36.0
229 19.6 15.7 23.5



#84
Bis(2-ethylhexyl)phthalate
Concen: 44.229 ng
RT: 13.945 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 371434
Ion Ratio Lower Upper
149 100
167 26.9 21.4 32.0
279 4.1 3.1 4.7

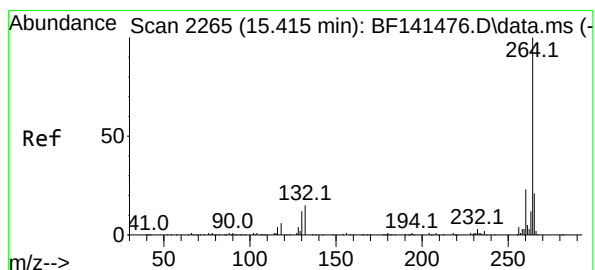
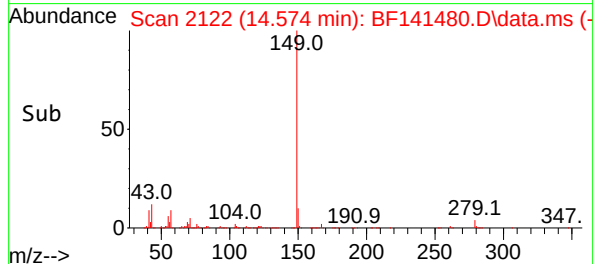
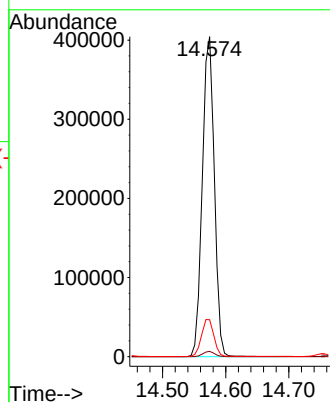
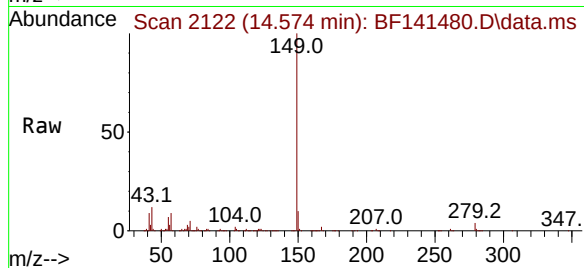




#85
Di-n-octyl phthalate
Concen: 44.652 ng
RT: 14.574 min Scan# 2121
Delta R.T. 0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

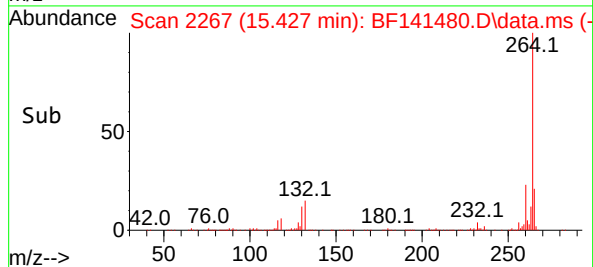
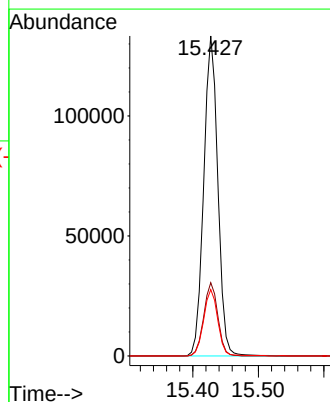
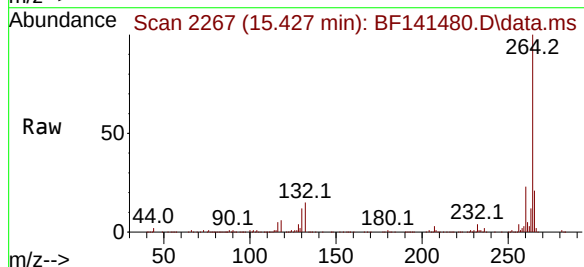
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

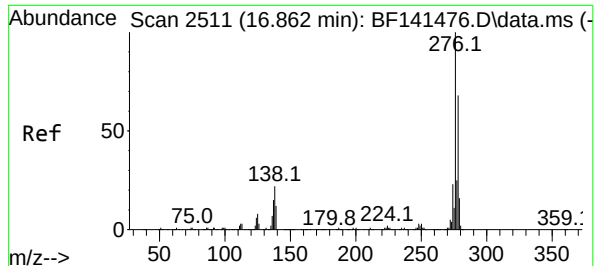
Tgt Ion:149 Resp: 534947
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 11.9 9.5 14.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. 0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:264 Resp: 199389
Ion Ratio Lower Upper
264 100
260 22.9 18.6 28.0
265 20.8 17.0 25.4

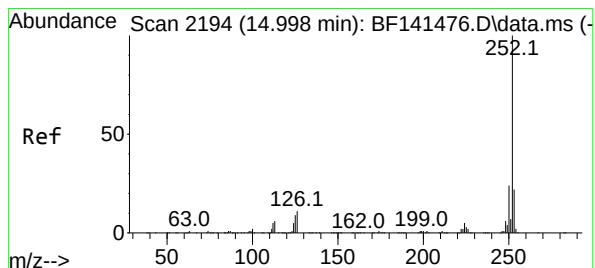
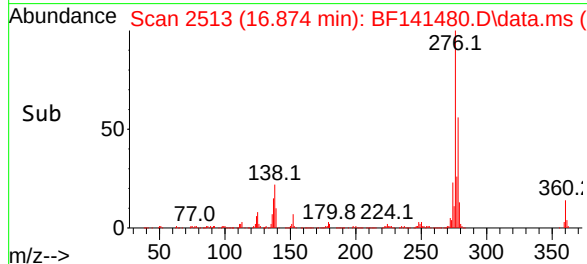
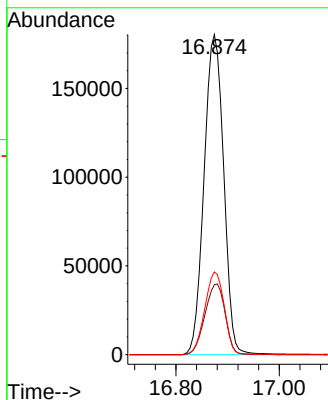
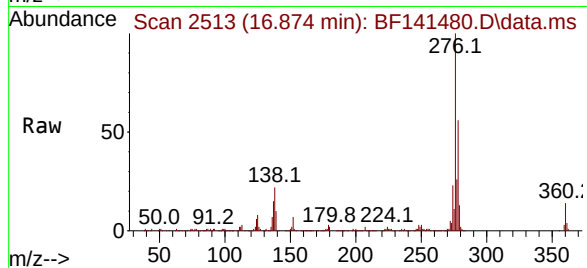




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.551 ng
RT: 16.874 min Scan# 2196
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

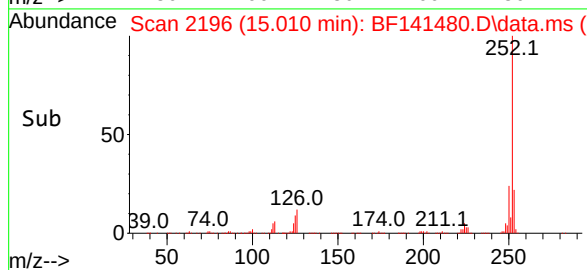
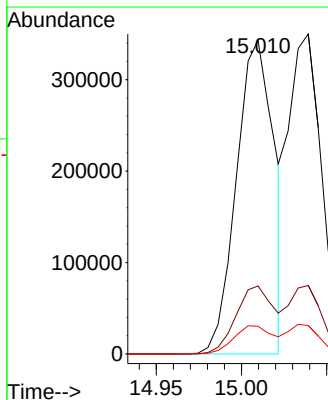
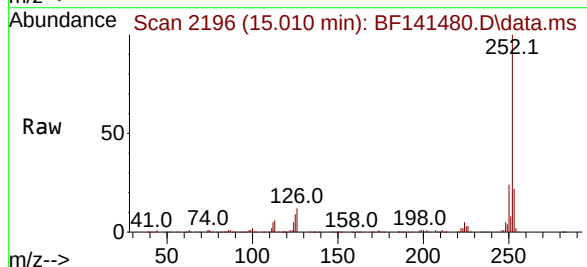
Instrument :
BNA_F
ClientSampleId :
ICVBF020625

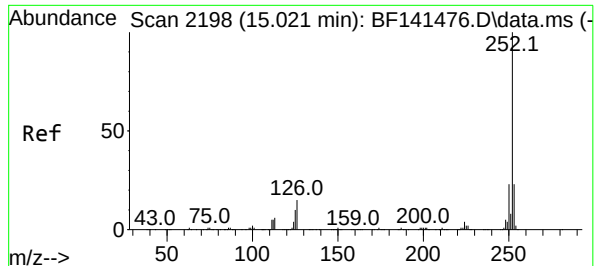
Tgt Ion	Resp	Lower	Upper
276	100		
138	22.8	18.0	27.0
277	25.8	20.4	30.6



#88
Benzo(b)fluoranthene
Concen: 39.352 ng
RT: 15.010 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion	Resp	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.8	7.0	10.6





#89

Benzo(k)fluoranthene

Concen: 41.182 ng

RT: 15.039 min Scan# 2198

Delta R.T. 0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

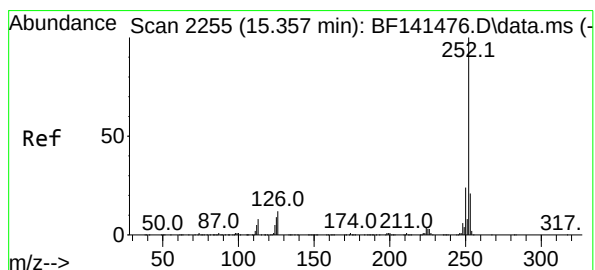
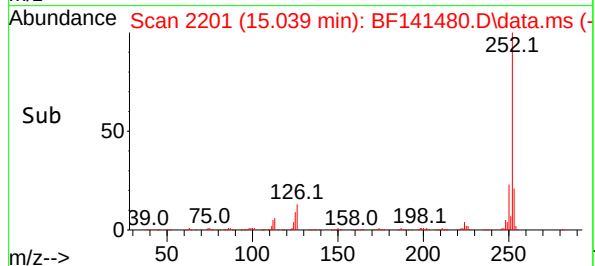
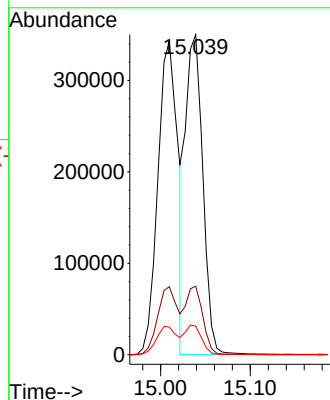
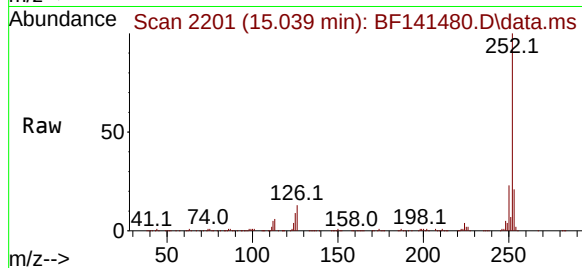
Tgt Ion:252 Resp: 470794

Ion Ratio Lower Upper

252 100

253 21.4 18.0 27.0

125 8.9 7.4 11.0



#90

Benzo(a)pyrene

Concen: 39.459 ng

RT: 15.369 min Scan# 2257

Delta R.T. 0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

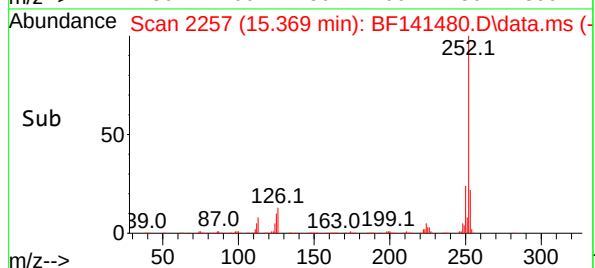
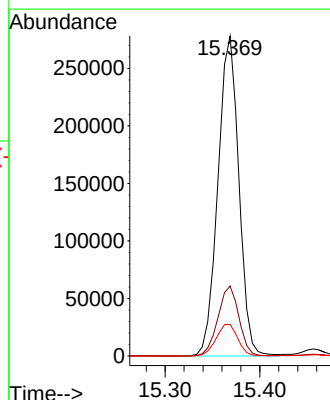
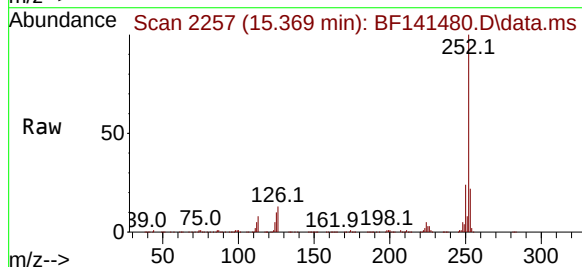
Tgt Ion:252 Resp: 427462

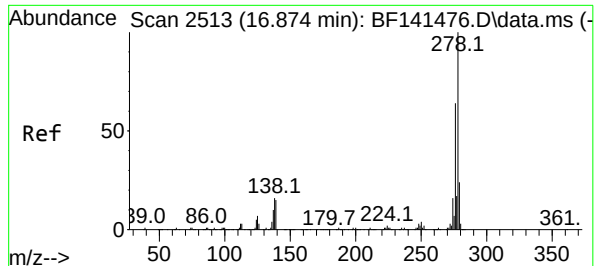
Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

125 9.9 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 38.870 ng

RT: 16.892 min Scan# 2516

Delta R.T. 0.000 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

Instrument :

BNA_F

ClientSampleId :

ICVBF020625

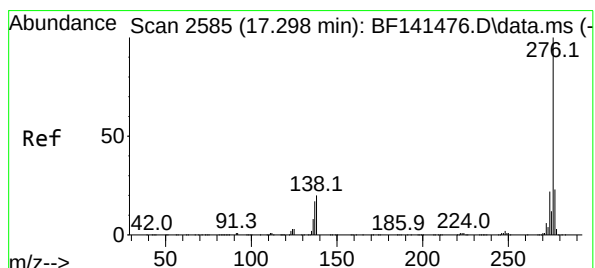
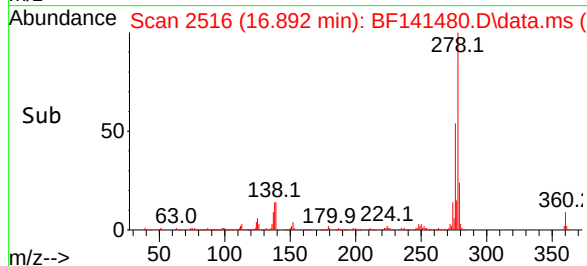
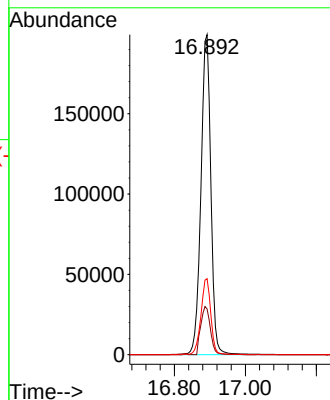
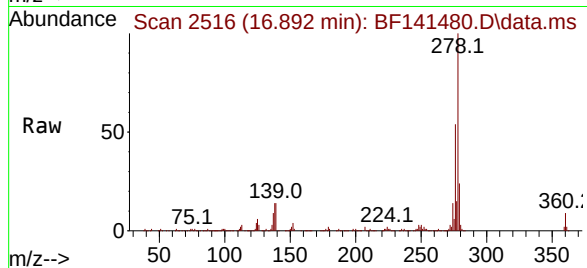
Tgt Ion:278 Resp: 388028

Ion Ratio Lower Upper

278 100

139 14.3 11.8 17.6

279 23.7 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 38.536 ng

RT: 17.310 min Scan# 2587

Delta R.T. -0.006 min

Lab File: BF141480.D

Acq: 06 Feb 2025 15:03

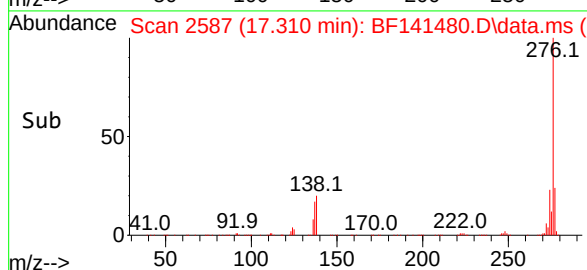
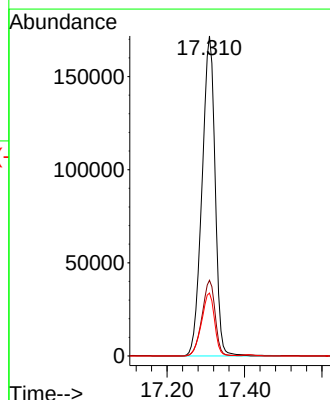
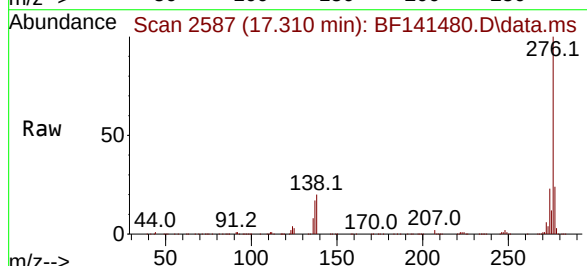
Tgt Ion:276 Resp: 402566

Ion Ratio Lower Upper

276 100

277 23.6 18.6 28.0

138 19.7 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141480.D
 Acq On : 06 Feb 2025 15:03
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF020625

Quant Time: Feb 06 16:01:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	1,4-Dioxane	0.513	0.518	-1.0	101	0.00
3	Pyridine	1.222	1.281	-4.8	102	-0.01
4	n-Nitrosodimethylamine	0.809	0.842	-4.1	104	-0.03
5 S	2-Fluorophenol	1.276	1.306	-2.4	102	0.00
6	Aniline	1.513	1.582	-4.6	104	-0.01
7 S	Phenol-d6	1.612	1.630	-1.1	102	-0.01
8	2-Chlorophenol	1.378	1.397	-1.4	102	-0.01
9	Benzaldehyde	0.857	0.859	-0.2	106	0.00
10 C	Phenol	1.678	1.704	-1.5	102	-0.01
11	bis(2-Chloroethyl)ether	1.261	1.256	0.4	100	0.00
12	1,3-Dichlorobenzene	1.455	1.467	-0.8	103	0.00
13 C	1,4-Dichlorobenzene	1.487	1.484	0.2	102	0.00
14	1,2-Dichlorobenzene	1.380	1.392	-0.9	102	0.00
15	Benzyl Alcohol	1.236	1.269	-2.7	102	0.00
16	2,2'-oxybis(1-Chloropropane	2.158	2.187	-1.3	102	0.00
17	2-Methylphenol	1.079	1.099	-1.9	103	0.00
18	Hexachloroethane	0.550	0.565	-2.7	103	0.00
19 P	n-Nitroso-di-n-propylamine	0.964	0.966	-0.2	101	-0.01
20	3+4-Methylphenols	1.371	1.373	-0.1	101	-0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
22	Acetophenone	0.498	0.488	2.0	102	-0.01
23 S	Nitrobenzene-d5	0.383	0.376	1.8	101	0.00
24	Nitrobenzene	0.374	0.369	1.3	102	0.00
25	Isophorone	0.611	0.608	0.5	103	-0.01
26 C	2-Nitrophenol	0.186	0.188	-1.1	101	0.00
27	2,4-Dimethylphenol	0.217	0.217	0.0	100	0.00
28	bis(2-Chloroethoxy)methane	0.392	0.390	0.5	102	0.00
29 C	2,4-Dichlorophenol	0.294	0.292	0.7	102	0.00
30	1,2,4-Trichlorobenzene	0.320	0.314	1.9	102	0.00
31	Naphthalene	1.041	1.023	1.7	102	0.00
32	Benzoic acid	0.226	0.228	-0.9	102	-0.04
33	4-Chloroaniline	0.363	0.370	-1.9	105	-0.01
34 C	Hexachlorobutadiene	0.192	0.193	-0.5	103	0.00
35	Caprolactam	0.089	0.092	-3.4	102	-0.03
36 C	4-Chloro-3-methylphenol	0.325	0.325	0.0	102	0.00
37	2-Methylnaphthalene	0.677	0.656	3.1	101	0.00
38	1-Methylnaphthalene	0.656	0.641	2.3	101	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40	1,2,4,5-Tetrachlorobenzene	0.579	0.581	-0.3	102	0.00
41 P	Hexachlorocyclopentadiene	0.192	0.186	3.1	94	0.00
42 S	2,4,6-Tribromophenol	0.201	0.200	0.5	102	0.00
43 C	2,4,6-Trichlorophenol	0.374	0.373	0.3	101	0.00
44	2,4,5-Trichlorophenol	0.405	0.406	-0.2	101	0.00
45 S	2-Fluorobiphenyl	1.298	1.278	1.5	103	0.00
46	1,1'-Biphenyl	1.551	1.532	1.2	102	0.00
47	2-Chloronaphthalene	1.147	1.131	1.4	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141480.D
 Acq On : 06 Feb 2025 15:03
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF020625

Quant Time: Feb 06 16:01:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.385	0.389	-1.0	102	0.00
49	Acenaphthylene	1.705	1.694	0.6	102	0.00
50	Dimethylphthalate	1.358	1.340	1.3	102	-0.01
51	2,6-Dinitrotoluene	0.297	0.297	0.0	101	0.00
52 C	Acenaphthene	1.147	1.143	0.3	102	0.00
53	3-Nitroaniline	0.319	0.323	-1.3	104	0.00
54 P	2,4-Dinitrophenol	0.176	0.188	-6.8	109	-0.01
55	Dibenzofuran	1.683	1.677	0.4	103	0.00
56 P	4-Nitrophenol	0.237	0.250	-5.5	103	-0.01
57	2,4-Dinitrotoluene	0.395	0.401	-1.5	103	0.00
58	Fluorene	1.301	1.285	1.2	102	0.00
59	2,3,4,6-Tetrachlorophenol	0.349	0.353	-1.1	104	0.00
60	Diethylphthalate	1.336	1.318	1.3	101	0.00
61	4-Chlorophenyl-phenylether	0.626	0.615	1.8	101	0.00
62	4-Nitroaniline	0.324	0.333	-2.8	102	-0.02
63	Azobenzene	1.328	1.320	0.6	102	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	0.139	0.147	-5.8	104	-0.01
66 c	n-Nitrosodiphenylamine	0.640	0.641	-0.2	102	0.00
67	4-Bromophenyl-phenylether	0.224	0.228	-1.8	104	0.00
68	Hexachlorobenzene	0.230	0.231	-0.4	102	0.00
69	Atrazine	0.192	0.189	1.6	102	0.00
70 C	Pentachlorophenol	0.147	0.156	-6.1	102	0.00
71	Phenanthrene	1.101	1.104	-0.3	102	0.00
72	Anthracene	1.107	1.117	-0.9	103	0.00
73	Carbazole	0.996	1.002	-0.6	102	0.00
74	Di-n-butylphthalate	1.150	1.177	-2.3	103	0.00
75 C	Fluoranthene	1.167	1.197	-2.6	104	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	112	0.00
77	Benzidine	0.441	0.419	5.0	89	0.00
78	Pyrene	1.703	1.608	5.6	103	0.00
79 S	Terphenyl-d14	1.185	1.122	5.3	105	0.00
80	Butylbenzylphthalate	0.590	0.616	-4.4	113	0.00
81	Benzo(a)anthracene	1.329	1.263	5.0	105	0.00
82	3,3'-Dichlorobenzidine	0.381	0.368	3.4	109	0.00
83	Chrysene	1.228	1.208	1.6	113	0.00
84	Bis(2-ethylhexyl)phthalate	0.665	0.735	-10.5	120	0.00
85 c	Di-n-octyl phthalate	0.949	1.059	-11.6	123	0.01
86 I	Perylene-d12	1.000	1.000	0.0	109	0.01
87	Indeno(1,2,3-cd)pyrene	1.236	1.191	3.6	101	0.00
88	Benzo(b)fluoranthene	1.343	1.321	1.6	108	0.00
89	Benzo(k)fluoranthene	1.147	1.181	-3.0	113	0.00
90 C	Benzo(a)pyrene	1.087	1.072	1.4	108	0.00
91	Dibenzo(a,h)anthracene	1.001	0.973	2.8	101	0.00
92	Benzo(g,h,i)perylene	1.048	1.009	3.7	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141480.D
 Acq On : 06 Feb 2025 15:03
 Operator : RC/JU
 Sample : SSTDICV040
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Instrument :
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Quant Time: Feb 06 16:01:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	101	0.00
2	1,4-Dioxane	40.000	40.369	-0.9	101	0.00
3	Pyridine	40.000	41.938	-4.8	102	-0.01
4	n-Nitrosodimethylamine	40.000	41.653	-4.1	104	-0.03
5 S	2-Fluorophenol	80.000	81.894	-2.4	102	0.00
6	Aniline	40.000	41.834	-4.6	104	-0.01
7 S	Phenol-d6	80.000	80.878	-1.1	102	-0.01
8	2-Chlorophenol	40.000	40.527	-1.3	102	-0.01
9	Benzaldehyde	40.000	40.105	-0.3	106	0.00
10 C	Phenol	40.000	40.615	-1.5	102	-0.01
11	bis(2-Chloroethyl)ether	40.000	39.866	0.3	100	0.00
12	1,3-Dichlorobenzene	40.000	40.317	-0.8	103	0.00
13 C	1,4-Dichlorobenzene	40.000	39.911	0.2	102	0.00
14	1,2-Dichlorobenzene	40.000	40.354	-0.9	102	0.00
15	Benzyl Alcohol	40.000	41.041	-2.6	102	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	40.535	-1.3	102	0.00
17	2-Methylphenol	40.000	40.768	-1.9	103	0.00
18	Hexachloroethane	40.000	41.061	-2.7	103	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	40.048	-0.1	101	-0.01
20	3+4-Methylphenols	40.000	40.073	-0.2	101	-0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	103	0.00
22	Acetophenone	40.000	39.246	1.9	102	-0.01
23 S	Nitrobenzene-d5	80.000	78.369	2.0	101	0.00
24	Nitrobenzene	40.000	39.429	1.4	102	0.00
25	Isophorone	40.000	39.767	0.6	103	-0.01
26 C	2-Nitrophenol	40.000	40.413	-1.0	101	0.00
27	2,4-Dimethylphenol	40.000	39.924	0.2	100	0.00
28	bis(2-Chloroethoxy)methane	40.000	39.822	0.4	102	0.00
29 C	2,4-Dichlorophenol	40.000	39.818	0.5	102	0.00
30	1,2,4-Trichlorobenzene	40.000	39.237	1.9	102	0.00
31	Naphthalene	40.000	39.287	1.8	102	0.00
32	Benzoic acid	40.000	40.324	-0.8	102	-0.04
33	4-Chloroaniline	40.000	40.680	-1.7	105	-0.01
34 C	Hexachlorobutadiene	40.000	40.144	-0.4	103	0.00
35	Caprolactam	40.000	41.104	-2.8	102	-0.03
36 C	4-Chloro-3-methylphenol	40.000	40.006	-0.0	102	0.00
37	2-Methylnaphthalene	40.000	38.710	3.2	101	0.00
38	1-Methylnaphthalene	40.000	39.049	2.4	101	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	40.182	-0.5	102	0.00
41 P	Hexachlorocyclopentadiene	40.000	38.754	3.1	94	0.00
42 S	2,4,6-Tribromophenol	80.000	79.490	0.6	102	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.914	0.2	101	0.00
44	2,4,5-Trichlorophenol	40.000	40.108	-0.3	101	0.00
45 S	2-Fluorobiphenyl	80.000	78.786	1.5	103	0.00
46	1,1'-Biphenyl	40.000	39.519	1.2	102	0.00
47	2-Chloronaphthalene	40.000	39.453	1.4	102	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
 Data File : BF141480.D
 Acq On : 06 Feb 2025 15:03
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF020625

Quant Time: Feb 06 16:01:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 15:49:10 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	40.451	-1.1	102	0.00
49	Acenaphthylene	40.000	39.734	0.7	102	0.00
50	Dimethylphthalate	40.000	39.488	1.3	102	-0.01
51	2,6-Dinitrotoluene	40.000	39.965	0.1	101	0.00
52 C	Acenaphthene	40.000	39.893	0.3	102	0.00
53	3-Nitroaniline	40.000	40.463	-1.2	104	0.00
54 P	2,4-Dinitrophenol	40.000	42.639	-6.6	109	-0.01
55	Dibenzofuran	40.000	39.860	0.4	103	0.00
56 P	4-Nitrophenol	40.000	42.166	-5.4	103	-0.01
57	2,4-Dinitrotoluene	40.000	40.633	-1.6	103	0.00
58	Fluorene	40.000	39.501	1.2	102	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	40.438	-1.1	104	0.00
60	Diethylphthalate	40.000	39.467	1.3	101	0.00
61	4-Chlorophenyl-phenylether	40.000	39.318	1.7	101	0.00
62	4-Nitroaniline	40.000	41.124	-2.8	102	-0.02
63	Azobenzene	40.000	39.759	0.6	102	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65	4,6-Dinitro-2-methylphenol	40.000	42.230	-5.6	104	-0.01
66 c	n-Nitrosodiphenylamine	40.000	40.040	-0.1	102	0.00
67	4-Bromophenyl-phenylether	40.000	40.864	-2.2	104	0.00
68	Hexachlorobenzene	40.000	40.208	-0.5	102	0.00
69	Atrazine	40.000	39.358	1.6	102	0.00
70 C	Pentachlorophenol	40.000	42.476	-6.2	102	0.00
71	Phenanthrene	40.000	40.114	-0.3	102	0.00
72	Anthracene	40.000	40.362	-0.9	103	0.00
73	Carbazole	40.000	40.267	-0.7	102	0.00
74	Di-n-butylphthalate	40.000	40.953	-2.4	103	0.00
75 C	Fluoranthene	40.000	41.011	-2.5	104	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	112	0.00
77	Benzydine	40.000	38.017	5.0	89	0.00
78	Pyrene	40.000	37.784	5.5	103	0.00
79 S	Terphenyl-d14	80.000	75.750	5.3	105	0.00
80	Butylbenzylphthalate	40.000	41.781	-4.5	113	0.00
81	Benzo(a)anthracene	40.000	38.009	5.0	105	0.00
82	3,3'-Dichlorobenzidine	40.000	38.608	3.5	109	0.00
83	Chrysene	40.000	39.361	1.6	113	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	44.229	-10.6	120	0.00
85 c	Di-n-octyl phthalate	40.000	44.652	-11.6	123	0.01
86 I	Perylene-d12	20.000	20.000	0.0	109	0.01
87	Indeno(1,2,3-cd)pyrene	40.000	38.551	3.6	101	0.00
88	Benzo(b)fluoranthene	40.000	39.352	1.6	108	0.00
89	Benzo(k)fluoranthene	40.000	41.182	-3.0	113	0.00
90 C	Benzo(a)pyrene	40.000	39.459	1.4	108	0.00
91	Dibenzo(a,h)anthracene	40.000	38.870	2.8	101	0.00
92	Benzo(g,h,i)perylene	40.000	38.536	3.7	100	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Quant Time: Feb 06 16:01:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
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(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.379		8.1	
Benzaldehyde	0.857	0.938		9.5	
Phenol-d6	1.612	1.672		3.7	
Phenol	1.678	1.745		4.0	20.0
bis(2-Chloroethyl)ether	1.261	1.311		4.0	
2-Chlorophenol	1.378	1.463		6.2	
2-Methylphenol	1.079	1.115		3.3	
2,2-oxybis(1-Chloropropane)	2.158	2.073		-3.9	
Acetophenone	0.498	0.506		1.6	
3+4-Methylphenols	1.371	1.442		5.2	
n-Nitroso-di-n-propylamine	0.964	0.992	0.050	2.9	
Nitrobenzene-d5	0.383	0.384		0.3	
Hexachloroethane	0.550	0.581		5.6	
Nitrobenzene	0.374	0.377		0.8	
Isophorone	0.611	0.618		1.1	
2-Nitrophenol	0.186	0.199		7.0	20.0
2,4-Dimethylphenol	0.217	0.228		5.1	
bis(2-Chloroethoxy)methane	0.392	0.410		4.6	
2,4-Dichlorophenol	0.294	0.307		4.4	20.0
Naphthalene	1.041	1.073		3.1	
4-Chloroaniline	0.363	0.379		4.4	
Hexachlorobutadiene	0.192	0.201		4.7	20.0
Caprolactam	0.089	0.086		-3.4	
4-Chloro-3-methylphenol	0.325	0.325		0.0	20.0
2-Methylnaphthalene	0.677	0.700		3.4	
Hexachlorocyclopentadiene	0.192	0.198	0.050	3.1	
2,4,6-Trichlorophenol	0.374	0.383		2.4	20.0
2-Fluorobiphenyl	1.298	1.344		3.5	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.613		4.0	
2-Chloronaphthalene	1.147	1.203		4.9	
2-Nitroaniline	0.385	0.362		-6.0	
Dimethylphthalate	1.358	1.384		1.9	
Acenaphthylene	1.705	1.736		1.8	
2,6-Dinitrotoluene	0.297	0.294		-1.0	
3-Nitroaniline	0.319	0.305		-4.4	
Acenaphthene	1.147	1.127		-1.7	20.0
2,4-Dinitrophenol	0.176	0.155	0.050	-11.9	
4-Nitrophenol	0.237	0.207	0.050	-12.7	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/25/2025 10:34

Lab File ID: BF141755.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.672		-0.7	
2,4-Dinitrotoluene	0.395	0.376		-4.8	
Diethylphthalate	1.336	1.323		-1.0	
4-Chlorophenyl-phenylether	0.626	0.644		2.9	
Fluorene	1.301	1.287		-1.1	
4-Nitroaniline	0.324	0.286		-11.7	
4,6-Dinitro-2-methylphenol	0.139	0.136		-2.2	
n-Nitrosodiphenylamine	0.640	0.696		8.8	20.0
2,4,6-Tribromophenol	0.201	0.191		-5.0	
4-Bromophenyl-phenylether	0.224	0.247		10.3	
Hexachlorobenzene	0.230	0.252		9.6	
Atrazine	0.192	0.172		-10.4	
Pentachlorophenol	0.147	0.146		-0.7	20.0
Phenanthrene	1.101	1.126		2.3	
Anthracene	1.107	1.148		3.7	
Carbazole	0.996	0.955		-4.1	
Di-n-butylphthalate	1.150	1.169		1.7	
Fluoranthene	1.167	1.071		-8.2	20.0
Pyrene	1.703	1.941		14.0	
Terphenyl-d14	1.185	1.341		13.2	
Butylbenzylphthalate	0.590	0.653		10.7	
3,3-Dichlorobenzidine	0.381	0.421		10.5	
Benzo (a) anthracene	1.329	1.394		4.9	
Chrysene	1.228	1.271		3.5	
Bis(2-ethylhexyl)phthalate	0.665	0.826		24.2	
Di-n-octyl phthalate	0.949	1.341		41.3	20.0
Benzo (b) fluoranthene	1.343	1.171		-12.8	
Benzo (k) fluoranthene	1.147	0.994		-13.3	
Benzo (a) pyrene	1.087	1.099		1.1	20.0
Indeno (1,2,3-cd) pyrene	1.236	1.495		21.0	
Dibenzo (a,h) anthracene	1.001	1.227		22.6	
Benzo (g,h,i) perylene	1.048	1.273		21.5	
1,2,4,5-Tetrachlorobenzene	0.579	0.620		7.1	
1,4-Dioxane	0.513	0.521		1.6	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.331		-5.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	83876	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	333850	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	179797	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	280239	20.000	ng	-0.01
76) Chrysene-d12	13.939	240	152344	20.000	ng	-0.02
86) Perylene-d12	15.386	264	167961	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	462555	86.457	ng	0.00
7) Phenol-d6	6.428	99	561086	82.975	ng	-0.01
23) Nitrobenzene-d5	7.351	82	513035	80.153	ng	-0.01
42) 2,4,6-Tribromophenol	10.610	330	137629	76.201	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	966496	82.817	ng	-0.01
79) Terphenyl-d14	12.886	244	817377	90.576	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.457	88	87358	40.569	ng	98
3) Pyridine	3.187	79	217499	42.447	ng	96
4) n-Nitrosodimethylamine	3.146	42	123127	36.290	ng	91
6) Aniline	6.445	93	257077	40.528	ng	88
8) 2-Chlorophenol	6.575	128	245401	42.450	ng	99
9) Benzaldehyde	6.334	77	157405	43.804	ng	98
10) Phenol	6.445	94	292725	41.592	ng	97
11) bis(2-Chloroethyl)ether	6.522	93	219867	41.592	ng	100
12) 1,3-Dichlorobenzene	6.722	146	263327	43.146	ng	97
13) 1,4-Dichlorobenzene	6.798	146	266619	42.757	ng	99
14) 1,2-Dichlorobenzene	6.951	146	250123	43.218	ng	100
15) Benzyl Alcohol	6.934	79	205915	39.710	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.057	45	347691	38.422	ng	60
17) 2-Methylphenol	7.051	107	186964	41.327	ng	95
18) Hexachloroethane	7.292	117	97445	42.225	ng	95
19) n-Nitroso-di-n-propyla...	7.198	70	166444	41.150	ng	93
20) 3+4-Methylphenols	7.204	107	241843	42.065	ng	# 80
22) Acetophenone	7.192	105	337823	40.679	ng	92
24) Nitrobenzene	7.369	77	251798	40.343	ng	98
25) Isophorone	7.604	82	412929	40.460	ng	98
26) 2-Nitrophenol	7.687	139	132793	42.764	ng	92
27) 2,4-Dimethylphenol	7.728	122	152449	42.025	ng	96
28) bis(2-Chloroethoxy)met...	7.816	93	273434	41.812	ng	99
29) 2,4-Dichlorophenol	7.934	162	205263	41.878	ng	99
30) 1,2,4-Trichlorobenzene	8.004	180	222891	41.760	ng	100
31) Naphthalene	8.086	128	716264	41.216	ng	100
32) Benzoic acid	7.863	122	121186	32.162	ng	99
33) 4-Chloroaniline	8.139	127	253211	41.733	ng	97
34) Hexachlorobutadiene	8.198	225	133921	41.794	ng	99
35) Caprolactam	8.516	113	57557	38.568	ng	# 87
36) 4-Chloro-3-methylphenol	8.628	107	216842	39.939	ng	98
37) 2-Methylnaphthalene	8.775	142	467144	41.309	ng	100
38) 1-Methylnaphthalene	8.875	142	442044	40.360	ng	98
40) 1,2,4,5-Tetrachloroben...	8.945	216	223056	42.881	ng	99
41) Hexachlorocyclopentadiene	8.928	237	71295	41.208	ng	99
43) 2,4,6-Trichlorophenol	9.063	196	137576	40.921	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

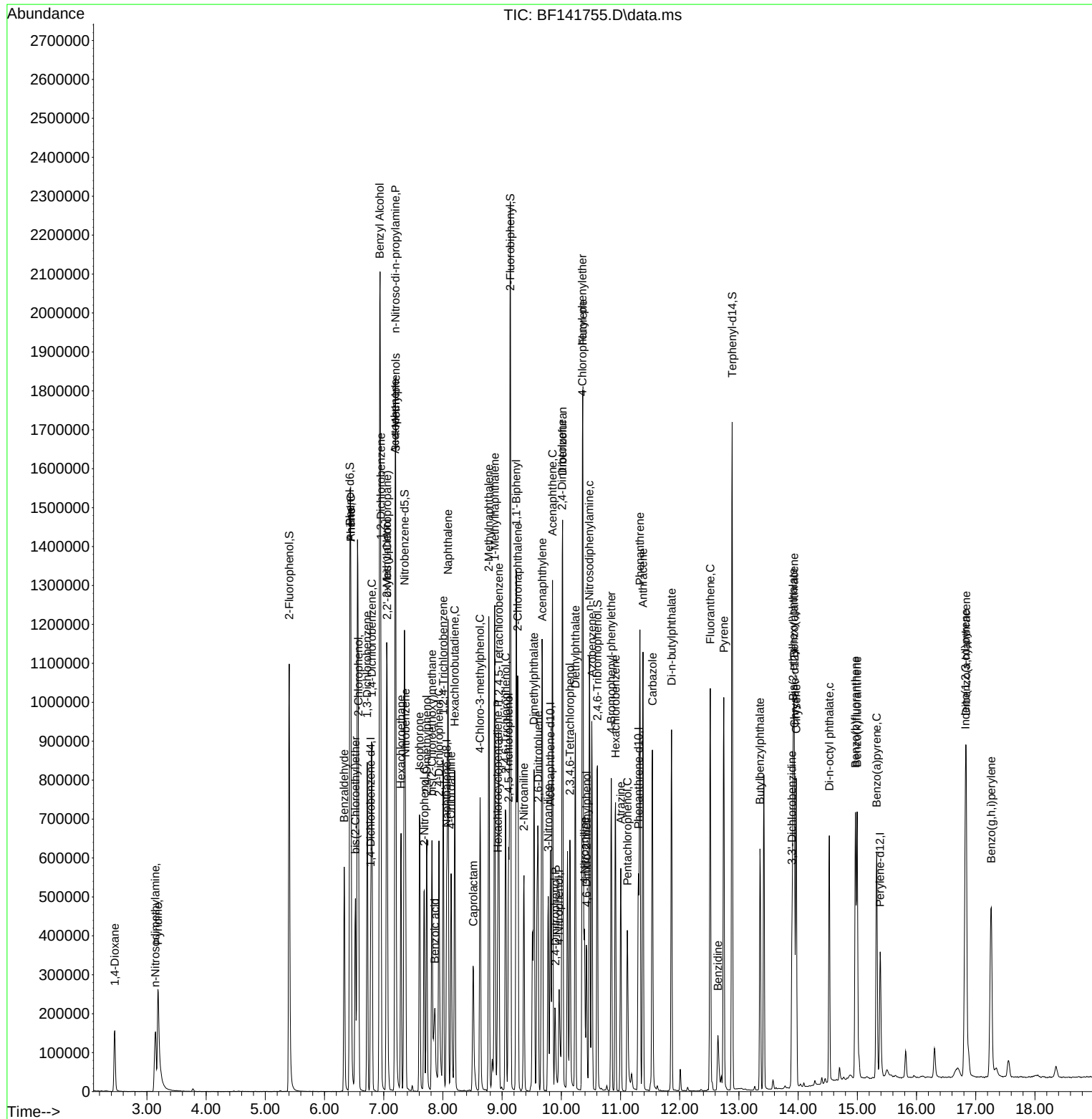
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	145193	39.849	ng	98
46) 1,1'-Biphenyl	9.239	154	579898	41.602	ng	100
47) 2-Chloronaphthalene	9.263	162	432433	41.952	ng	99
48) 2-Nitroaniline	9.369	65	130023	37.587	ng	93
49) Acenaphthylene	9.681	152	624325	40.722	ng	100
50) Dimethylphthalate	9.539	163	497613	40.768	ng	99
51) 2,6-Dinitrotoluene	9.610	165	105812	39.655	ng	95
52) Acenaphthene	9.851	154	405354	39.327	ng	99
53) 3-Nitroaniline	9.781	138	109691	38.195	ng	96
54) 2,4-Dinitrophenol	9.898	184	55724	35.138	ng	90
55) Dibenzofuran	10.022	168	601113	39.732	ng	99
56) 4-Nitrophenol	9.963	139	74346	34.873	ng	89
57) 2,4-Dinitrotoluene	10.016	165	135376	38.111	ng	95
58) Fluorene	10.363	166	462911	39.572	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	119131	37.977	ng	96
60) Diethylphthalate	10.239	149	475797	39.619	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	231758	41.182	ng	97
62) 4-Nitroaniline	10.392	138	102774	35.243	ng	96
63) Azobenzene	10.516	77	459724	38.507	ng	96
65) 4,6-Dinitro-2-methylph...	10.428	198	76253	39.171	ng	90
66) n-Nitrosodiphenylamine	10.475	169	389832	43.456	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	138581	44.246	ng	99
68) Hexachlorobenzene	10.916	284	141111	43.753	ng	98
69) Atrazine	11.004	200	96315	35.789	ng	99
70) Pentachlorophenol	11.116	266	81715	39.625	ng	100
71) Phenanthrene	11.327	178	631134	40.914	ng	100
72) Anthracene	11.380	178	643431	41.494	ng	100
73) Carbazole	11.539	167	535192	38.357	ng	100
74) Di-n-butylphthalate	11.863	149	655095	40.662	ng	99
75) Fluoranthene	12.516	202	600259	36.703	ng	100
77) Benzidine	12.645	184	123930	36.886	ng	100
78) Pyrene	12.745	202	591308	45.595	ng	99
80) Butylbenzylphthalate	13.357	149	198892	44.277	ng	99
81) Benzo(a)anthracene	13.933	228	424696	41.938	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	128425	44.271	ng	98
83) Chrysene	13.968	228	387162	41.405	ng	98
84) Bis(2-ethylhexyl)phtha...	13.916	149	251728	49.688	ng	100
85) Di-n-octyl phthalate	14.527	149	408656	56.543	ng	98
87) Indeno(1,2,3-cd)pyrene	16.827	276	502156	48.386	ng	99
88) Benzo(b)fluoranthene	14.968	252	393427	34.885	ng	99
89) Benzo(k)fluoranthene	14.998	252	333990	34.682	ng	98
90) Benzo(a)pyrene	15.327	252	369170	40.454	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	412131	49.009	ng	99
92) Benzo(g,h,i)perylene	17.262	276	427677	48.600	ng	100

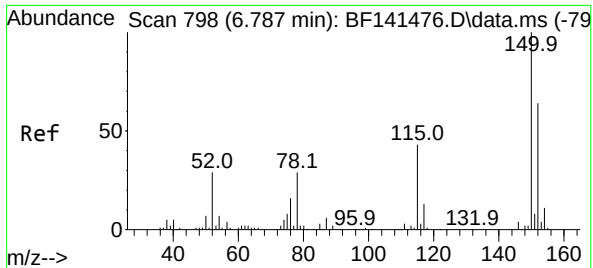
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

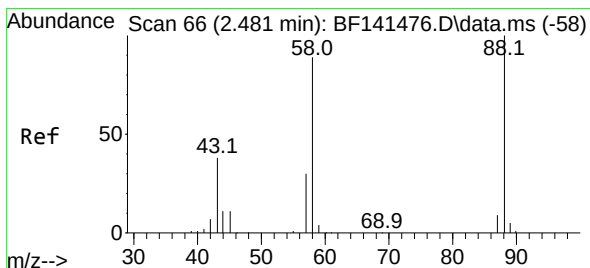
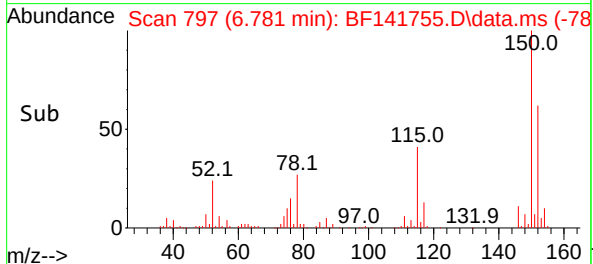
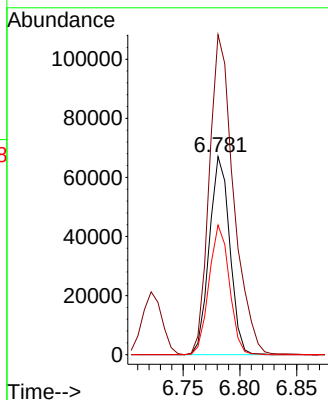
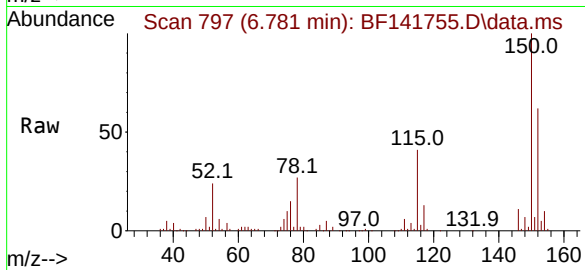




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.781 min Scan# 79
 Delta R.T. -0.011 min
 Lab File: BF141755.D
 Acq: 25 Feb 2025 10:34

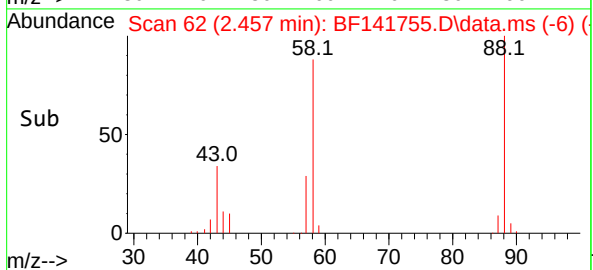
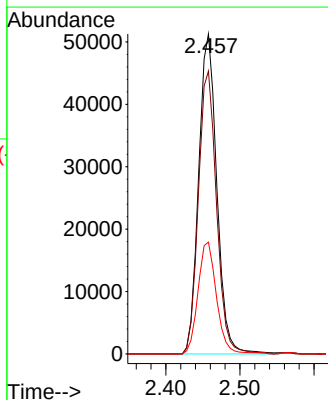
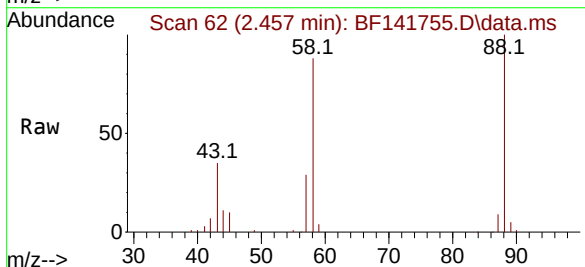
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

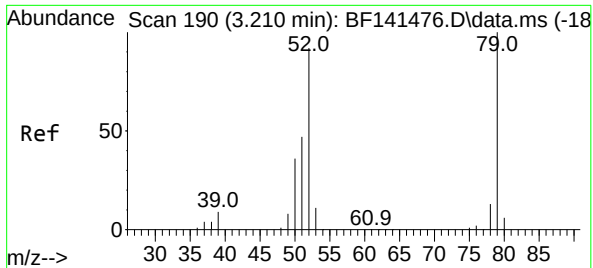
Tgt Ion:152 Resp: 83876
 Ion Ratio Lower Upper
 152 100
 150 161.5 125.0 187.4
 115 65.4 53.6 80.4



#2
 1,4-Dioxane
 Concen: 40.569 ng
 RT: 2.457 min Scan# 62
 Delta R.T. -0.023 min
 Lab File: BF141755.D
 Acq: 25 Feb 2025 10:34

Tgt Ion: 88 Resp: 87358
 Ion Ratio Lower Upper
 88 100
 58 88.3 71.1 106.7
 43 35.6 30.6 46.0

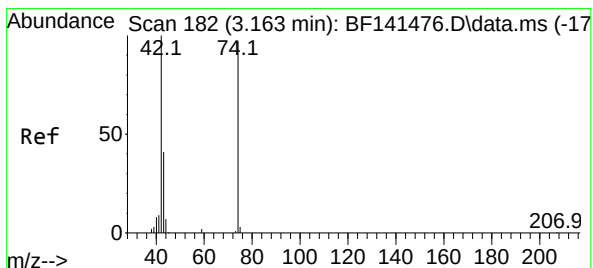
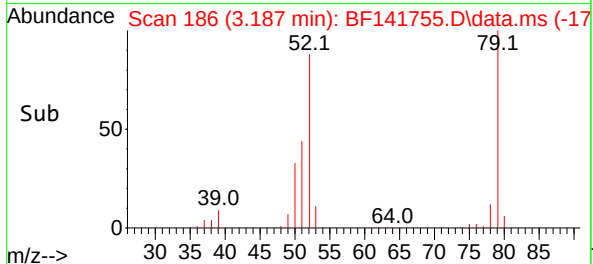
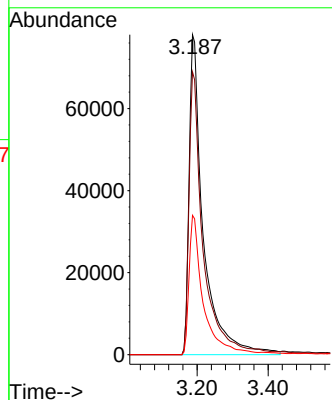
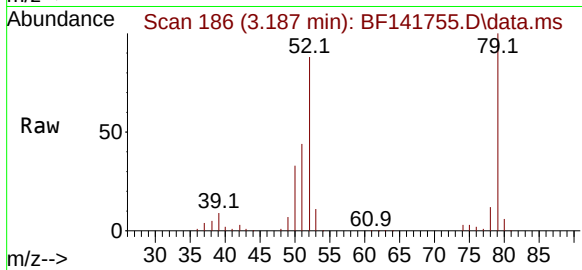




#3
Pyridine
Concen: 42.447 ng
RT: 3.187 min Scan# 11
Delta R.T. -0.029 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

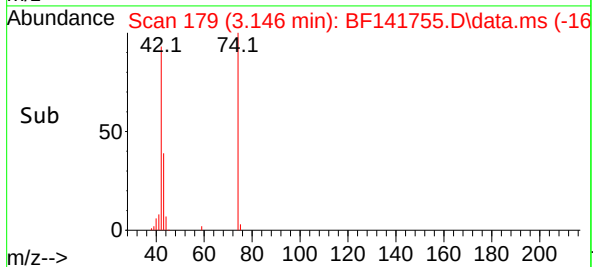
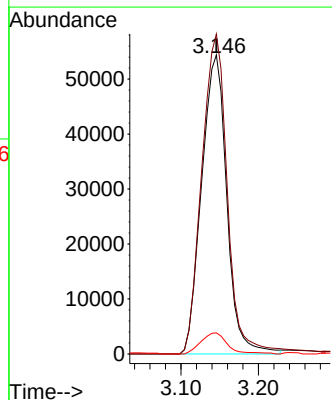
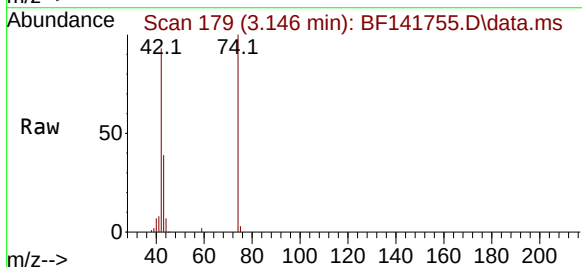
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

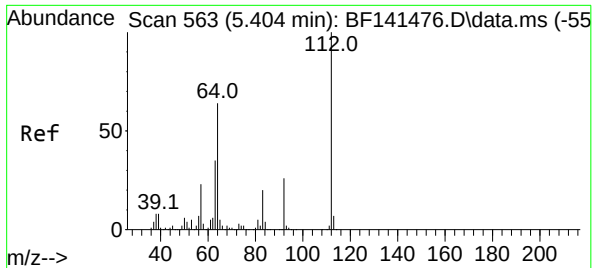
Tgt Ion: 79 Resp: 217499
Ion Ratio Lower Upper
79 100
52 88.4 73.7 110.5
51 43.6 37.5 56.3



#4
n-Nitrosodimethylamine
Concen: 36.290 ng
RT: 3.146 min Scan# 179
Delta R.T. -0.041 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 42 Resp: 123127
Ion Ratio Lower Upper
42 100
74 107.0 78.0 117.0
44 7.1 5.4 8.2

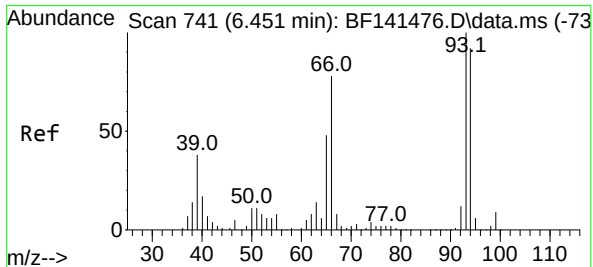
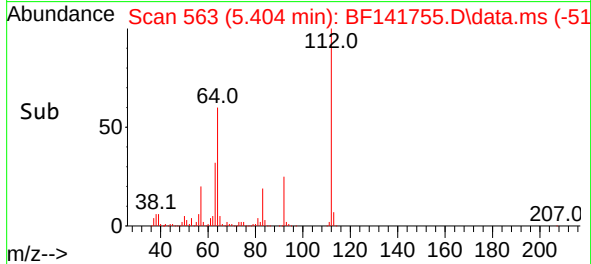
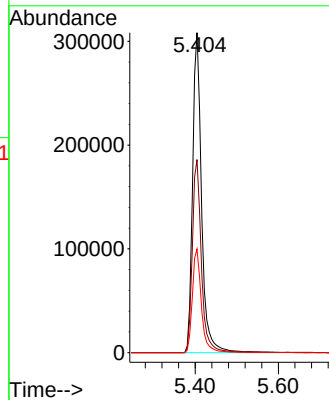
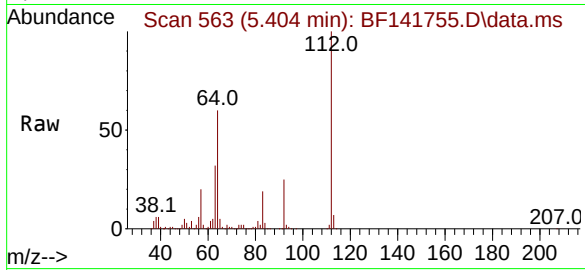




#5
2-Fluorophenol
Concen: 86.457 ng
RT: 5.404 min Scan# 50
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

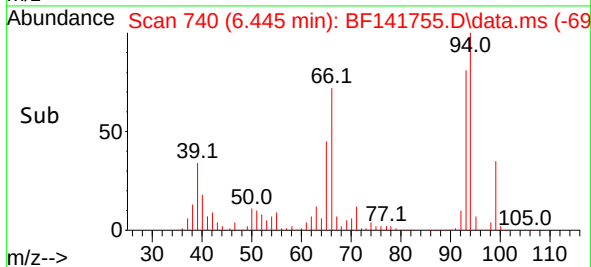
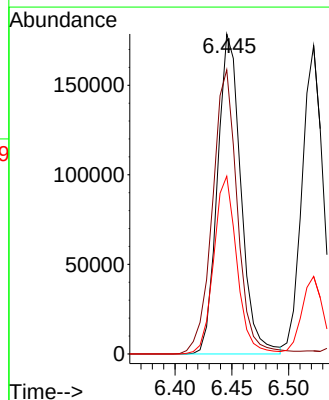
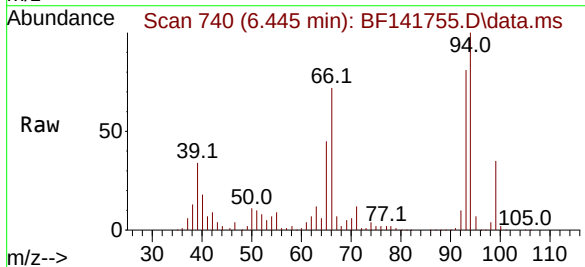
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

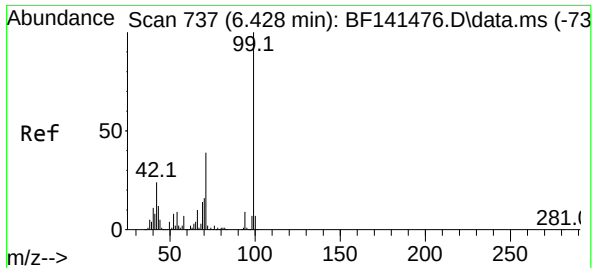
Tgt Ion:112 Resp: 462555
Ion Ratio Lower Upper
112 100
64 60.3 51.1 76.7
63 32.4 28.4 42.6



#6
Aniline
Concen: 40.528 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 93 Resp: 257077
Ion Ratio Lower Upper
93 100
66 88.8 62.6 94.0
65 55.6 38.3 57.5

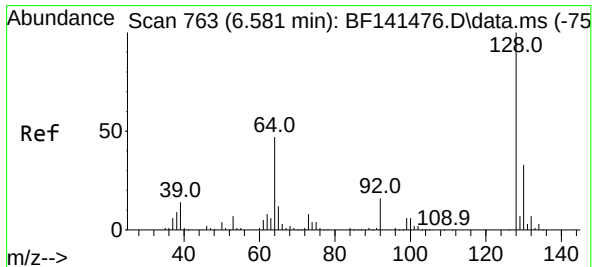
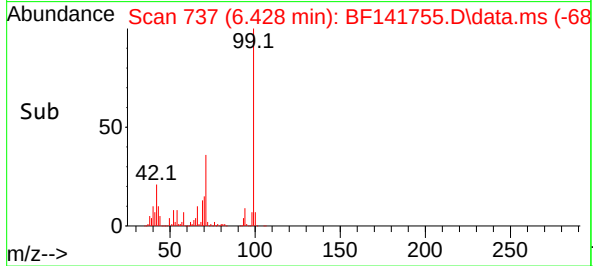
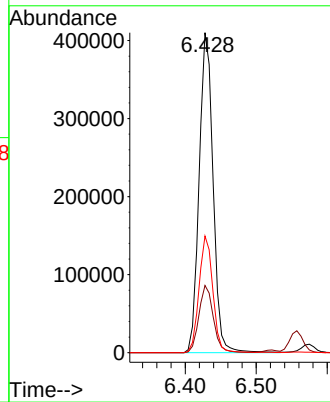
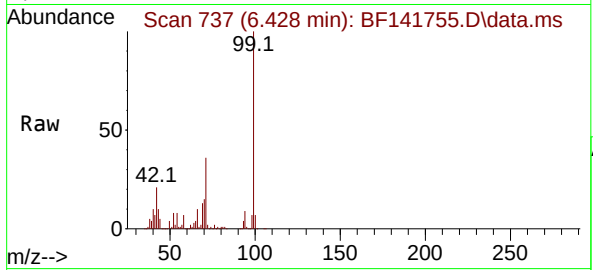




#7
Phenol-d6
Concen: 82.975 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

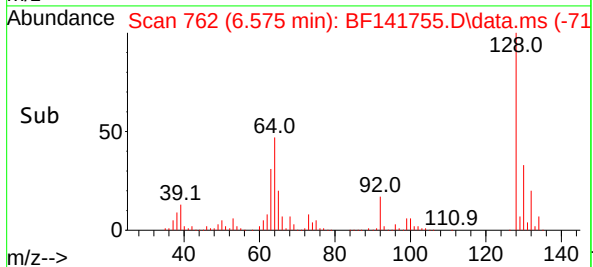
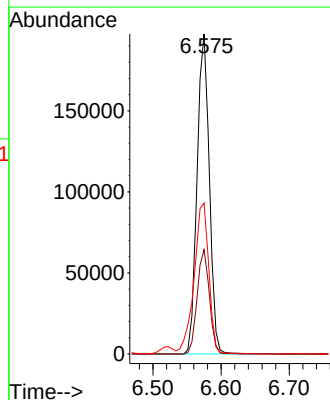
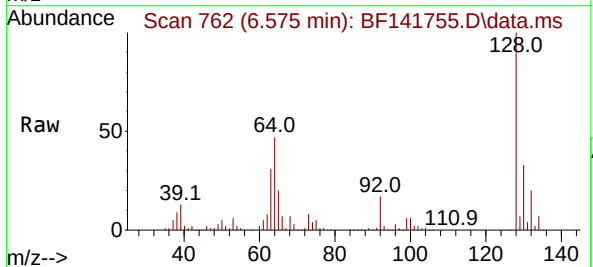
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

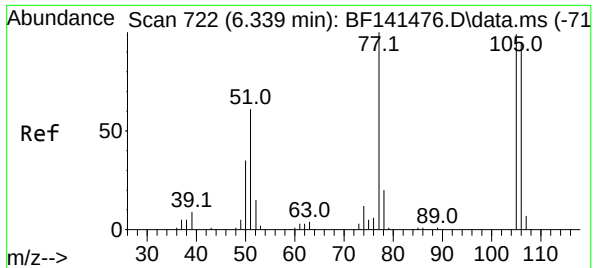
Tgt Ion: 99 Resp: 561086
Ion Ratio Lower Upper
99 100
42 21.0 19.1 28.7
71 36.4 31.1 46.7



#8
2-Chlorophenol
Concen: 42.450 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 128 Resp: 245401
Ion Ratio Lower Upper
128 100
130 32.6 12.7 52.7
64 47.2 28.3 68.3

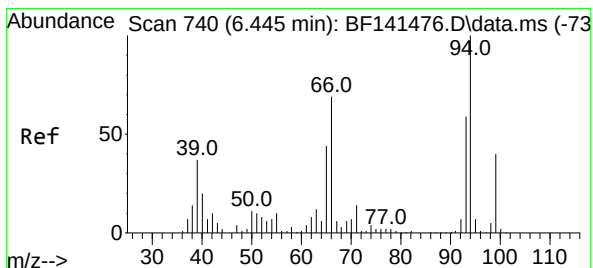
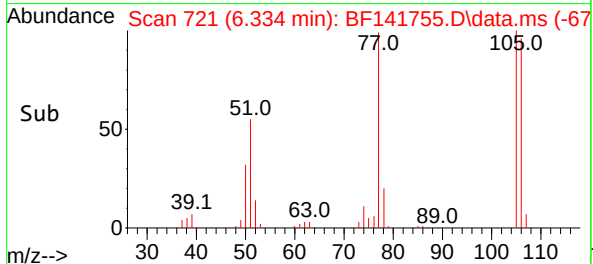
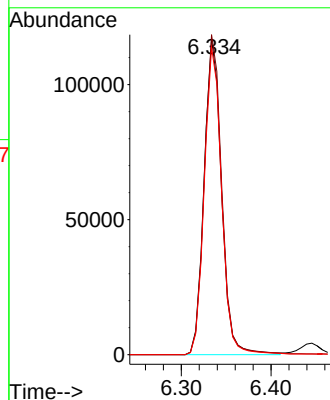
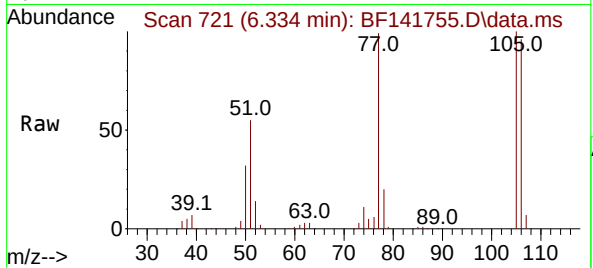




#9
Benzaldehyde
Concen: 43.804 ng
RT: 6.334 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

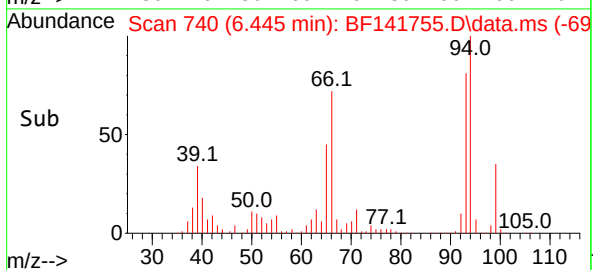
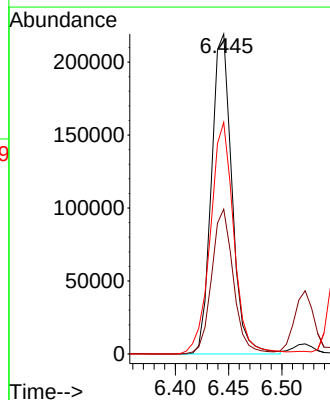
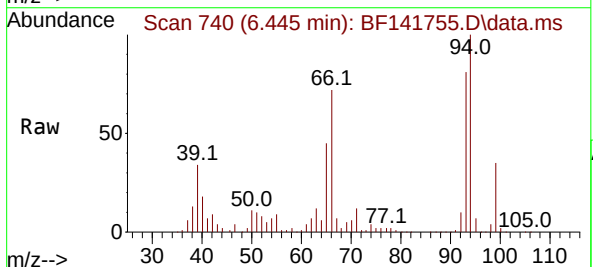
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

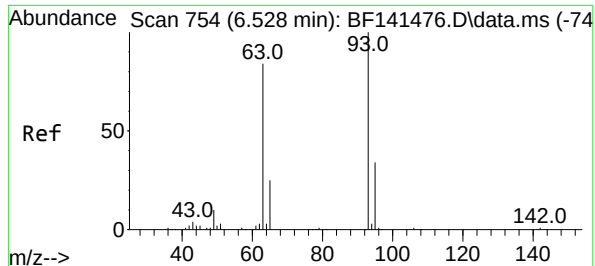
Tgt Ion: 77 Resp: 157405
Ion Ratio Lower Upper
77 100
105 101.4 79.4 119.4
106 97.4 75.1 115.1



#10
Phenol
Concen: 41.592 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion: 94 Resp: 292725
Ion Ratio Lower Upper
94 100
65 45.3 23.7 63.7
66 72.3 49.3 89.3

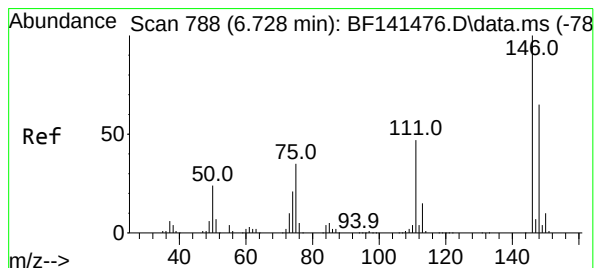
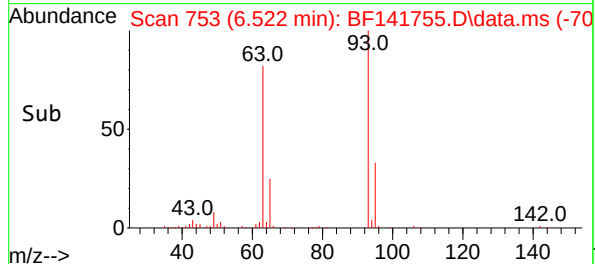
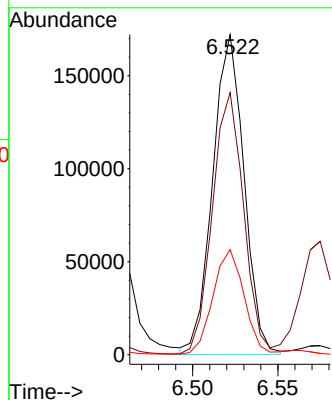
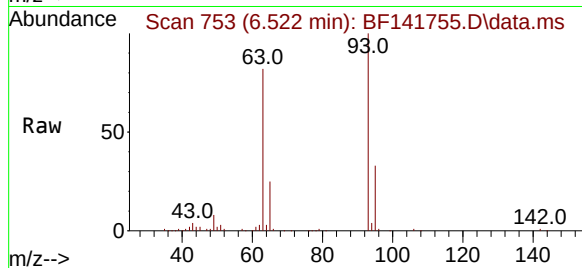




#11
bis(2-Chloroethyl)ether
Concen: 41.592 ng
RT: 6.522 min Scan# 714
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

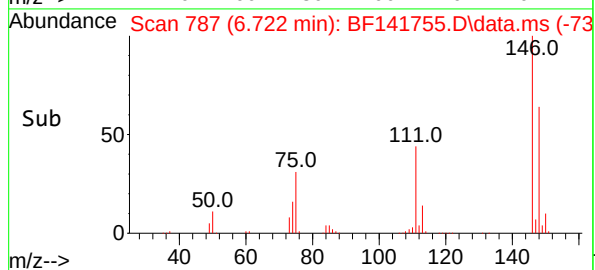
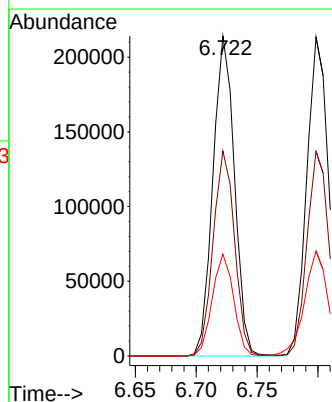
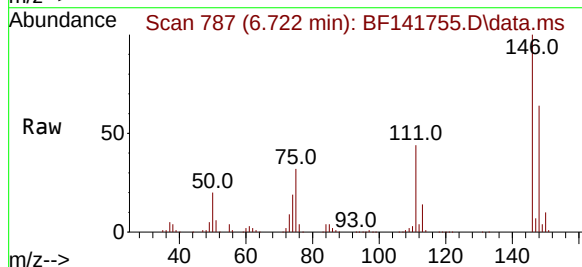
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

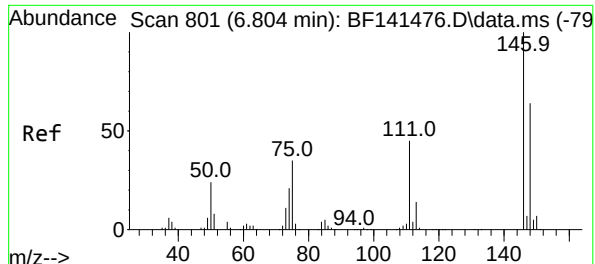
Tgt Ion: 93 Resp: 219867
Ion Ratio Lower Upper
93 100
63 81.9 62.0 102.0
95 32.8 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 43.146 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:146 Resp: 263327
Ion Ratio Lower Upper
146 100
148 64.1 51.9 77.9
75 31.8 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 42.757 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

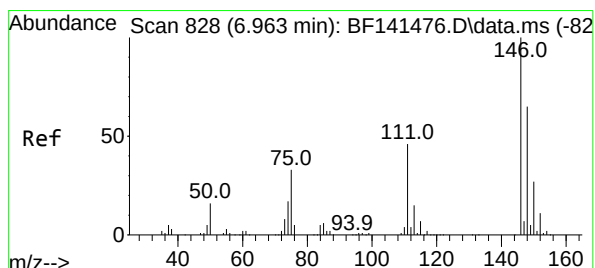
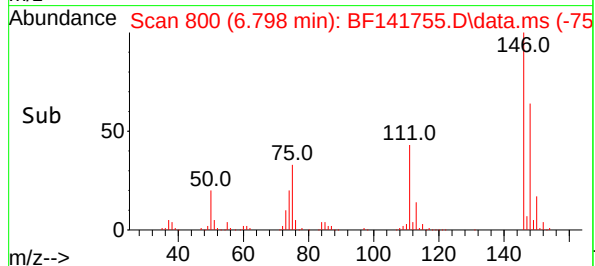
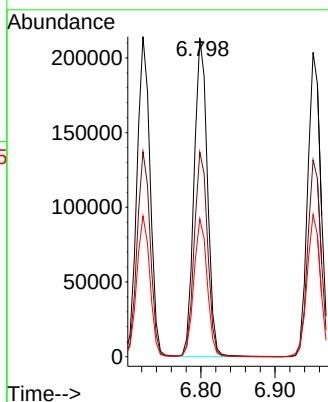
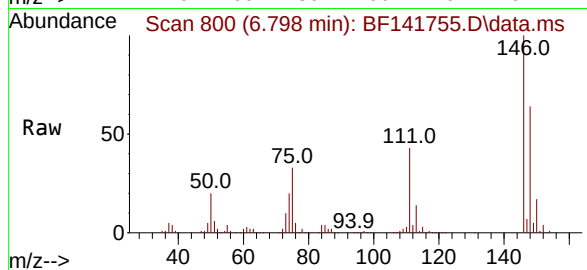
Tgt Ion:146 Resp: 266619

Ion Ratio Lower Upper

146 100

148 64.2 50.9 76.3

111 43.2 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 43.218 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

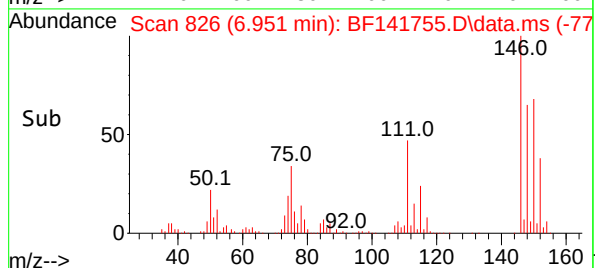
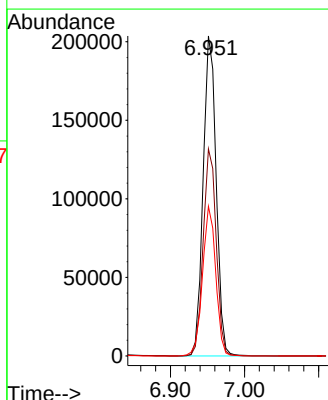
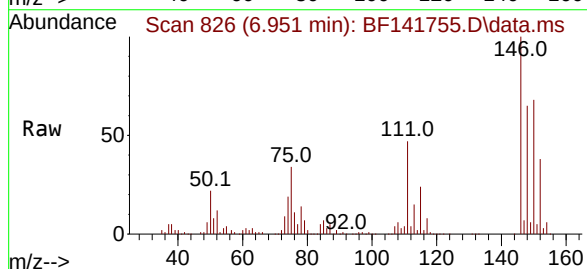
Tgt Ion:146 Resp: 250123

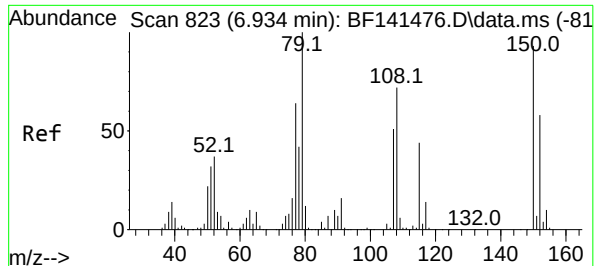
Ion Ratio Lower Upper

146 100

148 64.7 51.8 77.6

111 46.7 37.0 55.4





#15

Benzyl Alcohol

Concen: 39.710 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

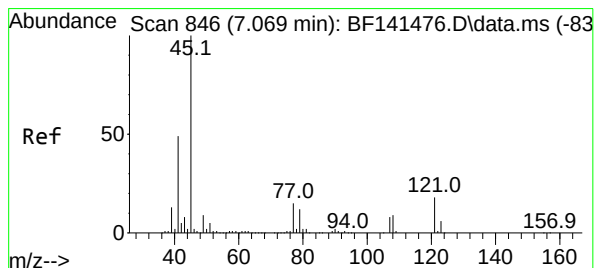
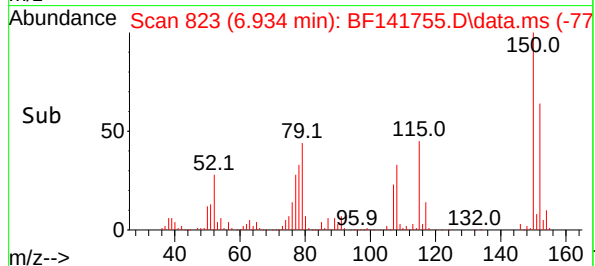
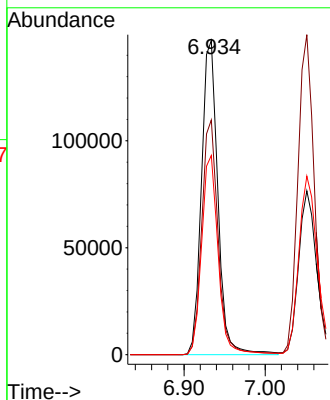
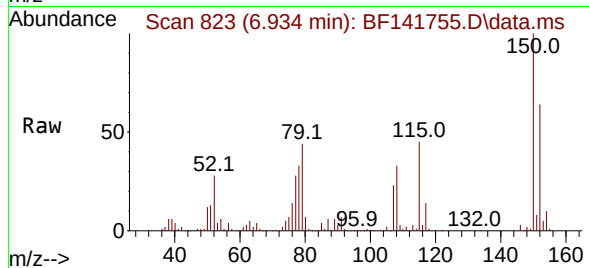
Tgt Ion: 79 Resp: 205915

Ion Ratio Lower Upper

79 100

108 74.7 57.4 86.2

77 63.4 50.9 76.3



#16

2,2'-oxybis(1-chloropropane)

Concen: 38.422 ng

RT: 7.057 min Scan# 844

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

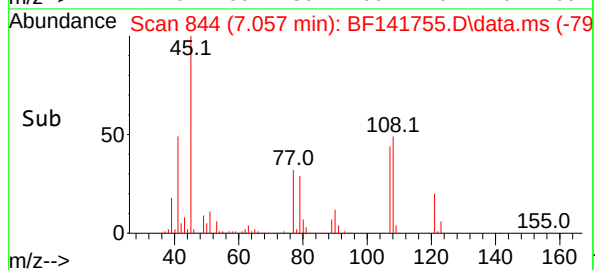
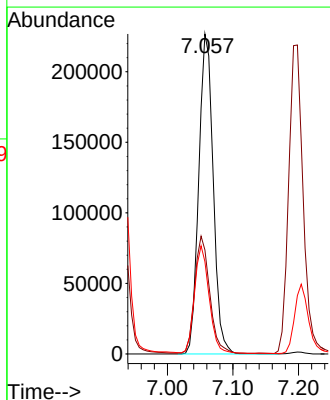
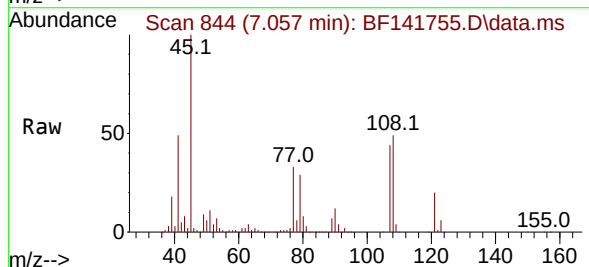
Tgt Ion: 45 Resp: 347691

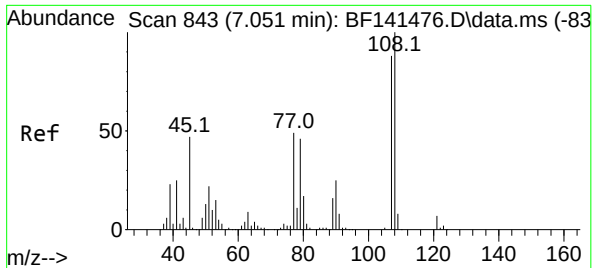
Ion Ratio Lower Upper

45 100

77 32.5 0.0 35.8

79 28.8 0.0 32.7

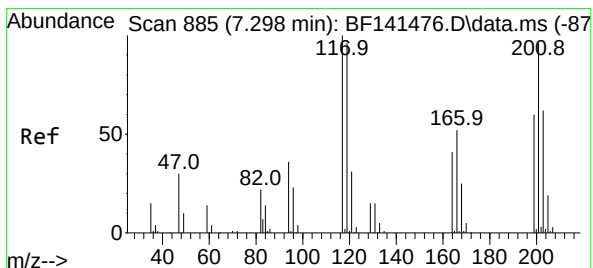
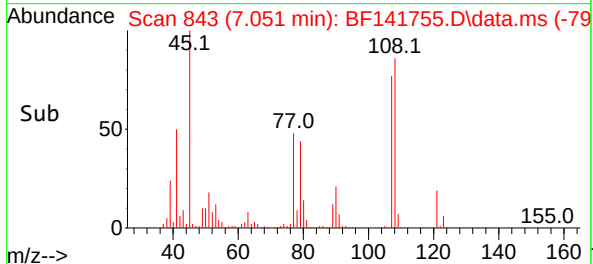
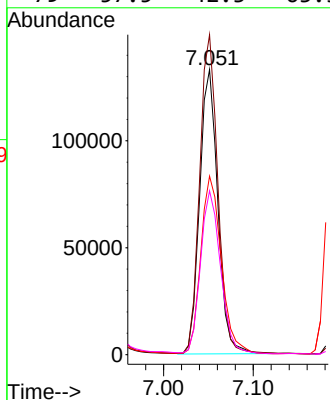
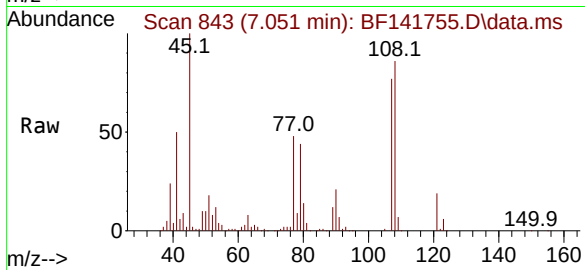




#17
2-Methylphenol
Concen: 41.327 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

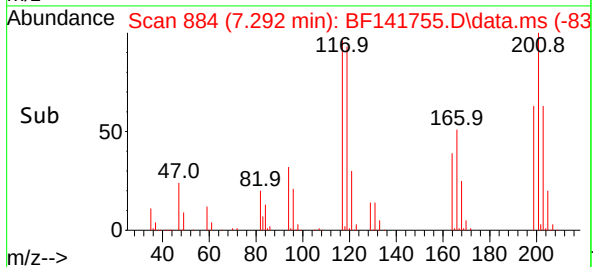
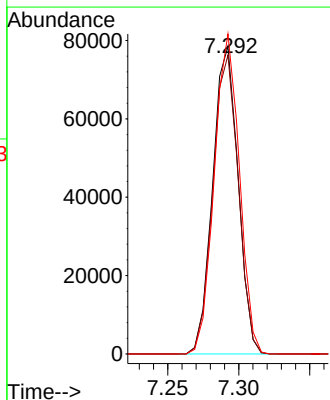
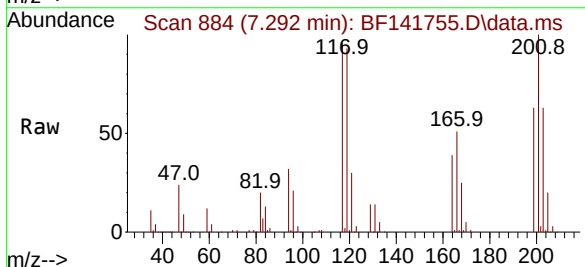
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

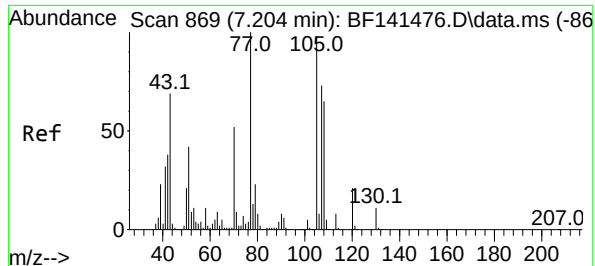
Tgt Ion:107 Resp: 186964
Ion Ratio Lower Upper
107 100
108 112.2 90.6 136.0
77 62.7 44.4 66.6
79 57.5 42.3 63.5



#18
Hexachloroethane
Concen: 42.225 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:117 Resp: 97445
Ion Ratio Lower Upper
117 100
119 97.1 76.5 114.7
201 103.9 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 41.150 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.018 min

Lab File: BF141755.D

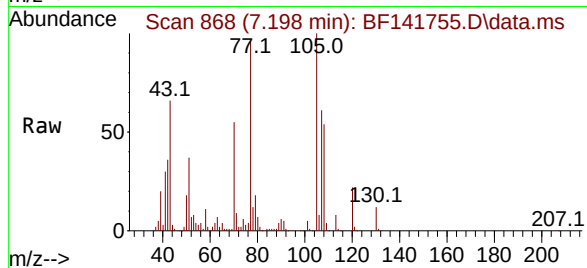
Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040



Tgt Ion: 70 Resp: 166444

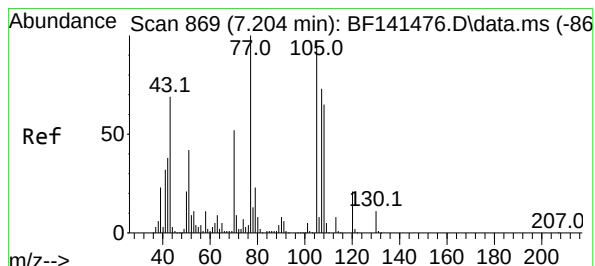
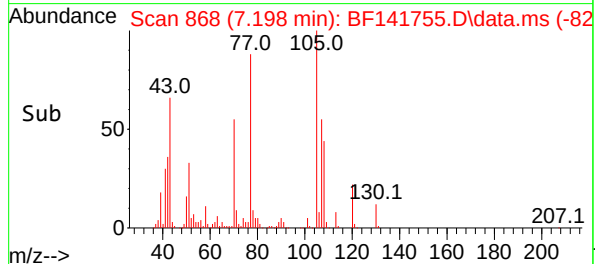
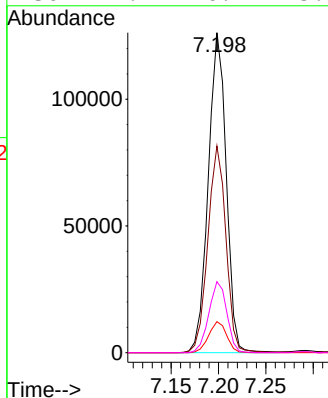
Ion Ratio Lower Upper

70 100

42 64.6 57.4 86.2

101 9.7 8.0 12.0

130 22.2 16.9 25.3



#20

3+4-Methylphenols

Concen: 42.065 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Tgt Ion: 107 Resp: 241843

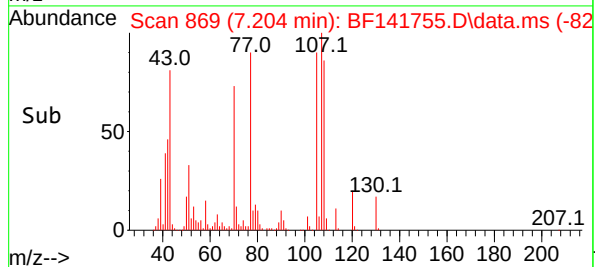
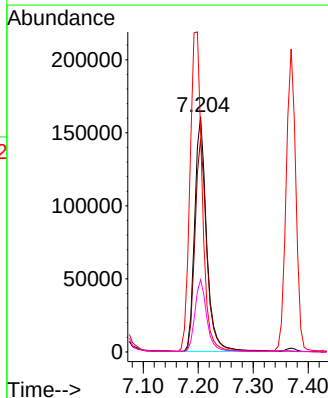
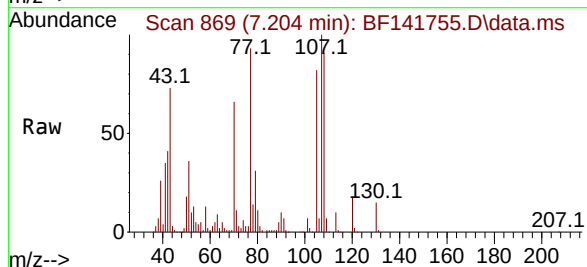
Ion Ratio Lower Upper

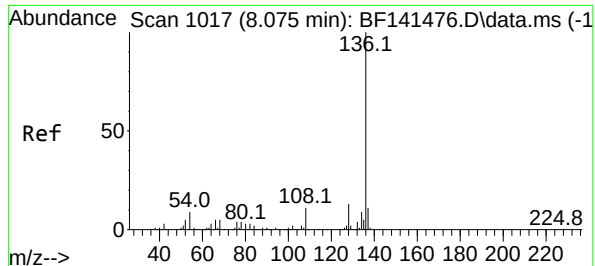
107 100

108 90.7 68.5 108.5

77 93.4 116.5 156.5#

79 30.7 12.0 52.0

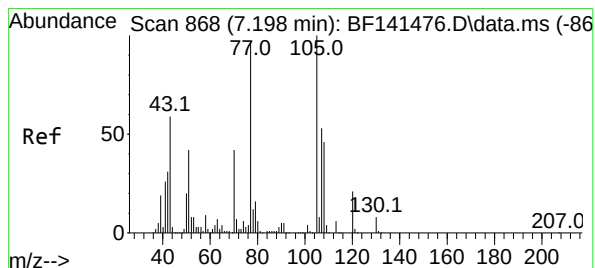
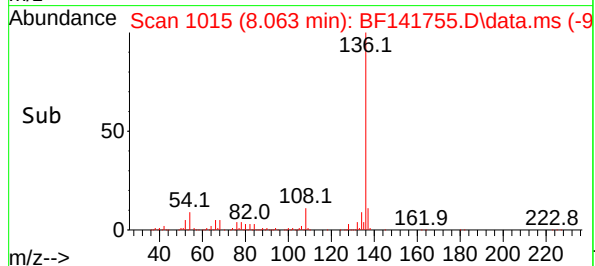
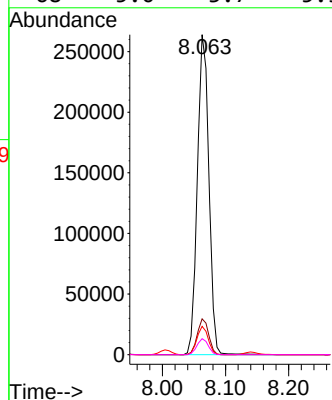
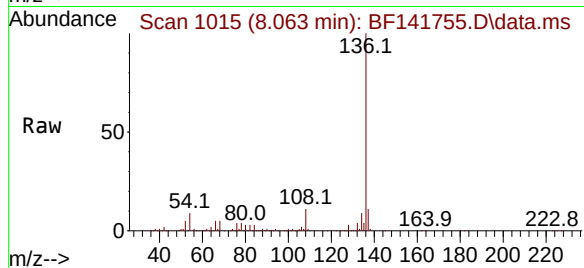




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

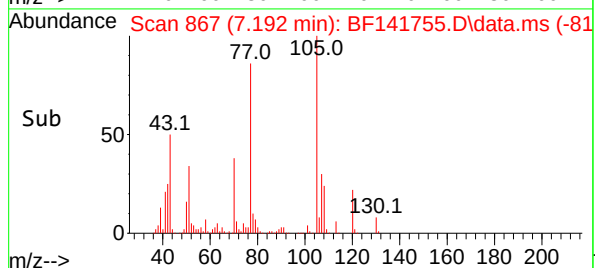
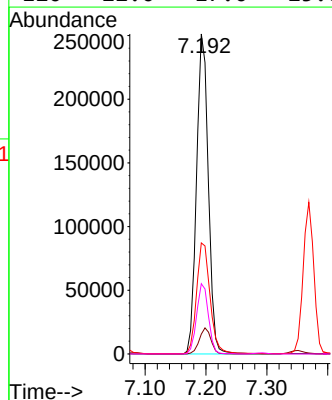
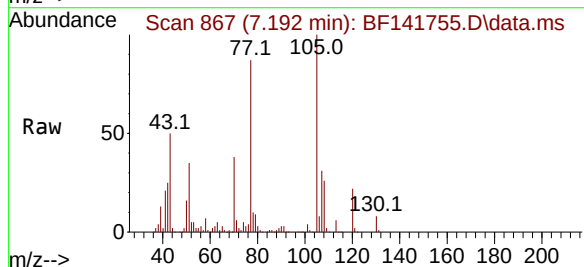
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

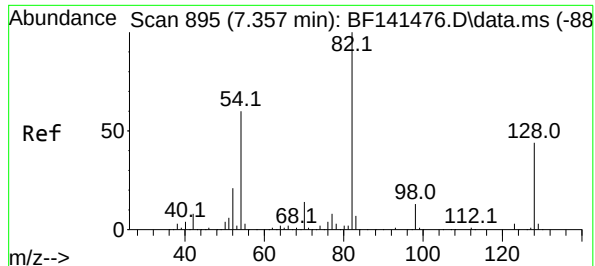
Tgt Ion:136 Resp: 333850
Ion Ratio Lower Upper
136 100
137 11.2 8.6 13.0
54 8.9 7.2 10.8
68 5.0 3.7 5.5



#22
Acetophenone
Concen: 40.679 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:105 Resp: 337823
Ion Ratio Lower Upper
105 100
71 6.2 5.7 8.5
51 34.7 33.7 50.5
120 22.0 17.0 25.6





#23

Nitrobenzene-d5

Concen: 80.153 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

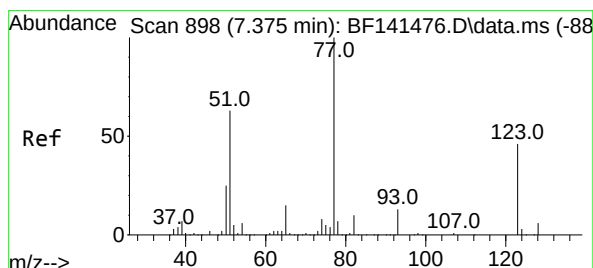
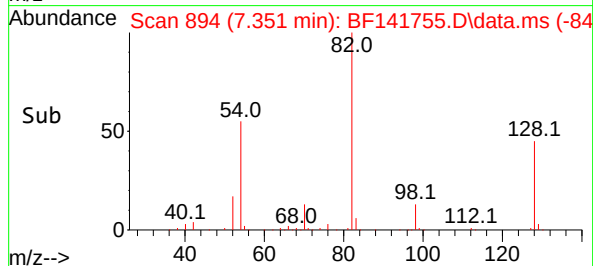
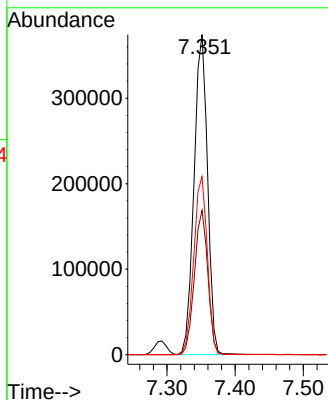
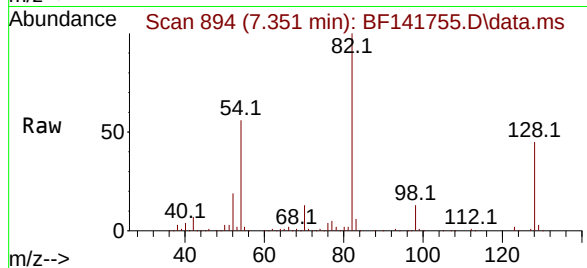
BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 513035

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.8	52.2
54	55.7	48.2	72.4



#24

Nitrobenzene

Concen: 40.343 ng

RT: 7.369 min Scan# 897

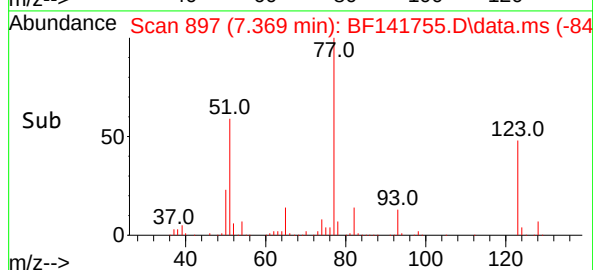
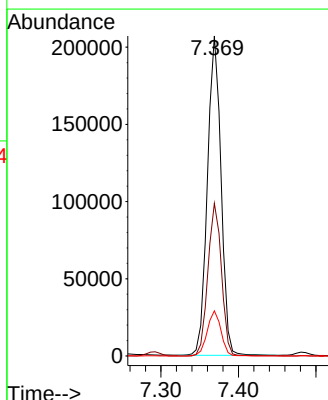
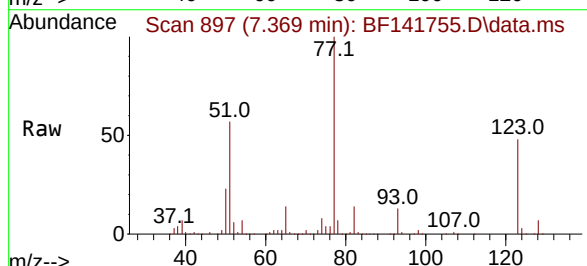
Delta R.T. -0.012 min

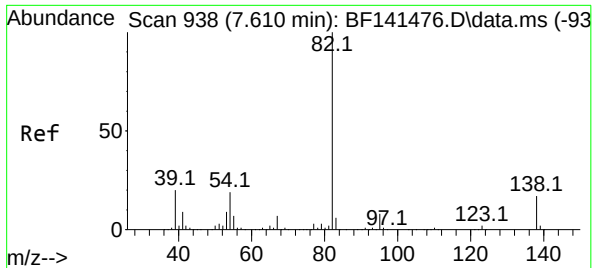
Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Tgt Ion: 77 Resp: 251798

Ion	Ratio	Lower	Upper
77	100		
123	47.7	36.9	55.3
65	14.1	11.9	17.9

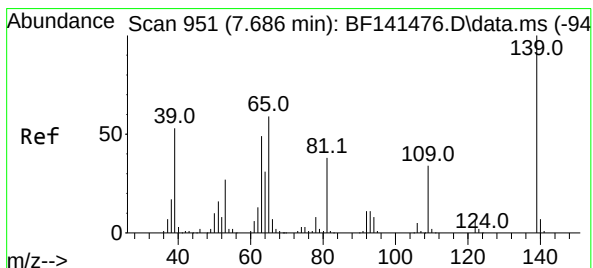
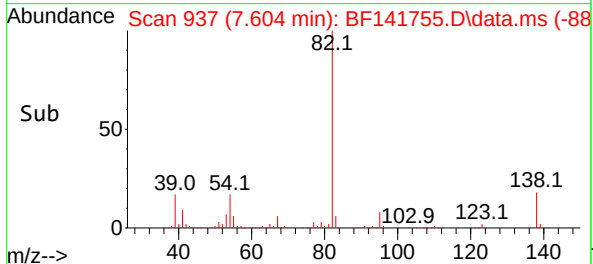
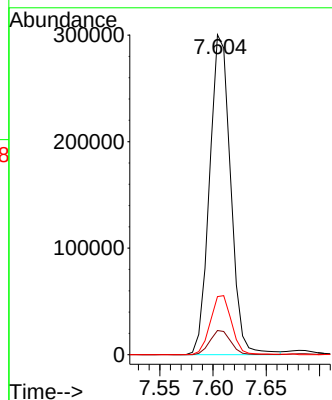
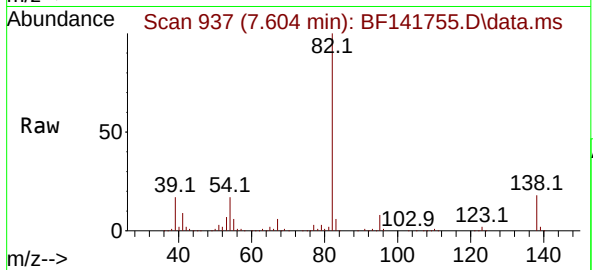




#25
Isophorone
Concen: 40.460 ng
RT: 7.604 min Scan# 91
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

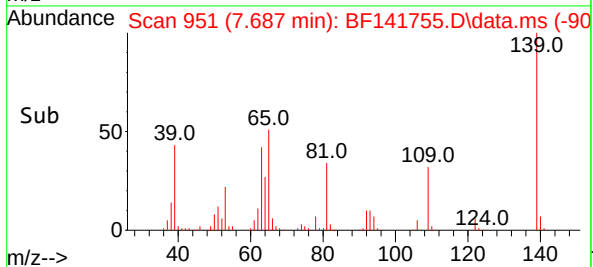
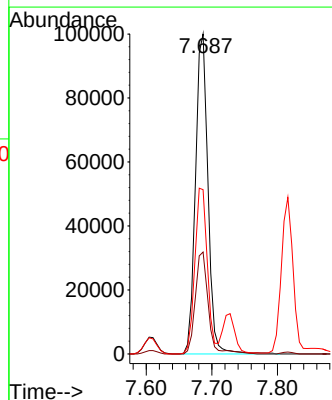
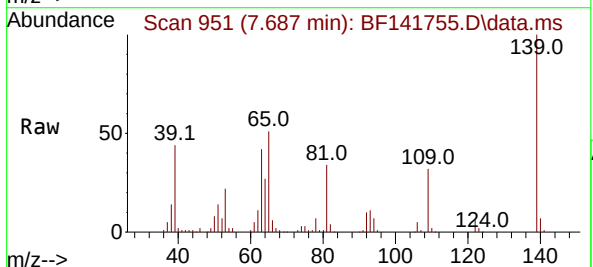
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

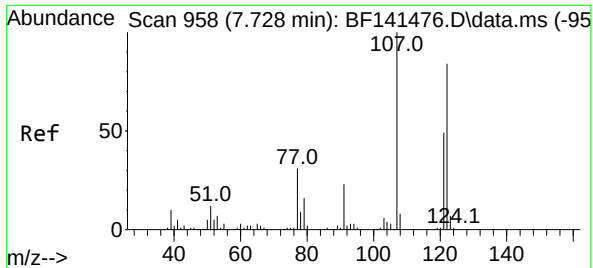
Tgt Ion: 82 Resp: 412929
Ion Ratio Lower Upper
82 100
95 7.5 6.4 9.6
138 18.2 13.9 20.9



#26
2-Nitrophenol
Concen: 42.764 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:139 Resp: 132793
Ion Ratio Lower Upper
139 100
109 31.8 27.0 40.6
65 51.4 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 42.025 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

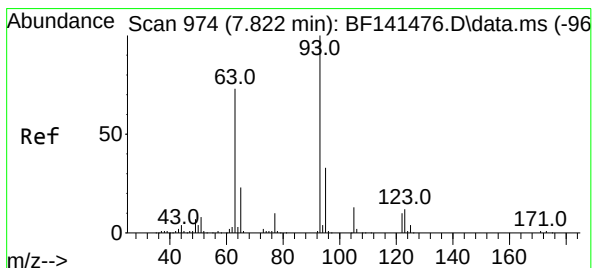
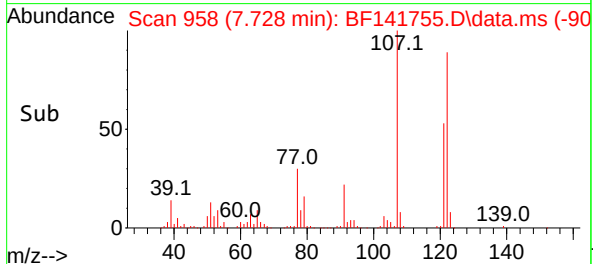
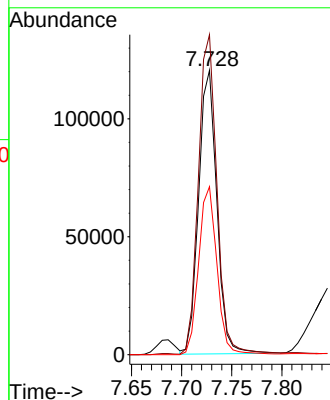
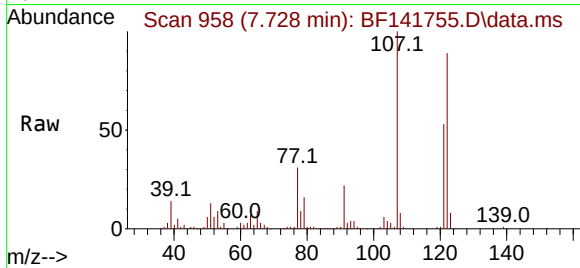
Tgt Ion:122 Resp: 152449

Ion Ratio Lower Upper

122 100

107 112.6 94.3 141.5

121 59.1 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 41.812 ng

RT: 7.816 min Scan# 973

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

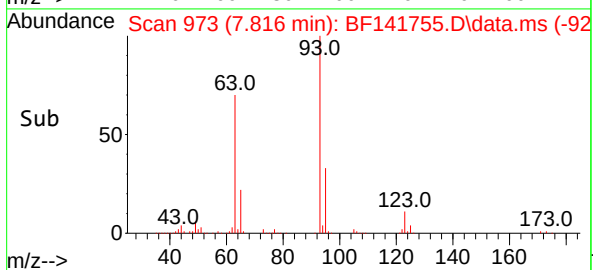
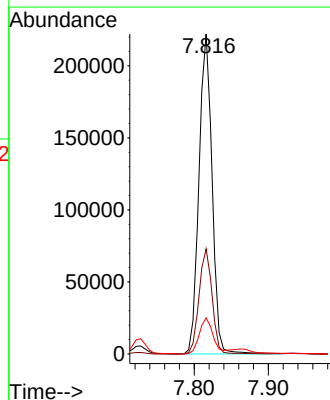
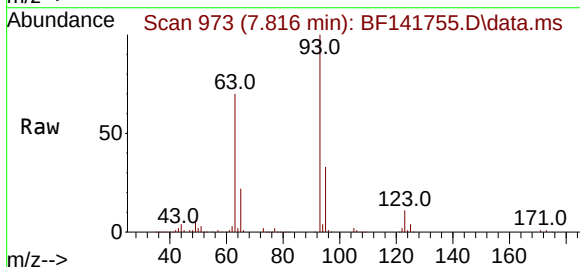
Tgt Ion: 93 Resp: 273434

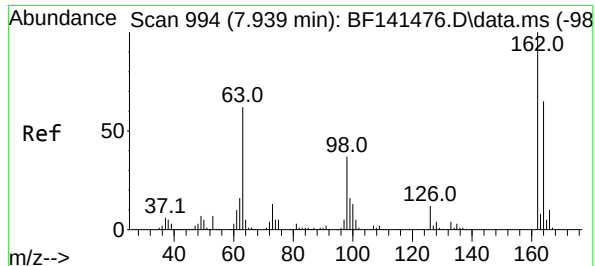
Ion Ratio Lower Upper

93 100

95 32.8 26.1 39.1

123 11.3 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 41.878 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

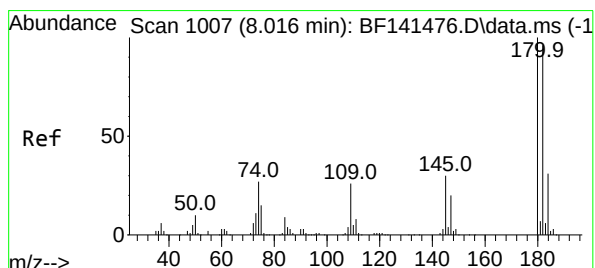
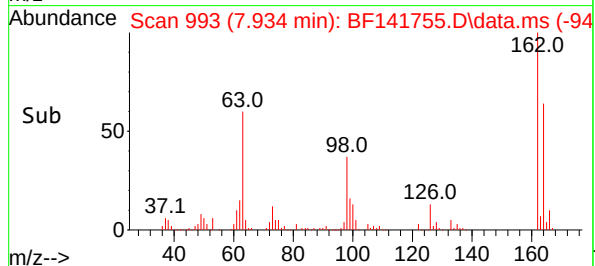
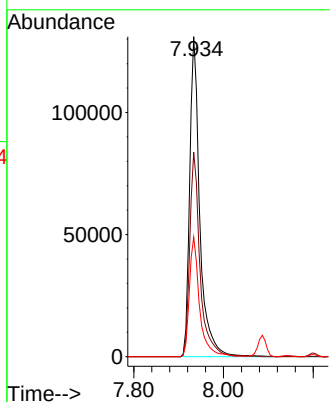
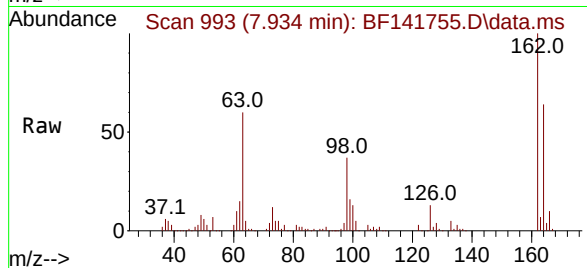
Tgt Ion:162 Resp: 205263

Ion Ratio Lower Upper

162 100

164 63.9 44.6 84.6

98 37.4 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 41.760 ng

RT: 8.004 min Scan# 1005

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

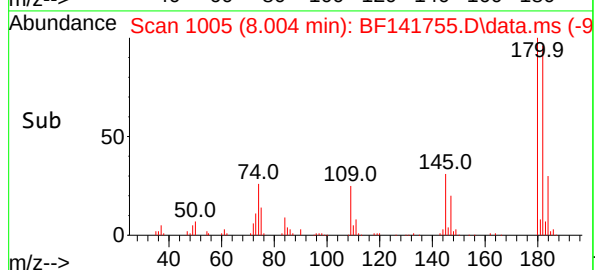
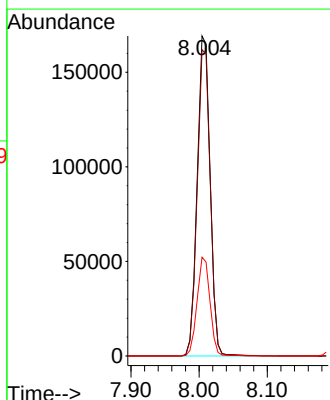
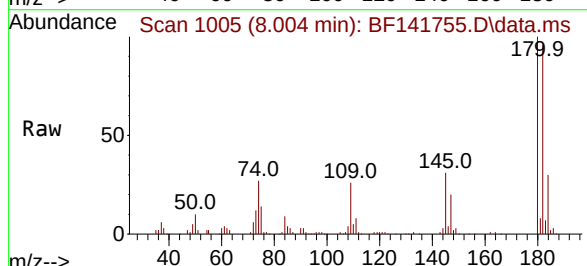
Tgt Ion:180 Resp: 222891

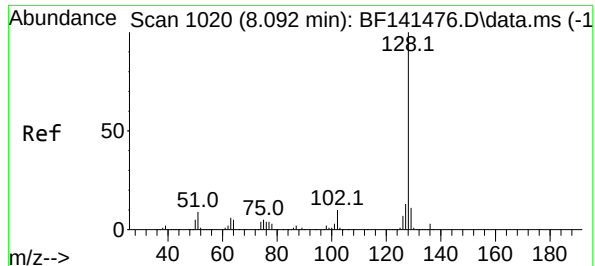
Ion Ratio Lower Upper

180 100

182 95.7 76.8 115.2

145 30.8 24.2 36.4





#31

Naphthalene

Concen: 41.216 ng

RT: 8.086 min Scan# 10

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

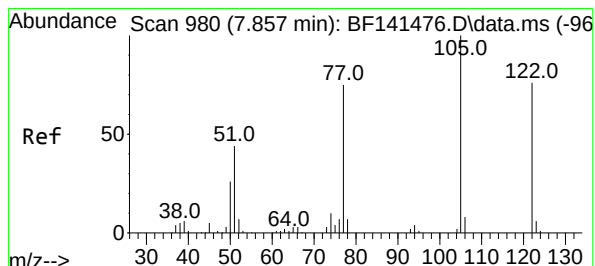
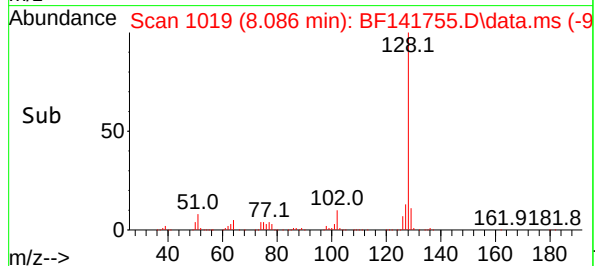
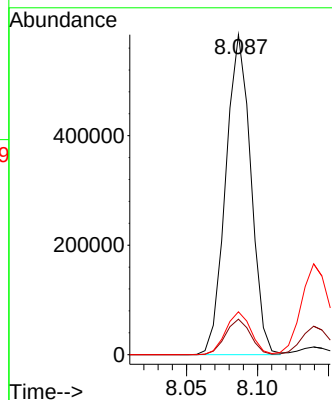
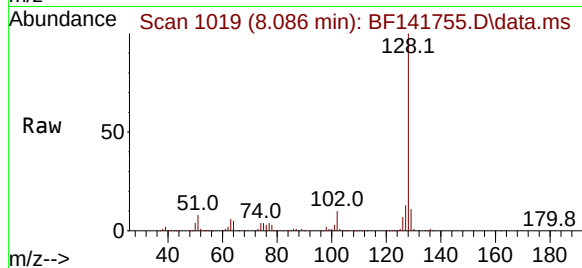
Tgt Ion:128 Resp: 716264

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.4 10.7 16.1



#32

Benzoic acid

Concen: 32.162 ng

RT: 7.863 min Scan# 981

Delta R.T. -0.029 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

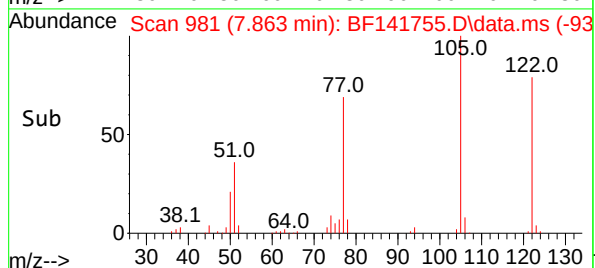
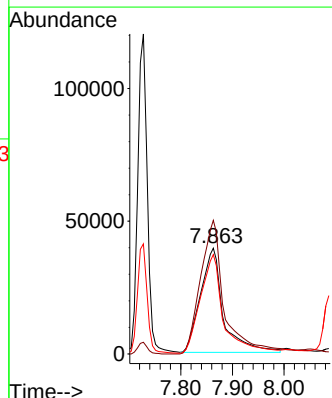
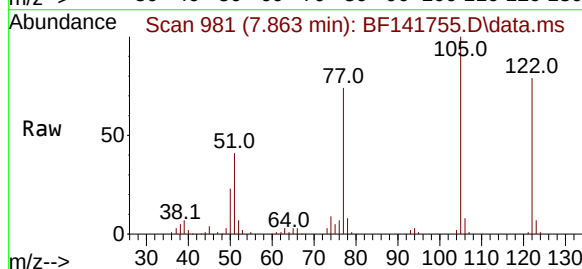
Tgt Ion:122 Resp: 121186

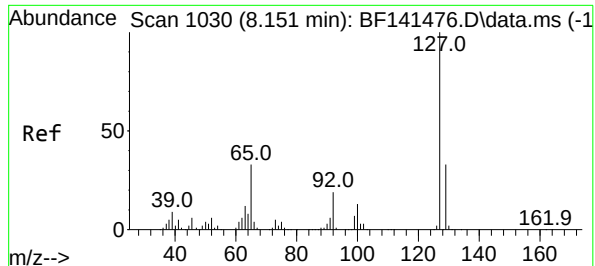
Ion Ratio Lower Upper

122 100

105 126.4 106.5 146.5

77 94.0 76.3 116.3





#33

4-Chloroaniline

Concen: 41.733 ng

RT: 8.139 min Scan# 1030

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:127 Resp: 253211

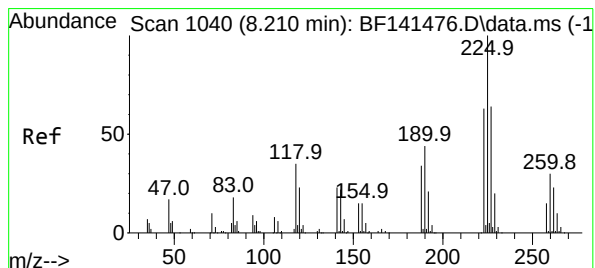
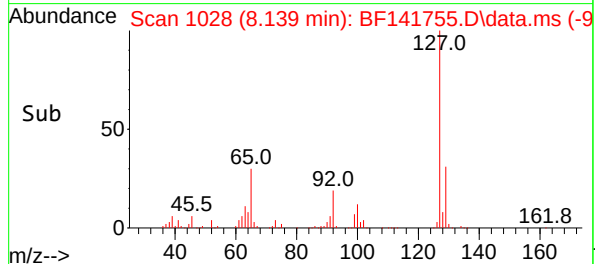
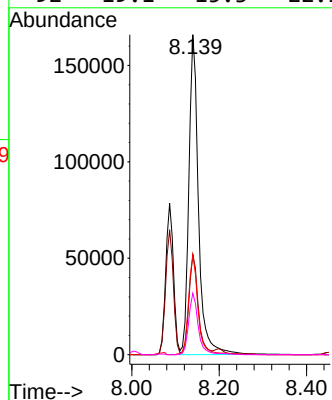
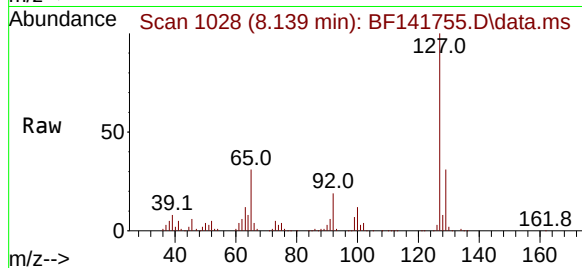
Ion Ratio Lower Upper

127 100

129 31.3 26.5 39.7

65 31.1 26.4 39.6

92 19.1 15.3 22.9



#34

Hexachlorobutadiene

Concen: 41.794 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

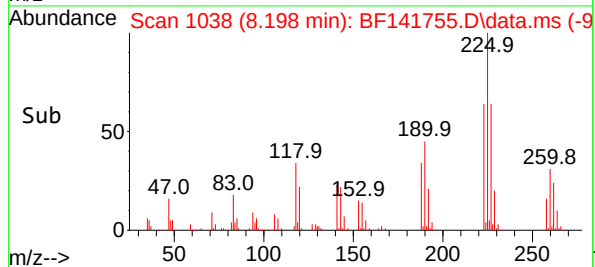
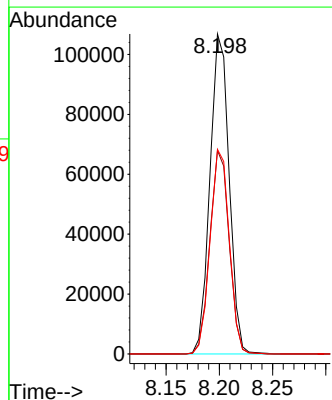
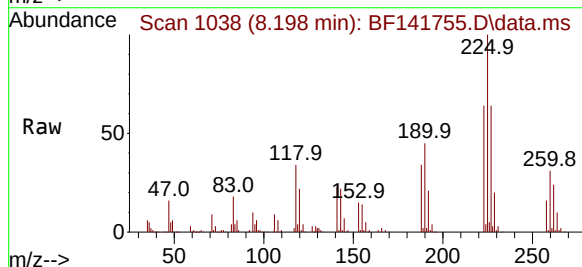
Tgt Ion:225 Resp: 133921

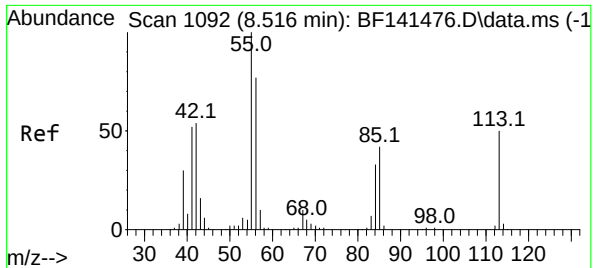
Ion Ratio Lower Upper

225 100

223 63.6 50.1 75.1

227 63.9 51.0 76.6





#35

Caprolactam

Concen: 38.568 ng

RT: 8.516 min Scan# 1109

Delta R.T. -0.029 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

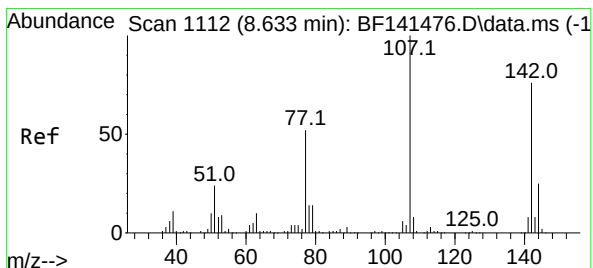
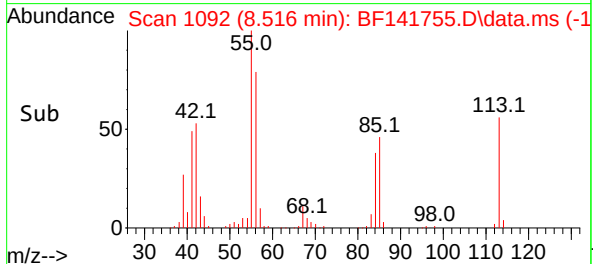
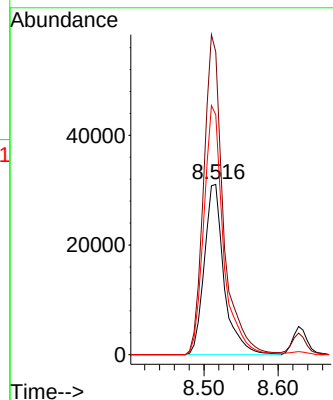
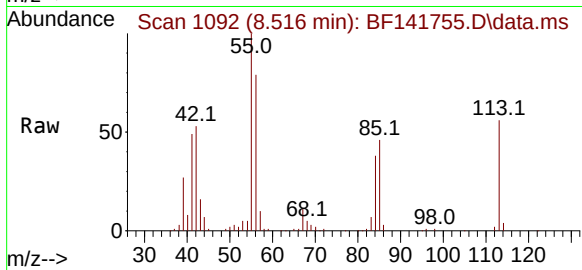
Tgt Ion:113 Resp: 57557

Ion Ratio Lower Upper

113 100

55 177.7 180.8 220.8#

56 140.9 133.6 173.6



#36

4-Chloro-3-methylphenol

Concen: 39.939 ng

RT: 8.628 min Scan# 1111

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

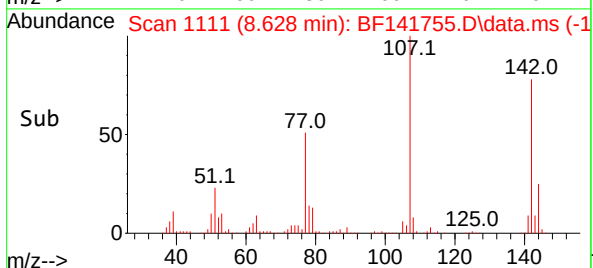
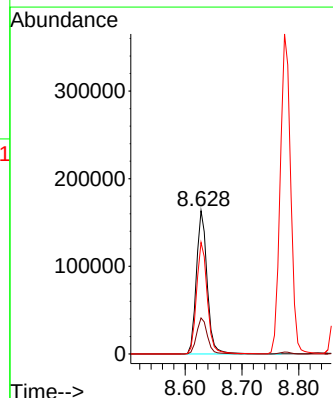
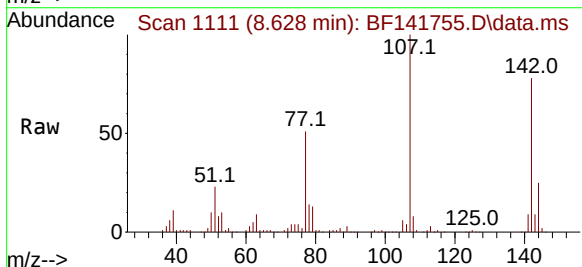
Tgt Ion:107 Resp: 216842

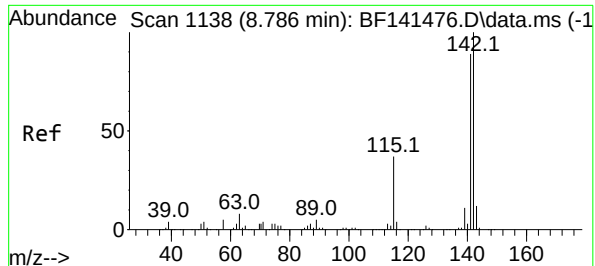
Ion Ratio Lower Upper

107 100

144 25.2 19.7 29.5

142 77.9 60.8 91.2





#37

2-Methylnaphthalene

Concen: 41.309 ng

RT: 8.775 min Scan# 1136

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

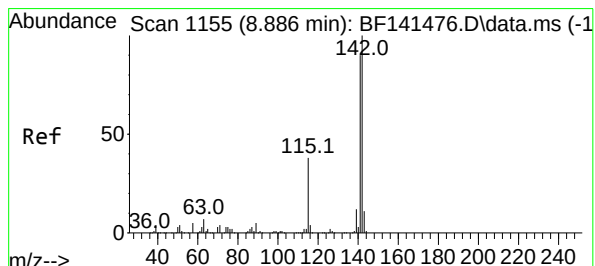
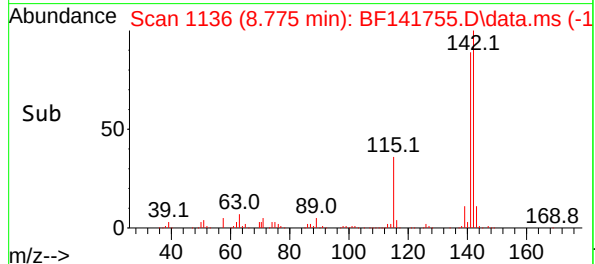
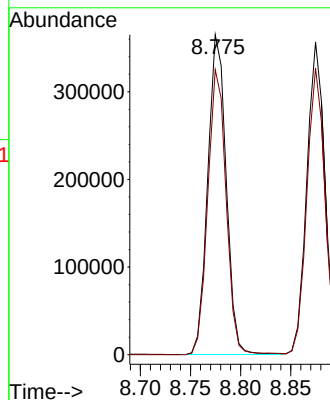
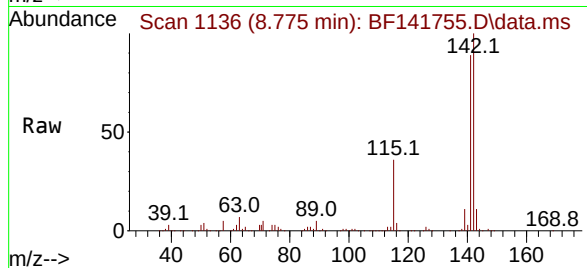
SSTDCCC040

Tgt Ion:142 Resp: 467144

Ion Ratio Lower Upper

142 100

141 89.0 71.2 106.8



#38

1-Methylnaphthalene

Concen: 40.360 ng

RT: 8.875 min Scan# 1153

Delta R.T. -0.012 min

Lab File: BF141755.D

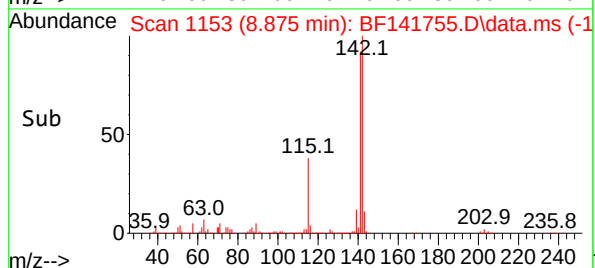
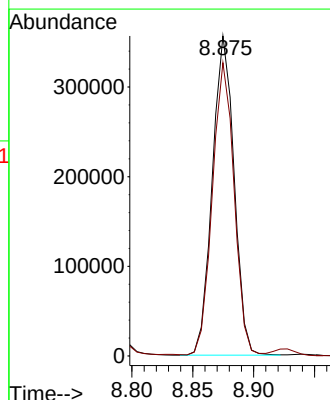
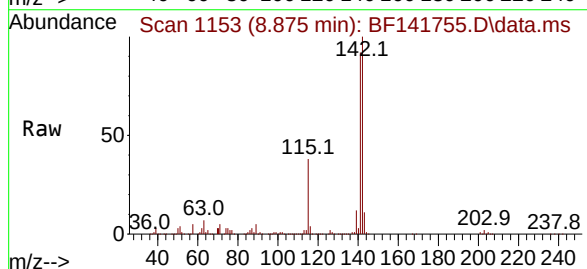
Acq: 25 Feb 2025 10:34

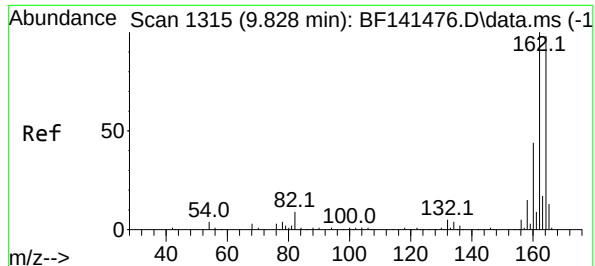
Tgt Ion:142 Resp: 442044

Ion Ratio Lower Upper

142 100

141 91.7 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1165

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

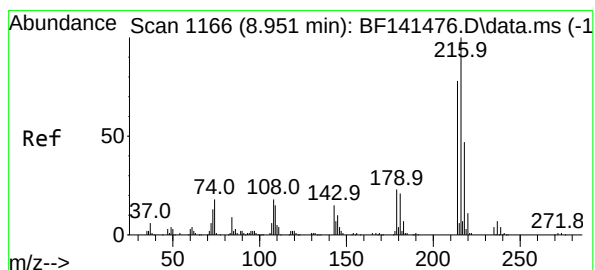
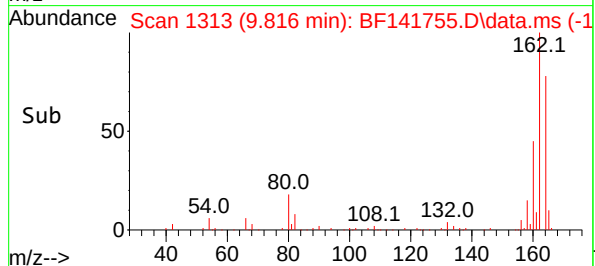
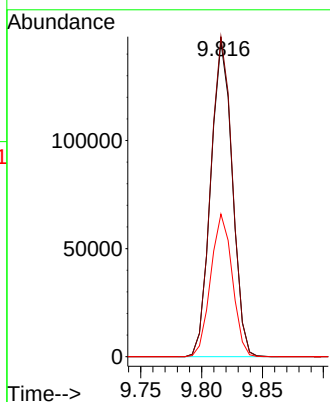
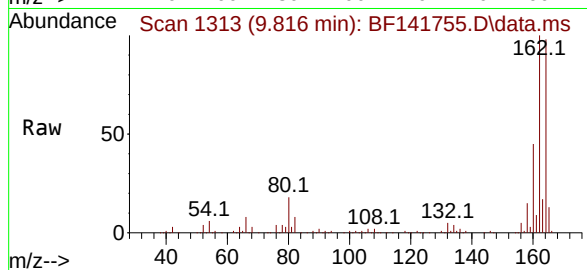
Tgt Ion:164 Resp: 179797

Ion Ratio Lower Upper

164 100

162 101.6 81.3 121.9

160 45.3 35.9 53.9



#40

1,2,4,5-Tetrachlorobenzene

Concen: 42.881 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Tgt Ion:216 Resp: 223056

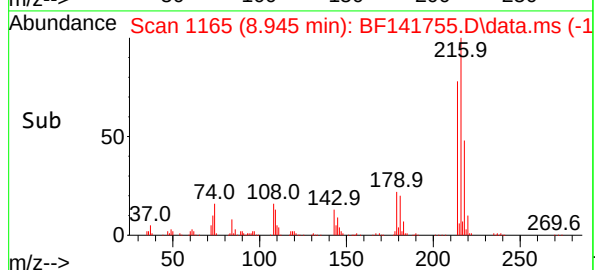
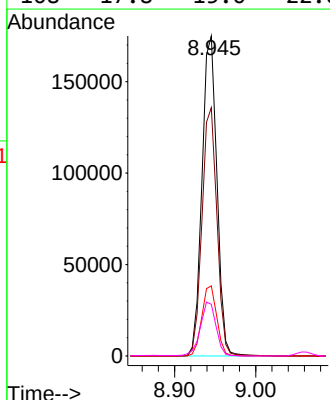
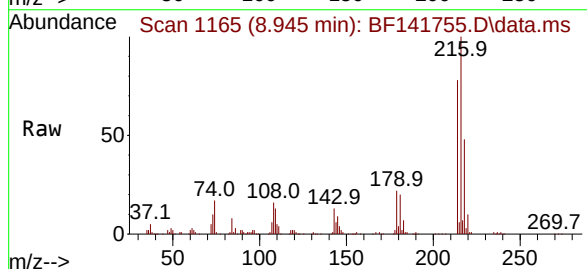
Ion Ratio Lower Upper

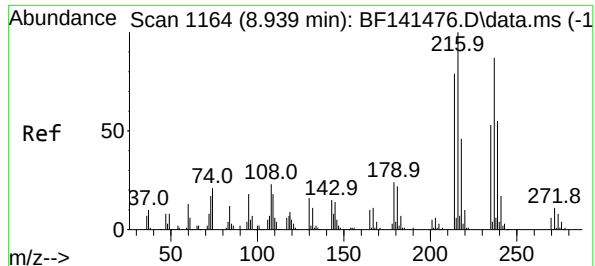
216 100

214 77.5 62.3 93.5

179 21.9 18.0 27.0

108 17.8 15.0 22.6

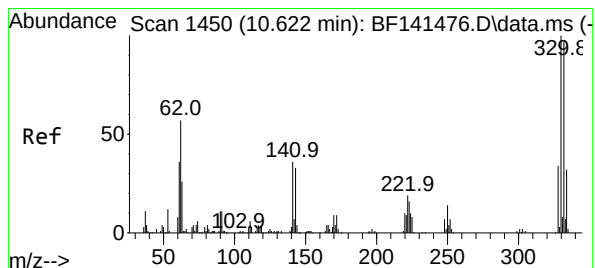
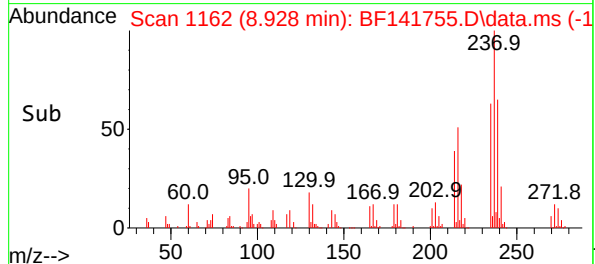
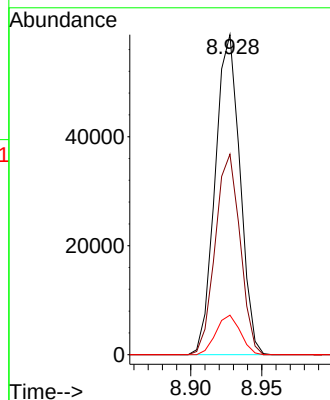
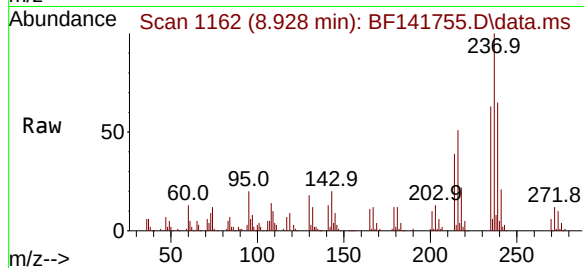




#41
Hexachlorocyclopentadiene
Concen: 41.208 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

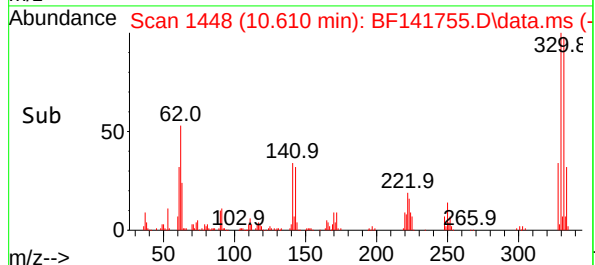
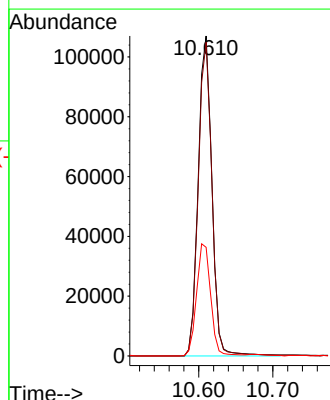
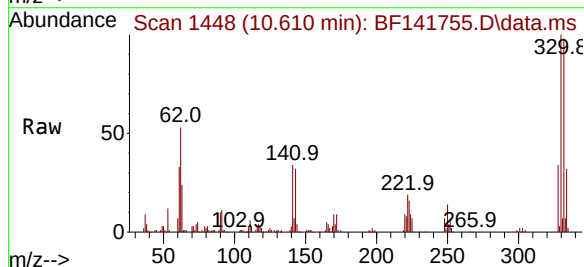
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

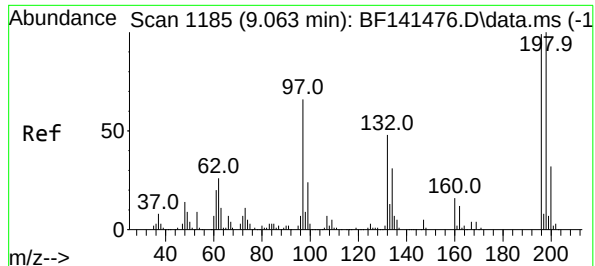
Tgt Ion:237 Resp: 71295
Ion Ratio Lower Upper
237 100
235 62.7 41.4 81.4
272 12.4 0.0 32.4



#42
2,4,6-Tribromophenol
Concen: 76.201 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:330 Resp: 137629
Ion Ratio Lower Upper
330 100
332 98.0 78.5 117.7
141 36.0 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 40.921 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

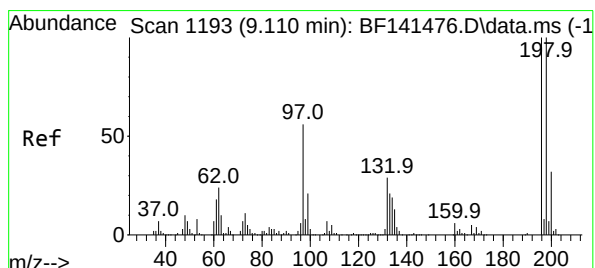
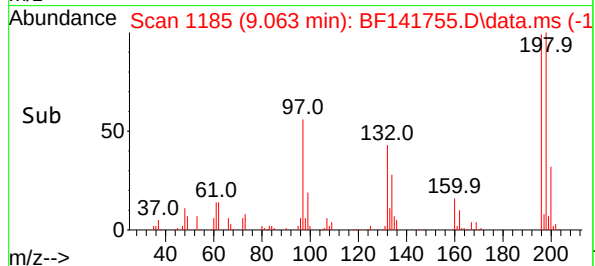
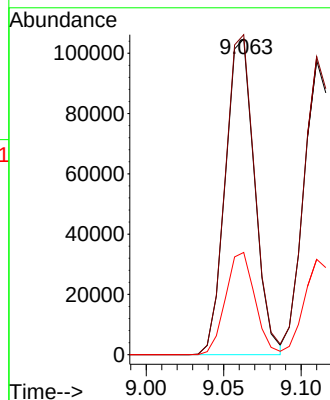
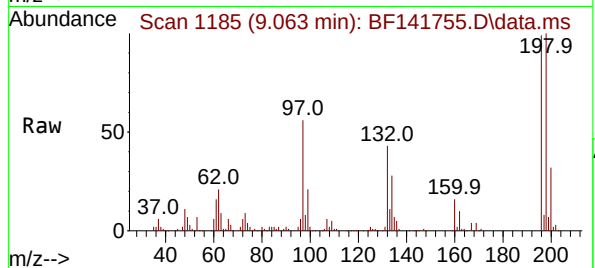
Tgt Ion:196 Resp: 137576

Ion Ratio Lower Upper

196 100

198 101.4 80.6 121.0

200 32.4 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 39.849 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Tgt Ion:196 Resp: 145193

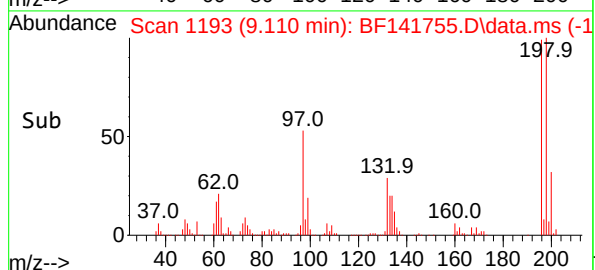
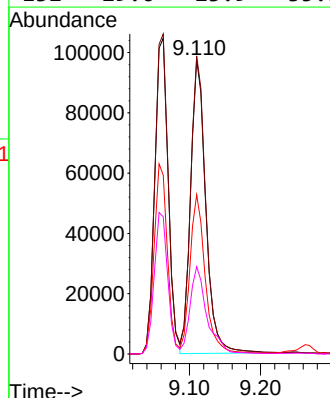
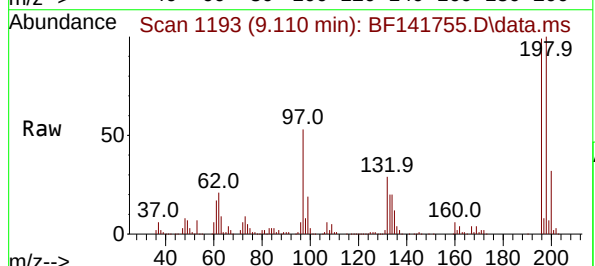
Ion Ratio Lower Upper

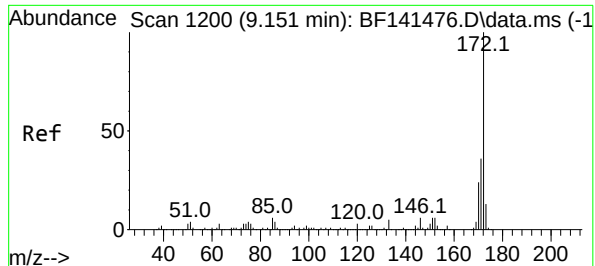
196 100

198 101.3 79.8 119.8

97 54.1 44.8 67.2

132 29.6 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 82.817 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

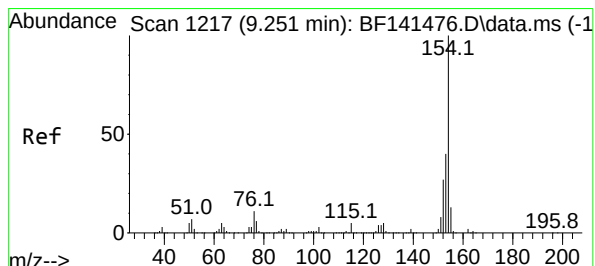
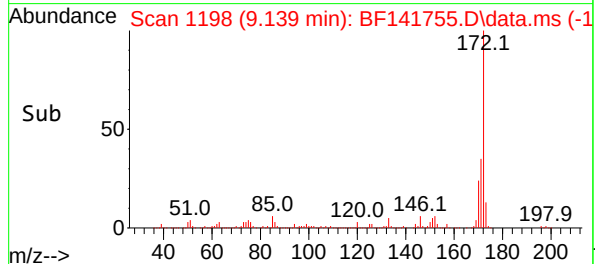
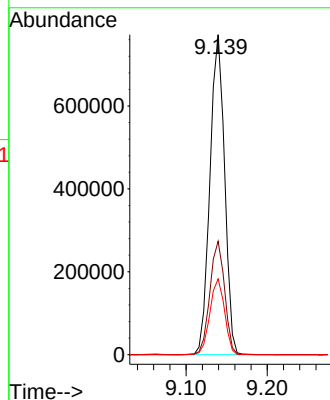
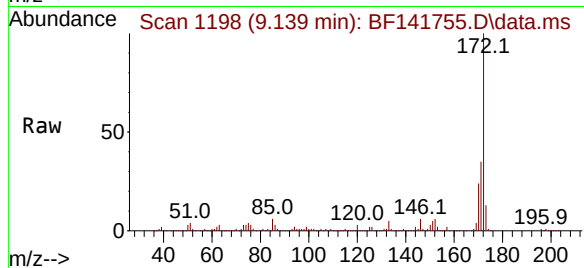
Tgt Ion:172 Resp: 966496

Ion Ratio Lower Upper

172 100

171 35.5 28.7 43.1

170 23.7 18.9 28.3



#46

1,1'-Biphenyl

Concen: 41.602 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

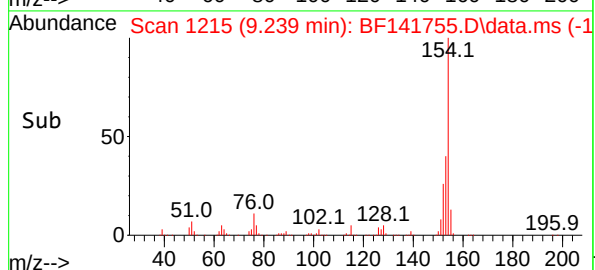
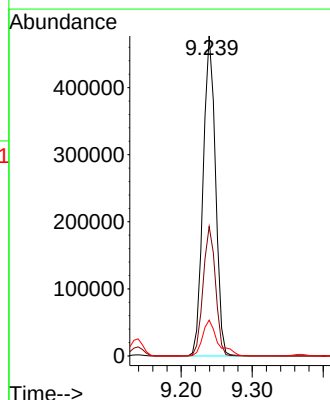
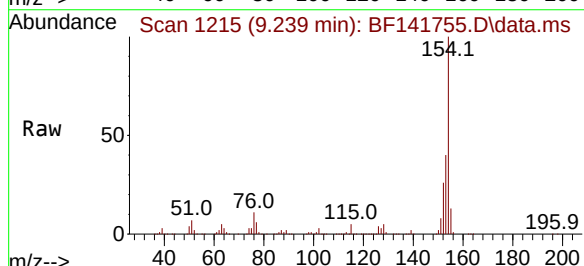
Tgt Ion:154 Resp: 579898

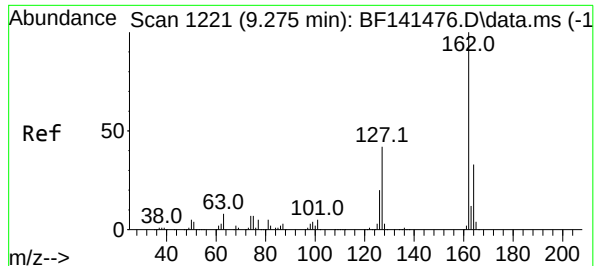
Ion Ratio Lower Upper

154 100

153 40.4 20.4 60.4

76 11.2 0.0 30.8





#47

2-Chloronaphthalene

Concen: 41.952 ng

RT: 9.263 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

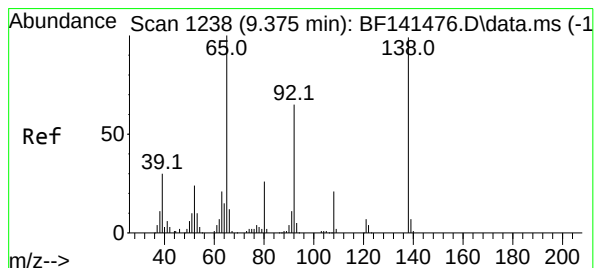
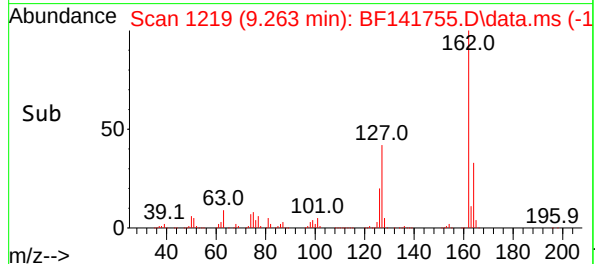
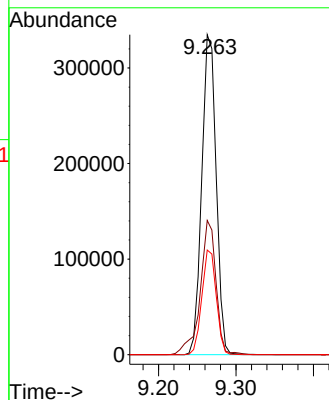
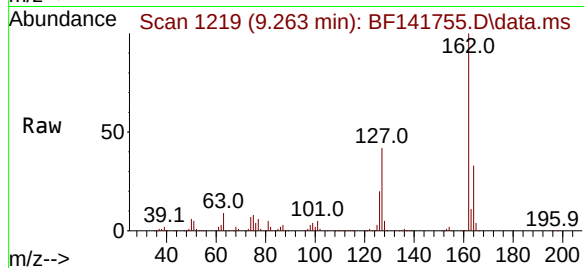
Tgt Ion:162 Resp: 432433

Ion Ratio Lower Upper

162 100

127 42.0 34.1 51.1

164 32.7 26.3 39.5



#48

2-Nitroaniline

Concen: 37.587 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

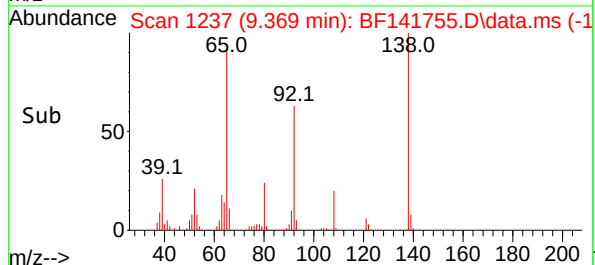
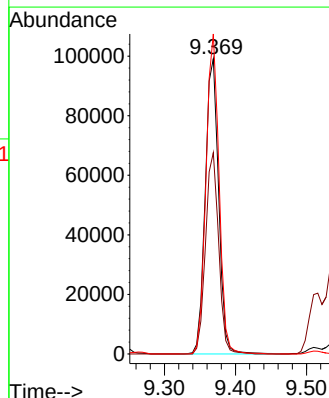
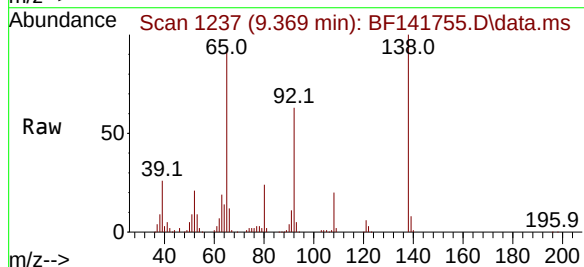
Tgt Ion: 65 Resp: 130023

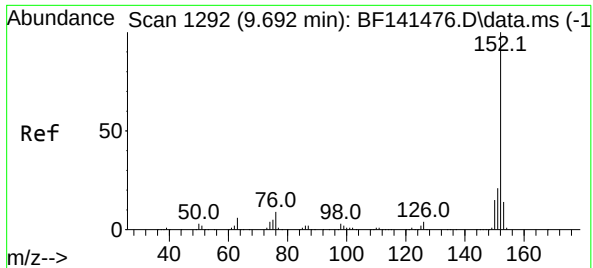
Ion Ratio Lower Upper

65 100

92 68.2 52.2 78.2

138 108.4 79.5 119.3





#49

Acenaphthylene

Concen: 40.722 ng

RT: 9.681 min Scan# 1290

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

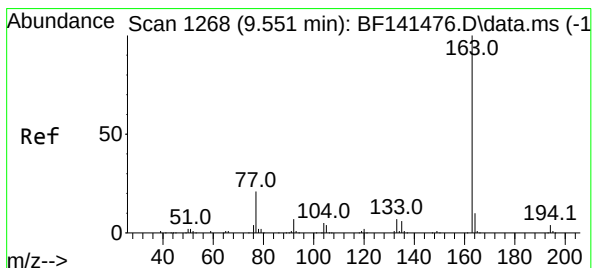
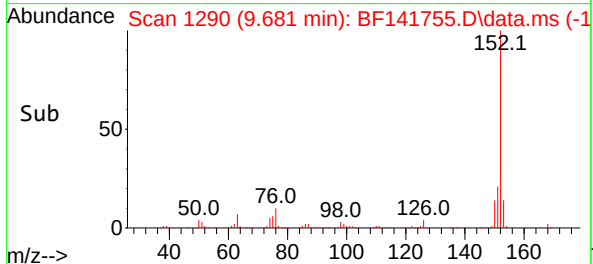
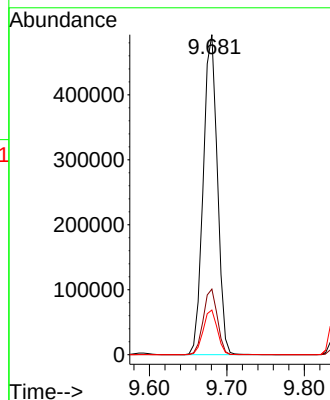
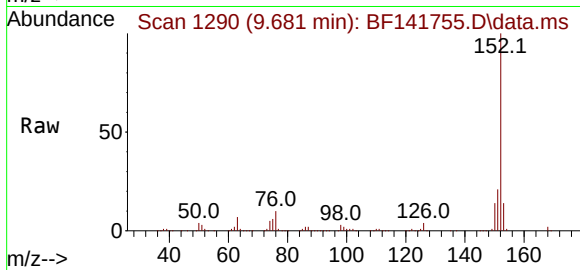
Tgt Ion:152 Resp: 624325

Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

153 13.9 10.9 16.3



#50

Dimethylphthalate

Concen: 40.768 ng

RT: 9.539 min Scan# 1266

Delta R.T. -0.023 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

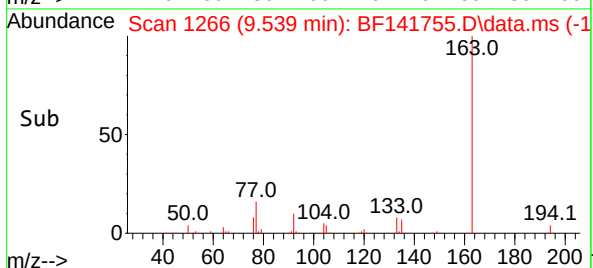
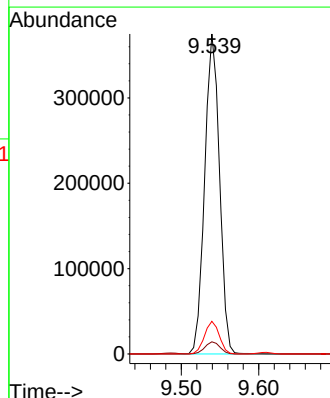
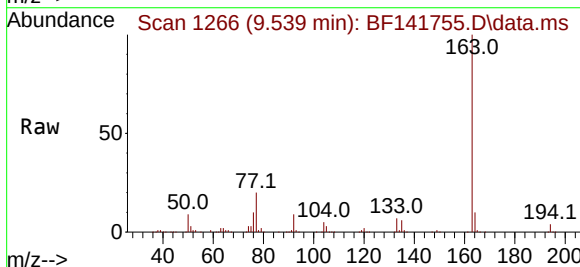
Tgt Ion:163 Resp: 497613

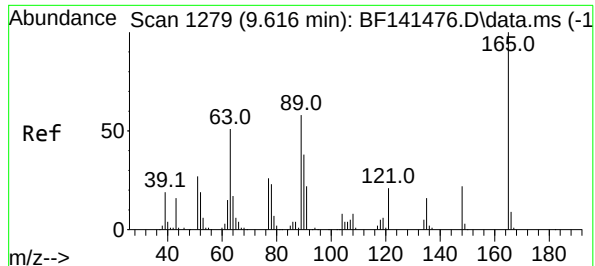
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

164 10.2 7.9 11.9





#51

2,6-Dinitrotoluene

Concen: 39.655 ng

RT: 9.610 min Scan# 1319

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

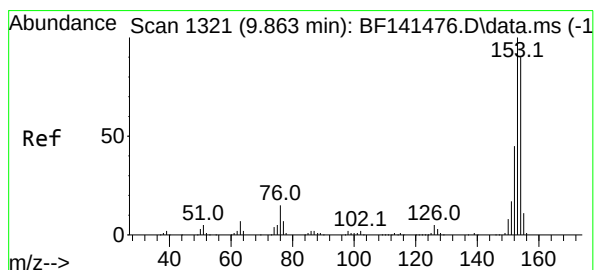
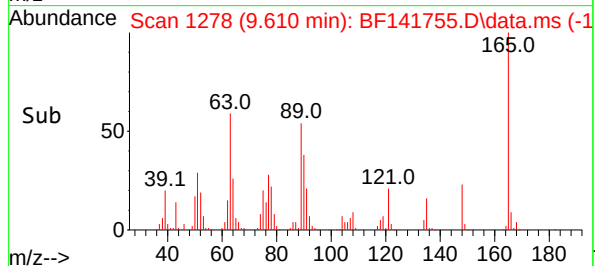
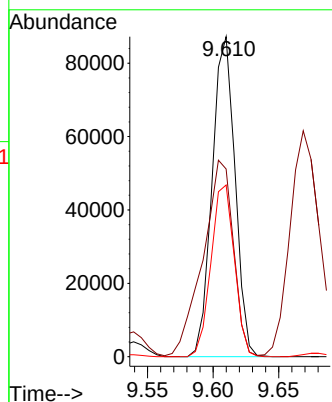
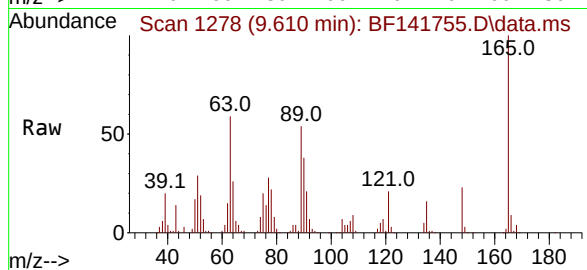
Tgt Ion:165 Resp: 105812

Ion Ratio Lower Upper

165 100

63 58.7 49.4 74.0

89 53.6 46.5 69.7



#52

Acenaphthene

Concen: 39.327 ng

RT: 9.851 min Scan# 1319

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

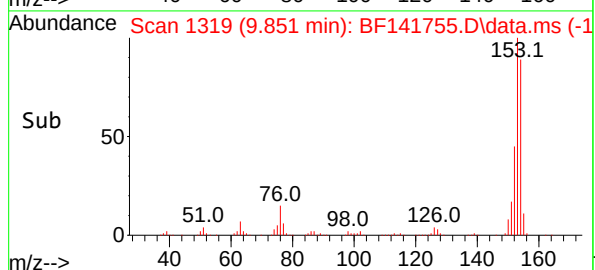
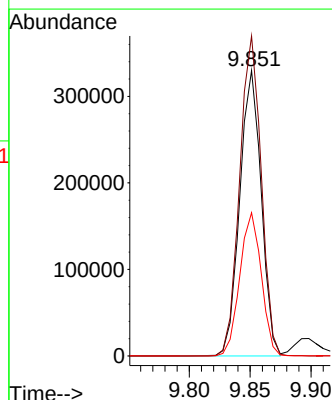
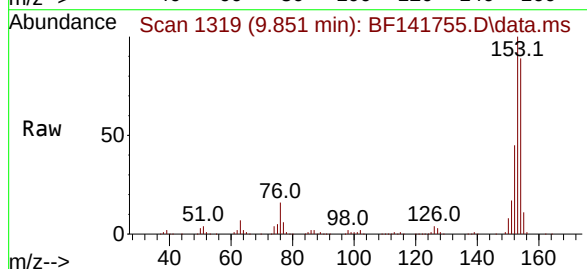
Tgt Ion:154 Resp: 405354

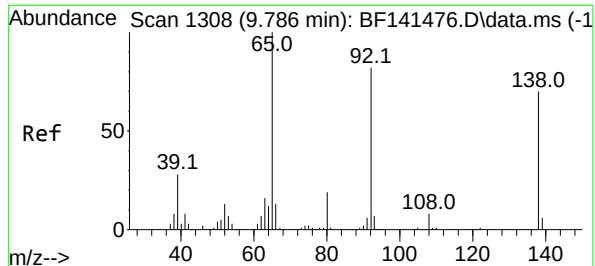
Ion Ratio Lower Upper

154 100

153 112.1 89.2 133.8

152 50.2 39.8 59.8





#53

3-Nitroaniline

Concen: 38.195 ng

RT: 9.781 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

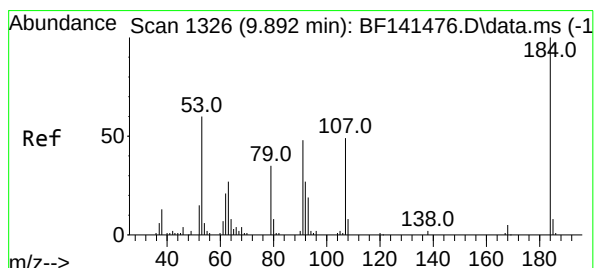
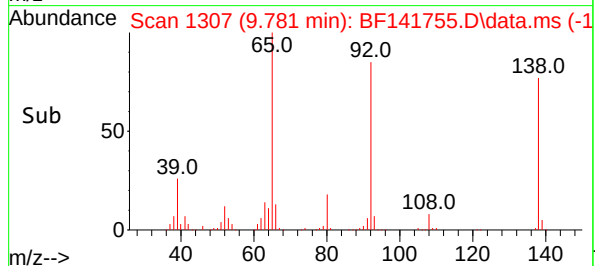
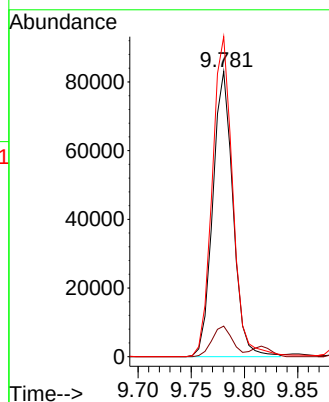
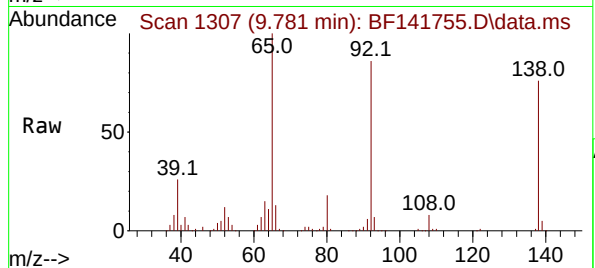
Tgt Ion:138 Resp: 109691

Ion Ratio Lower Upper

138 100

108 10.7 9.0 13.4

92 112.2 93.7 140.5



#54

2,4-Dinitrophenol

Concen: 35.138 ng

RT: 9.898 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

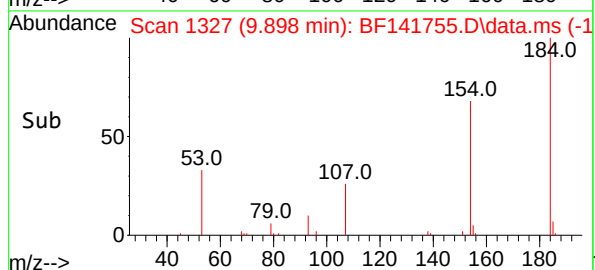
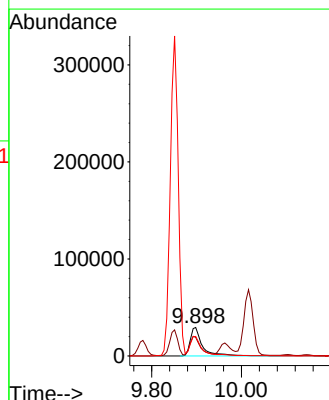
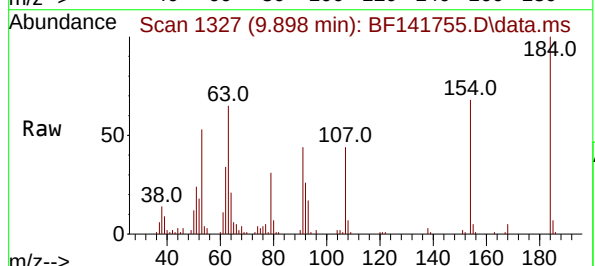
Tgt Ion:184 Resp: 55724

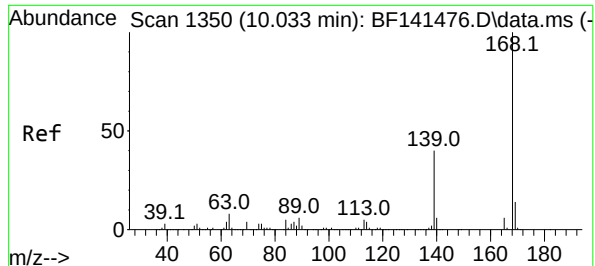
Ion Ratio Lower Upper

184 100

63 65.0 61.0 91.6

154 68.5 59.9 89.9





#55

Dibenzenofuran

Concen: 39.732 ng

RT: 10.022 min Scan# 1348

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

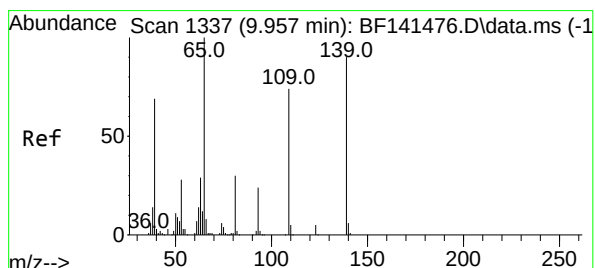
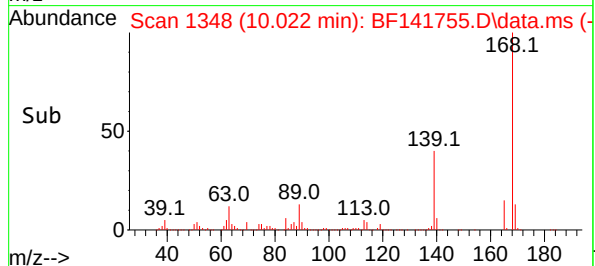
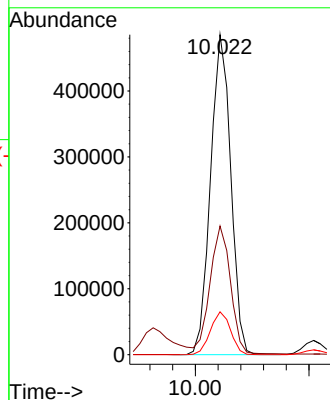
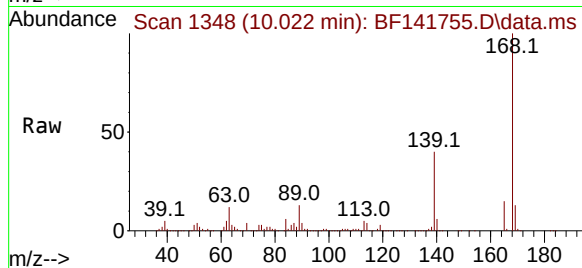
Tgt Ion:168 Resp: 601113

Ion Ratio Lower Upper

168 100

139 40.2 32.7 49.1

169 13.4 10.8 16.2



#56

4-Nitrophenol

Concen: 34.873 ng

RT: 9.963 min Scan# 1338

Delta R.T. -0.006 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

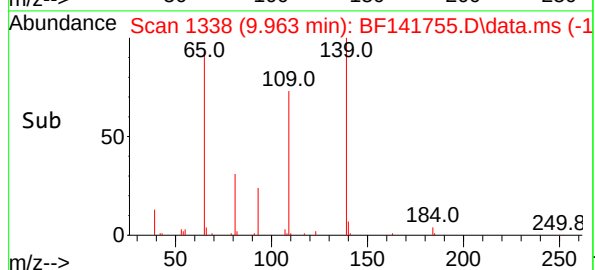
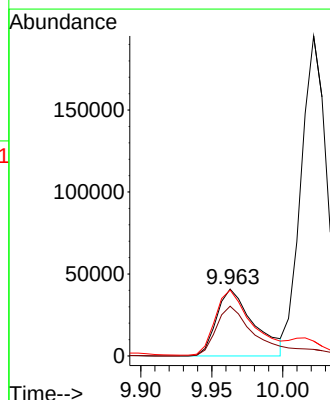
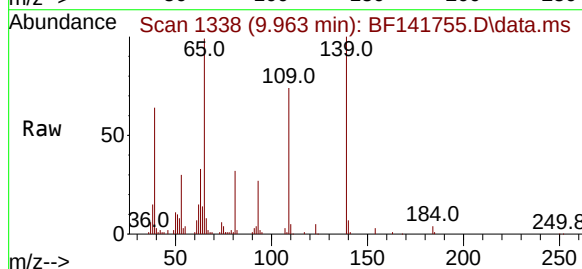
Tgt Ion:139 Resp: 74346

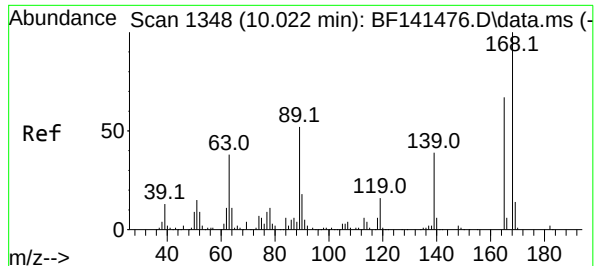
Ion Ratio Lower Upper

139 100

109 74.3 62.0 102.0

65 98.6 91.2 131.2

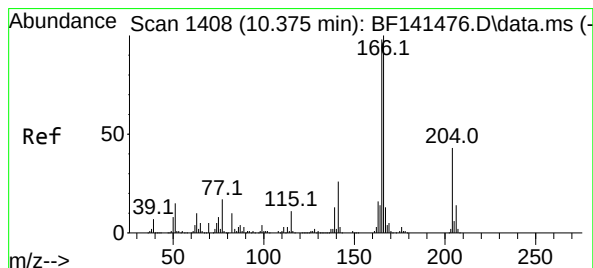
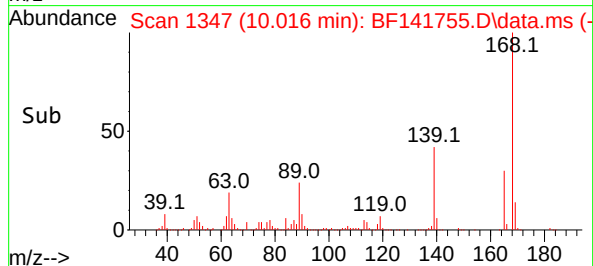
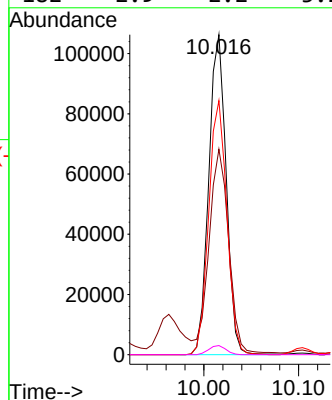
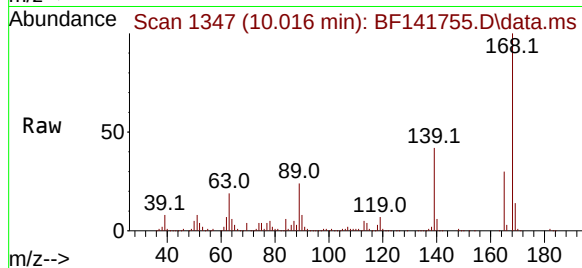




#57
2,4-Dinitrotoluene
Concen: 38.111 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

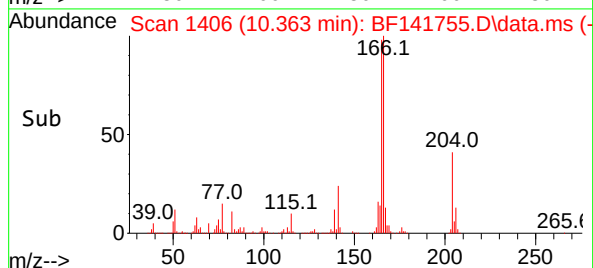
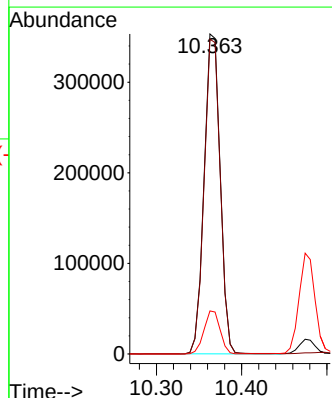
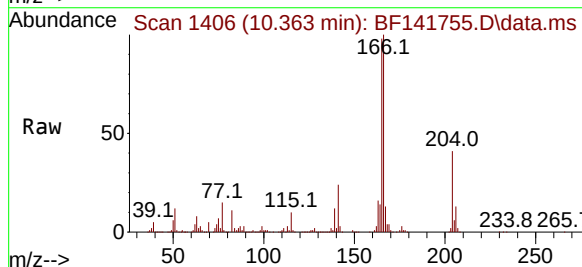
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

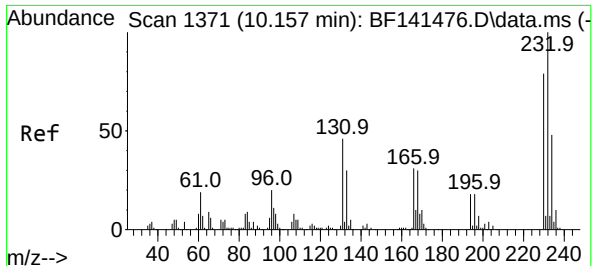
Tgt Ion:165 Resp: 135376
Ion Ratio Lower Upper
165 100
63 64.2 46.4 69.6
89 79.4 61.8 92.6
182 2.9 2.2 3.2



#58
Fluorene
Concen: 39.572 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:166 Resp: 462911
Ion Ratio Lower Upper
166 100
165 98.4 78.2 117.2
167 13.5 10.7 16.1

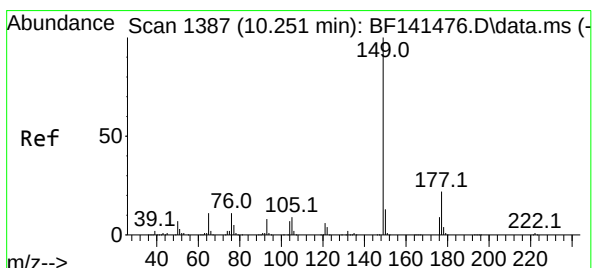
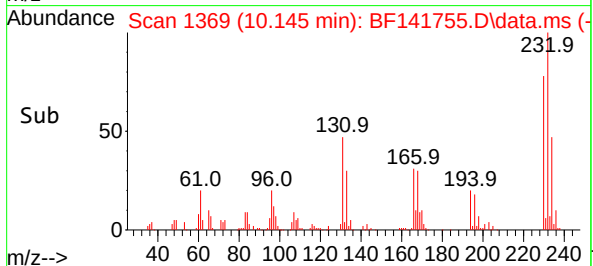
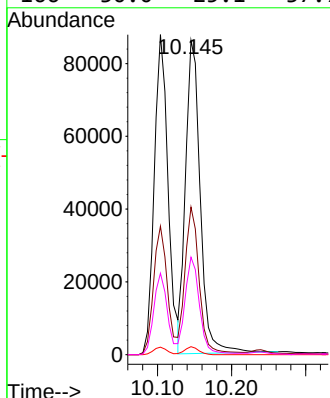
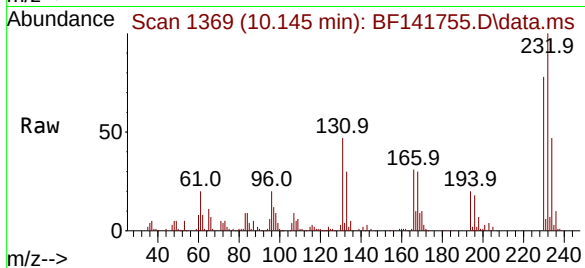




#59
2,3,4,6-Tetrachlorophenol
Concen: 37.977 ng
RT: 10.145 min Scan# 1369
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

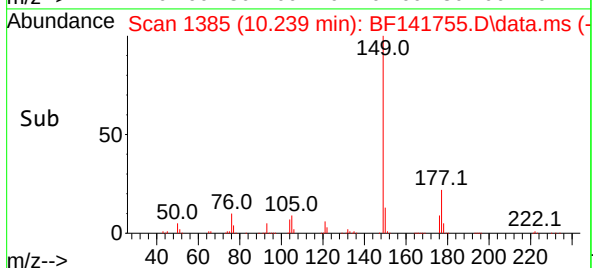
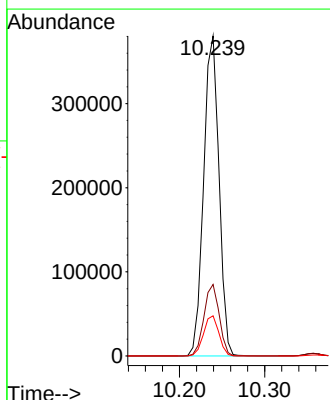
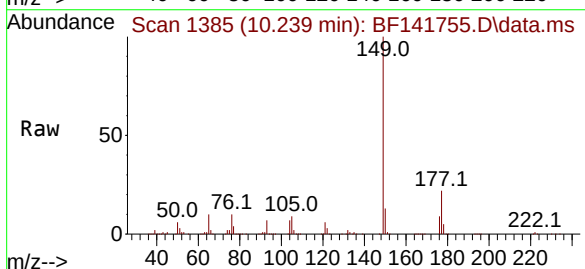
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

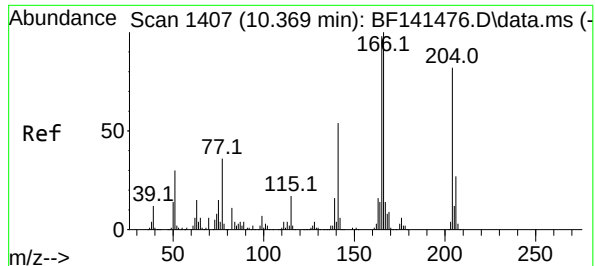
Tgt Ion:232 Resp: 119131
Ion Ratio Lower Upper
232 100
131 45.4 39.2 58.8
130 2.4 2.1 3.1
166 30.0 25.1 37.7



#60
Diethylphthalate
Concen: 39.619 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 475797
Ion Ratio Lower Upper
149 100
177 22.4 17.8 26.6
150 12.6 10.1 15.1

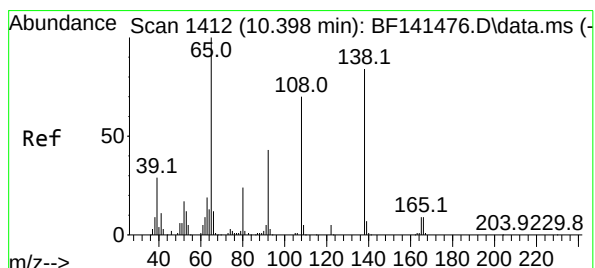
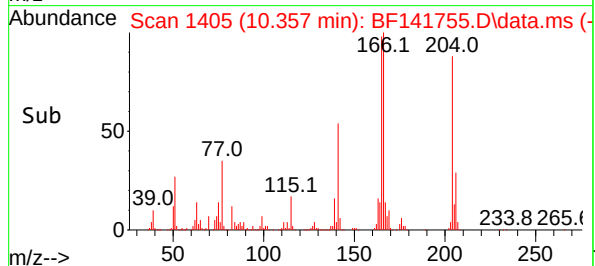
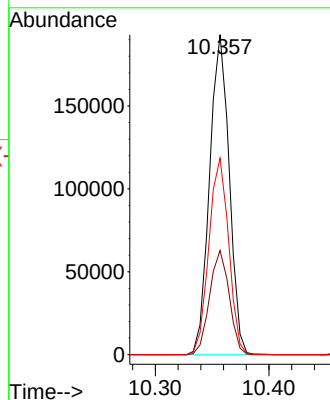
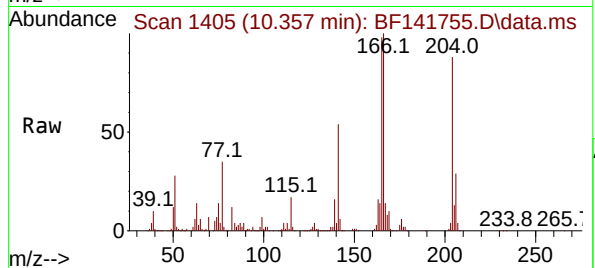




#61
4-Chlorophenyl-phenylether
Concen: 41.182 ng
RT: 10.357 min Scan# 1405
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

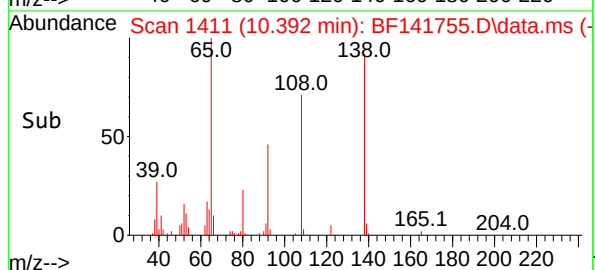
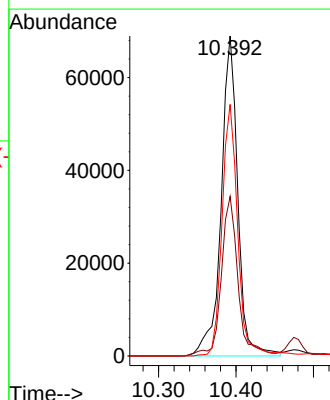
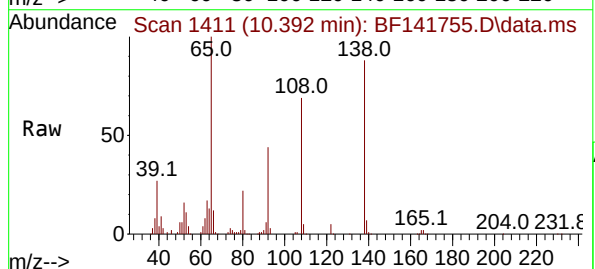
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

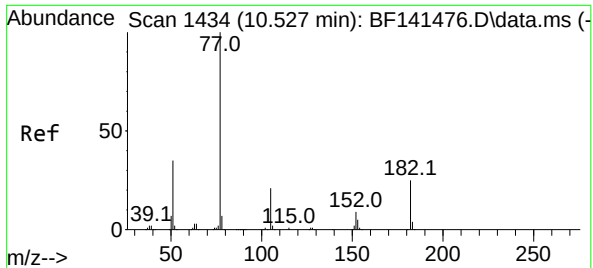
Tgt Ion:204 Resp: 231758
Ion Ratio Lower Upper
204 100
206 32.6 26.6 40.0
141 61.4 51.9 77.9



#62
4-Nitroaniline
Concen: 35.243 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:138 Resp: 102774
Ion Ratio Lower Upper
138 100
92 49.8 31.3 71.3
108 78.6 63.7 103.7

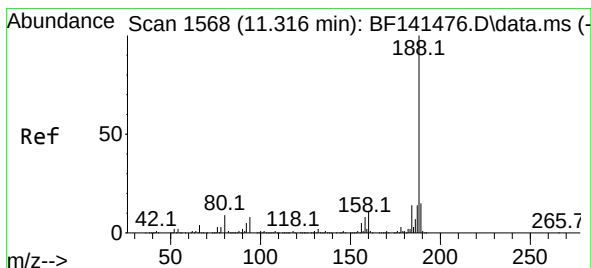
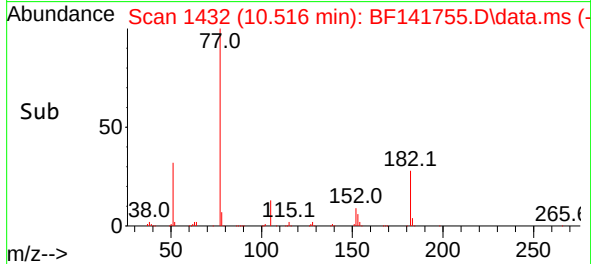
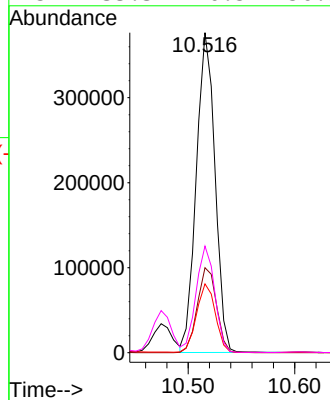
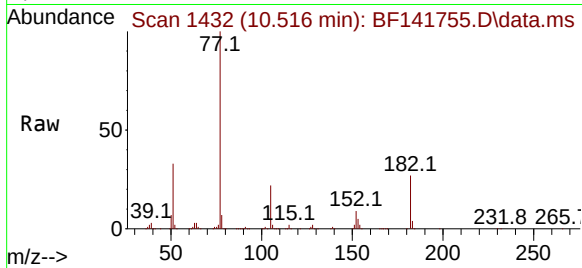




#63
Azobenzene
Concen: 38.507 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

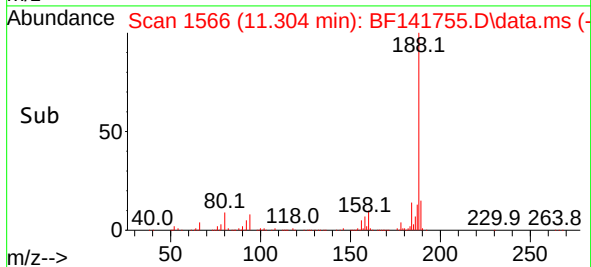
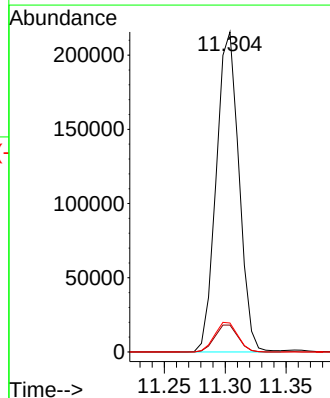
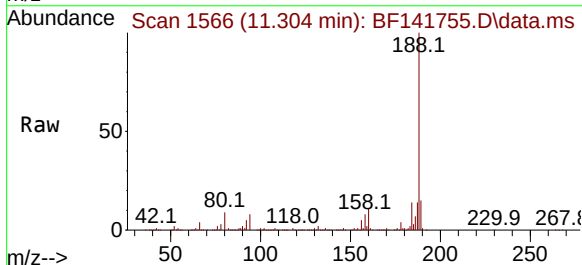
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

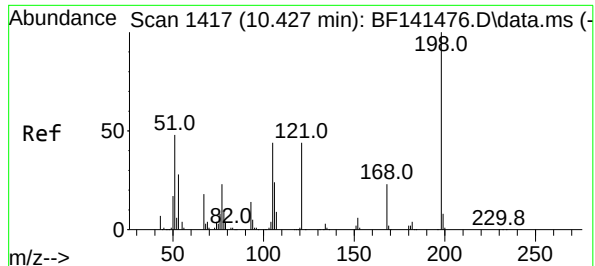
Tgt Ion: 77	Resp: 459724
Ion Ratio	Lower Upper
77 100	
182 26.5	4.7 44.7
105 21.5	0.4 40.4
51 33.3	16.5 56.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:188	Resp: 280239
Ion Ratio	Lower Upper
188 100	
94 8.4	6.6 10.0
80 9.0	7.3 10.9

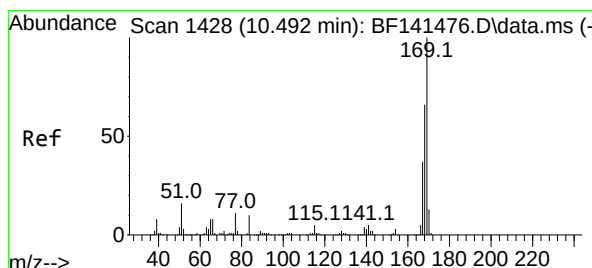
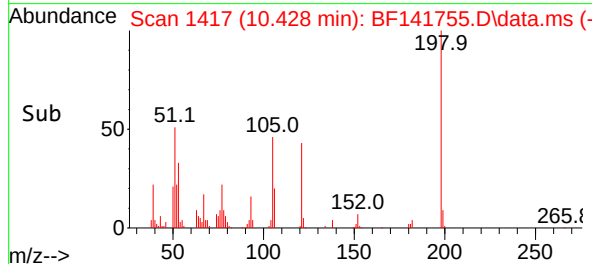
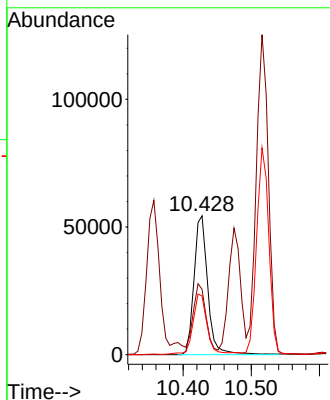
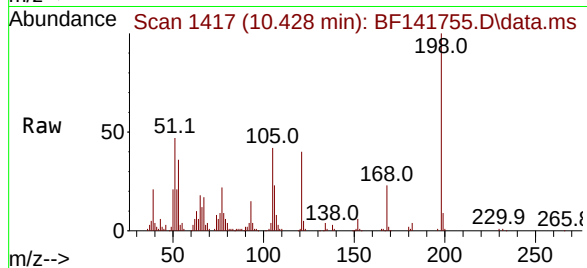




#65
4,6-Dinitro-2-methylphenol
Concen: 39.171 ng
RT: 10.428 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

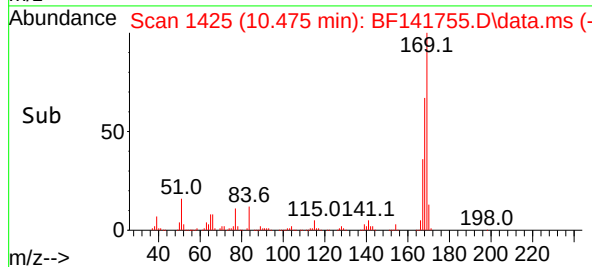
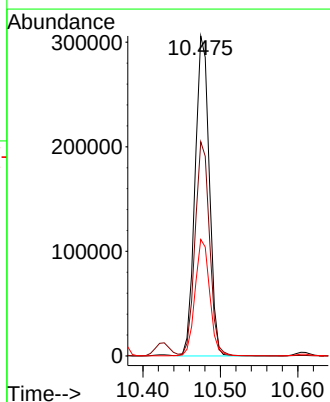
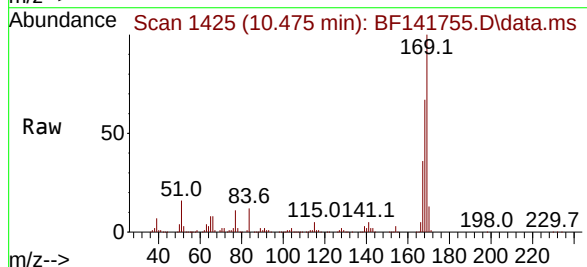
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

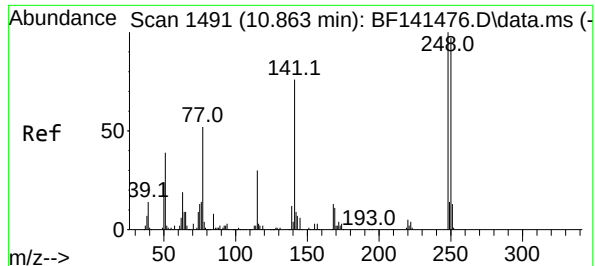
Tgt Ion:198 Resp: 76253
Ion Ratio Lower Upper
198 100
51 47.1 37.4 77.4
105 42.3 25.2 65.2



#66
n-Nitrosodiphenylamine
Concen: 43.456 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

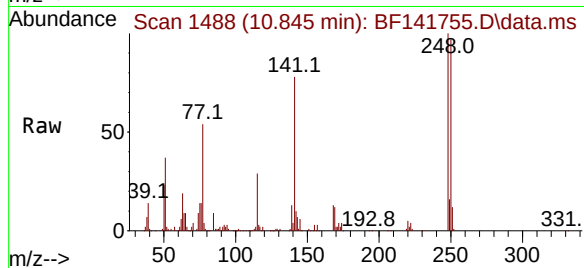
Tgt Ion:169 Resp: 389832
Ion Ratio Lower Upper
169 100
168 67.0 53.3 79.9
167 36.4 29.4 44.2



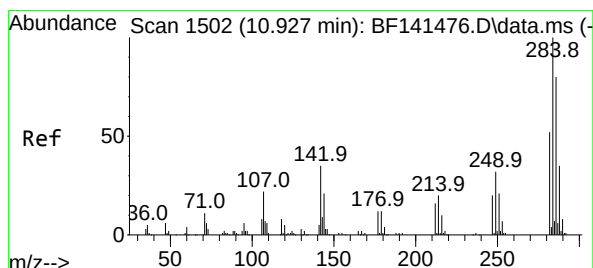
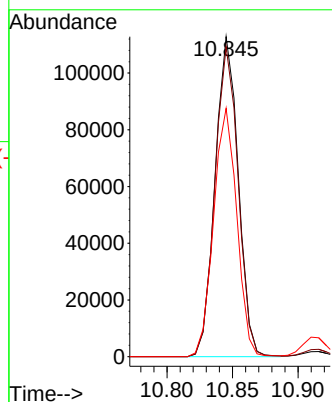
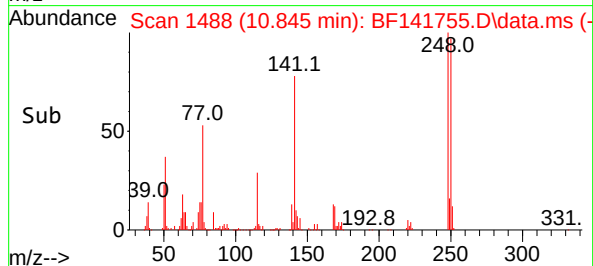


#67
4-Bromophenyl-phenylether
Concen: 44.246 ng
RT: 10.845 min Scan# 1488
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

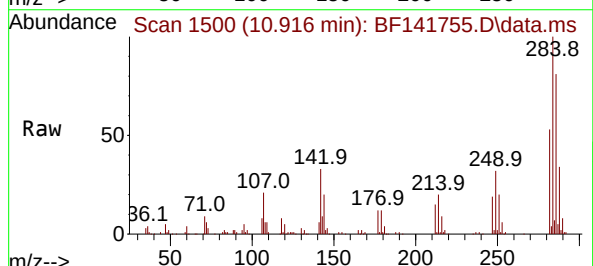
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



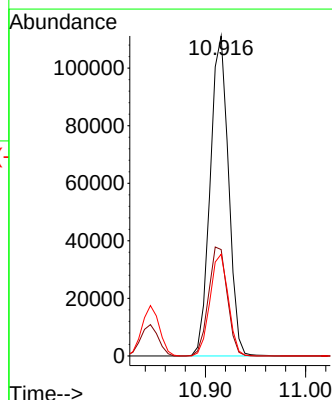
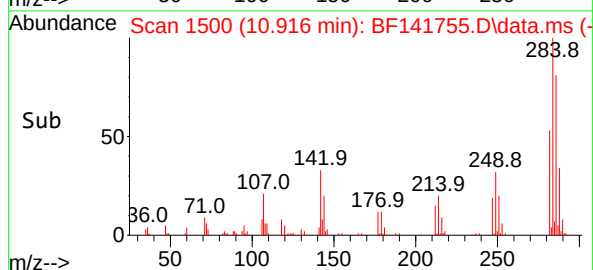
Tgt Ion:248 Resp: 138581
Ion Ratio Lower Upper
248 100
250 96.8 77.8 116.6
141 77.6 60.6 90.8

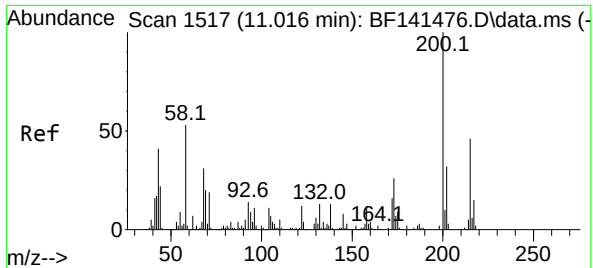


#68
Hexachlorobenzene
Concen: 43.753 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34



Tgt Ion:284 Resp: 141111
Ion Ratio Lower Upper
284 100
142 33.2 28.0 42.0
249 31.8 25.8 38.8





#69

Atrazine

Concen: 35.789 ng

RT: 11.004 min Scan# 1515

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

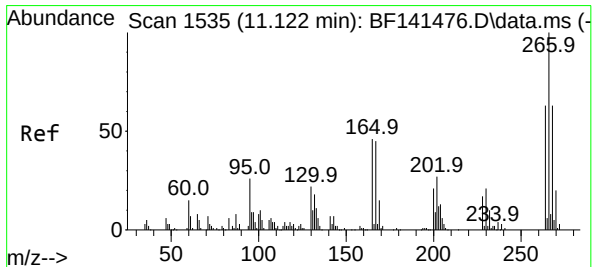
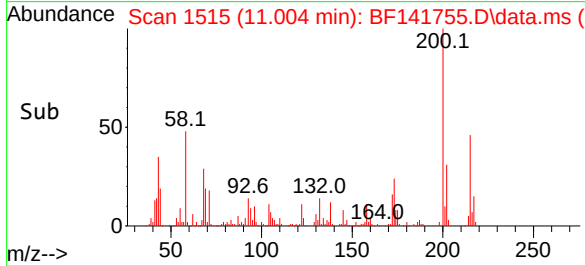
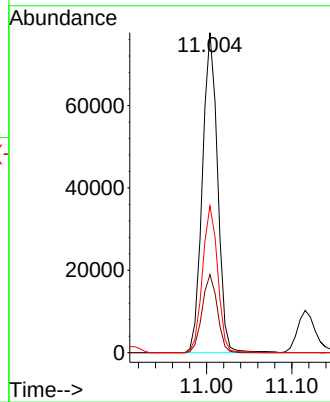
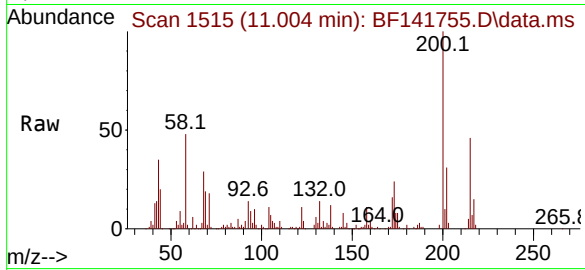
Tgt Ion:200 Resp: 96315

Ion Ratio Lower Upper

200 100

173 24.4 5.9 45.9

215 45.8 25.9 65.9



#70

Pentachlorophenol

Concen: 39.625 ng

RT: 11.116 min Scan# 1534

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

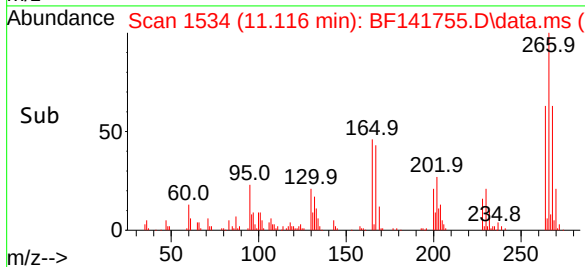
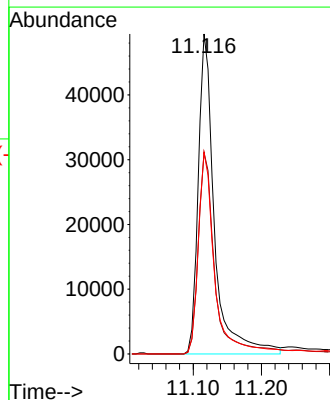
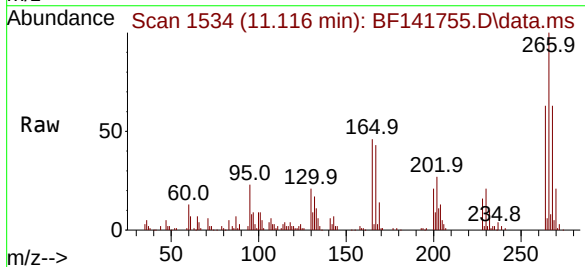
Tgt Ion:266 Resp: 81715

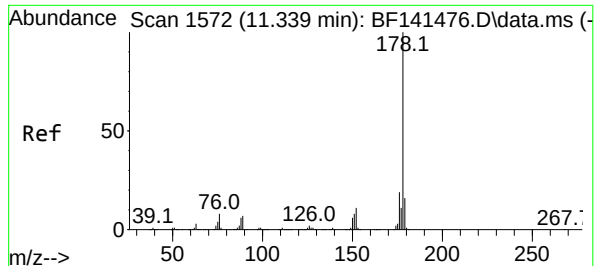
Ion Ratio Lower Upper

266 100

268 63.0 50.1 75.1

264 62.9 50.1 75.1

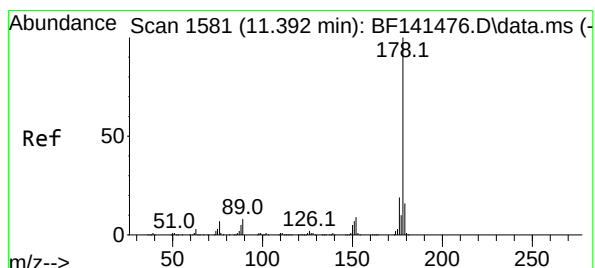
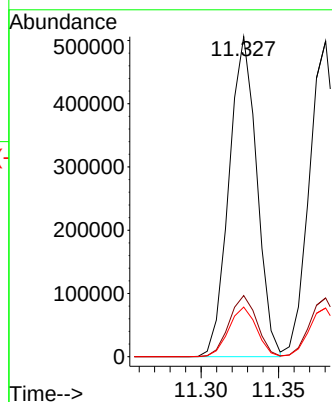
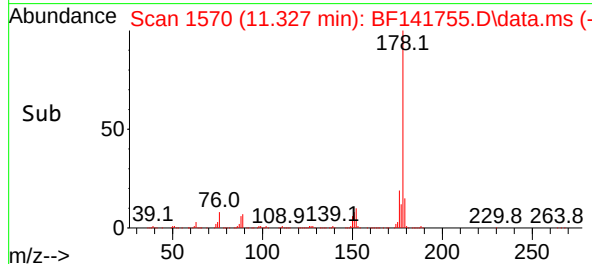
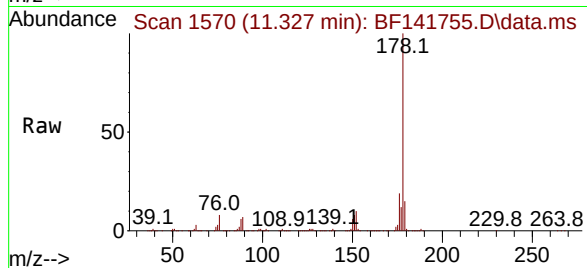




#71
Phenanthrene
Concen: 40.914 ng
RT: 11.327 min Scan# 1572
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

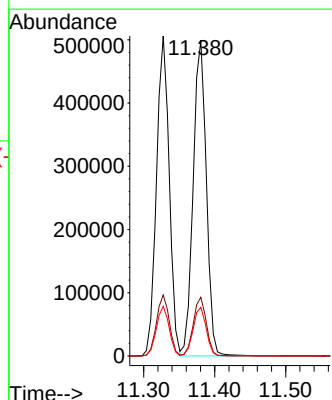
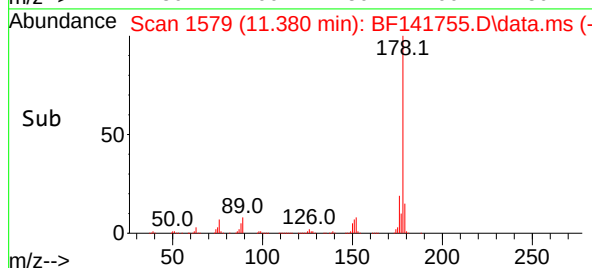
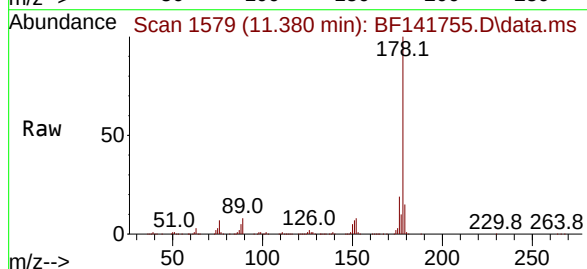
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

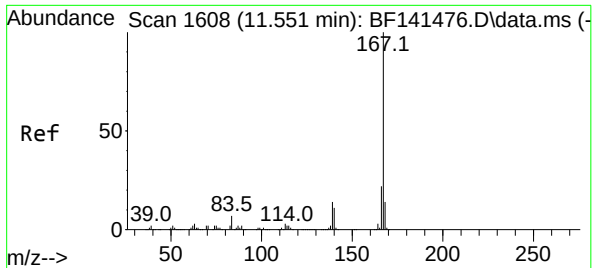
Tgt Ion:178 Resp: 631134
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.5 12.4 18.6



#72
Anthracene
Concen: 41.494 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:178 Resp: 643431
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.4 12.4 18.6

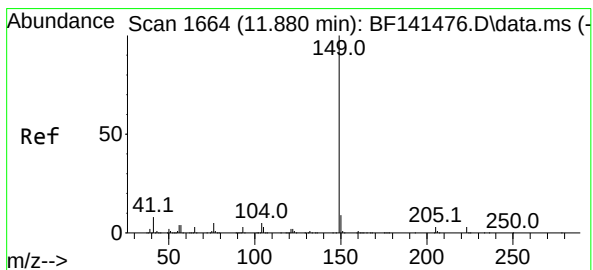
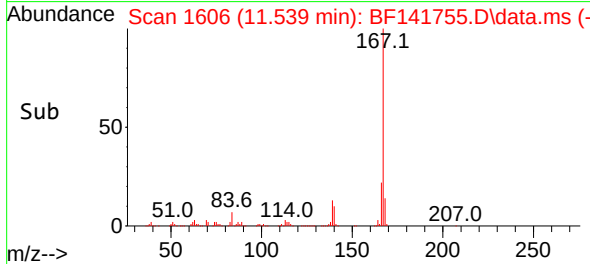
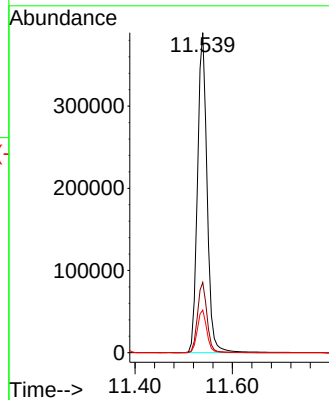
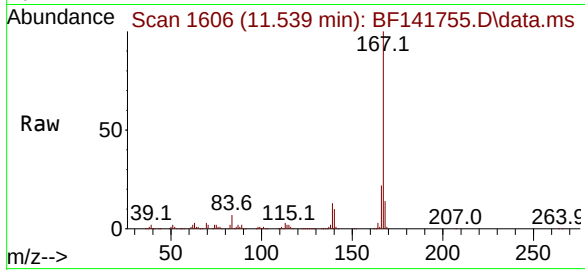




#73
 Carbazole
 Concen: 38.357 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141755.D
 Acq: 25 Feb 2025 10:34

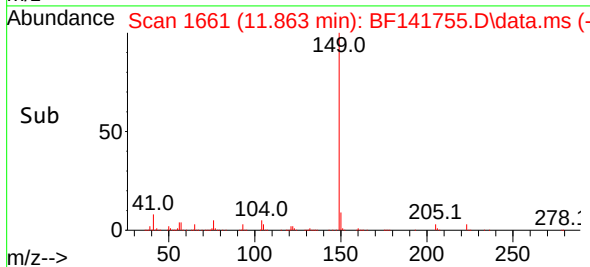
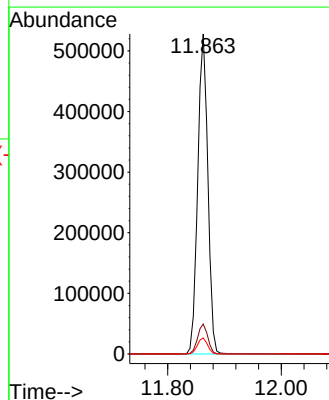
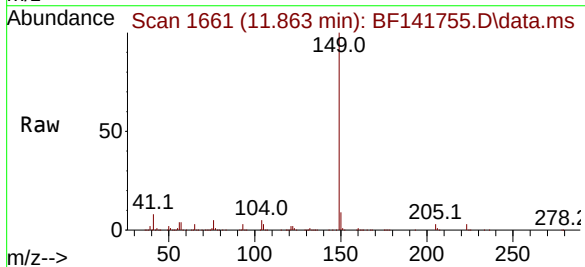
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

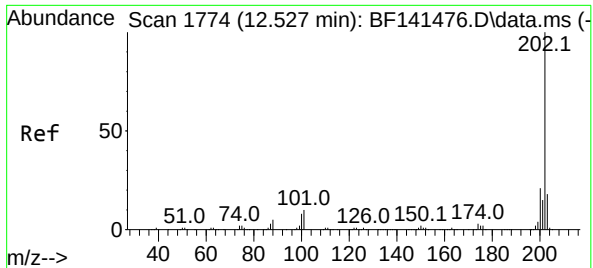
Tgt Ion:167 Resp: 535192
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.4 26.2
 139 13.3 10.9 16.3



#74
 Di-n-butylphthalate
 Concen: 40.662 ng
 RT: 11.863 min Scan# 1661
 Delta R.T. -0.018 min
 Lab File: BF141755.D
 Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 655095
 Ion Ratio Lower Upper
 149 100
 150 9.4 7.4 11.0
 104 5.0 4.2 6.2

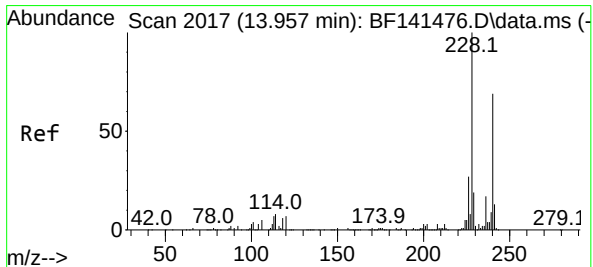
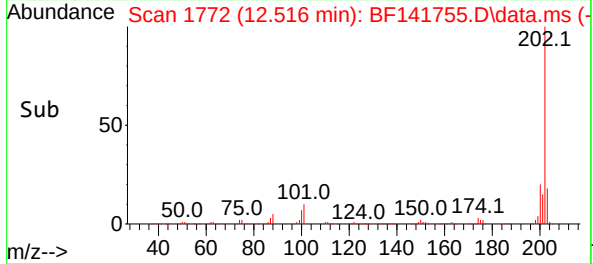
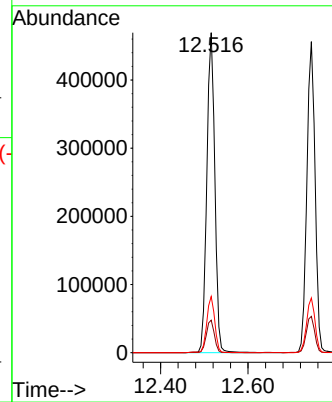
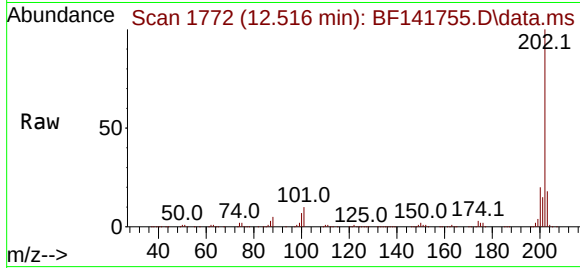




#75
Fluoranthene
Concen: 36.703 ng
RT: 12.516 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

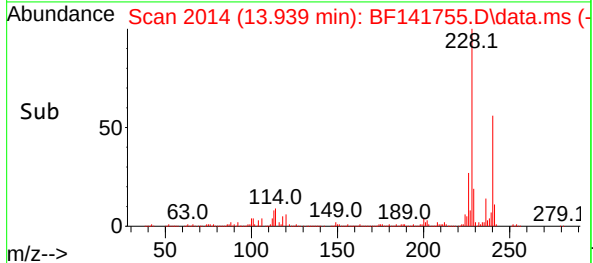
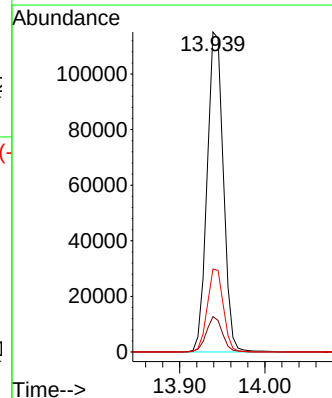
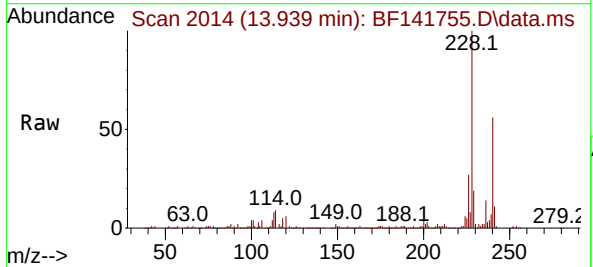
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

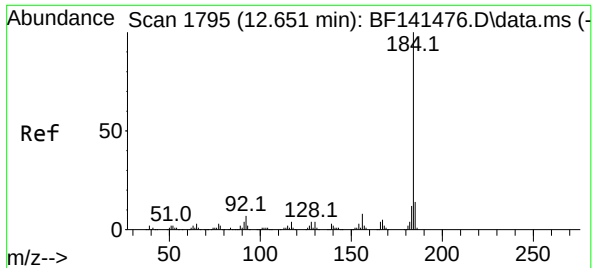
Tgt Ion:202 Resp: 600259
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.2
203 17.5 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:240 Resp: 152344
Ion Ratio Lower Upper
240 100
120 11.0 8.0 12.0
236 25.9 19.8 29.8





#77

Benzidine

Concen: 36.886 ng

RT: 12.645 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

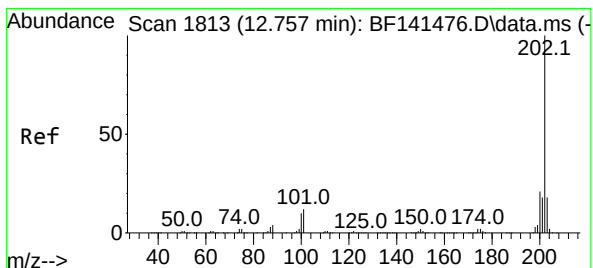
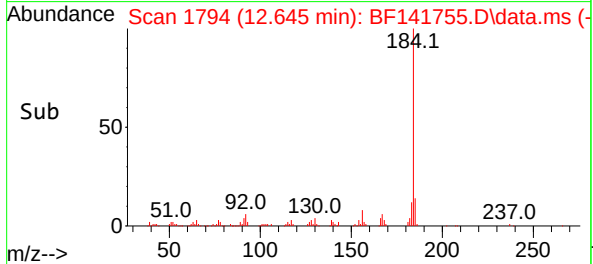
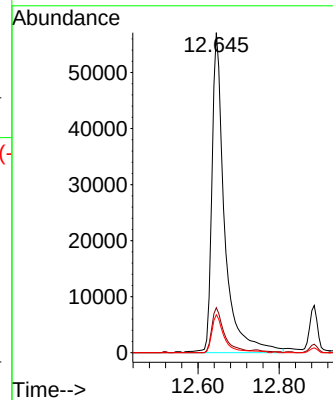
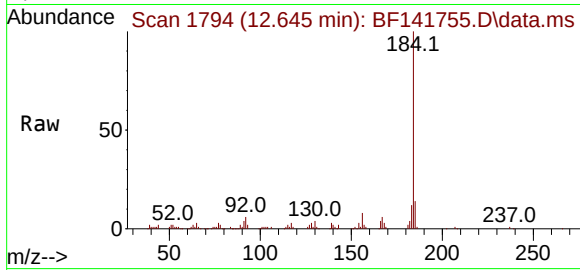
Tgt Ion:184 Resp: 123930

Ion Ratio Lower Upper

184 100

185 14.1 11.3 16.9

183 11.9 9.3 13.9



#78

Pyrene

Concen: 45.595 ng

RT: 12.745 min Scan# 1811

Delta R.T. -0.018 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

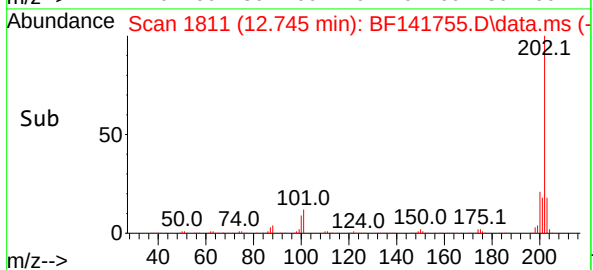
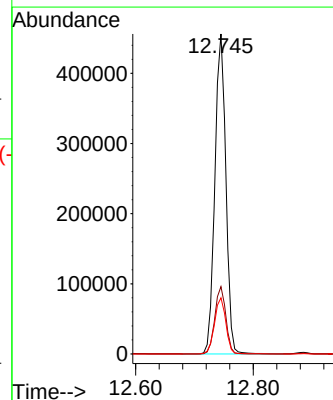
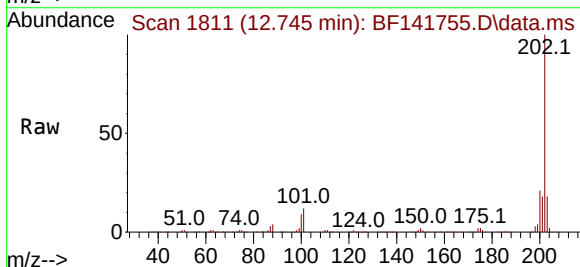
Tgt Ion:202 Resp: 591308

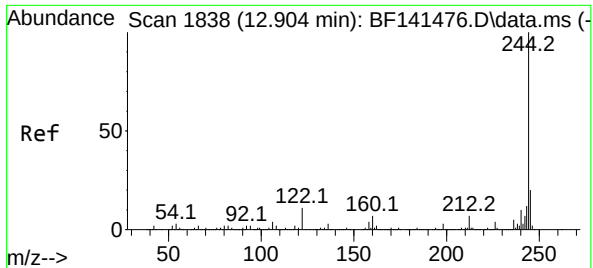
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

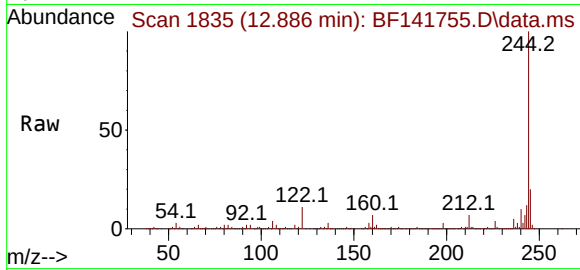
203 17.6 14.3 21.5



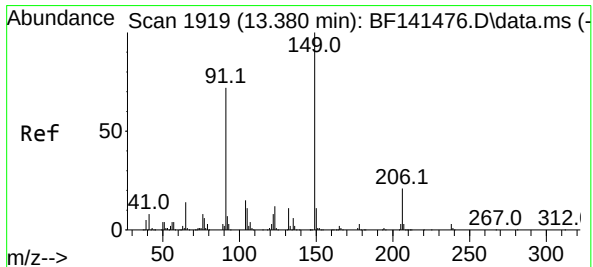
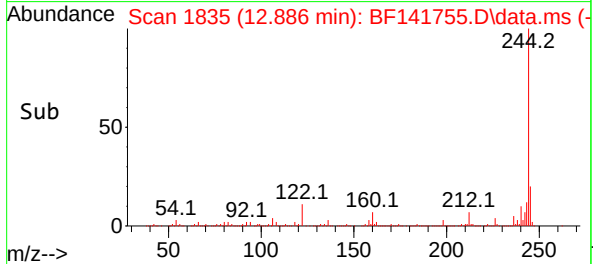
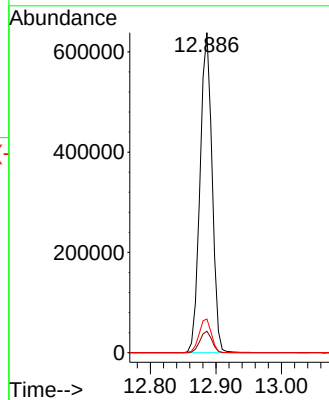


#79
Terphenyl-d14
Concen: 90.576 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

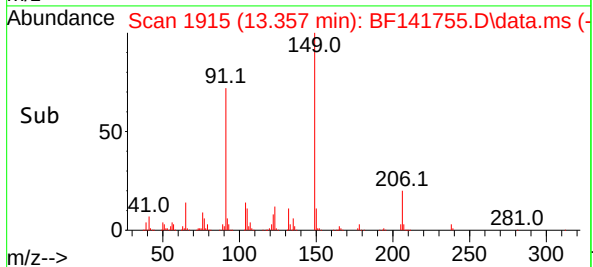
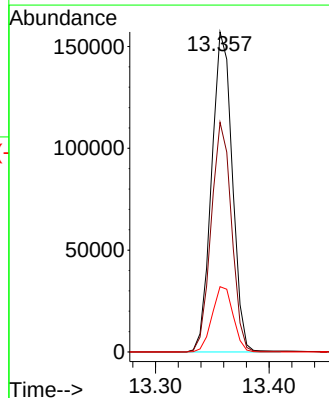
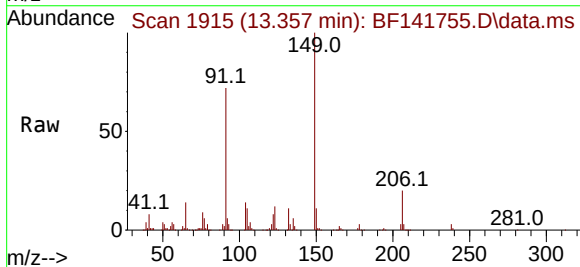


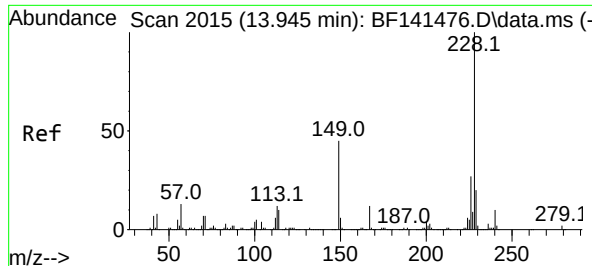
Tgt Ion:244 Resp: 817377
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 10.5 8.4 12.6



#80
Butylbenzylphthalate
Concen: 44.277 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:149 Resp: 198892
Ion Ratio Lower Upper
149 100
91 71.8 57.8 86.8
206 20.4 16.7 25.1

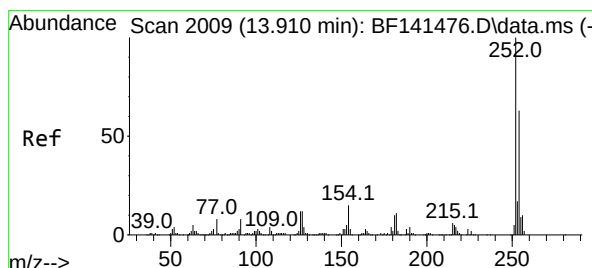
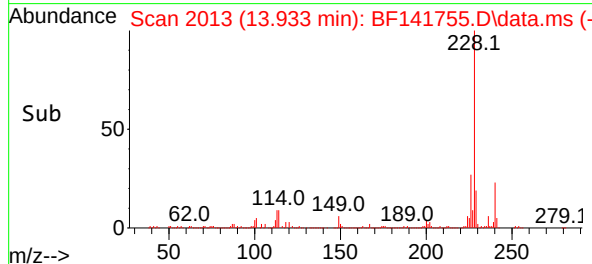
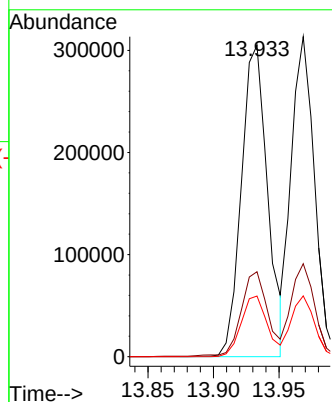
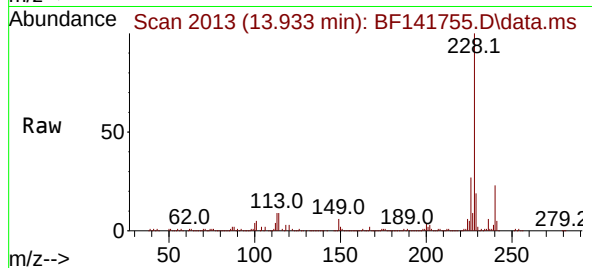




#81
Benzo(a)anthracene
Concen: 41.938 ng
RT: 13.933 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

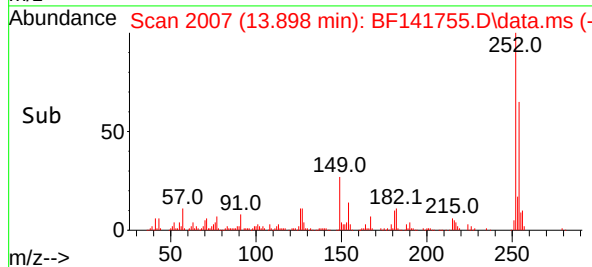
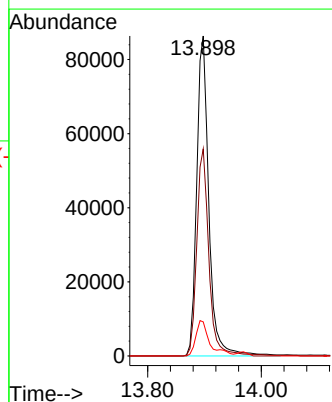
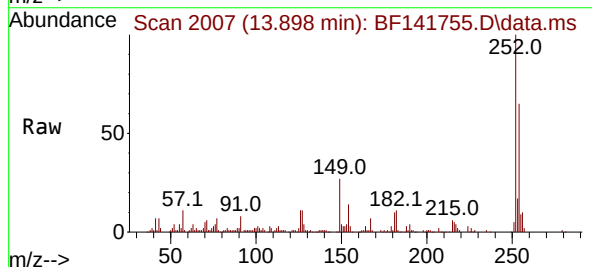
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

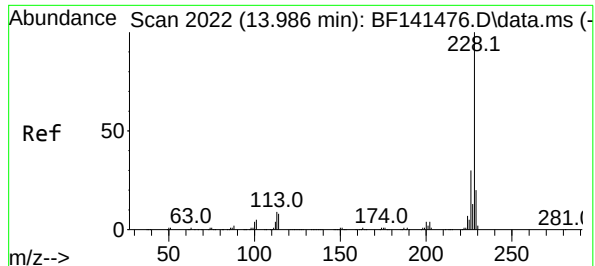
Tgt Ion:228 Resp: 424696
Ion Ratio Lower Upper
228 100
226 27.3 21.8 32.8
229 19.5 15.8 23.6



#82
3,3'-Dichlorobenzidine
Concen: 44.271 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:252 Resp: 128425
Ion Ratio Lower Upper
252 100
254 64.7 50.6 76.0
126 10.7 9.3 13.9





#83

Chrysene

Concen: 41.405 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.023 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

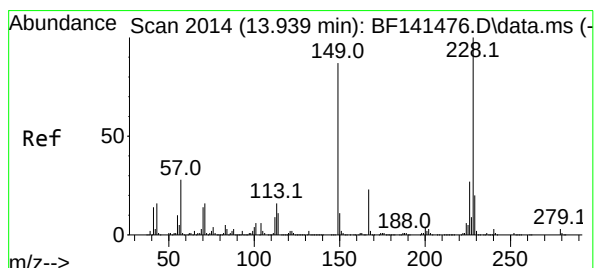
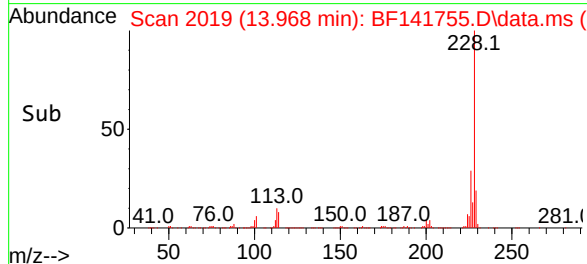
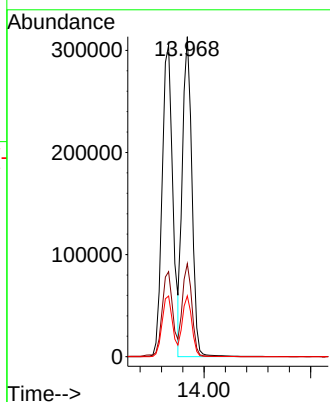
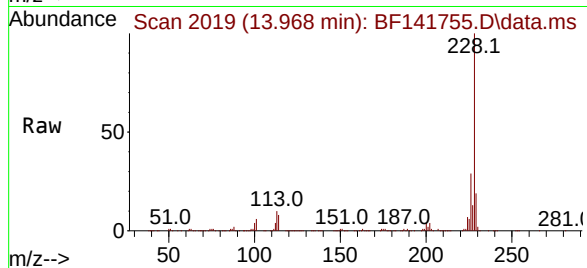
Tgt Ion:228 Resp: 387162

Ion Ratio Lower Upper

228 100

226 29.1 24.0 36.0

229 19.0 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 49.688 ng

RT: 13.916 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

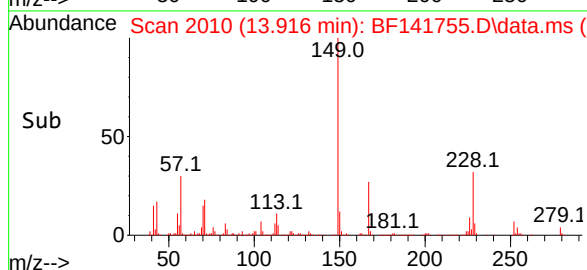
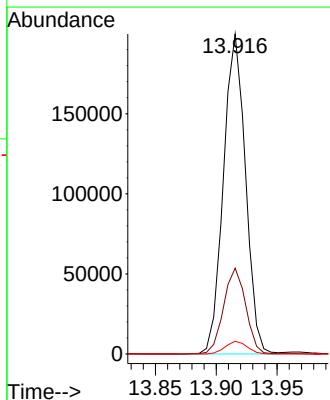
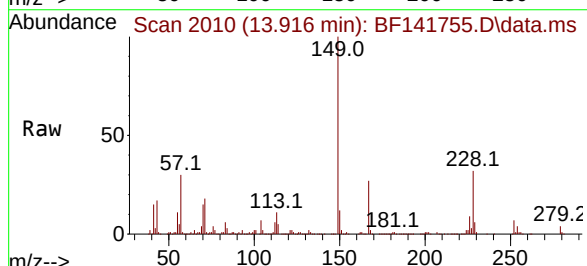
Tgt Ion:149 Resp: 251728

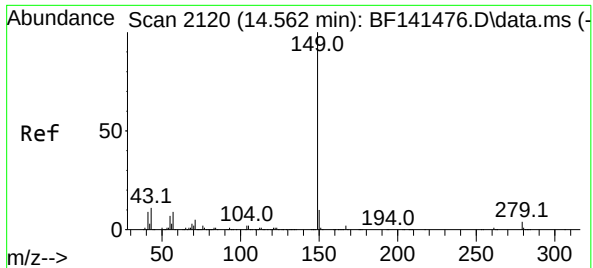
Ion Ratio Lower Upper

149 100

167 26.8 21.4 32.0

279 3.9 3.1 4.7

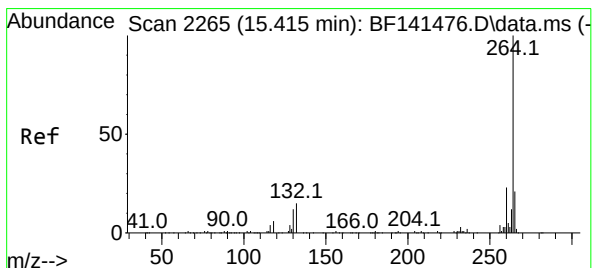
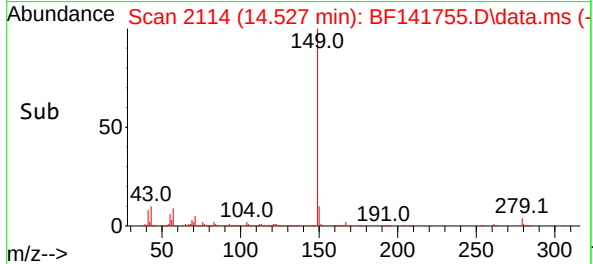
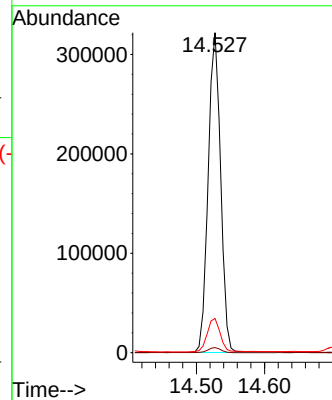
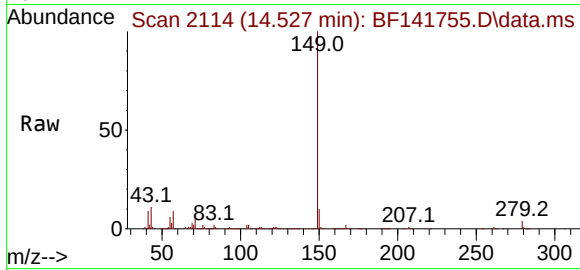




#85
Di-n-octyl phthalate
Concen: 56.543 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

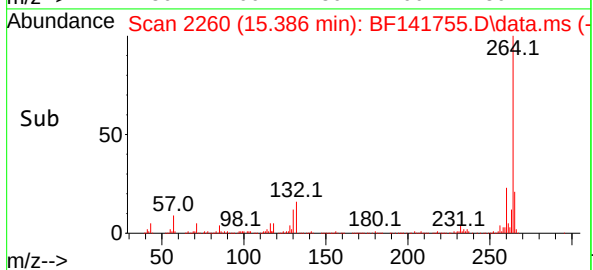
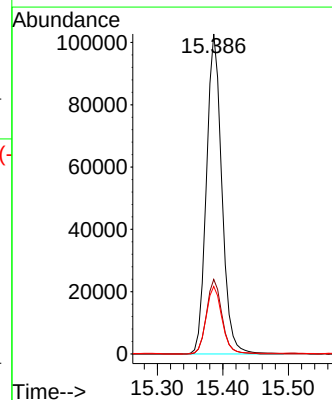
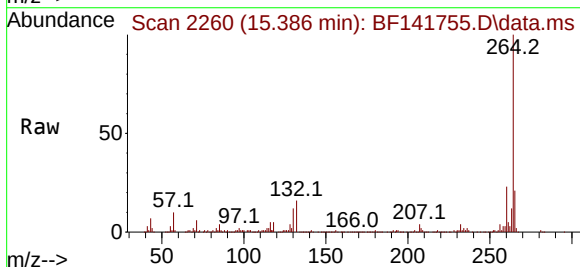
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

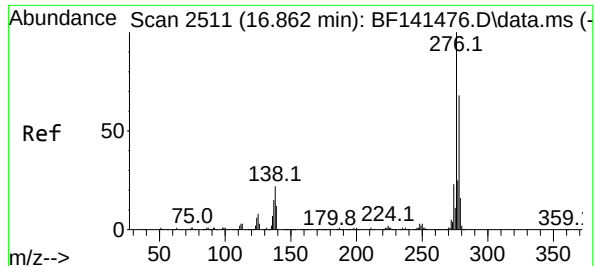
Tgt Ion:149 Resp: 408656
Ion Ratio Lower Upper
149 100
167 1.7 1.3 1.9
43 11.0 9.5 14.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141755.D
Acq: 25 Feb 2025 10:34

Tgt Ion:264 Resp: 167961
Ion Ratio Lower Upper
264 100
260 23.3 18.6 28.0
265 21.1 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 48.386 ng

RT: 16.827 min Scan# 2189

Delta R.T. -0.047 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

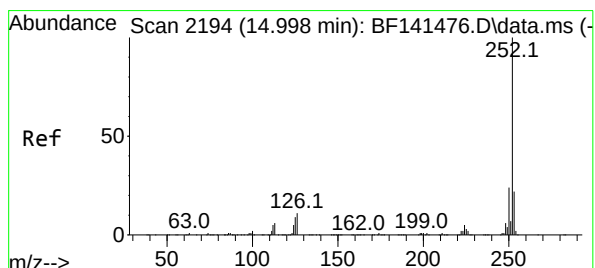
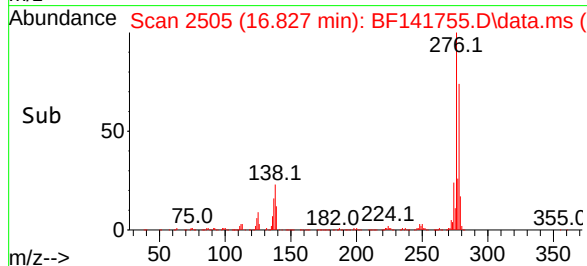
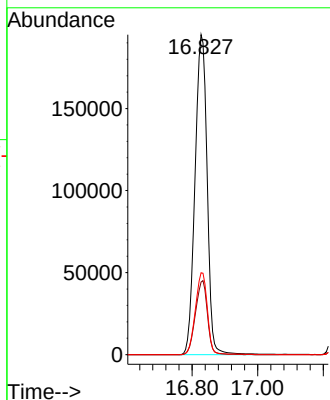
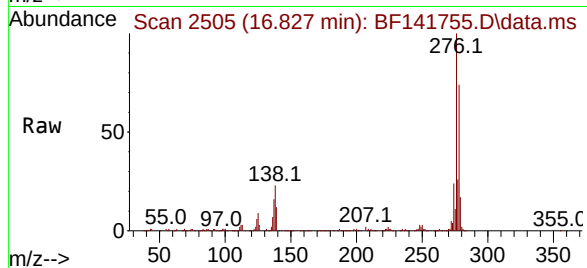
Tgt Ion:276 Resp: 502156

Ion Ratio Lower Upper

276 100

138 22.9 18.0 27.0

277 25.3 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 34.885 ng

RT: 14.968 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

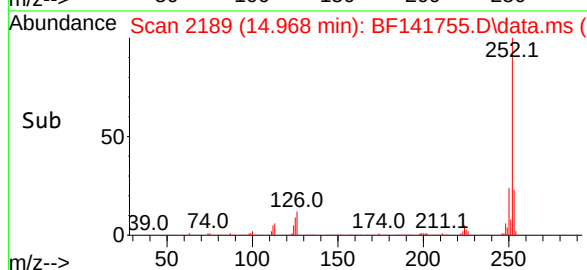
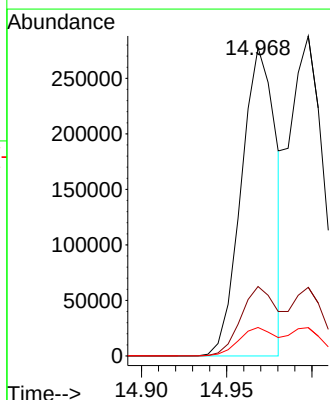
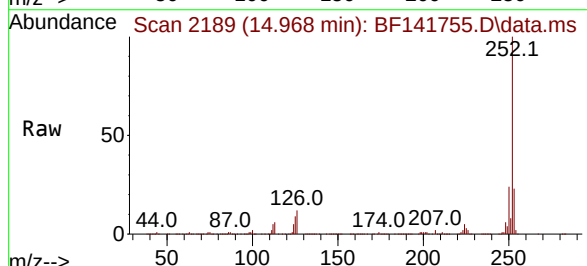
Tgt Ion:252 Resp: 393427

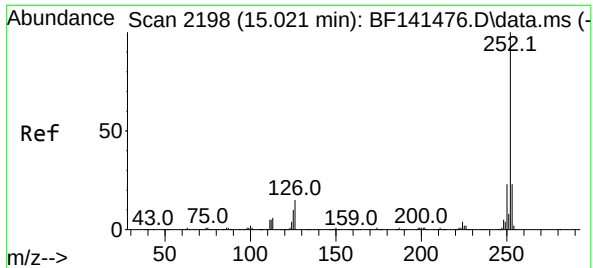
Ion Ratio Lower Upper

252 100

253 22.5 17.5 26.3

125 9.2 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 34.682 ng

RT: 14.998 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

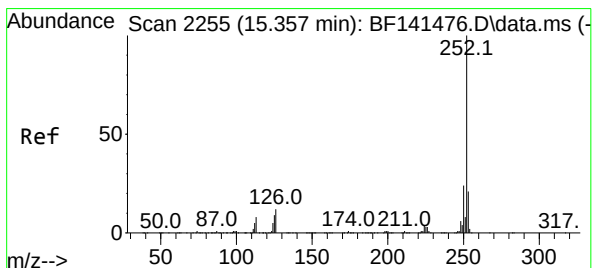
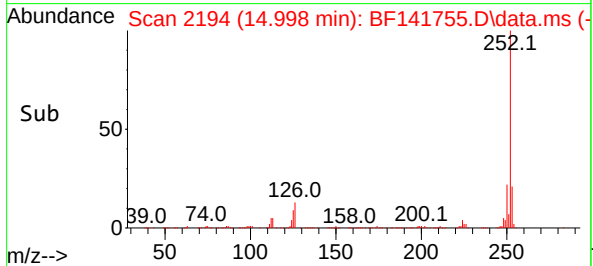
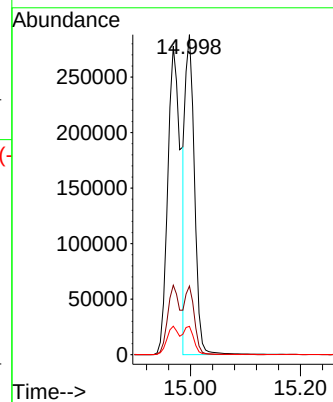
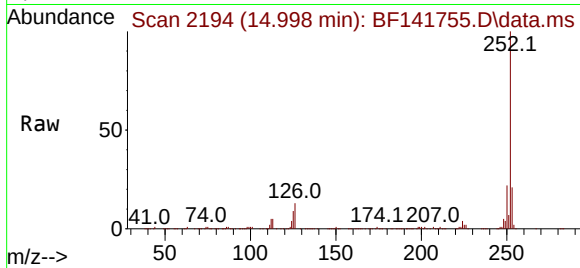
Tgt Ion:252 Resp: 333990

Ion Ratio Lower Upper

252 100

253 21.5 18.0 27.0

125 8.8 7.4 11.0



#90

Benzo(a)pyrene

Concen: 40.454 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

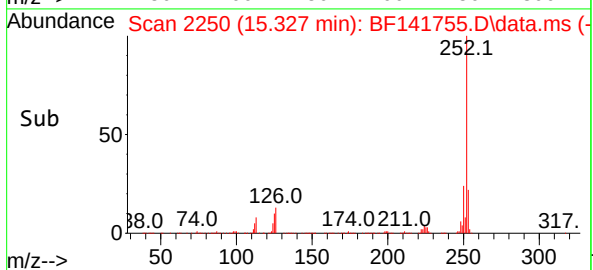
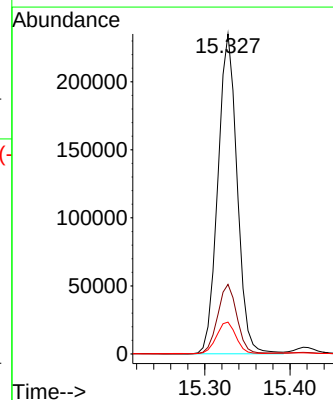
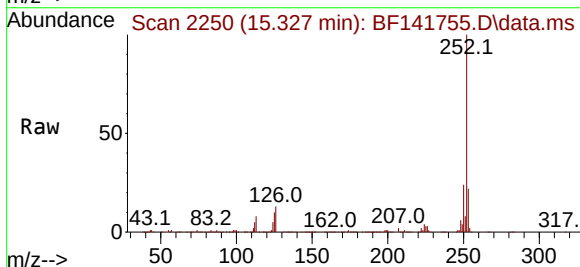
Tgt Ion:252 Resp: 369170

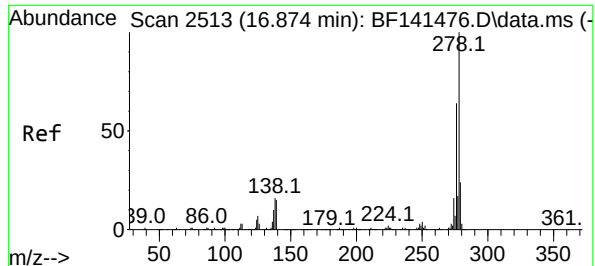
Ion Ratio Lower Upper

252 100

253 21.7 17.1 25.7

125 10.0 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 49.009 ng

RT: 16.839 min Scan# 2513

Delta R.T. -0.053 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

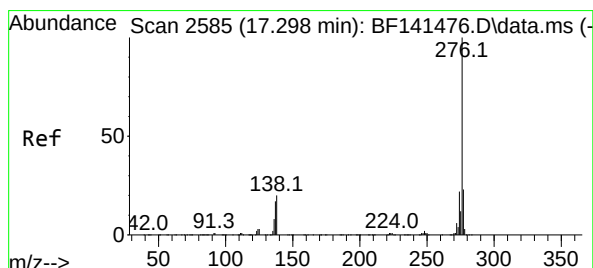
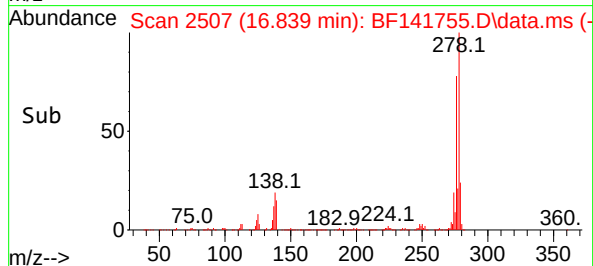
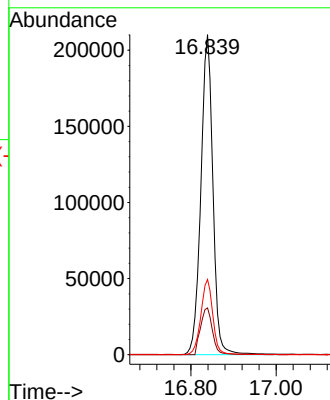
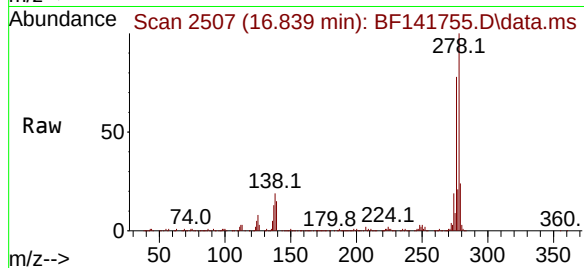
Tgt Ion:278 Resp: 412131

Ion Ratio Lower Upper

278 100

139 14.6 11.8 17.6

279 23.5 19.1 28.7



#92

Benzo(g,h,i)perylene

Concen: 48.600 ng

RT: 17.262 min Scan# 2579

Delta R.T. -0.053 min

Lab File: BF141755.D

Acq: 25 Feb 2025 10:34

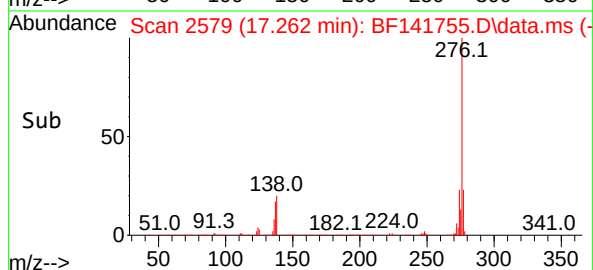
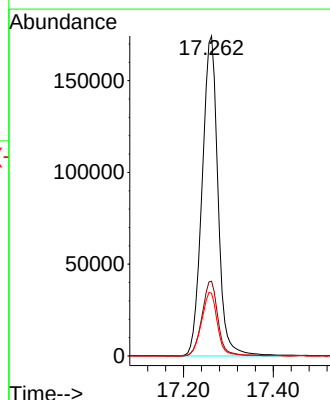
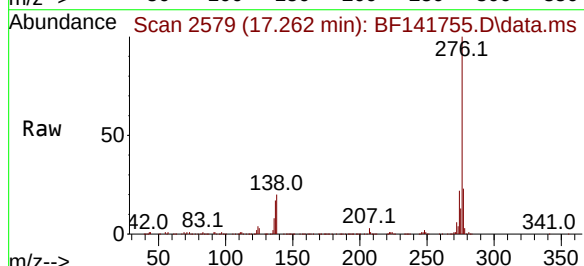
Tgt Ion:276 Resp: 427677

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 19.6 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	-0.01
2	1,4-Dioxane	0.513	0.521	-1.6	95	-0.02
3	Pyridine	1.222	1.297	-6.1	97	-0.03
4	n-Nitrosodimethylamine	0.809	0.734	9.3	84	-0.04
5 S	2-Fluorophenol	1.276	1.379	-8.1	101	0.00
6	Aniline	1.513	1.532	-1.3	94	-0.02
7 S	Phenol-d6	1.612	1.672	-3.7	98	-0.01
8	2-Chlorophenol	1.378	1.463	-6.2	100	-0.01
9	Benzaldehyde	0.857	0.938	-9.5	108	0.00
10 C	Phenol	1.678	1.745	-4.0	97	-0.01
11	bis(2-Chloroethyl)ether	1.261	1.311	-4.0	97	-0.01
12	1,3-Dichlorobenzene	1.455	1.570	-7.9	103	-0.01
13 C	1,4-Dichlorobenzene	1.487	1.589	-6.9	102	-0.01
14	1,2-Dichlorobenzene	1.380	1.491	-8.0	102	-0.01
15	Benzyl Alcohol	1.236	1.227	0.7	92	0.00
16	2,2'-oxybis(1-Chloropropane	2.158	2.073	3.9	90	-0.01
17	2-Methylphenol	1.079	1.115	-3.3	97	0.00
18	Hexachloroethane	0.550	0.581	-5.6	99	-0.01
19 P	n-Nitroso-di-n-propylamine	0.964	0.992	-2.9	96	-0.02
20	3+4-Methylphenols	1.371	1.442	-5.2	99	-0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	95	-0.01
22	Acetophenone	0.498	0.506	-1.6	97	-0.02
23 S	Nitrobenzene-d5	0.383	0.384	-0.3	95	-0.01
24	Nitrobenzene	0.374	0.377	-0.8	96	-0.01
25	Isophorone	0.611	0.618	-1.1	96	-0.02
26 C	2-Nitrophenol	0.186	0.199	-7.0	98	0.00
27	2,4-Dimethylphenol	0.217	0.228	-5.1	97	0.00
28	bis(2-Chloroethoxy)methane	0.392	0.410	-4.6	99	-0.01
29 C	2,4-Dichlorophenol	0.294	0.307	-4.4	98	0.00
30	1,2,4-Trichlorobenzene	0.320	0.334	-4.4	100	-0.01
31	Naphthalene	1.041	1.073	-3.1	98	-0.01
32	Benzoic acid	0.226	0.181	19.9	75	-0.03
33	4-Chloroaniline	0.363	0.379	-4.4	99	-0.02
34 C	Hexachlorobutadiene	0.192	0.201	-4.7	99	-0.01
35	Caprolactam	0.089	0.086	3.4	88	-0.03
36 C	4-Chloro-3-methylphenol	0.325	0.325	0.0	94	-0.01
37	2-Methylnaphthalene	0.677	0.700	-3.4	99	-0.01
38	1-Methylnaphthalene	0.656	0.662	-0.9	96	-0.01
39 I	Acenaphthene-d10	1.000	1.000	0.0	93	-0.02
40	1,2,4,5-Tetrachlorobenzene	0.579	0.620	-7.1	99	0.00
41 P	Hexachlorocyclopentadiene	0.192	0.198	-3.1	91	-0.01
42 S	2,4,6-Tribromophenol	0.201	0.191	5.0	89	-0.02
43 C	2,4,6-Trichlorophenol	0.374	0.383	-2.4	94	0.00
44	2,4,5-Trichlorophenol	0.405	0.404	0.2	91	0.00
45 S	2-Fluorobiphenyl	1.298	1.344	-3.5	98	-0.01
46	1,1'-Biphenyl	1.551	1.613	-4.0	97	-0.02
47	2-Chloronaphthalene	1.147	1.203	-4.9	99	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.385	0.362	6.0	86	-0.01
49	Acenaphthylene	1.705	1.736	-1.8	95	-0.01
50	Dimethylphthalate	1.358	1.384	-1.9	96	-0.02
51	2,6-Dinitrotoluene	0.297	0.294	1.0	91	-0.01
52 C	Acenaphthene	1.147	1.127	1.7	91	-0.02
53	3-Nitroaniline	0.319	0.305	4.4	89	-0.01
54 P	2,4-Dinitrophenol	0.176	0.155	11.9	81	0.00
55	Dibenzofuran	1.683	1.672	0.7	93	-0.02
56 P	4-Nitrophenol	0.237	0.207	12.7	77	0.00
57	2,4-Dinitrotoluene	0.395	0.376	4.8	88	-0.01
58	Fluorene	1.301	1.287	1.1	93	-0.02
59	2,3,4,6-Tetrachlorophenol	0.349	0.331	5.2	89	-0.02
60	Diethylphthalate	1.336	1.323	1.0	93	-0.02
61	4-Chlorophenyl-phenylether	0.626	0.644	-2.9	96	-0.02
62	4-Nitroaniline	0.324	0.286	11.7	79	-0.02
63	Azobenzene	1.328	1.278	3.8	90	-0.02
64 I	Phenanthrene-d10	1.000	1.000	0.0	83	-0.01
65	4,6-Dinitro-2-methylphenol	0.139	0.136	2.2	80	-0.01
66 c	n-Nitrosodiphenylamine	0.640	0.696	-8.7	92	-0.02
67	4-Bromophenyl-phenylether	0.224	0.247	-10.3	93	-0.02
68	Hexachlorobenzene	0.230	0.252	-9.6	92	-0.01
69	Atrazine	0.192	0.172	10.4	77	-0.02
70 C	Pentachlorophenol	0.147	0.146	0.7	79	-0.01
71	Phenanthrene	1.101	1.126	-2.3	87	-0.02
72	Anthracene	1.107	1.148	-3.7	88	-0.02
73	Carbazole	0.996	0.955	4.1	81	-0.01
74	Di-n-butylphthalate	1.150	1.169	-1.7	85	-0.02
75 C	Fluoranthene	1.167	1.071	8.2	78	-0.02
76 I	Chrysene-d12	1.000	1.000	0.0	68	-0.02
77	Benzidine	0.441	0.407	7.7	52	-0.01
78	Pyrene	1.703	1.941	-14.0	75	-0.02
79 S	Terphenyl-d14	1.185	1.341	-13.2	76	-0.02
80	Butylbenzylphthalate	0.590	0.653	-10.7	72	-0.02
81	Benzo(a)anthracene	1.329	1.394	-4.9	70	-0.02
82	3,3'-Dichlorobenzidine	0.381	0.421	-10.5	75	-0.02
83	Chrysene	1.228	1.271	-3.5	72	-0.02
84	Bis(2-ethylhexyl)phthalate	0.665	0.826	-24.2	81	-0.02
85 c	Di-n-octyl phthalate	0.949	1.341	-41.3#	94	-0.04
86 I	Perylene-d12	1.000	1.000	0.0	92	-0.03
87	Indeno(1,2,3-cd)pyrene	1.236	1.495	-21.0	107	-0.05
88	Benzo(b)fluoranthene	1.343	1.171	12.8	81	-0.04
89	Benzo(k)fluoranthene	1.147	0.994	13.3	80	-0.04
90 C	Benzo(a)pyrene	1.087	1.099	-1.1	93	-0.04
91	Dibenzo(a,h)anthracene	1.001	1.227	-22.6	107	-0.05
92	Benzo(g,h,i)perylene	1.048	1.273	-21.5	106	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
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Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	94	-0.01
2	1,4-Dioxane	40.000	40.569	-1.4	95	-0.02
3	Pyridine	40.000	42.447	-6.1	97	-0.03
4	n-Nitrosodimethylamine	40.000	36.290	9.3	84	-0.04
5 S	2-Fluorophenol	80.000	86.457	-8.1	101	0.00
6	Aniline	40.000	40.528	-1.3	94	-0.02
7 S	Phenol-d6	80.000	82.975	-3.7	98	-0.01
8	2-Chlorophenol	40.000	42.450	-6.1	100	-0.01
9	Benzaldehyde	40.000	43.804	-9.5	108	0.00
10 C	Phenol	40.000	41.592	-4.0	97	-0.01
11	bis(2-Chloroethyl)ether	40.000	41.592	-4.0	97	-0.01
12	1,3-Dichlorobenzene	40.000	43.146	-7.9	103	-0.01
13 C	1,4-Dichlorobenzene	40.000	42.757	-6.9	102	-0.01
14	1,2-Dichlorobenzene	40.000	43.218	-8.0	102	-0.01
15	Benzyl Alcohol	40.000	39.710	0.7	92	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	38.422	3.9	90	-0.01
17	2-Methylphenol	40.000	41.327	-3.3	97	0.00
18	Hexachloroethane	40.000	42.225	-5.6	99	-0.01
19 P	n-Nitroso-di-n-propylamine	40.000	41.150	-2.9	96	-0.02
20	3+4-Methylphenols	40.000	42.065	-5.2	99	-0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	95	-0.01
22	Acetophenone	40.000	40.679	-1.7	97	-0.02
23 S	Nitrobenzene-d5	80.000	80.153	-0.2	95	-0.01
24	Nitrobenzene	40.000	40.343	-0.9	96	-0.01
25	Isophorone	40.000	40.460	-1.2	96	-0.02
26 C	2-Nitrophenol	40.000	42.764	-6.9	98	0.00
27	2,4-Dimethylphenol	40.000	42.025	-5.1	97	0.00
28	bis(2-Chloroethoxy)methane	40.000	41.812	-4.5	99	-0.01
29 C	2,4-Dichlorophenol	40.000	41.878	-4.7	98	0.00
30	1,2,4-Trichlorobenzene	40.000	41.760	-4.4	100	-0.01
31	Naphthalene	40.000	41.216	-3.0	98	-0.01
32	Benzoic acid	40.000	32.162	19.6	75	-0.03
33	4-Chloroaniline	40.000	41.733	-4.3	99	-0.02
34 C	Hexachlorobutadiene	40.000	41.794	-4.5	99	-0.01
35	Caprolactam	40.000	38.568	3.6	88	-0.03
36 C	4-Chloro-3-methylphenol	40.000	39.939	0.2	94	-0.01
37	2-Methylnaphthalene	40.000	41.309	-3.3	99	-0.01
38	1-Methylnaphthalene	40.000	40.360	-0.9	96	-0.01
39 I	Acenaphthene-d10	20.000	20.000	0.0	93	-0.02
40	1,2,4,5-Tetrachlorobenzene	40.000	42.881	-7.2	99	0.00
41 P	Hexachlorocyclopentadiene	40.000	41.208	-3.0	91	-0.01
42 S	2,4,6-Tribromophenol	80.000	76.201	4.7	89	-0.02
43 C	2,4,6-Trichlorophenol	40.000	40.921	-2.3	94	0.00
44	2,4,5-Trichlorophenol	40.000	39.849	0.4	91	0.00
45 S	2-Fluorobiphenyl	80.000	82.817	-3.5	98	-0.01
46	1,1'-Biphenyl	40.000	41.602	-4.0	97	-0.02
47	2-Chloronaphthalene	40.000	41.952	-4.9	99	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141755.D
 Acq On : 25 Feb 2025 10:34
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	37.587	6.0	86	-0.01
49	Acenaphthylene	40.000	40.722	-1.8	95	-0.01
50	Dimethylphthalate	40.000	40.768	-1.9	96	-0.02
51	2,6-Dinitrotoluene	40.000	39.655	0.9	91	-0.01
52 C	Acenaphthene	40.000	39.327	1.7	91	-0.02
53	3-Nitroaniline	40.000	38.195	4.5	89	-0.01
54 P	2,4-Dinitrophenol	40.000	35.138	12.2	81	0.00
55	Dibenzofuran	40.000	39.732	0.7	93	-0.02
56 P	4-Nitrophenol	40.000	34.873	12.8	77	0.00
57	2,4-Dinitrotoluene	40.000	38.111	4.7	88	-0.01
58	Fluorene	40.000	39.572	1.1	93	-0.02
59	2,3,4,6-Tetrachlorophenol	40.000	37.977	5.1	89	-0.02
60	Diethylphthalate	40.000	39.619	1.0	93	-0.02
61	4-Chlorophenyl-phenylether	40.000	41.182	-3.0	96	-0.02
62	4-Nitroaniline	40.000	35.243	11.9	79	-0.02
63	Azobenzene	40.000	38.507	3.7	90	-0.02
64 I	Phenanthrene-d10	20.000	20.000	0.0	83	-0.01
65	4,6-Dinitro-2-methylphenol	40.000	39.171	2.1	80	-0.01
66 c	n-Nitrosodiphenylamine	40.000	43.456	-8.6	92	-0.02
67	4-Bromophenyl-phenylether	40.000	44.246	-10.6	93	-0.02
68	Hexachlorobenzene	40.000	43.753	-9.4	92	-0.01
69	Atrazine	40.000	35.789	10.5	77	-0.02
70 C	Pentachlorophenol	40.000	39.625	0.9	79	-0.01
71	Phenanthrene	40.000	40.914	-2.3	87	-0.02
72	Anthracene	40.000	41.494	-3.7	88	-0.02
73	Carbazole	40.000	38.357	4.1	81	-0.01
74	Di-n-butylphthalate	40.000	40.662	-1.7	85	-0.02
75 C	Fluoranthene	40.000	36.703	8.2	78	-0.02
76 I	Chrysene-d12	20.000	20.000	0.0	68	-0.02
77	Benzydine	40.000	36.886	7.8	52	-0.01
78	Pyrene	40.000	45.595	-14.0	75	-0.02
79 S	Terphenyl-d14	80.000	90.576	-13.2	76	-0.02
80	Butylbenzylphthalate	40.000	44.277	-10.7	72	-0.02
81	Benzo(a)anthracene	40.000	41.938	-4.8	70	-0.02
82	3,3'-Dichlorobenzidine	40.000	44.271	-10.7	75	-0.02
83	Chrysene	40.000	41.405	-3.5	72	-0.02
84	Bis(2-ethylhexyl)phthalate	40.000	49.688	-24.2	81	-0.02
85 c	Di-n-octyl phthalate	40.000	56.543	-41.4#	94	-0.04
86 I	Perylene-d12	20.000	20.000	0.0	92	-0.03
87	Indeno(1,2,3-cd)pyrene	40.000	48.386	-21.0	107	-0.05
88	Benzo(b)fluoranthene	40.000	34.885	12.8	81	-0.04
89	Benzo(k)fluoranthene	40.000	34.682	13.3	80	-0.04
90 C	Benzo(a)pyrene	40.000	40.454	-1.1	93	-0.04
91	Dibenzo(a,h)anthracene	40.000	49.009	-22.5	107	-0.05
92	Benzo(g,h,i)perylene	40.000	48.600	-21.5	106	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141755.D
Acq On : 25 Feb 2025 10:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 25 11:03:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
----------	--------	-------	------	-------	----------

(#) = Out of Range

SPCC's out = 0 CCC's out = 1



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.276	1.366		7.1	
Benzaldehyde	0.857	0.907		5.8	
Phenol-d6	1.612	1.663		3.2	
Phenol	1.678	1.722		2.6	20.0
bis(2-Chloroethyl)ether	1.261	1.285		1.9	
2-Chlorophenol	1.378	1.467		6.5	
2-Methylphenol	1.079	1.099		1.9	
2,2-oxybis(1-Chloropropane)	2.158	2.011		-6.8	
Acetophenone	0.498	0.499		0.2	
3+4-Methylphenols	1.371	1.432		4.4	
n-Nitroso-di-n-propylamine	0.964	0.977	0.050	1.3	
Nitrobenzene-d5	0.383	0.375		-2.1	
Hexachloroethane	0.550	0.572		4.0	
Nitrobenzene	0.374	0.361		-3.5	
Isophorone	0.611	0.607		-0.7	
2-Nitrophenol	0.186	0.196		5.4	20.0
2,4-Dimethylphenol	0.217	0.221		1.8	
bis(2-Chloroethoxy)methane	0.392	0.404		3.1	
2,4-Dichlorophenol	0.294	0.303		3.1	20.0
Naphthalene	1.041	1.050		0.9	
4-Chloroaniline	0.363	0.381		5.0	
Hexachlorobutadiene	0.192	0.196		2.1	20.0
Caprolactam	0.089	0.090		1.1	
4-Chloro-3-methylphenol	0.325	0.327		0.6	20.0
2-Methylnaphthalene	0.677	0.692		2.2	
Hexachlorocyclopentadiene	0.192	0.186	0.050	-3.1	
2,4,6-Trichlorophenol	0.374	0.378		1.1	20.0
2-Fluorobiphenyl	1.298	1.311		1.0	
2,4,5-Trichlorophenol	0.405	0.404		-0.2	
1,1-Biphenyl	1.551	1.592		2.6	
2-Chloronaphthalene	1.147	1.179		2.8	
2-Nitroaniline	0.385	0.371		-3.6	
Dimethylphthalate	1.358	1.404		3.4	
Acenaphthylene	1.705	1.716		0.6	
2,6-Dinitrotoluene	0.297	0.311		4.7	
3-Nitroaniline	0.319	0.316		-0.9	
Acenaphthene	1.147	1.148		0.1	20.0
2,4-Dinitrophenol	0.176	0.165	0.050	-6.3	
4-Nitrophenol	0.237	0.220	0.050	-7.2	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1415 SAS No.: Q1415 SDG No.: Q1415

Instrument ID: BNA_F Calibration Date/Time: 02/26/2025 10:45

Lab File ID: BF141775.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.683	1.683		0.0	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
Diethylphthalate	1.336	1.362		1.9	
4-Chlorophenyl-phenylether	0.626	0.660		5.4	
Fluorene	1.301	1.325		1.8	
4-Nitroaniline	0.324	0.308		-4.9	
4,6-Dinitro-2-methylphenol	0.139	0.138		-0.7	
n-Nitrosodiphenylamine	0.640	0.669		4.5	20.0
2,4,6-Tribromophenol	0.201	0.205		2.0	
4-Bromophenyl-phenylether	0.224	0.239		6.7	
Hexachlorobenzene	0.230	0.248		7.8	
Atrazine	0.192	0.176		-8.3	
Pentachlorophenol	0.147	0.154		4.8	20.0
Phenanthrene	1.101	1.138		3.4	
Anthracene	1.107	1.135		2.5	
Carbazole	0.996	0.991		-0.5	
Di-n-butylphthalate	1.150	1.240		7.8	
Fluoranthene	1.167	1.148		-1.6	20.0
Pyrene	1.703	1.867		9.6	
Terphenyl-d14	1.185	1.316		11.1	
Butylbenzylphthalate	0.590	0.688		16.6	
3,3-Dichlorobenzidine	0.381	0.427		12.1	
Benzo (a) anthracene	1.329	1.363		2.6	
Chrysene	1.228	1.285		4.6	
Bis (2-ethylhexyl) phthalate	0.665	0.883		32.8	
Di-n-octyl phthalate	0.949	1.339		41.1	20.0
Benzo (b) fluoranthene	1.343	1.304		-2.9	
Benzo (k) fluoranthene	1.147	1.152		0.4	
Benzo (a) pyrene	1.087	1.110		2.1	20.0
Indeno (1,2,3-cd) pyrene	1.236	1.406		13.8	
Dibenzo (a,h) anthracene	1.001	1.141		14.0	
Benzo (g,h,i) perylene	1.048	1.186		13.2	
1,2,4,5-Tetrachlorobenzene	0.579	0.600		3.6	
1,4-Dioxane	0.513	0.531		3.5	20.0
2,3,4,6-Tetrachlorophenol	0.349	0.345		-1.1	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141775.D
 Acq On : 26 Feb 2025 10:45
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	85384	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	345346	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	188350	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	315416	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	190171	20.000	ng	-0.02
86) Perylene-d12	15.392	264	189428	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	466432	85.642	ng	0.00
7) Phenol-d6	6.428	99	568111	82.530	ng	-0.01
23) Nitrobenzene-d5	7.351	82	518282	78.277	ng	-0.01
42) 2,4,6-Tribromophenol	10.610	330	154150	81.472	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	987847	80.803	ng	-0.01
79) Terphenyl-d14	12.886	244	1001068	88.866	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.463	88	90761	41.405	ng	93
3) Pyridine	3.193	79	224879	43.112	ng	93
4) n-Nitrosodimethylamine	3.152	42	123982	35.897	ng	88
6) Aniline	6.445	93	260952	40.412	ng	85
8) 2-Chlorophenol	6.575	128	250565	42.577	ng	99
9) Benzaldehyde	6.334	77	154886	42.342	ng	98
10) Phenol	6.445	94	294136	41.054	ng	97
11) bis(2-Chloroethyl)ether	6.522	93	219466	40.782	ng	100
12) 1,3-Dichlorobenzene	6.722	146	264975	42.649	ng	97
13) 1,4-Dichlorobenzene	6.798	146	265409	41.812	ng	98
14) 1,2-Dichlorobenzene	6.951	146	250587	42.534	ng	99
15) Benzyl Alcohol	6.934	79	211609	40.087	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.057	45	343419	37.280	ng	56
17) 2-Methylphenol	7.051	107	187635	40.743	ng	96
18) Hexachloroethane	7.292	117	97620	41.554	ng	96
19) n-Nitroso-di-n-propyla...	7.198	70	166799	40.509	ng	95
20) 3+4-Methylphenols	7.204	107	244599	41.793	ng	# 82
22) Acetophenone	7.192	105	344659	40.120	ng	# 91
24) Nitrobenzene	7.369	77	249297	38.612	ng	98
25) Isophorone	7.610	82	419034	39.692	ng	97
26) 2-Nitrophenol	7.687	139	135704	42.247	ng	91
27) 2,4-Dimethylphenol	7.728	122	152758	40.708	ng	98
28) bis(2-Chloroethoxy)met...	7.816	93	278738	41.204	ng	100
29) 2,4-Dichlorophenol	7.934	162	209577	41.335	ng	99
30) 1,2,4-Trichlorobenzene	8.010	180	225383	40.821	ng	99
31) Naphthalene	8.087	128	725441	40.355	ng	100
32) Benzoic acid	7.869	122	129646	33.261	ng	97
33) 4-Chloroaniline	8.139	127	263309	41.953	ng	98
34) Hexachlorobutadiene	8.198	225	135565	40.899	ng	99
35) Caprolactam	8.516	113	62085	40.218	ng	92
36) 4-Chloro-3-methylphenol	8.628	107	225929	40.227	ng	100
37) 2-Methylnaphthalene	8.775	142	478235	40.882	ng	100
38) 1-Methylnaphthalene	8.875	142	456969	40.333	ng	97
40) 1,2,4,5-Tetrachloroben...	8.945	216	226158	41.503	ng	99
41) Hexachlorocyclopentadiene	8.928	237	70017	38.631	ng	99
43) 2,4,6-Trichlorophenol	9.063	196	142256	40.392	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141775.D
 Acq On : 26 Feb 2025 10:45
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

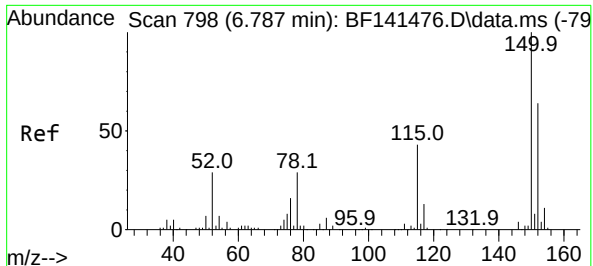
Quant Time: Feb 26 11:15:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	152360	39.917	ng	97
46) 1,1'-Biphenyl	9.239	154	599651	41.065	ng	99
47) 2-Chloronaphthalene	9.269	162	444145	41.132	ng	98
48) 2-Nitroaniline	9.369	65	139713	38.554	ng	95
49) Acenaphthylene	9.681	152	646345	40.243	ng	100
50) Dimethylphthalate	9.539	163	528963	41.369	ng	99
51) 2,6-Dinitrotoluene	9.610	165	117206	41.931	ng	95
52) Acenaphthene	9.851	154	432327	40.039	ng	100
53) 3-Nitroaniline	9.781	138	118897	39.520	ng	98
54) 2,4-Dinitrophenol	9.898	184	61995	37.317	ng	89
55) Dibenzofuran	10.022	168	633880	39.995	ng	99
56) 4-Nitrophenol	9.963	139	82815	37.082	ng	92
57) 2,4-Dinitrotoluene	10.016	165	147701	39.692	ng	98
58) Fluorene	10.369	166	499306	40.745	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	129813	39.503	ng	95
60) Diethylphthalate	10.239	149	512946	40.773	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	248595	42.168	ng	97
62) 4-Nitroaniline	10.398	138	116085	38.000	ng	94
63) Azobenzene	10.516	77	492750	39.399	ng	96
65) 4,6-Dinitro-2-methylph...	10.428	198	86949	39.684	ng	93
66) n-Nitrosodiphenylamine	10.480	169	422215	41.817	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	150998	42.834	ng	98
68) Hexachlorobenzene	10.916	284	156619	43.146	ng	98
69) Atrazine	11.004	200	111316	36.750	ng	98
70) Pentachlorophenol	11.116	266	96995	41.789	ng	98
71) Phenanthrene	11.327	178	718095	41.360	ng	100
72) Anthracene	11.380	178	716154	41.033	ng	100
73) Carbazole	11.539	167	625228	39.813	ng	100
74) Di-n-butylphthalate	11.863	149	782379	43.146	ng	100
75) Fluoranthene	12.516	202	723900	39.327	ng	100
77) Benzidine	12.645	184	169464	40.405	ng	99
78) Pyrene	12.745	202	710043	43.860	ng	100
80) Butylbenzylphthalate	13.363	149	261592	46.652	ng	96
81) Benzo(a)anthracene	13.933	228	518321	41.002	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	162521	44.881	ng	98
83) Chrysene	13.969	228	488888	41.884	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	335921	53.117	ng	100
85) Di-n-octyl phthalate	14.527	149	509316	56.453	ng	97
87) Indeno(1,2,3-cd)pyrene	16.833	276	532782	45.519	ng	99
88) Benzo(b)fluoranthene	14.974	252	493954	38.835	ng	99
89) Benzo(k)fluoranthene	14.998	252	436482	40.188	ng	99
90) Benzo(a)pyrene	15.327	252	420633	40.870	ng	98
91) Dibenzo(a,h)anthracene	16.845	278	432192	45.570	ng	99
92) Benzo(g,h,i)perylene	17.268	276	449342	45.275	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

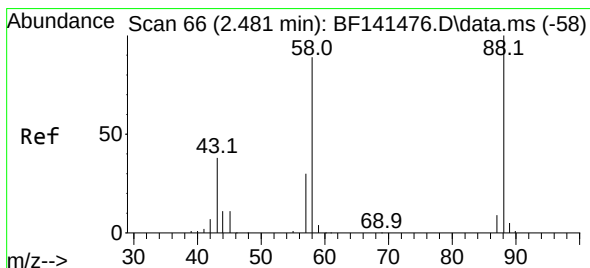
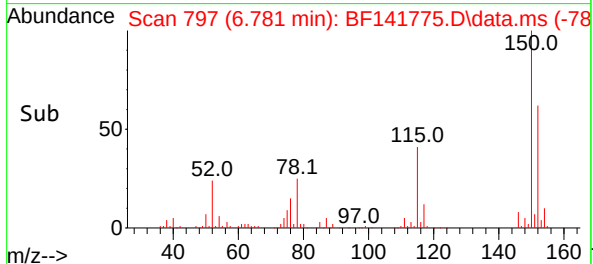
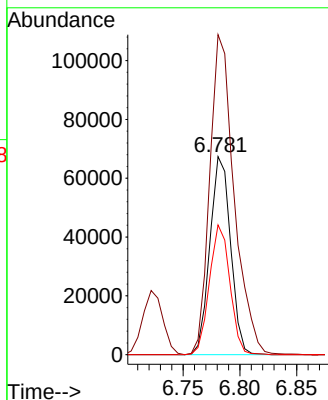
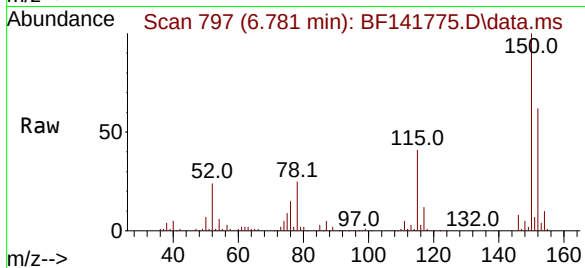
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#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.781 min Scan# 79
 Delta R.T. -0.011 min
 Lab File: BF141775.D
 Acq: 26 Feb 2025 10:45

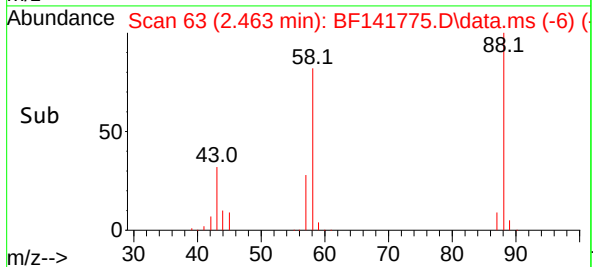
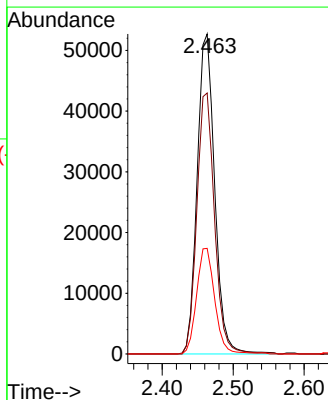
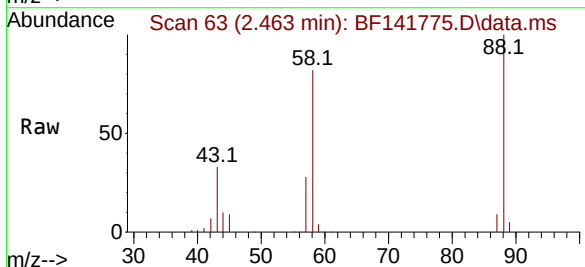
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

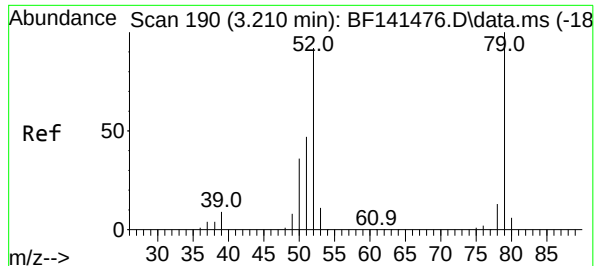
Tgt Ion:152 Resp: 85384
 Ion Ratio Lower Upper
 152 100
 150 161.5 125.0 187.4
 115 65.5 53.6 80.4



#2
 1,4-Dioxane
 Concen: 41.405 ng
 RT: 2.463 min Scan# 63
 Delta R.T. -0.018 min
 Lab File: BF141775.D
 Acq: 26 Feb 2025 10:45

Tgt Ion: 88 Resp: 90761
 Ion Ratio Lower Upper
 88 100
 58 82.5 71.1 106.7
 43 34.2 30.6 46.0

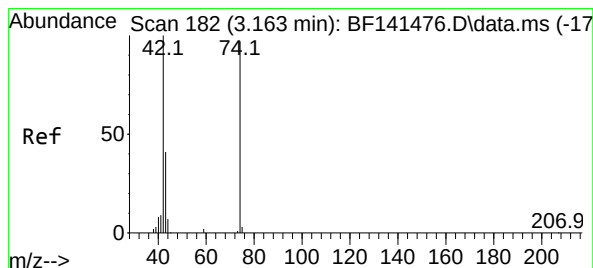
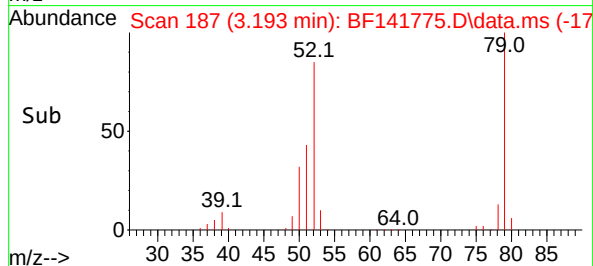
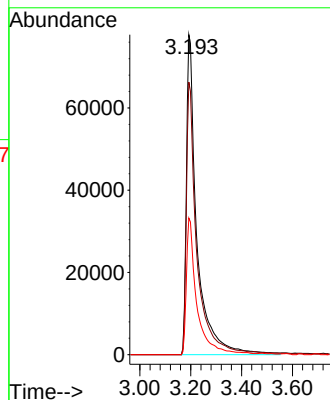
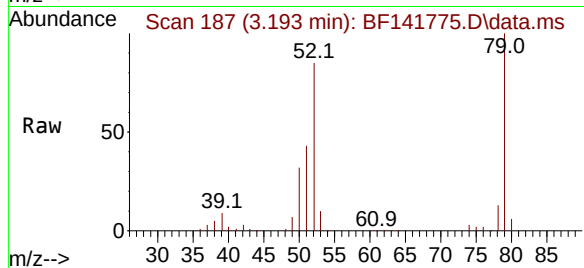




#3
Pyridine
Concen: 43.112 ng
RT: 3.193 min Scan# 11
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

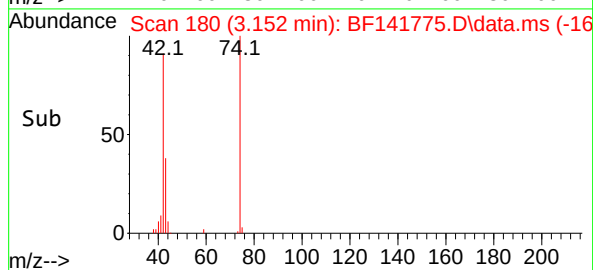
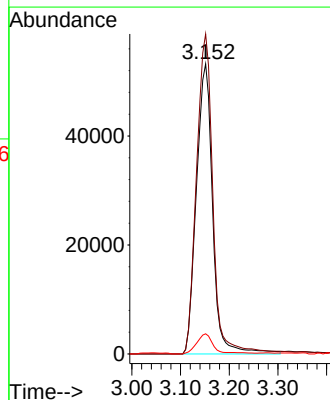
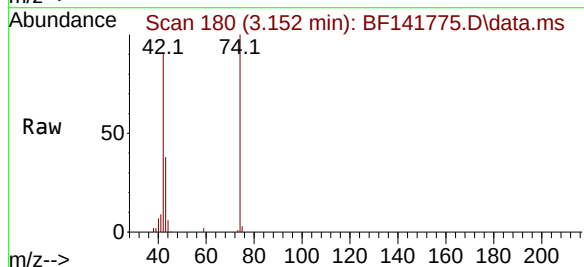
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

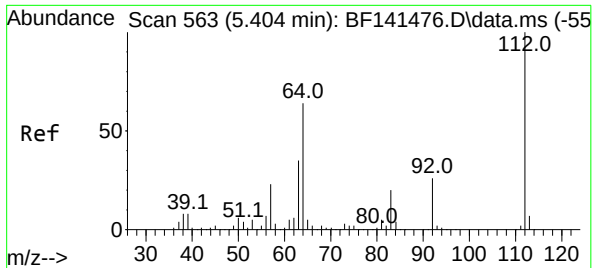
Tgt Ion: 79 Resp: 224879
Ion Ratio Lower Upper
79 100
52 85.2 73.7 110.5
51 42.7 37.5 56.3



#4
n-Nitrosodimethylamine
Concen: 35.897 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 42 Resp: 123982
Ion Ratio Lower Upper
42 100
74 110.3 78.0 117.0
44 7.0 5.4 8.2

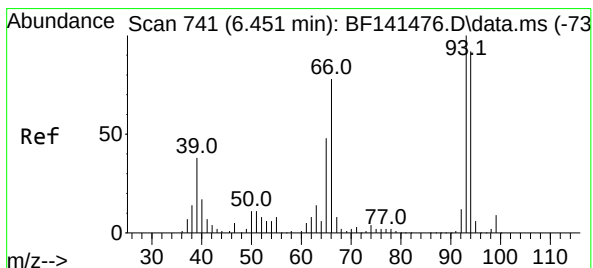
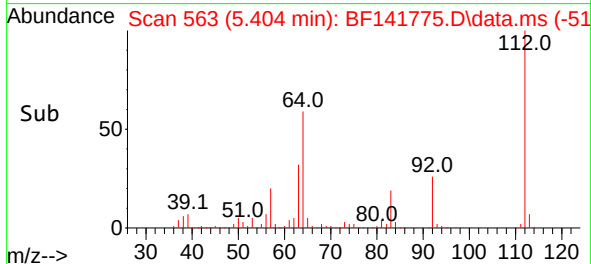
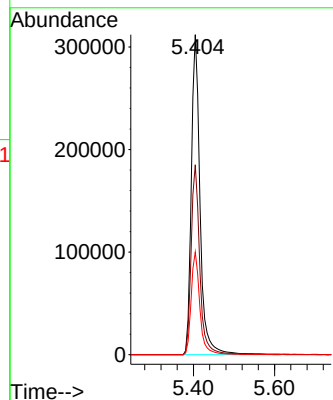
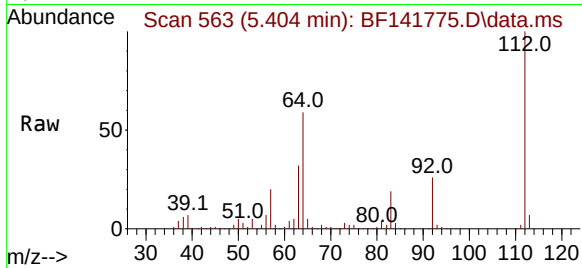




#5
2-Fluorophenol
Concen: 85.642 ng
RT: 5.404 min Scan# 50
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

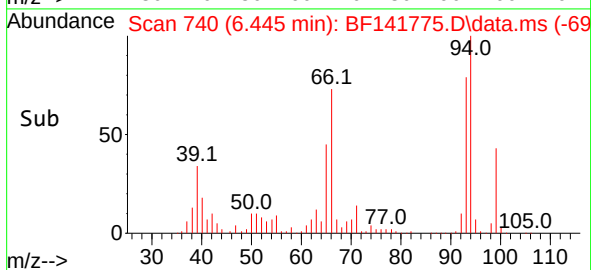
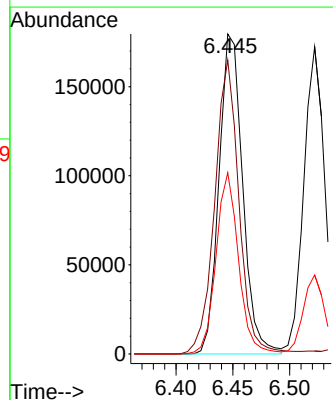
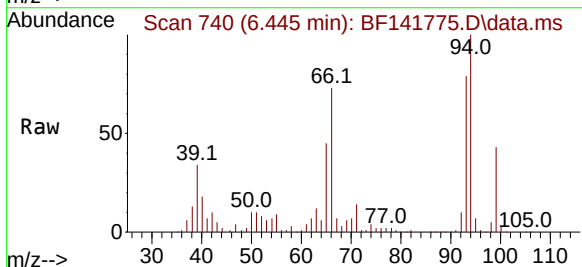
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

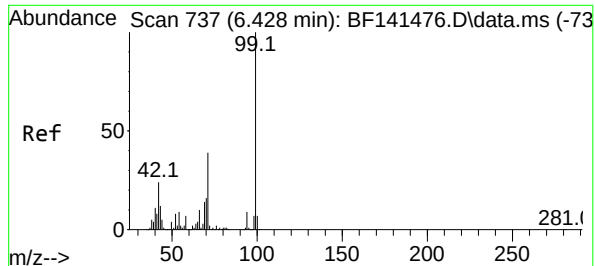
Tgt Ion:112 Resp: 466432
Ion Ratio Lower Upper
112 100
64 59.4 51.1 76.7
63 32.1 28.4 42.6



#6
Aniline
Concen: 40.412 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 93 Resp: 260952
Ion Ratio Lower Upper
93 100
66 91.9 62.6 94.0
65 56.7 38.3 57.5

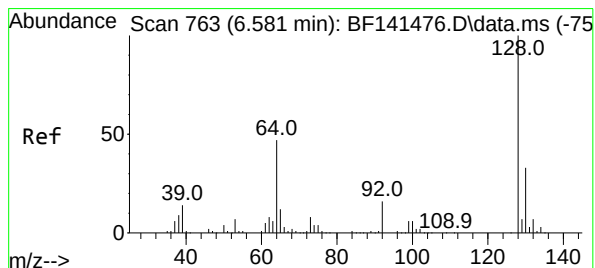
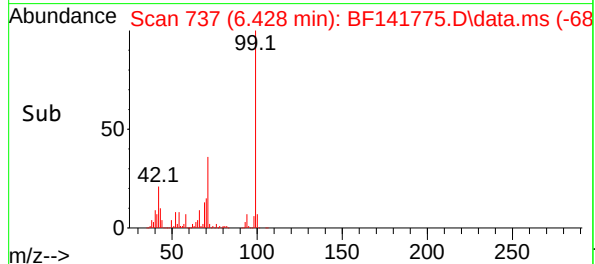
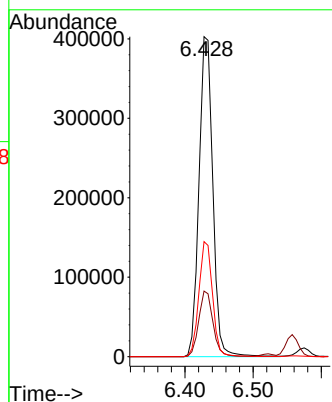
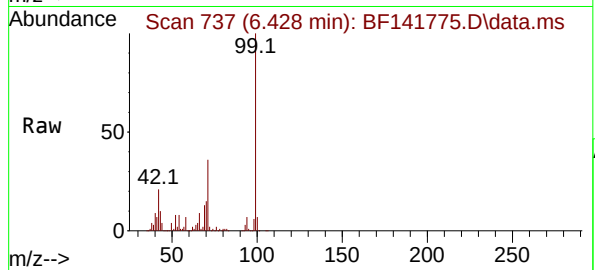




#7
Phenol-d6
Concen: 82.530 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

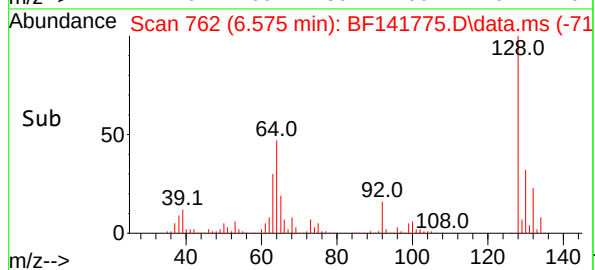
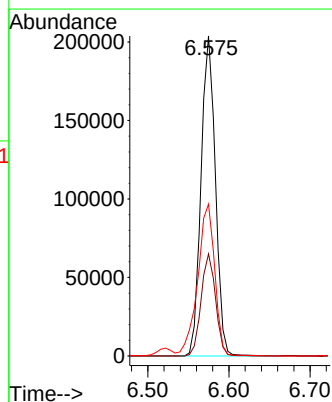
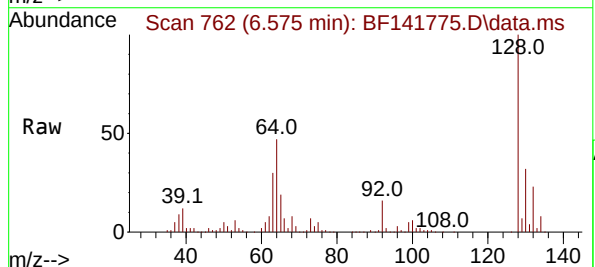
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

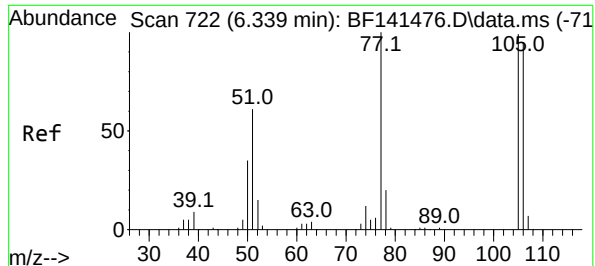
Tgt Ion: 99 Resp: 568111
Ion Ratio Lower Upper
99 100
42 20.5 19.1 28.7
71 35.9 31.1 46.7



#8
2-Chlorophenol
Concen: 42.577 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion: 128 Resp: 250565
Ion Ratio Lower Upper
128 100
130 31.9 12.7 52.7
64 47.4 28.3 68.3





#9

Benzaldehyde

Concen: 42.342 ng

RT: 6.334 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

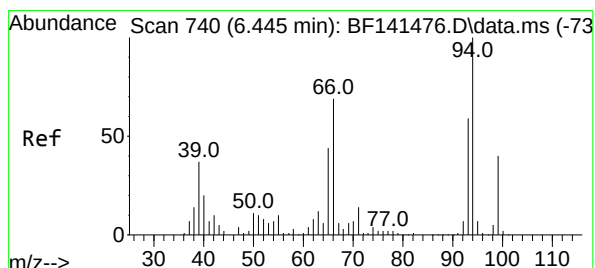
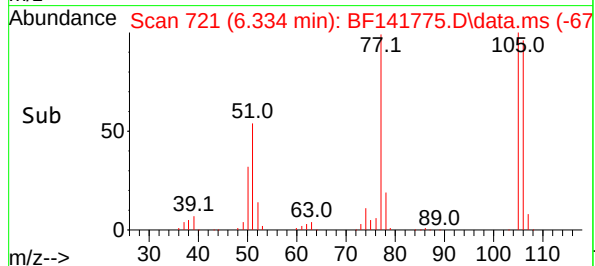
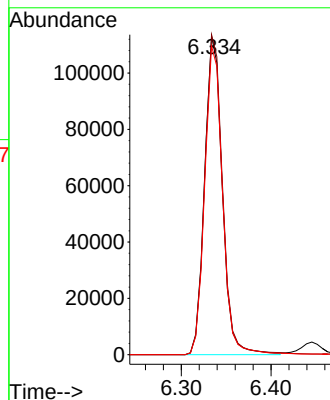
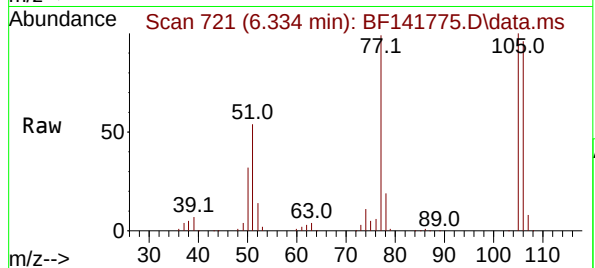
Tgt Ion: 77 Resp: 154886

Ion Ratio Lower Upper

77 100

105 100.5 79.4 119.4

106 97.0 75.1 115.1



#10

Phenol

Concen: 41.054 ng

RT: 6.445 min Scan# 740

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

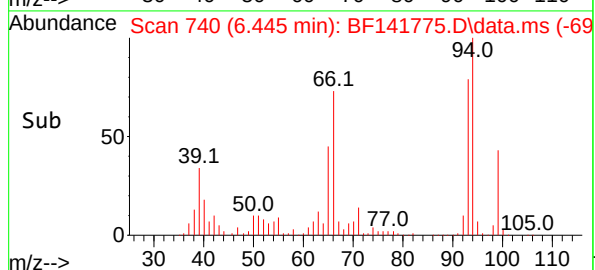
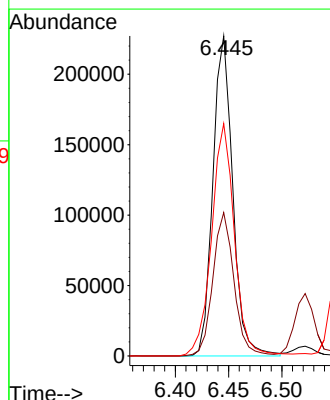
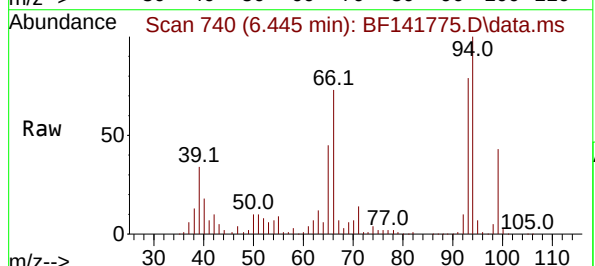
Tgt Ion: 94 Resp: 294136

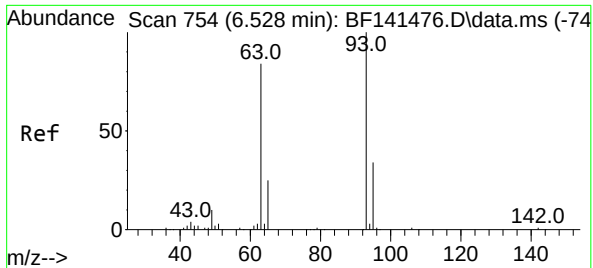
Ion Ratio Lower Upper

94 100

65 44.8 23.7 63.7

66 72.6 49.3 89.3

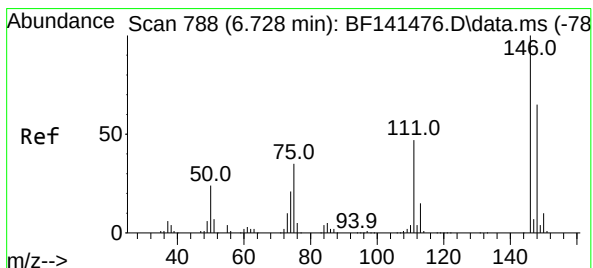
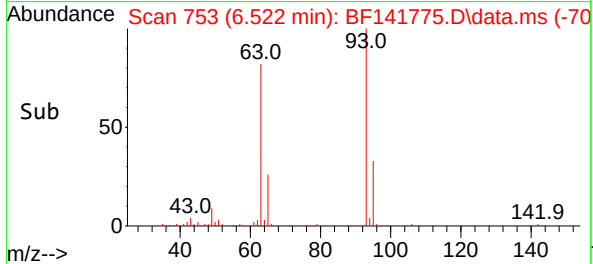
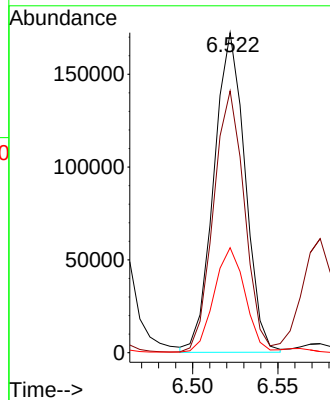
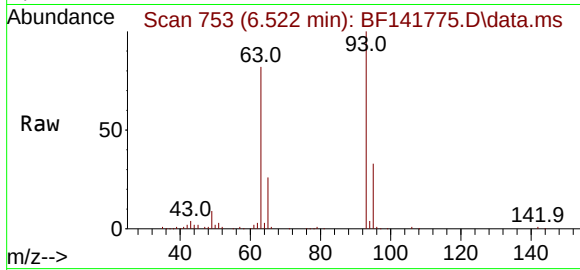




#11
bis(2-Chloroethyl)ether
Concen: 40.782 ng
RT: 6.522 min Scan# 714
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

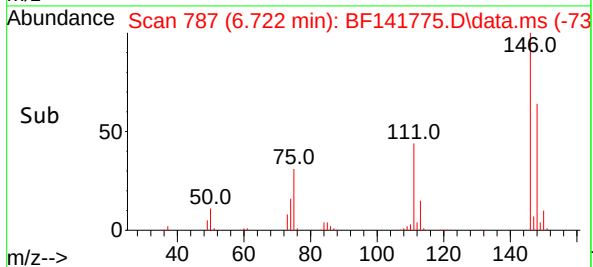
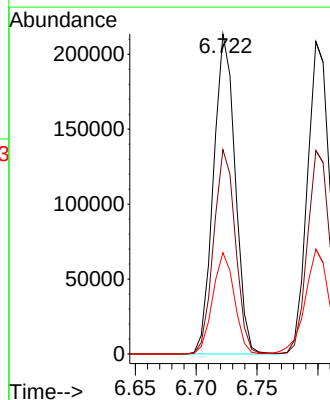
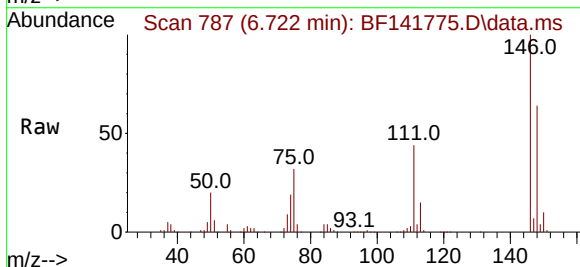
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

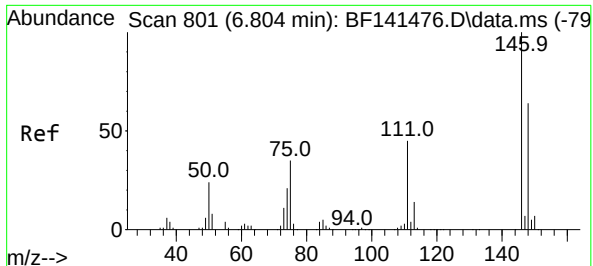
Tgt Ion: 93 Resp: 219466
Ion Ratio Lower Upper
93 100
63 81.8 62.0 102.0
95 32.8 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 42.649 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:146 Resp: 264975
Ion Ratio Lower Upper
146 100
148 63.9 51.9 77.9
75 31.6 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 41.812 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

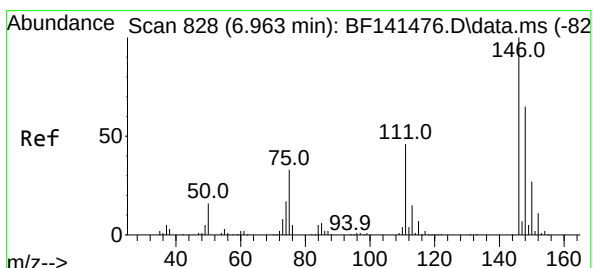
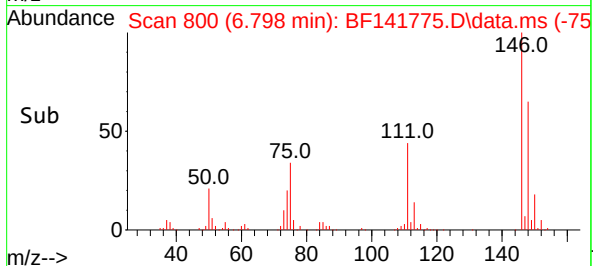
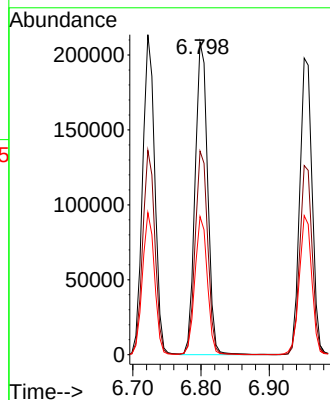
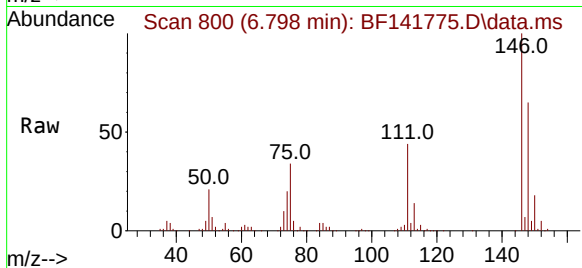
Tgt Ion:146 Resp: 265409

Ion Ratio Lower Upper

146 100

148 65.1 50.9 76.3

111 44.2 35.9 53.9



#14

1,2-Dichlorobenzene

Concen: 42.534 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

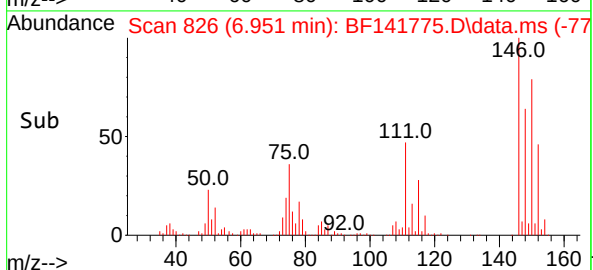
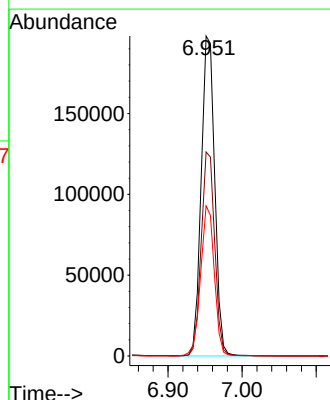
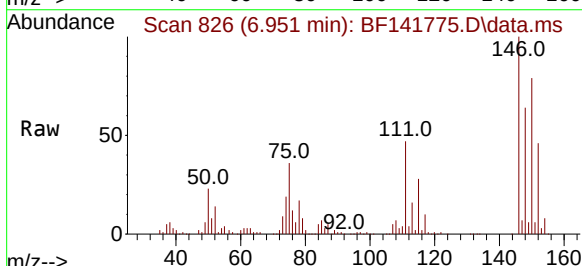
Tgt Ion:146 Resp: 250587

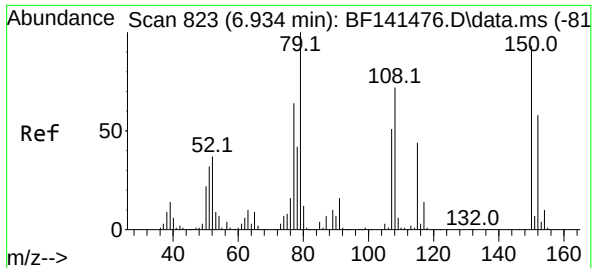
Ion Ratio Lower Upper

146 100

148 63.8 51.8 77.6

111 46.9 37.0 55.4





#15

Benzyl Alcohol

Concen: 40.087 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

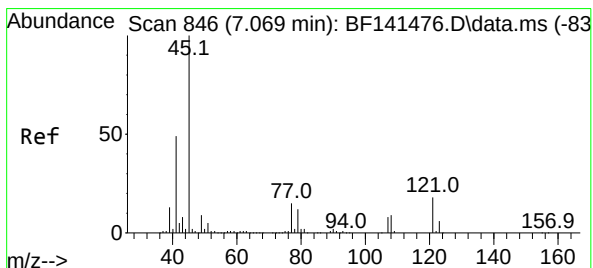
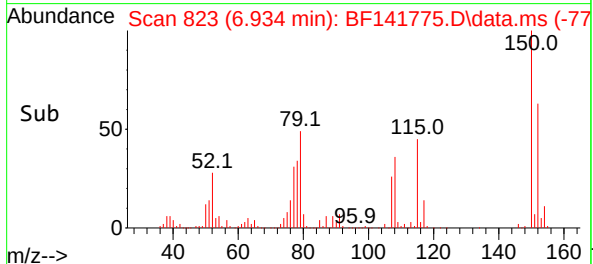
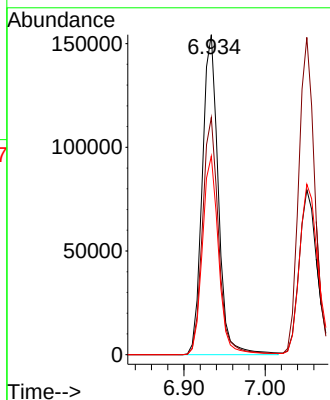
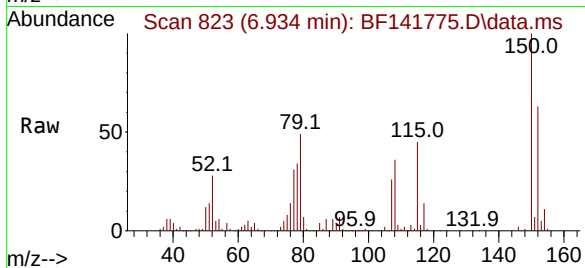
Tgt Ion: 79 Resp: 211609

Ion Ratio Lower Upper

79 100

108 74.1 57.4 86.2

77 62.1 50.9 76.3



#16

2,2'-oxybis(1-chloropropane)

Concen: 37.280 ng

RT: 7.057 min Scan# 844

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

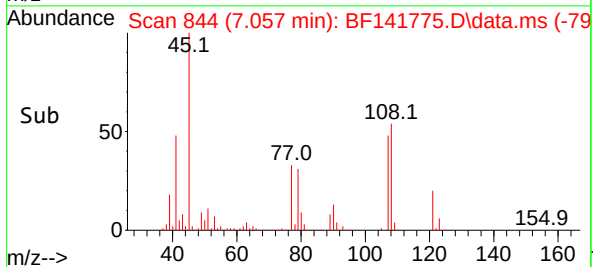
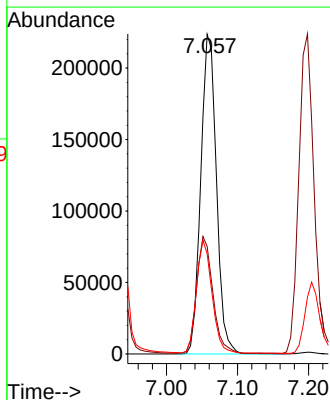
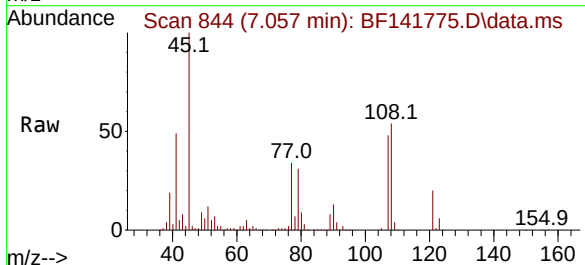
Tgt Ion: 45 Resp: 343419

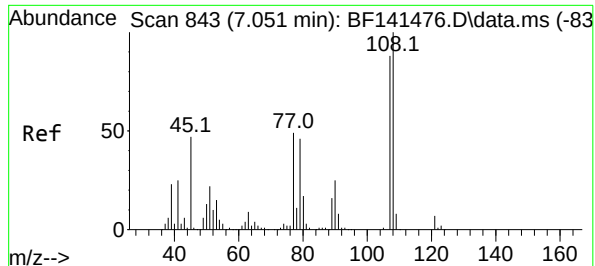
Ion Ratio Lower Upper

45 100

77 33.7 0.0 35.8

79 31.3 0.0 32.7

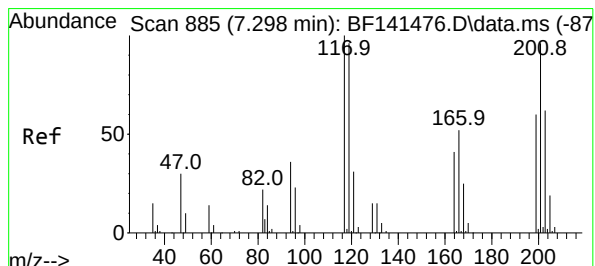
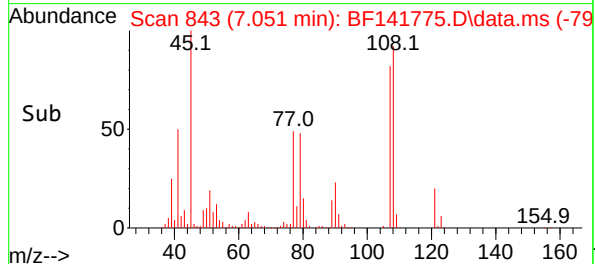
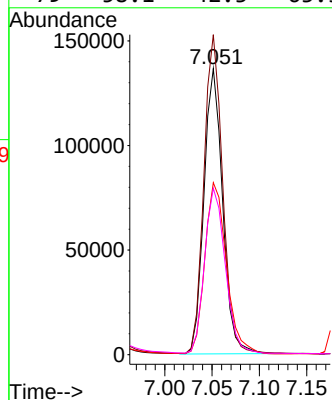
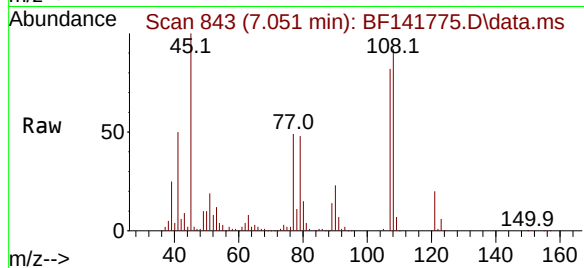




#17
2-Methylphenol
Concen: 40.743 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

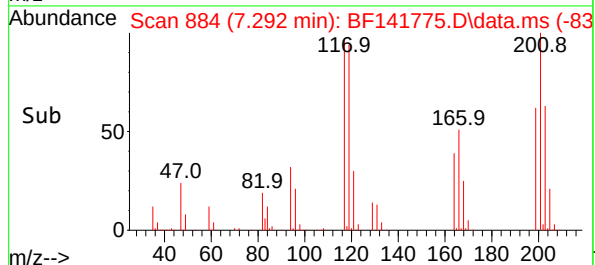
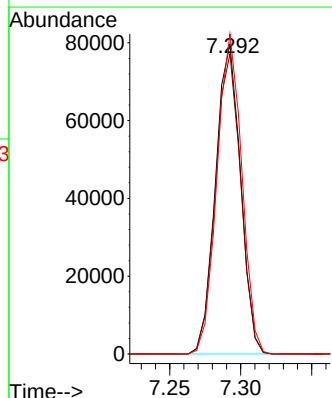
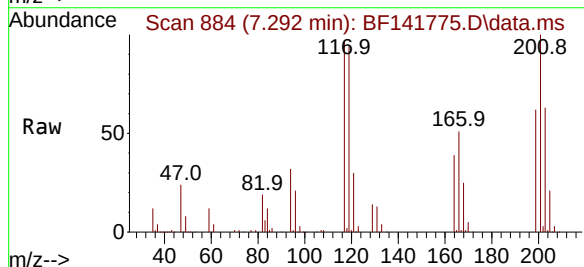
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

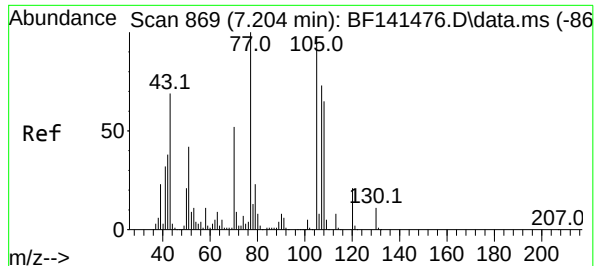
Tgt Ion:107 Resp: 187635
Ion Ratio Lower Upper
107 100
108 111.8 90.6 136.0
77 60.1 44.4 66.6
79 58.1 42.3 63.5



#18
Hexachloroethane
Concen: 41.554 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:117 Resp: 97620
Ion Ratio Lower Upper
117 100
119 96.9 76.5 114.7
201 103.3 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 40.509 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.017 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 70 Resp: 166799

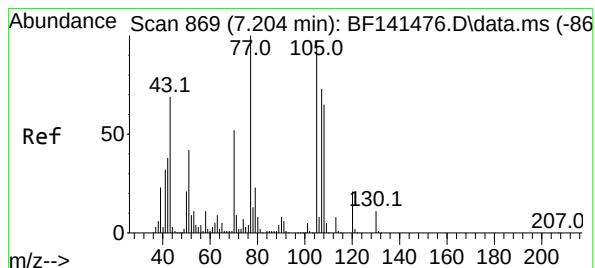
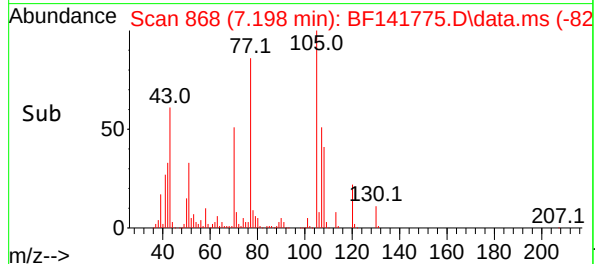
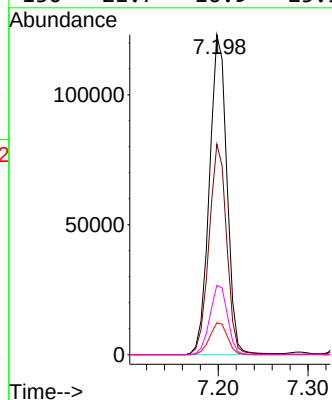
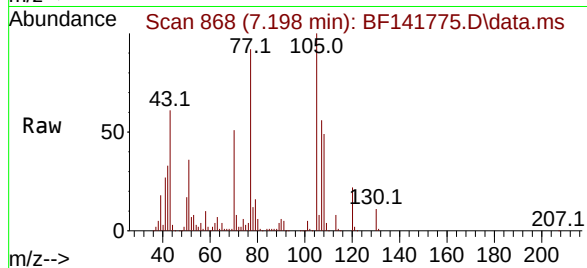
Ion Ratio Lower Upper

70 100

42 65.8 57.4 86.2

101 10.0 8.0 12.0

130 21.7 16.9 25.3



#20

3+4-Methylphenols

Concen: 41.793 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Tgt Ion:107 Resp: 244599

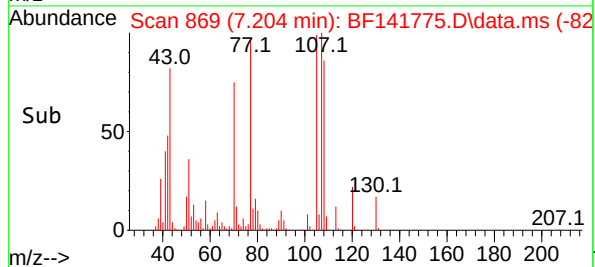
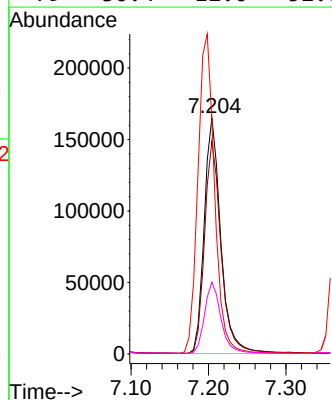
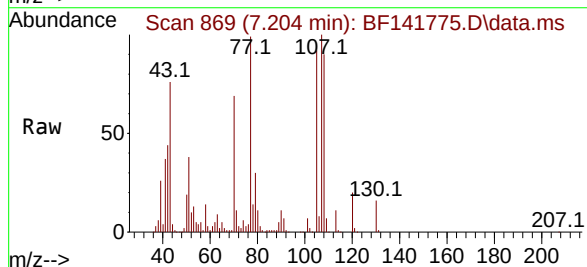
Ion Ratio Lower Upper

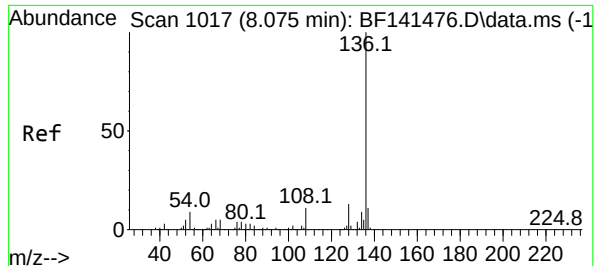
107 100

108 90.2 68.5 108.5

77 98.8 116.5 156.5#

79 30.4 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:136 Resp: 345346

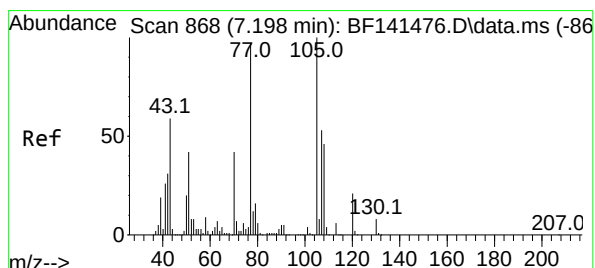
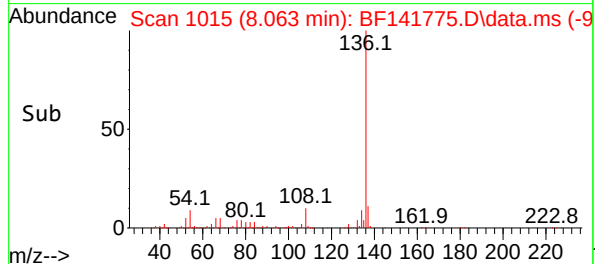
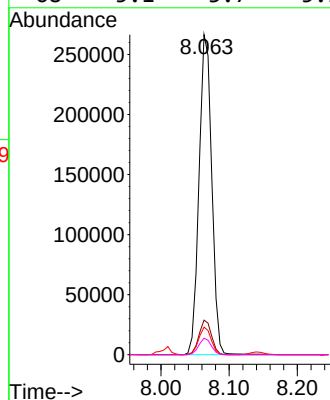
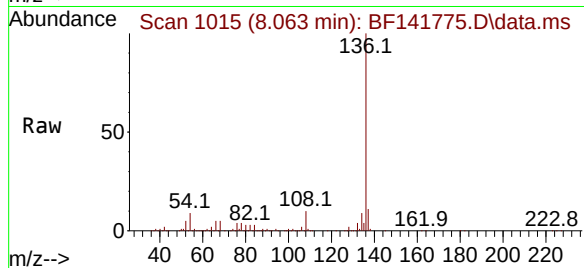
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 8.6 7.2 10.8

68 5.1 3.7 5.5



#22

Acetophenone

Concen: 40.120 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.017 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Tgt Ion:105 Resp: 344659

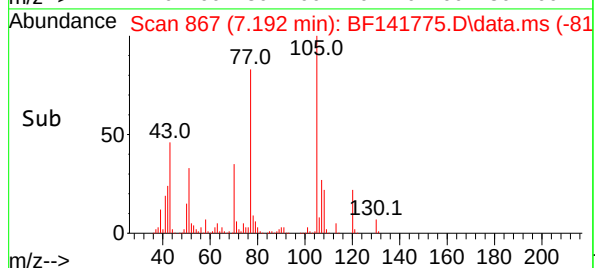
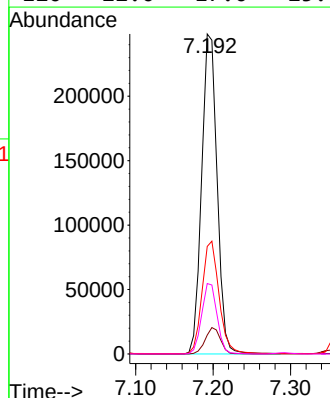
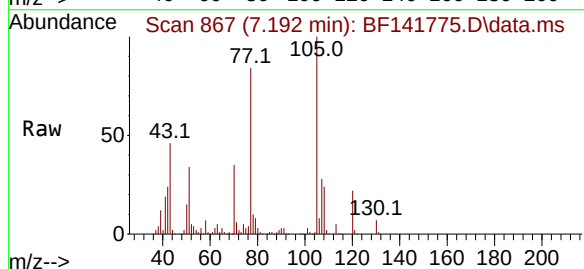
Ion Ratio Lower Upper

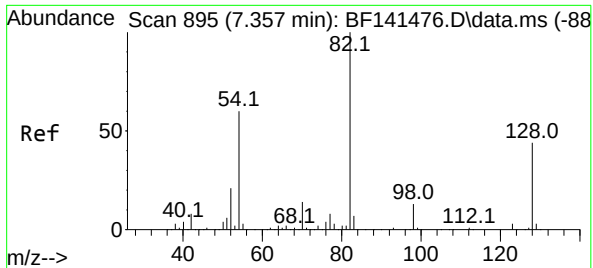
105 100

71 5.9 5.7 8.5

51 33.6 33.7 50.5#

120 22.0 17.0 25.6





#23

Nitrobenzene-d5

Concen: 78.277 ng

RT: 7.351 min Scan# 895

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

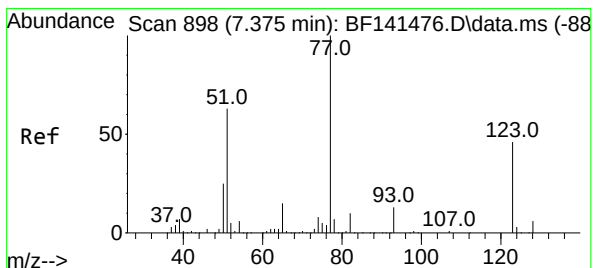
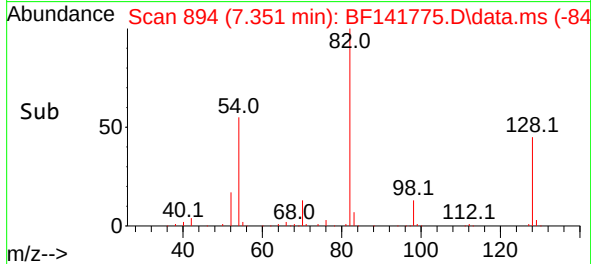
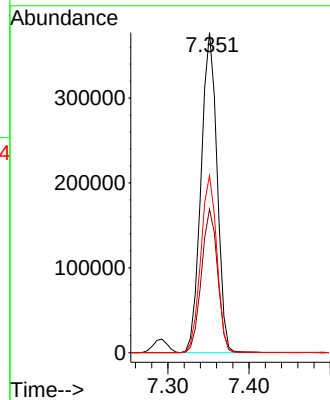
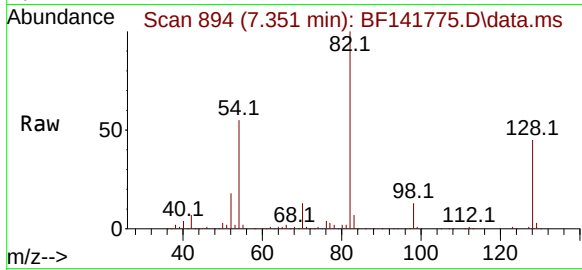
Tgt Ion: 82 Resp: 518282

Ion Ratio Lower Upper

82 100

128 44.9 34.8 52.2

54 55.4 48.2 72.4



#24

Nitrobenzene

Concen: 38.612 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

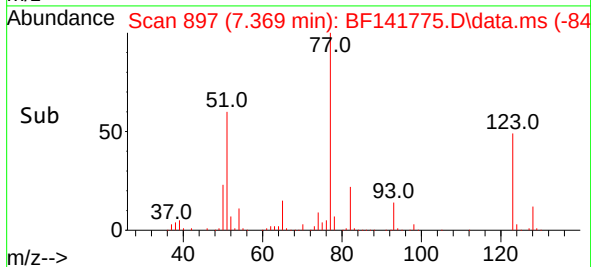
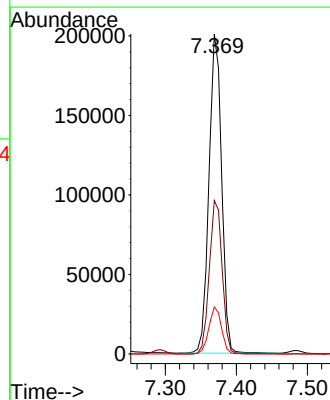
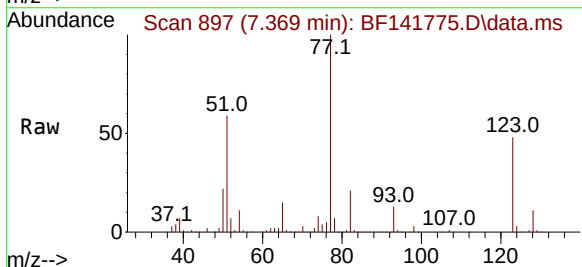
Tgt Ion: 77 Resp: 249297

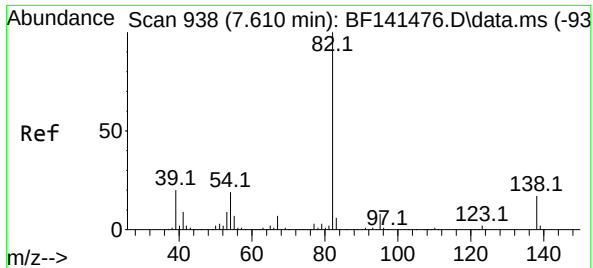
Ion Ratio Lower Upper

77 100

123 48.0 36.9 55.3

65 14.7 11.9 17.9

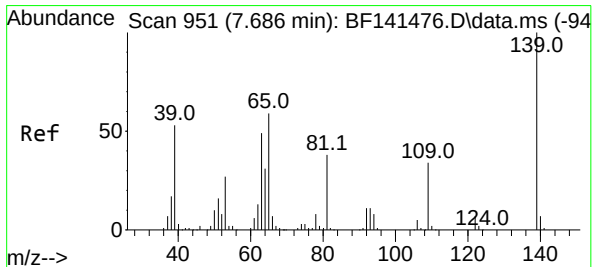
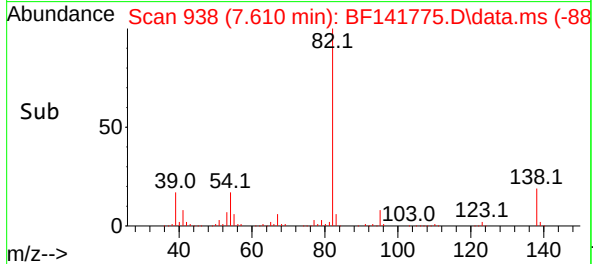
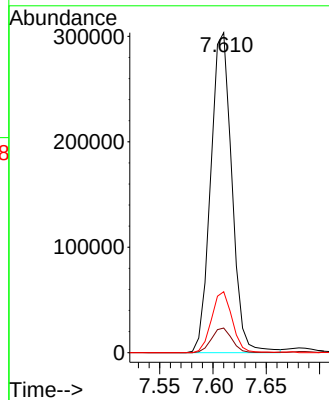
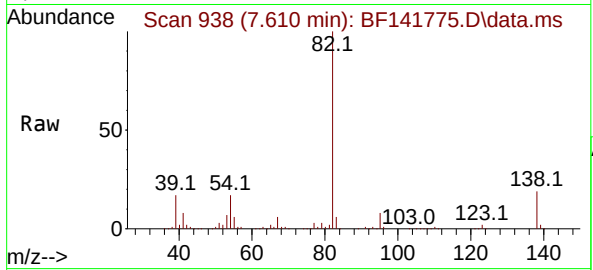




#25
Isophorone
Concen: 39.692 ng
RT: 7.610 min Scan# 910
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

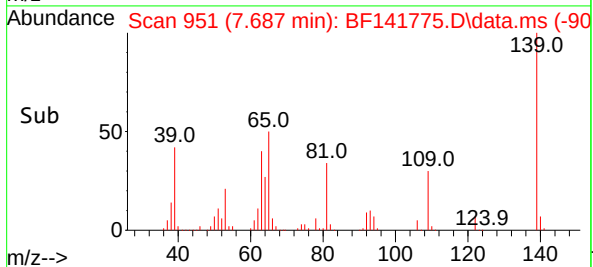
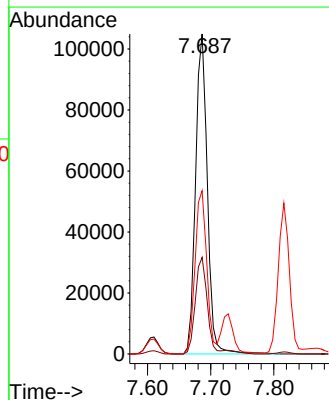
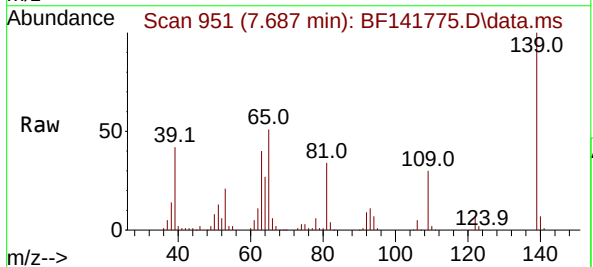
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

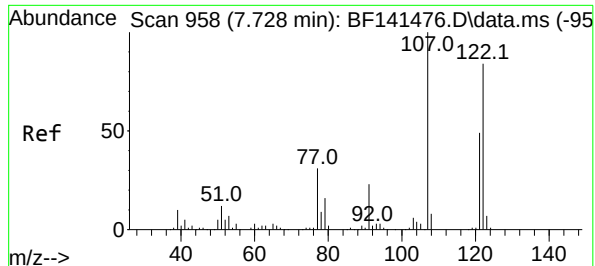
Tgt Ion: 82 Resp: 419034
Ion Ratio Lower Upper
82 100
95 7.7 6.4 9.6
138 19.1 13.9 20.9



#26
2-Nitrophenol
Concen: 42.247 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:139 Resp: 135704
Ion Ratio Lower Upper
139 100
109 30.2 27.0 40.6
65 51.0 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 40.708 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

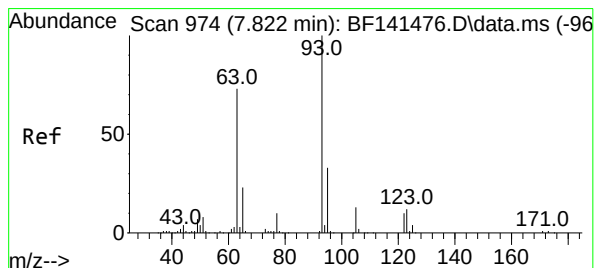
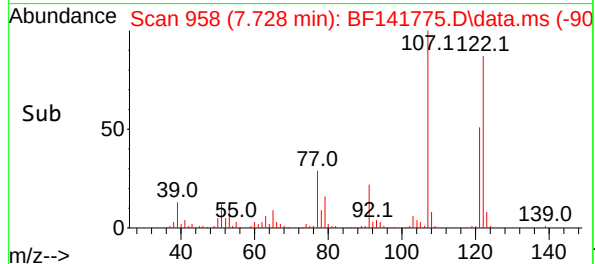
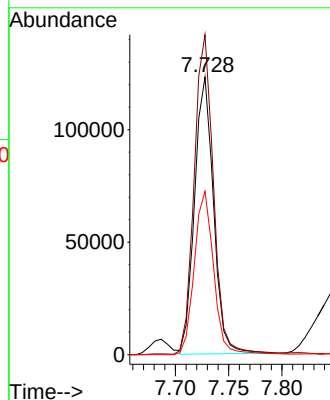
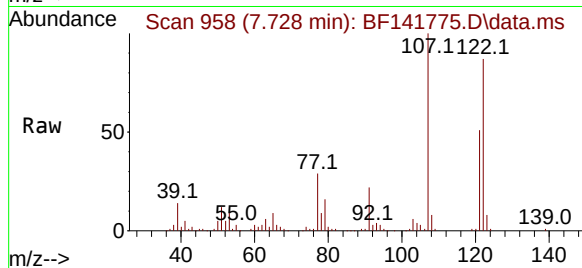
Tgt Ion:122 Resp: 152758

Ion Ratio Lower Upper

122 100

107 115.3 94.3 141.5

121 58.8 46.0 69.0



#28

bis(2-Chloroethoxy)methane

Concen: 41.204 ng

RT: 7.816 min Scan# 973

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

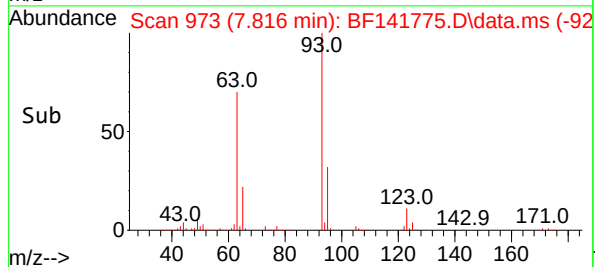
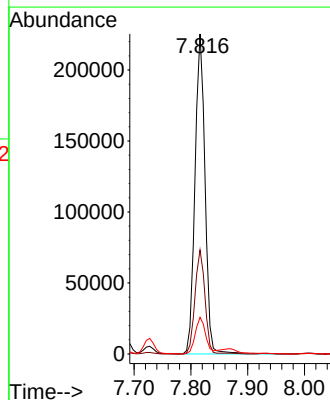
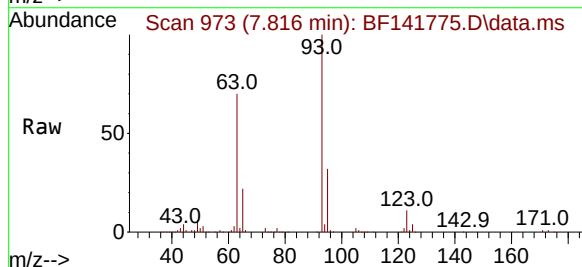
Tgt Ion: 93 Resp: 278738

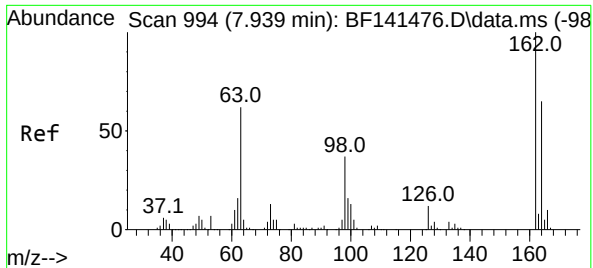
Ion Ratio Lower Upper

93 100

95 32.5 26.1 39.1

123 11.5 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 41.335 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

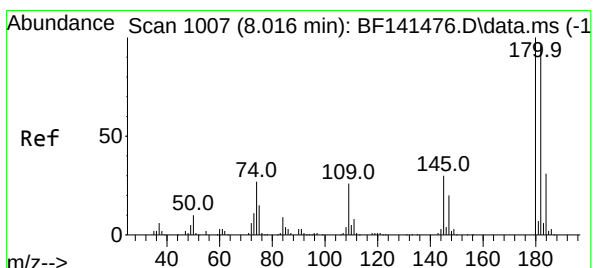
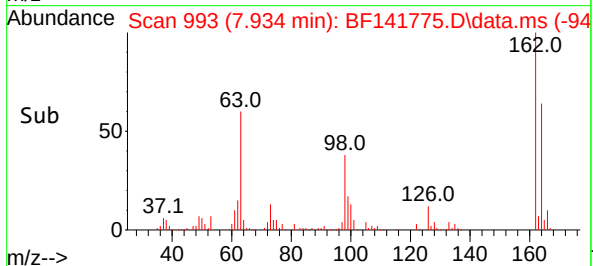
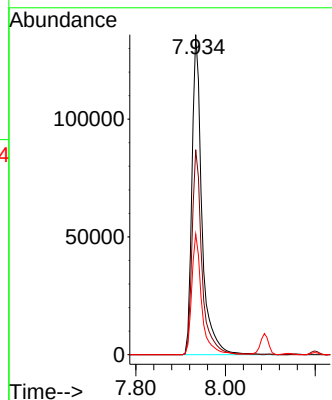
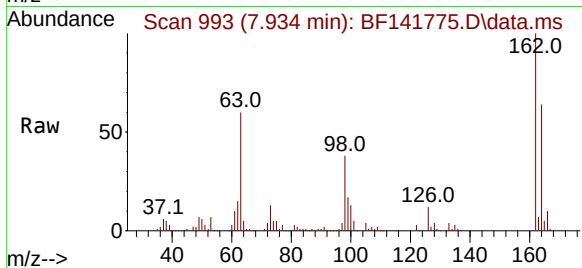
Tgt Ion:162 Resp: 209577

Ion Ratio Lower Upper

162 100

164 64.0 44.6 84.6

98 37.7 17.2 57.2



#30

1,2,4-Trichlorobenzene

Concen: 40.821 ng

RT: 8.010 min Scan# 1006

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

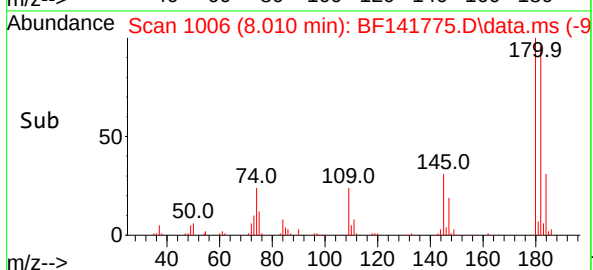
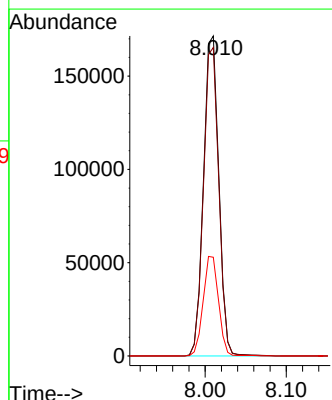
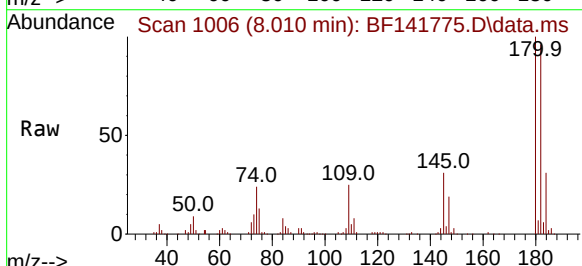
Tgt Ion:180 Resp: 225383

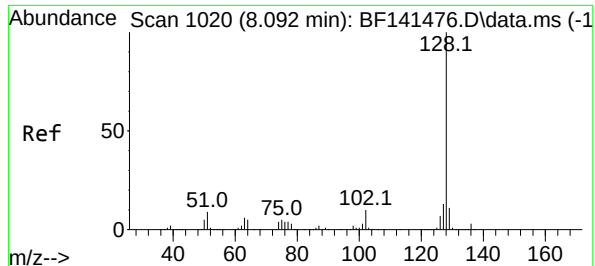
Ion Ratio Lower Upper

180 100

182 96.4 76.8 115.2

145 30.8 24.2 36.4





#31

Naphthalene

Concen: 40.355 ng

RT: 8.087 min Scan# 10

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

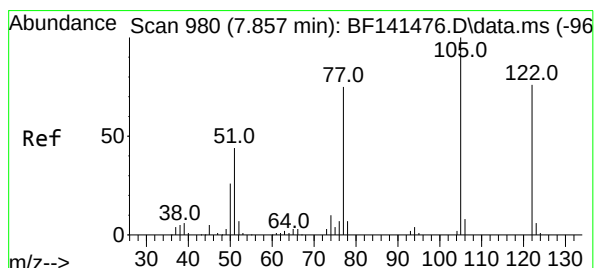
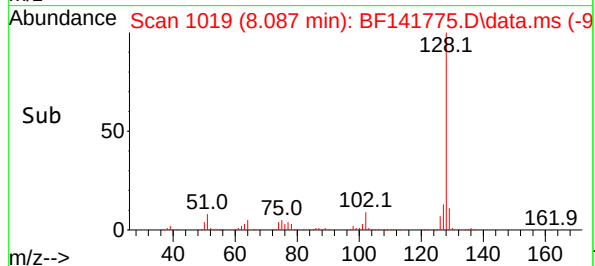
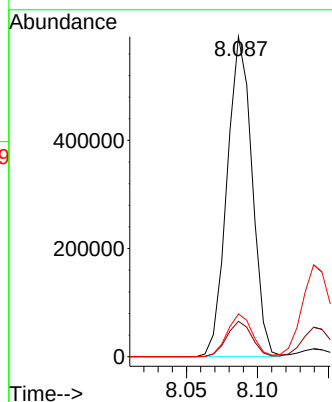
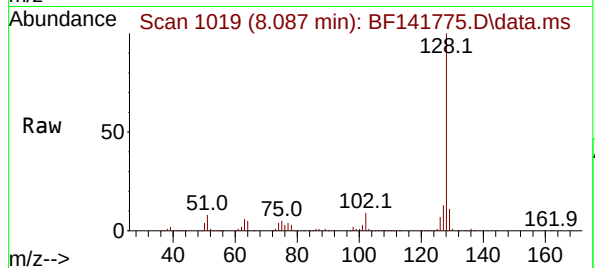
Tgt Ion:128 Resp: 725441

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.4 10.7 16.1



#32

Benzoic acid

Concen: 33.261 ng

RT: 7.869 min Scan# 982

Delta R.T. -0.023 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

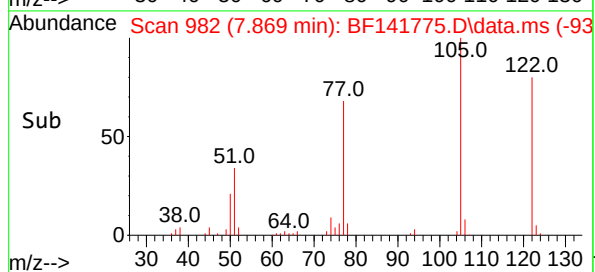
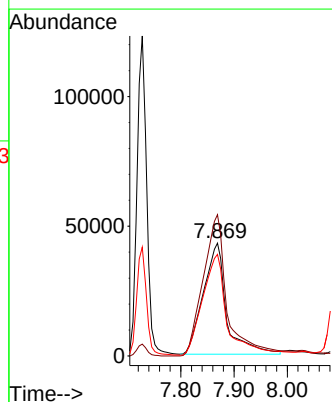
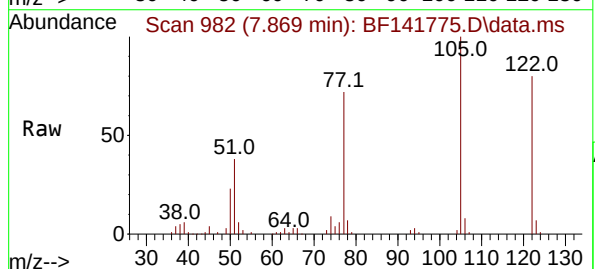
Tgt Ion:122 Resp: 129646

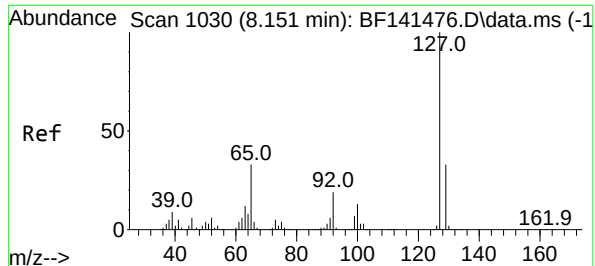
Ion Ratio Lower Upper

122 100

105 125.2 106.5 146.5

77 90.1 76.3 116.3





#33

4-Chloroaniline

Concen: 41.953 ng

RT: 8.139 min Scan# 1030

Delta R.T. -0.017 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:127 Resp: 263309

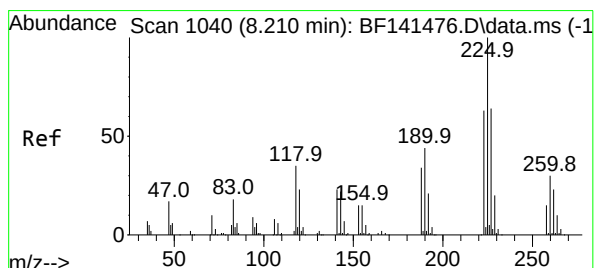
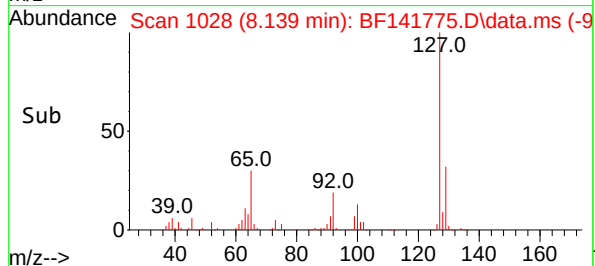
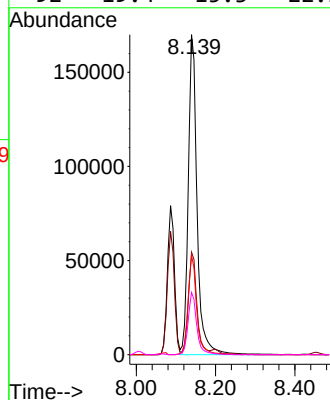
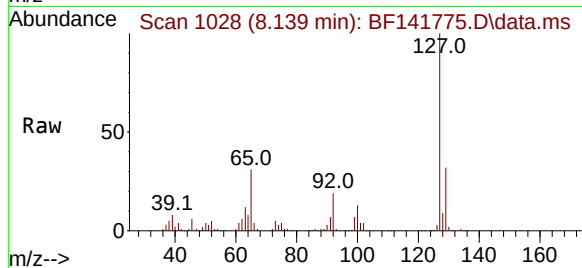
Ion Ratio Lower Upper

127 100

129 32.0 26.5 39.7

65 31.1 26.4 39.6

92 19.4 15.3 22.9



#34

Hexachlorobutadiene

Concen: 40.899 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

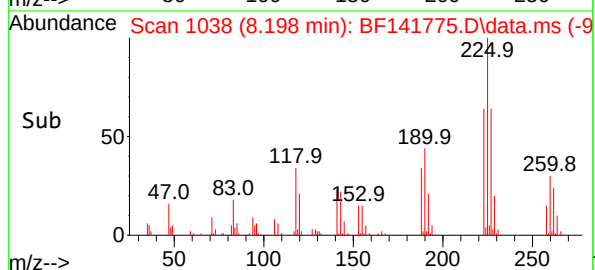
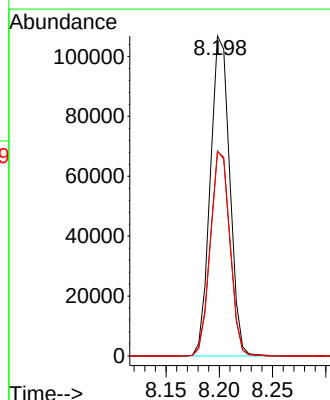
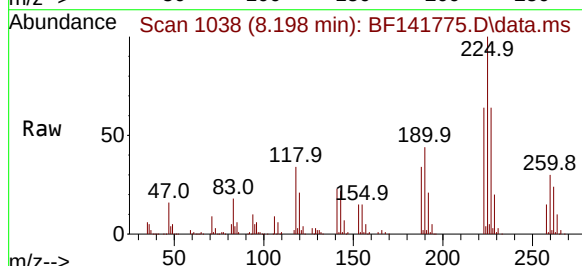
Tgt Ion:225 Resp: 135565

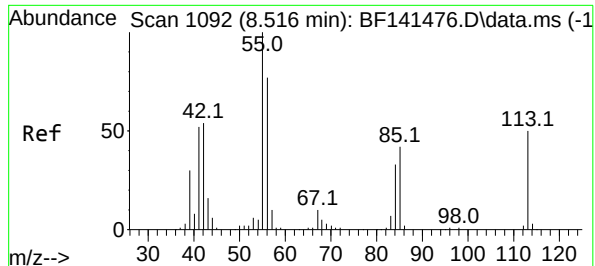
Ion Ratio Lower Upper

225 100

223 64.0 50.1 75.1

227 63.8 51.0 76.6





#35

Caprolactam

Concen: 40.218 ng

RT: 8.516 min Scan# 1109

Delta R.T. -0.029 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

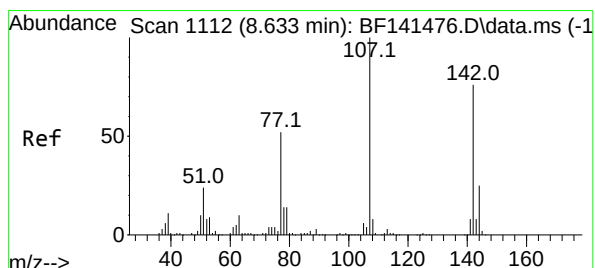
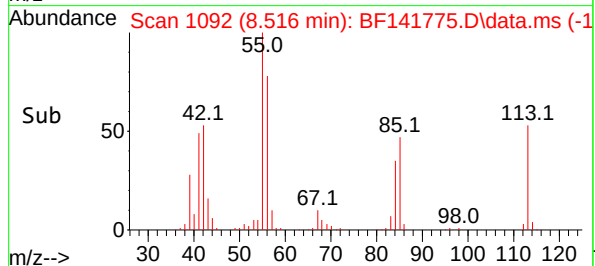
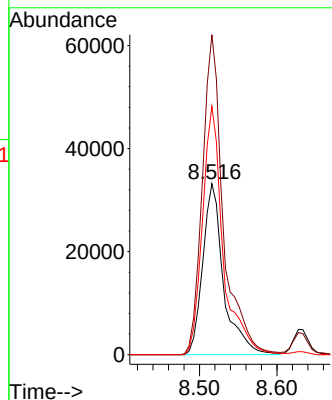
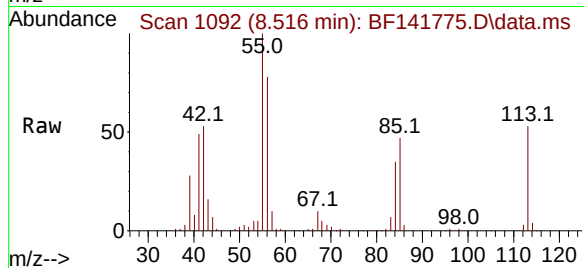
Tgt Ion:113 Resp: 62085

Ion Ratio Lower Upper

113 100

55 187.0 180.8 220.8

56 145.0 133.6 173.6



#36

4-Chloro-3-methylphenol

Concen: 40.227 ng

RT: 8.628 min Scan# 1111

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

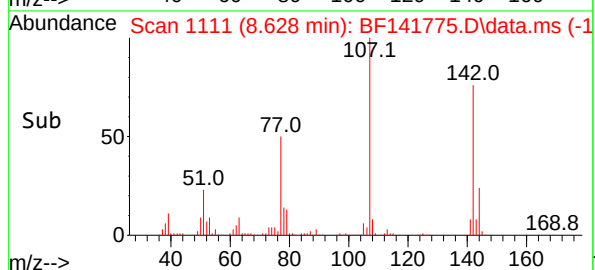
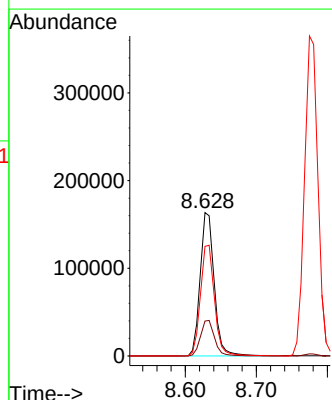
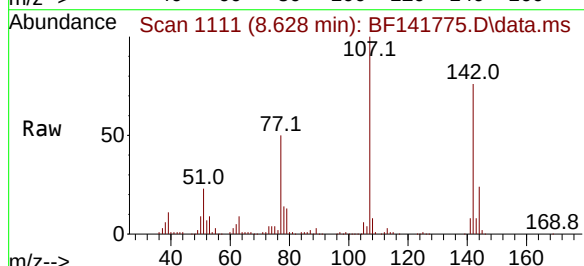
Tgt Ion:107 Resp: 225929

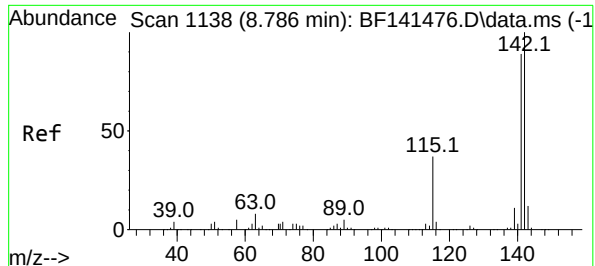
Ion Ratio Lower Upper

107 100

144 24.3 19.7 29.5

142 76.4 60.8 91.2





#37

2-Methylnaphthalene

Concen: 40.882 ng

RT: 8.775 min Scan# 1136

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

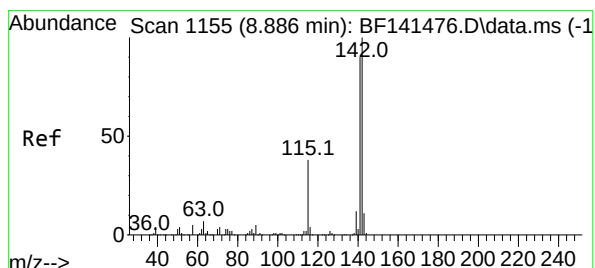
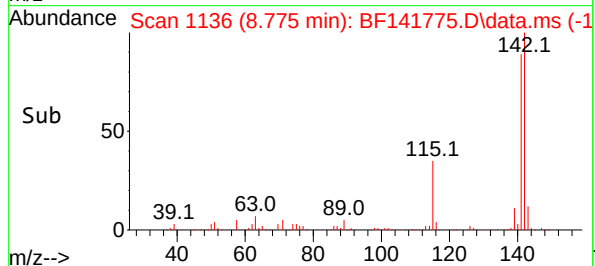
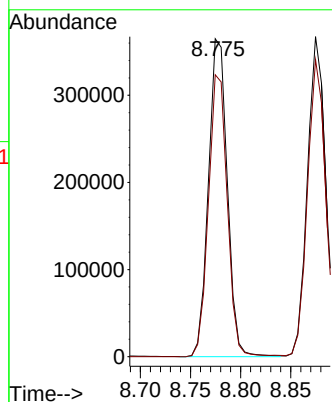
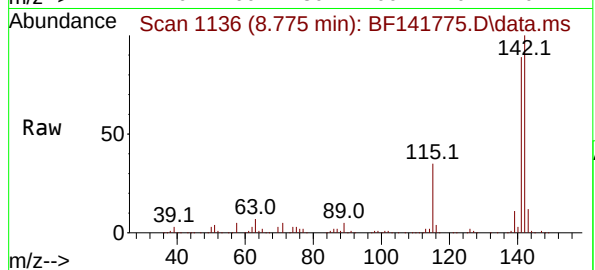
SSTDCCC040

Tgt Ion:142 Resp: 478235

Ion Ratio Lower Upper

142 100

141 88.7 71.2 106.8



#38

1-Methylnaphthalene

Concen: 40.333 ng

RT: 8.875 min Scan# 1153

Delta R.T. -0.012 min

Lab File: BF141775.D

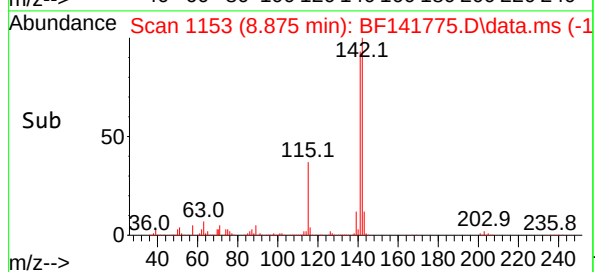
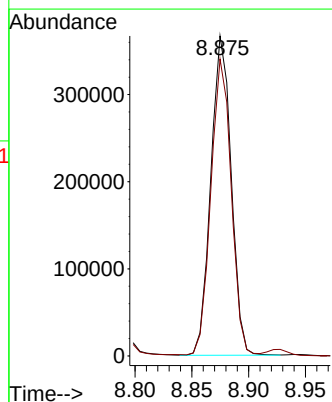
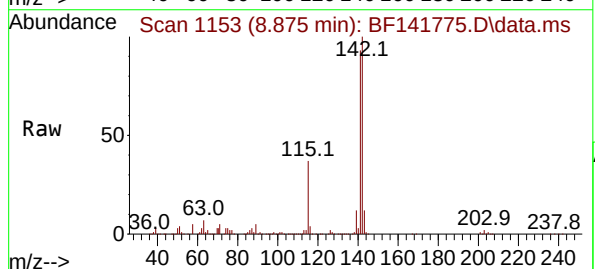
Acq: 26 Feb 2025 10:45

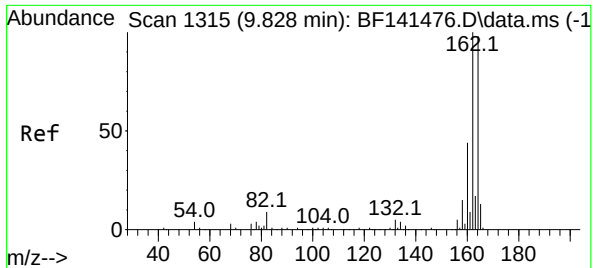
Tgt Ion:142 Resp: 456969

Ion Ratio Lower Upper

142 100

141 92.8 72.1 108.1

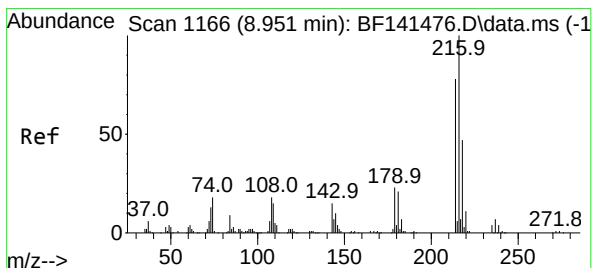
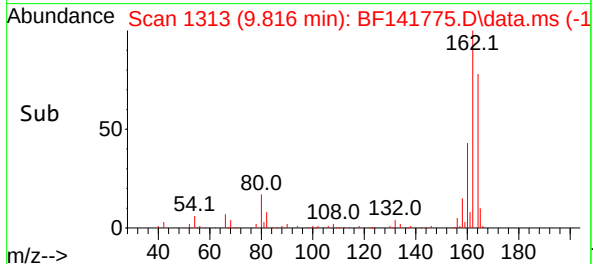
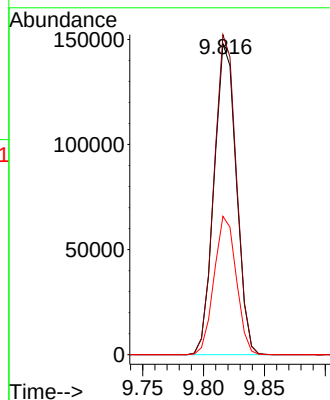
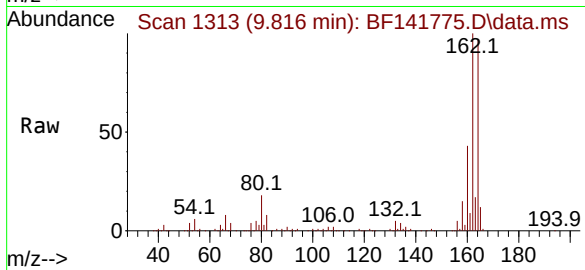




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.816 min Scan# 111
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

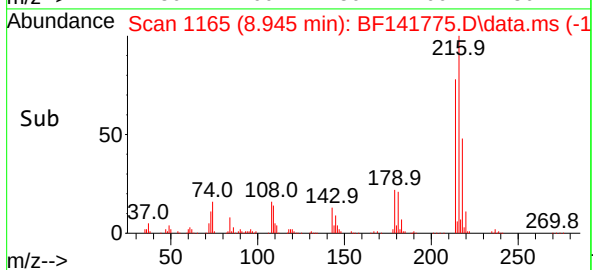
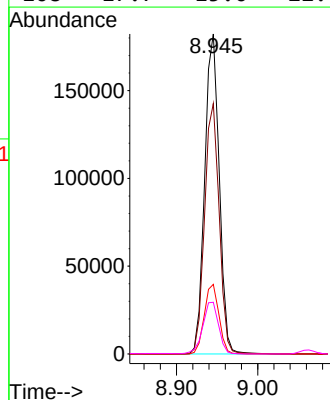
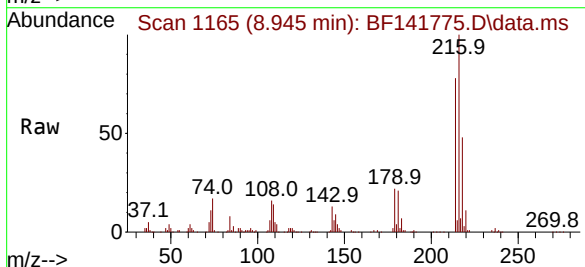
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

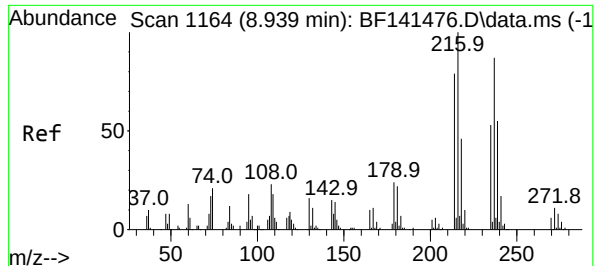
Tgt Ion:164 Resp: 188350
Ion Ratio Lower Upper
164 100
162 102.9 81.3 121.9
160 44.5 35.9 53.9



#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.503 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:216 Resp: 226158
Ion Ratio Lower Upper
216 100
214 78.6 62.3 93.5
179 21.9 18.0 27.0
108 17.7 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 38.631 ng

RT: 8.928 min Scan# 1162

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

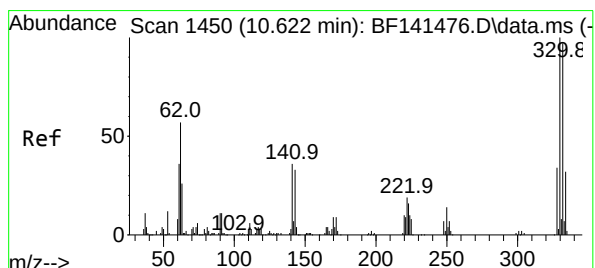
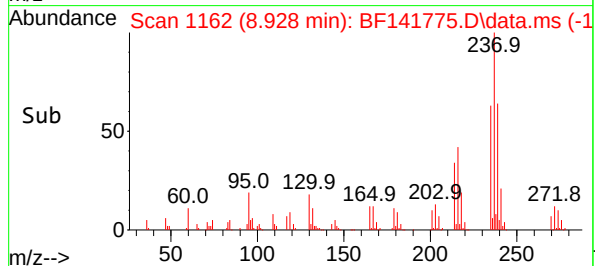
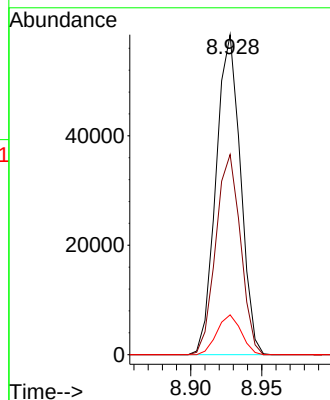
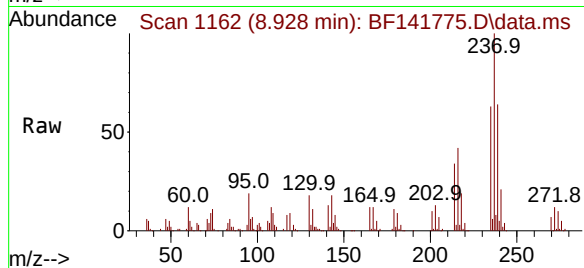
Tgt Ion:237 Resp: 70017

Ion Ratio Lower Upper

237 100

235 62.5 41.4 81.4

272 12.4 0.0 32.4



#42

2,4,6-Tribromophenol

Concen: 81.472 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.017 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

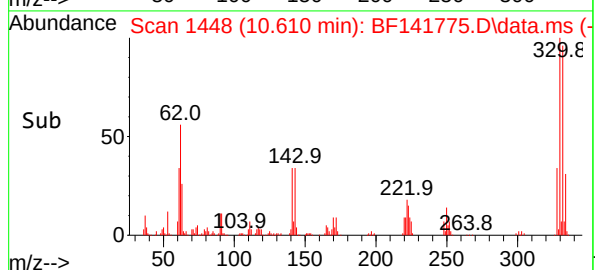
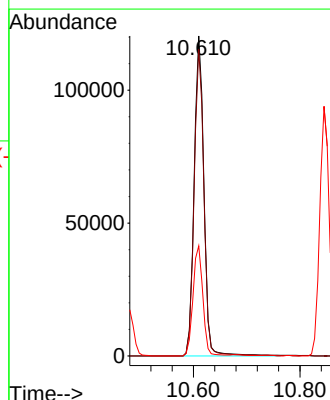
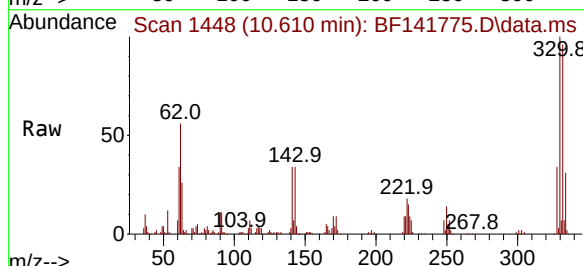
Tgt Ion:330 Resp: 154150

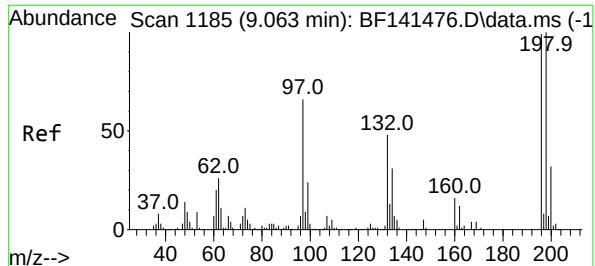
Ion Ratio Lower Upper

330 100

332 95.9 78.5 117.7

141 34.5 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 40.392 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

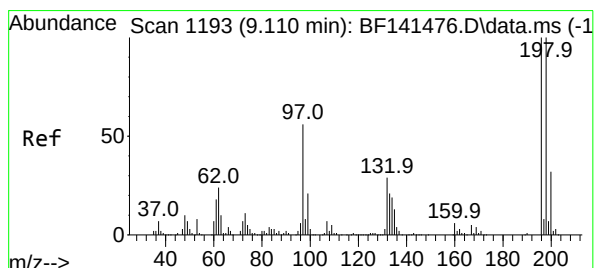
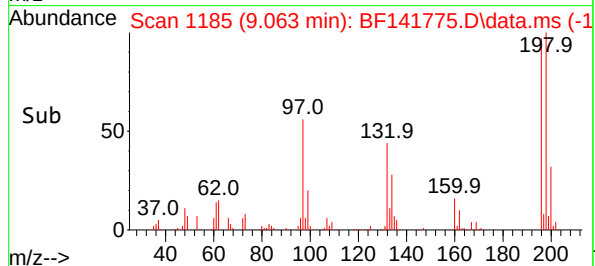
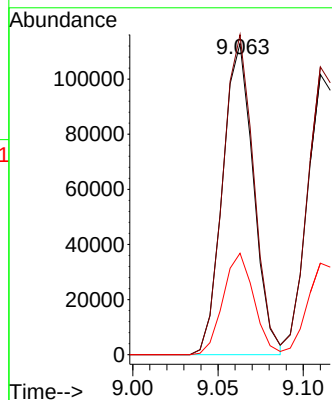
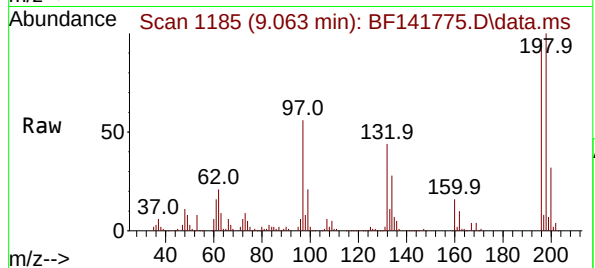
Tgt Ion:196 Resp: 142256

Ion Ratio Lower Upper

196 100

198 102.8 80.6 121.0

200 32.6 25.5 38.3



#44

2,4,5-Trichlorophenol

Concen: 39.917 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Tgt Ion:196 Resp: 152360

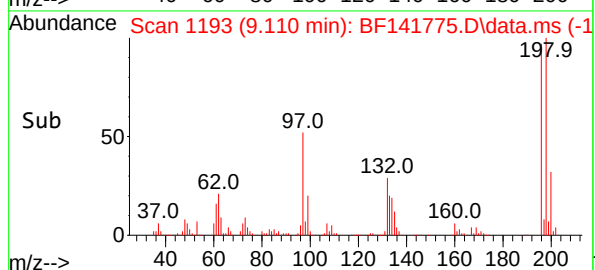
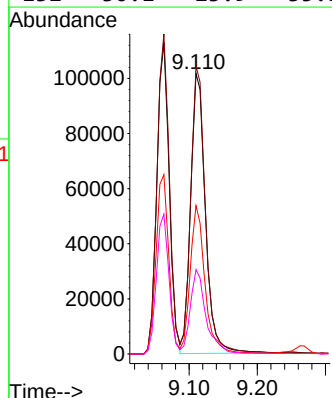
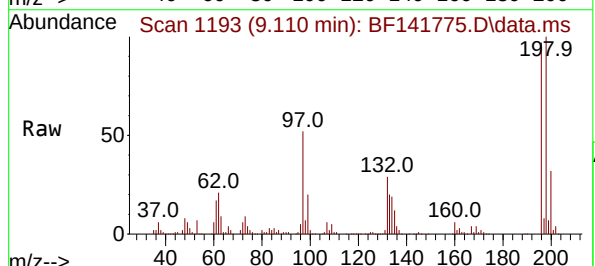
Ion Ratio Lower Upper

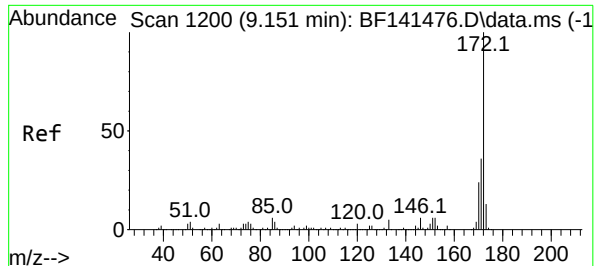
196 100

198 102.7 79.8 119.8

97 52.9 44.8 67.2

132 30.1 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 80.803 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

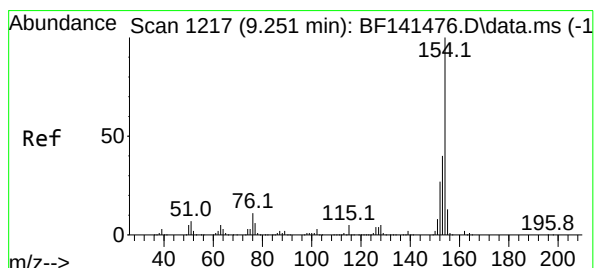
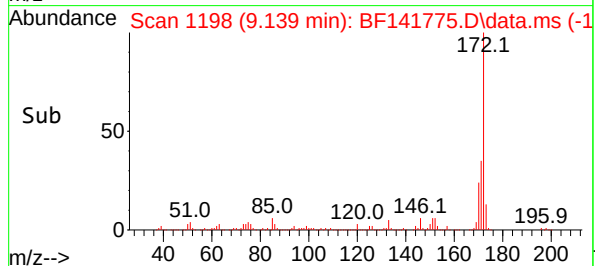
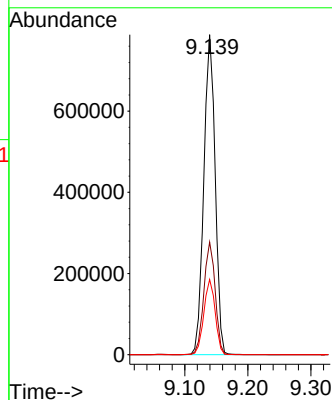
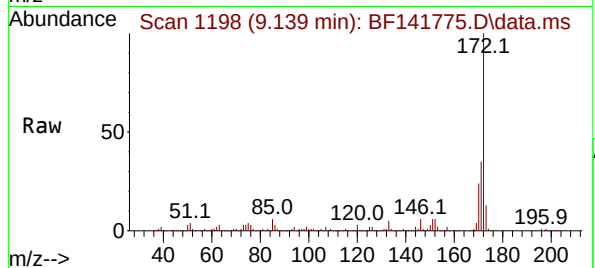
Tgt Ion:172 Resp: 987847

Ion Ratio Lower Upper

172 100

171 35.2 28.7 43.1

170 23.5 18.9 28.3



#46

1,1'-Biphenyl

Concen: 41.065 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

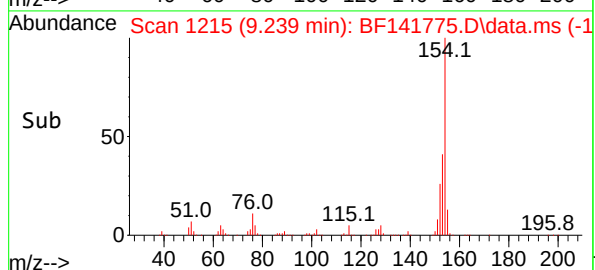
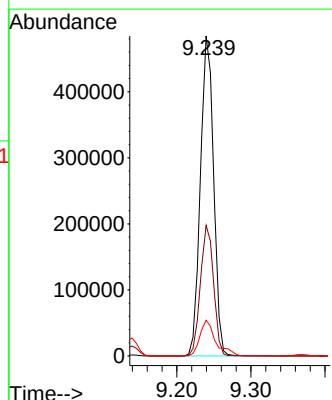
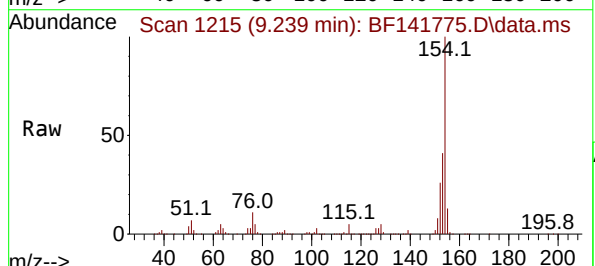
Tgt Ion:154 Resp: 599651

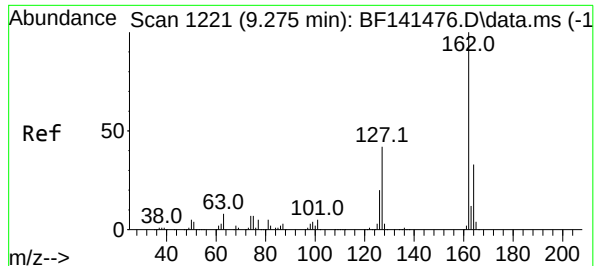
Ion Ratio Lower Upper

154 100

153 40.8 20.4 60.4

76 11.2 0.0 30.8





#47

2-Chloronaphthalene

Concen: 41.132 ng

RT: 9.269 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

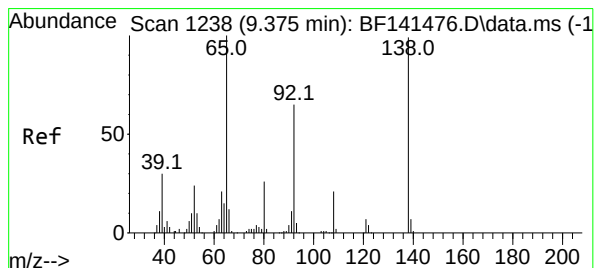
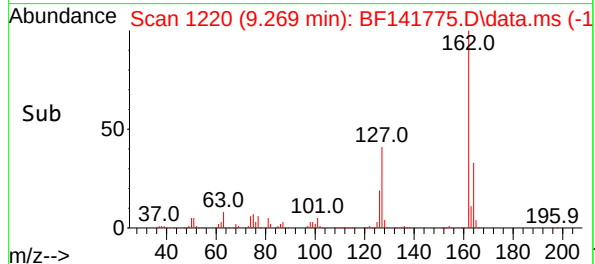
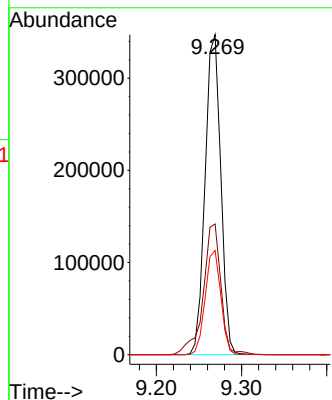
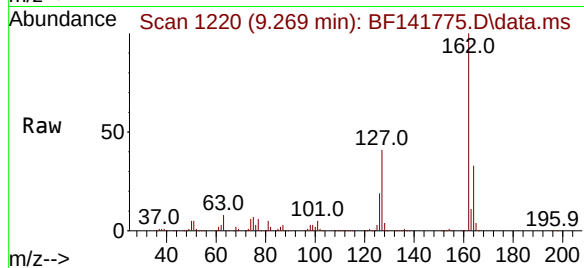
Tgt Ion:162 Resp: 444145

Ion Ratio Lower Upper

162 100

127 40.8 34.1 51.1

164 32.5 26.3 39.5



#48

2-Nitroaniline

Concen: 38.554 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

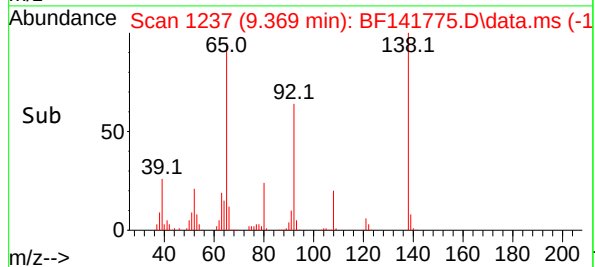
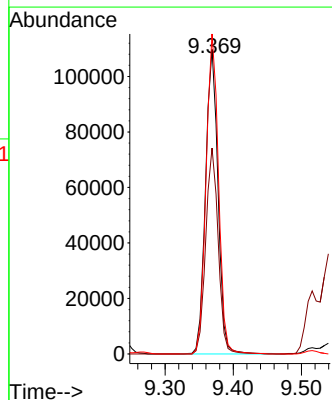
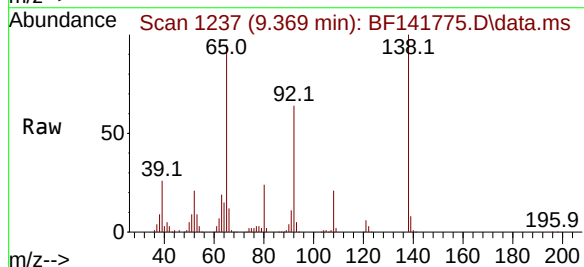
Tgt Ion: 65 Resp: 139713

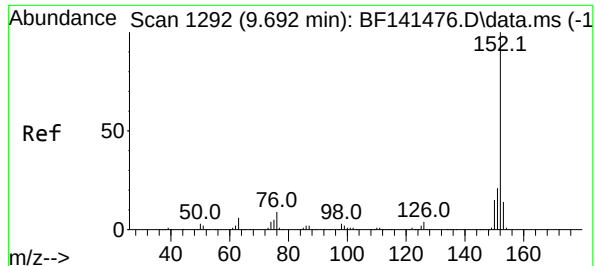
Ion Ratio Lower Upper

65 100

92 67.6 52.2 78.2

138 105.1 79.5 119.3





#49

Acenaphthylene

Concen: 40.243 ng

RT: 9.681 min Scan# 1290

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

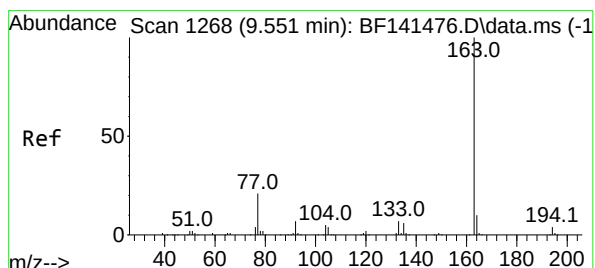
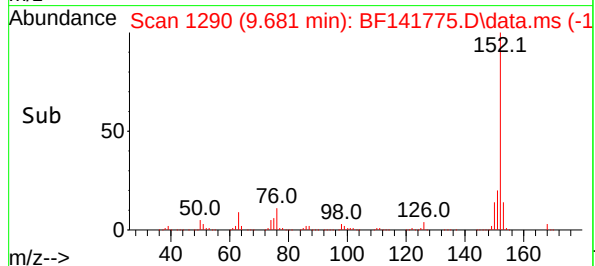
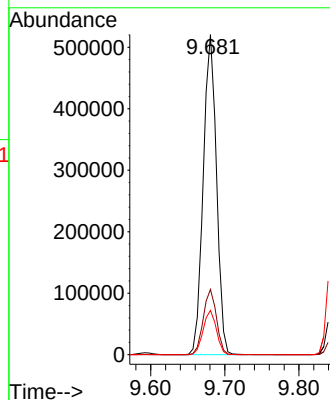
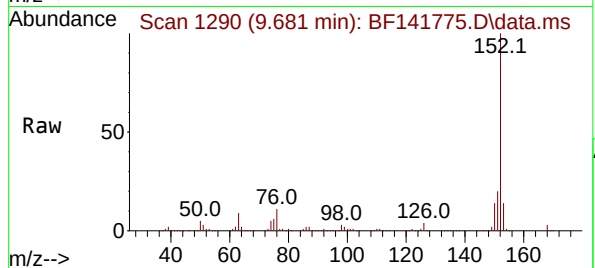
Tgt Ion:152 Resp: 646345

Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

153 13.9 10.9 16.3



#50

Dimethylphthalate

Concen: 41.369 ng

RT: 9.539 min Scan# 1266

Delta R.T. -0.023 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

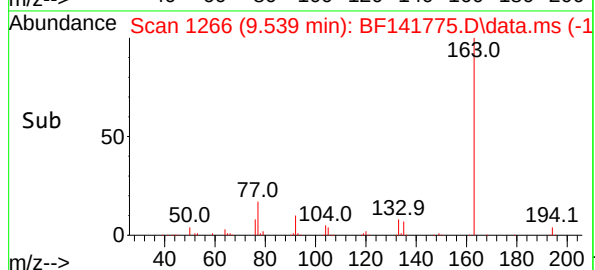
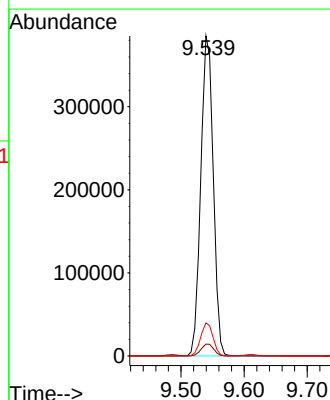
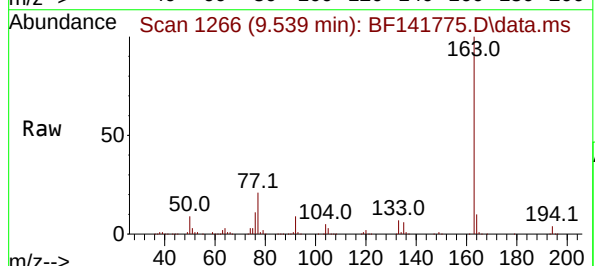
Tgt Ion:163 Resp: 528963

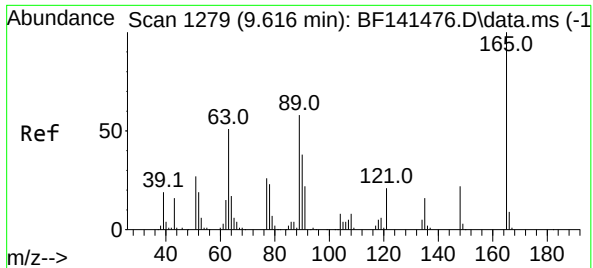
Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

164 10.3 7.9 11.9

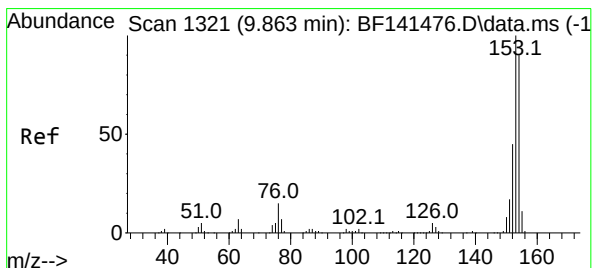
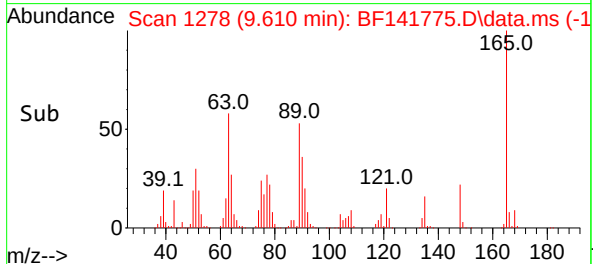
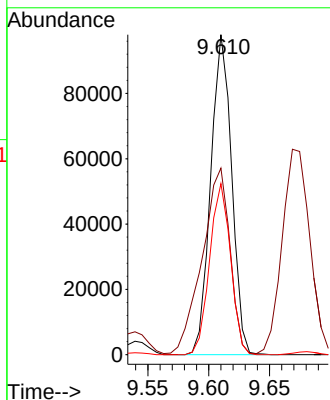
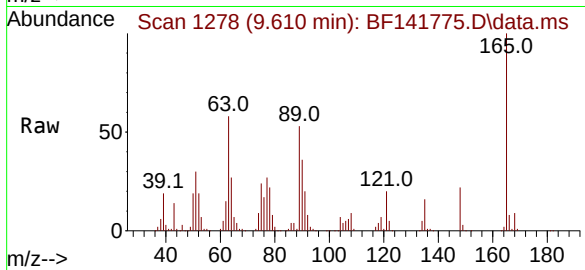




#51
2,6-Dinitrotoluene
Concen: 41.931 ng
RT: 9.610 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

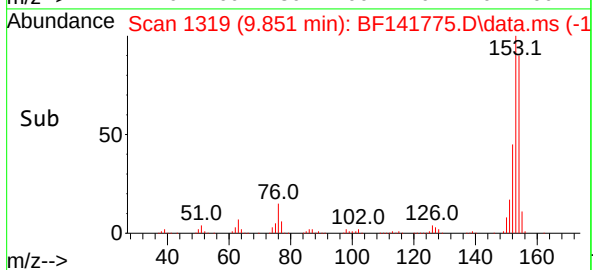
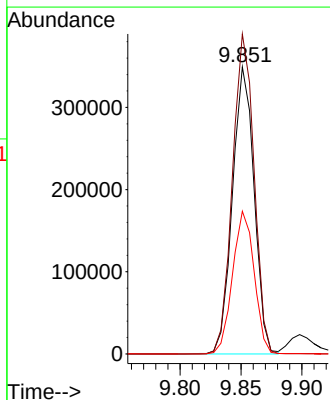
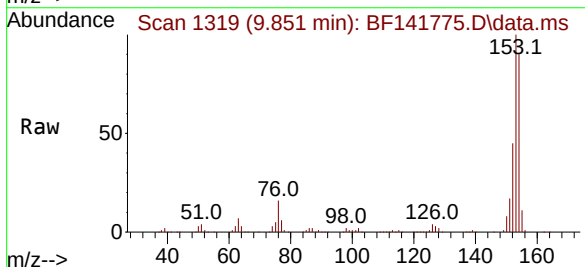
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

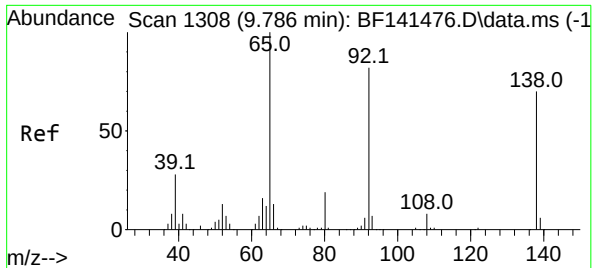
Tgt Ion:165 Resp: 117206
Ion Ratio Lower Upper
165 100
63 58.3 49.4 74.0
89 53.4 46.5 69.7



#52
Acenaphthene
Concen: 40.039 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:154 Resp: 432327
Ion Ratio Lower Upper
154 100
153 111.5 89.2 133.8
152 49.7 39.8 59.8

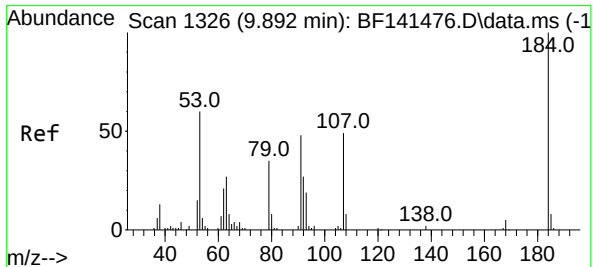
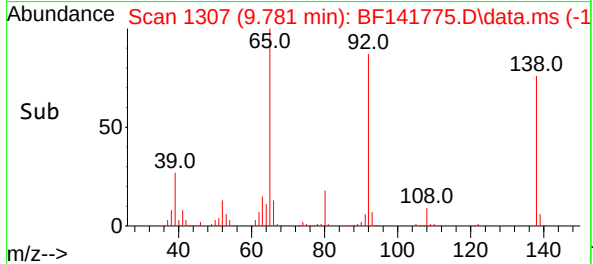
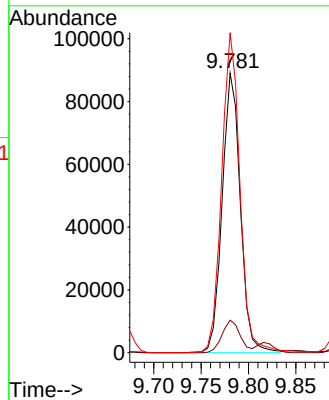
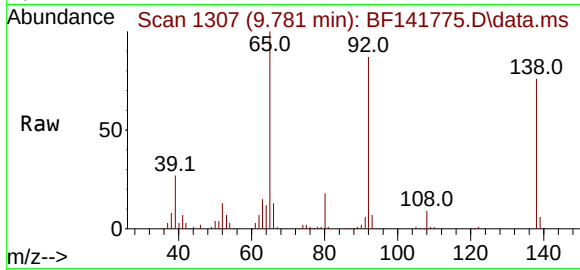




#53
3-Nitroaniline
Concen: 39.520 ng
RT: 9.781 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

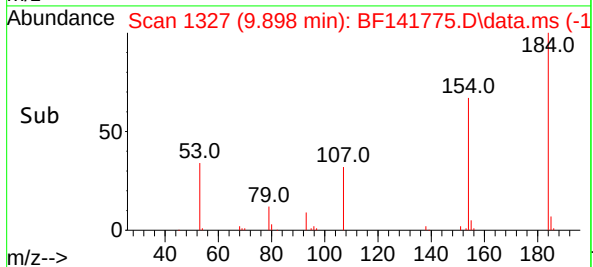
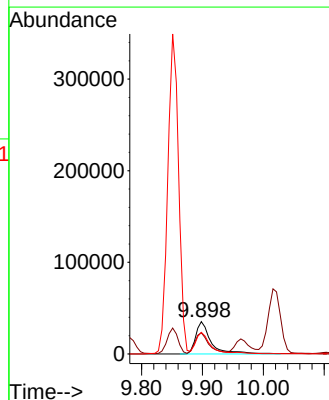
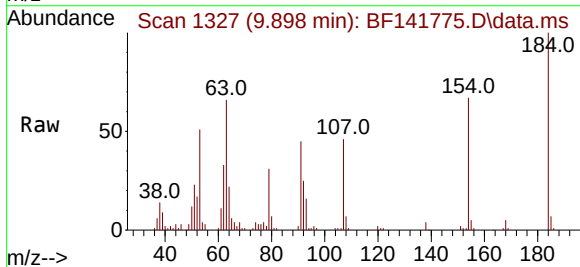
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

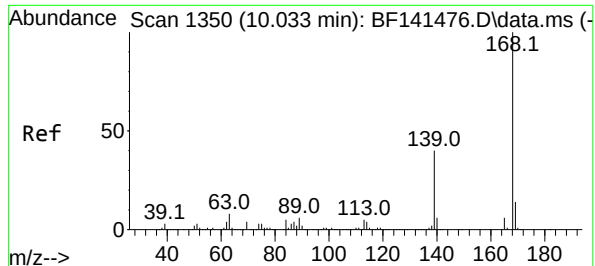
Tgt Ion:138 Resp: 118897
Ion Ratio Lower Upper
138 100
108 11.6 9.0 13.4
92 114.5 93.7 140.5



#54
2,4-Dinitrophenol
Concen: 37.317 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:184 Resp: 61995
Ion Ratio Lower Upper
184 100
63 65.6 61.0 91.6
154 66.7 59.9 89.9





#55

Dibenzenofuran

Concen: 39.995 ng

RT: 10.022 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

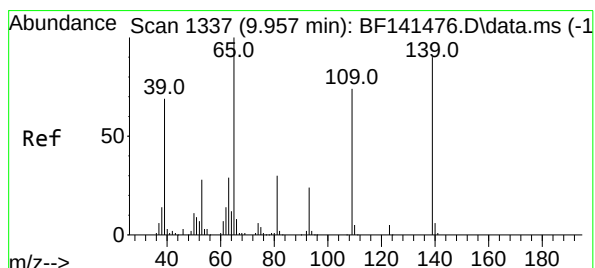
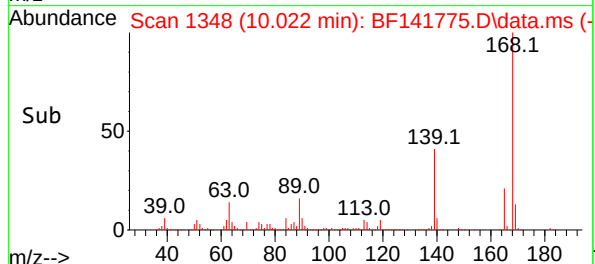
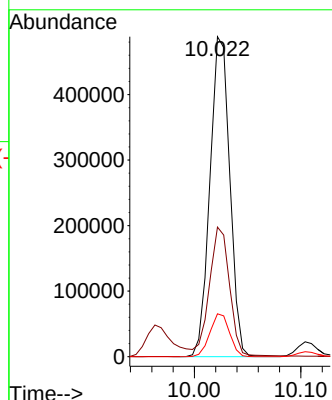
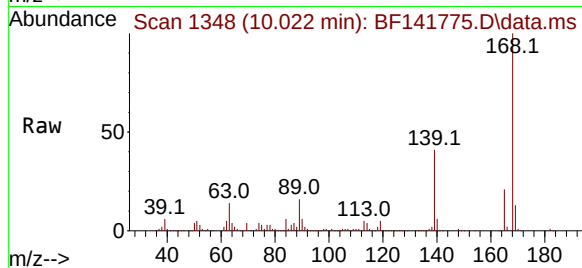
Tgt Ion:168 Resp: 633880

Ion Ratio Lower Upper

168 100

139 40.5 32.7 49.1

169 13.4 10.8 16.2



#56

4-Nitrophenol

Concen: 37.082 ng

RT: 9.963 min Scan# 1338

Delta R.T. -0.006 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

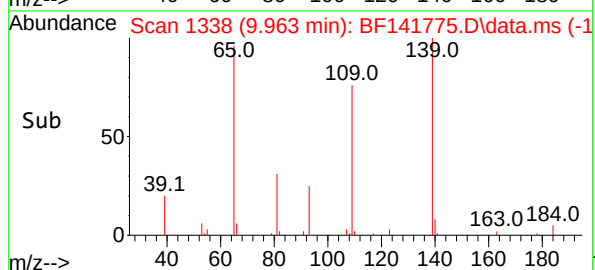
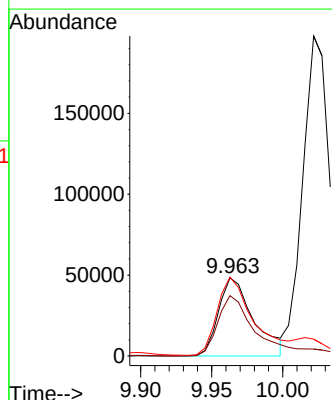
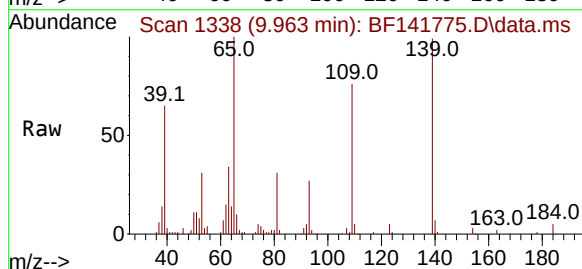
Tgt Ion:139 Resp: 82815

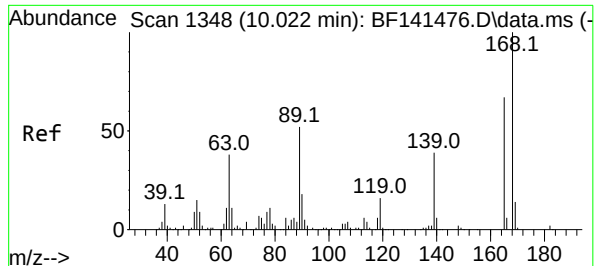
Ion Ratio Lower Upper

139 100

109 77.2 62.0 102.0

65 101.0 91.2 131.2

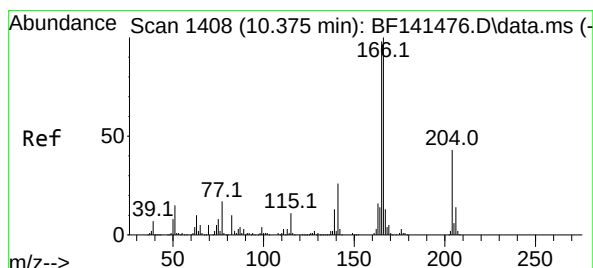
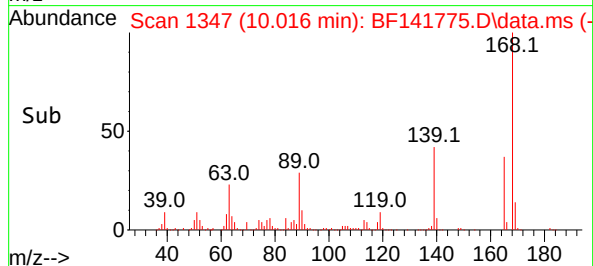
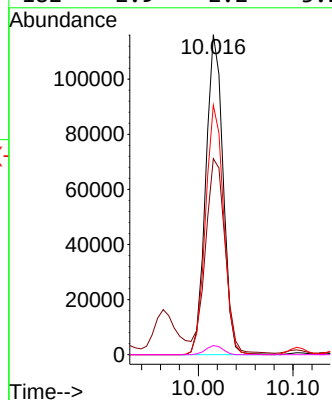
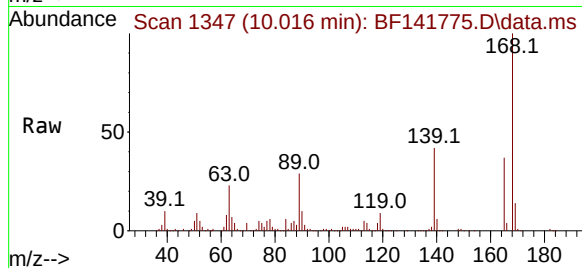




#57
2,4-Dinitrotoluene
Concen: 39.692 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

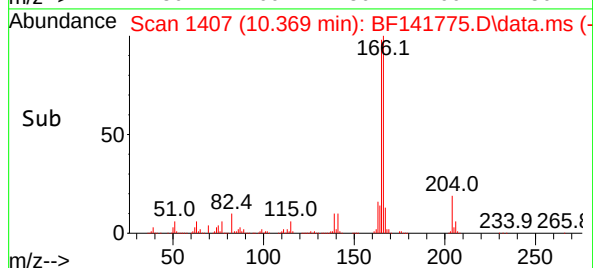
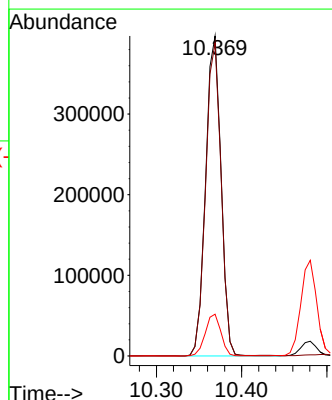
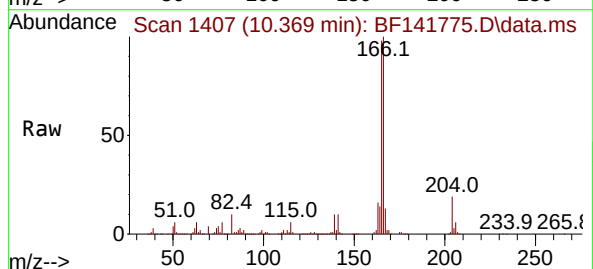
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

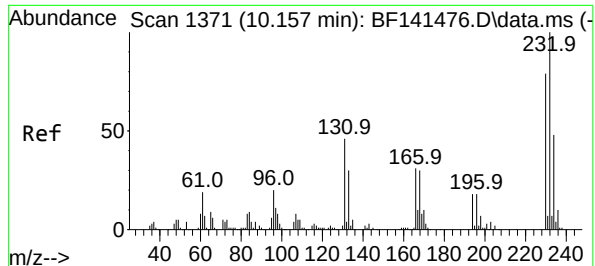
Tgt Ion:165 Resp: 147701
Ion Ratio Lower Upper
165 100
63 61.3 46.4 69.6
89 78.0 61.8 92.6
182 2.9 2.2 3.2



#58
Fluorene
Concen: 40.745 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:166 Resp: 499306
Ion Ratio Lower Upper
166 100
165 97.8 78.2 117.2
167 13.1 10.7 16.1

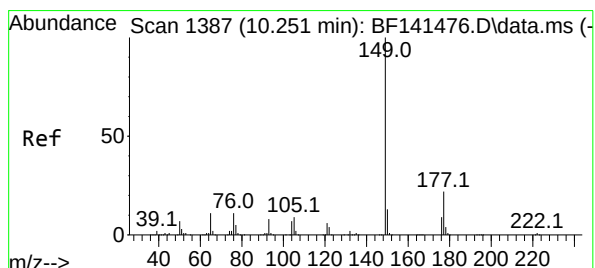
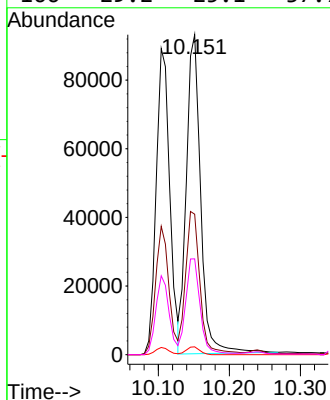
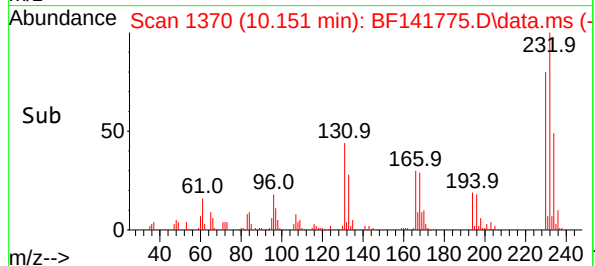
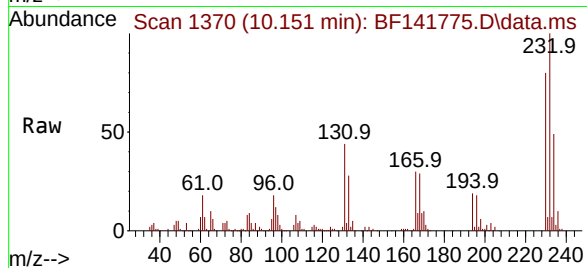




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.503 ng
RT: 10.151 min Scan# 1371
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

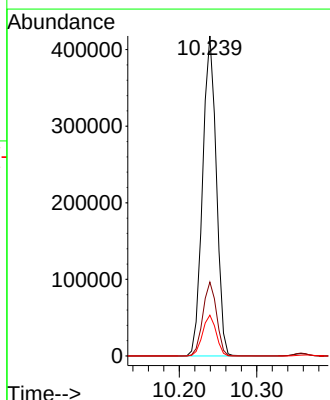
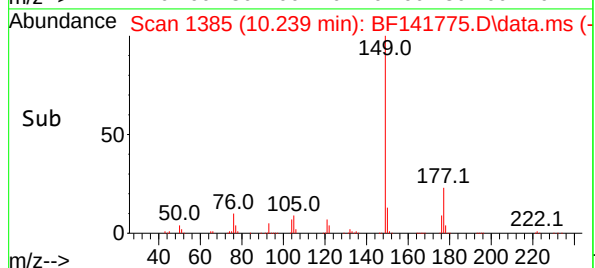
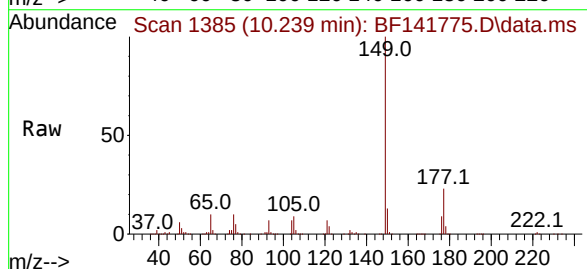
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

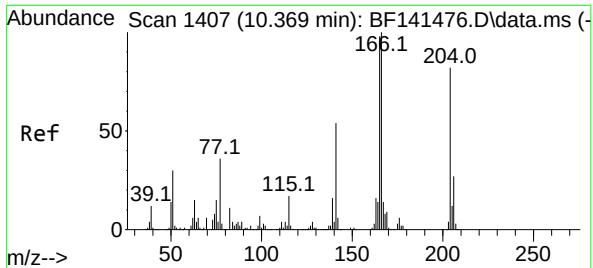
Tgt Ion:232 Resp: 129813
Ion Ratio Lower Upper
232 100
131 45.1 39.2 58.8
130 2.3 2.1 3.1
166 29.2 25.1 37.7



#60
Diethylphthalate
Concen: 40.773 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 512946
Ion Ratio Lower Upper
149 100
177 23.1 17.8 26.6
150 12.8 10.1 15.1

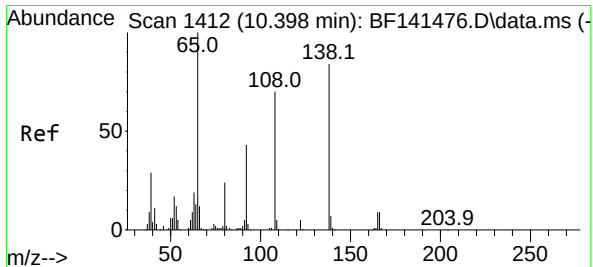
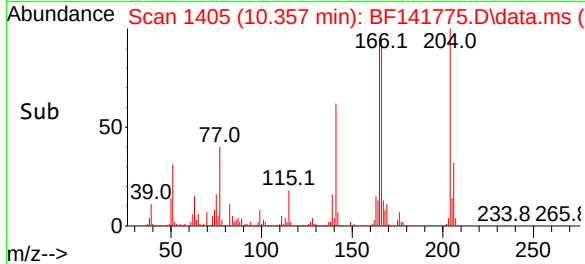
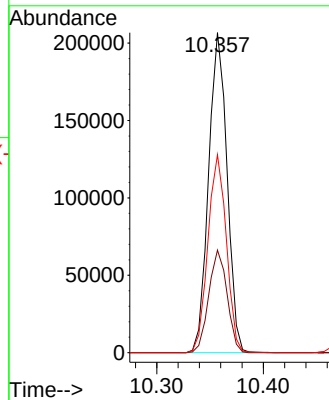
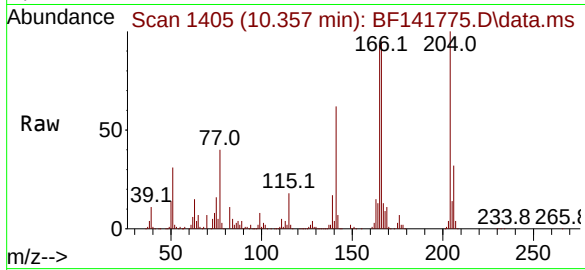




#61
4-Chlorophenyl-phenylether
Concen: 42.168 ng
RT: 10.357 min Scan# 1407
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

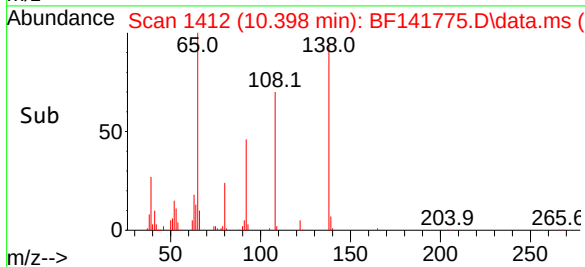
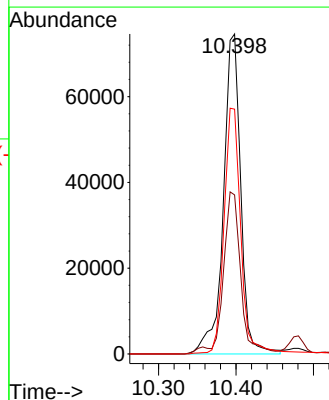
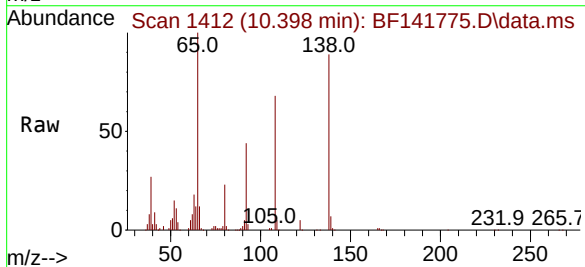
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

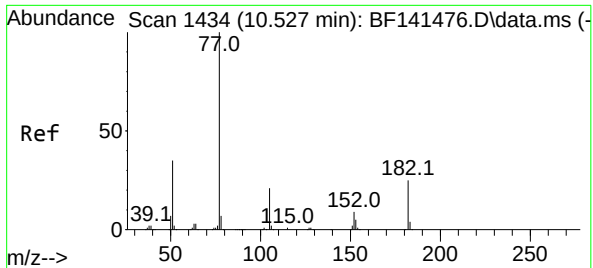
Tgt Ion:204 Resp: 248595
Ion Ratio Lower Upper
204 100
206 32.0 26.6 40.0
141 61.9 51.9 77.9



#62
4-Nitroaniline
Concen: 38.000 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:138 Resp: 116085
Ion Ratio Lower Upper
138 100
92 49.7 31.3 71.3
108 76.5 63.7 103.7

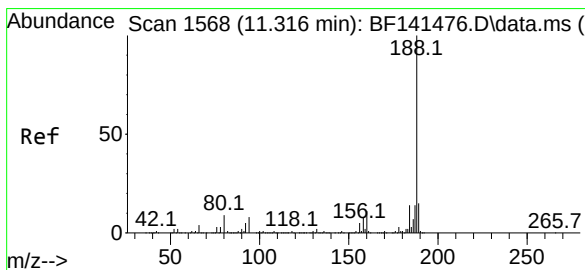
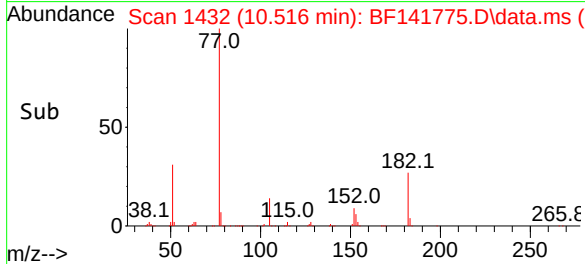
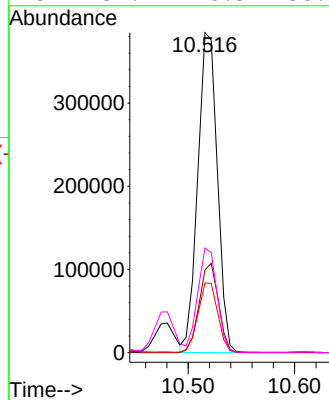
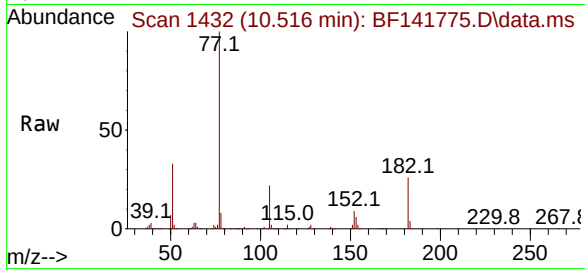




#63
Azobenzene
Concen: 39.399 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

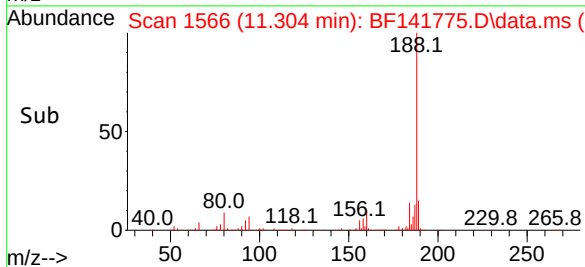
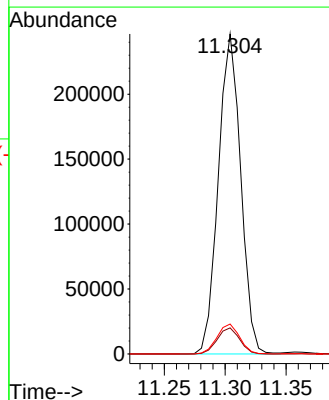
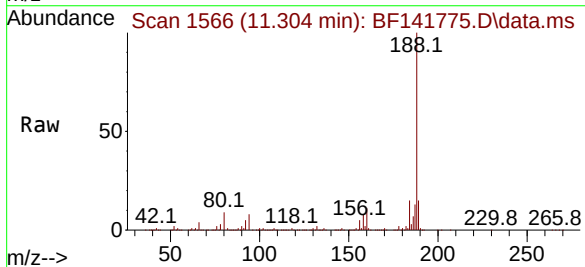
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

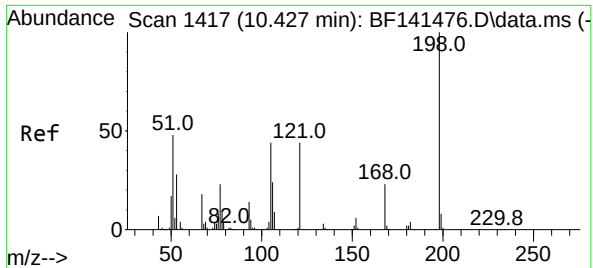
Tgt Ion: 77	Resp: 492750
Ion Ratio	Lower Upper
77 100	
182 25.9	4.7 44.7
105 21.8	0.4 40.4
51 32.7	16.5 56.5



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:188	Resp: 315416
Ion Ratio	Lower Upper
188 100	
94 8.2	6.6 10.0
80 9.4	7.3 10.9

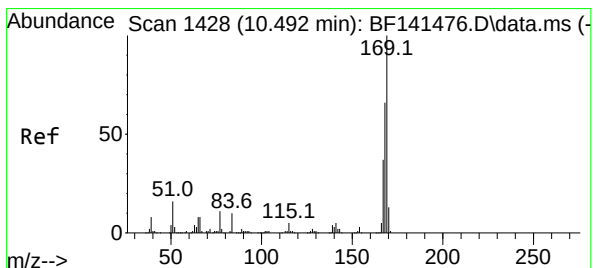
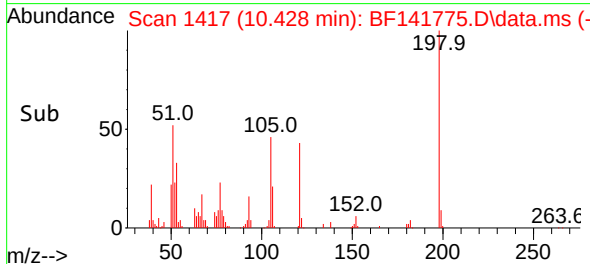
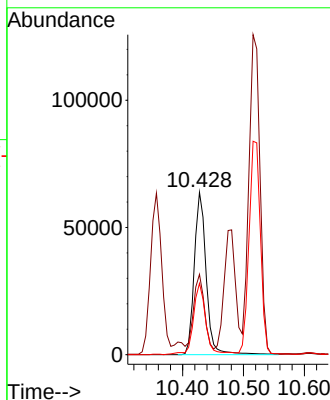
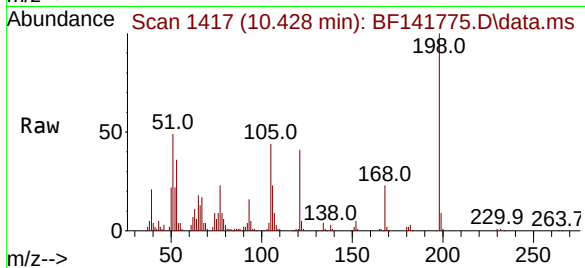




#65
4,6-Dinitro-2-methylphenol
Concen: 39.684 ng
RT: 10.428 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

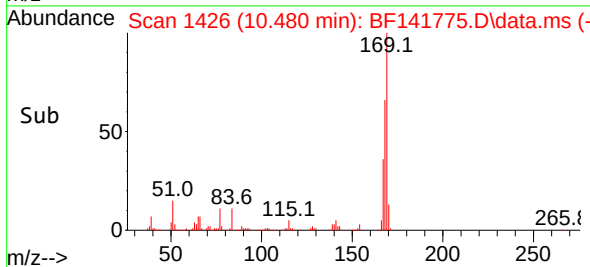
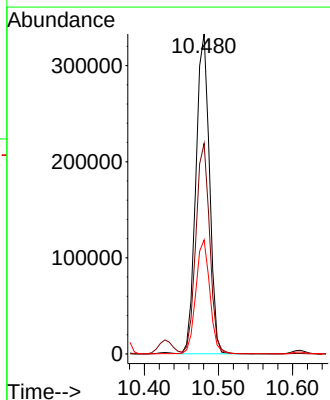
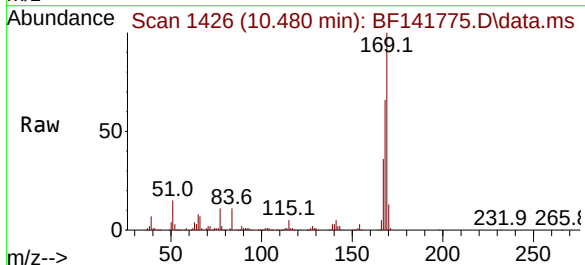
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

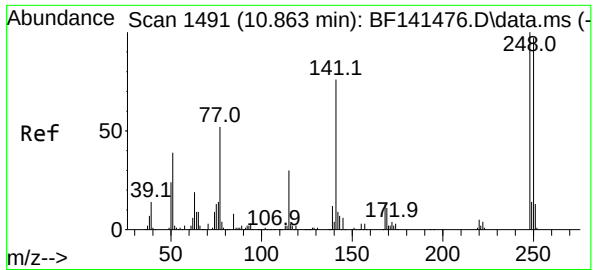
Tgt Ion:198 Resp: 86949
Ion Ratio Lower Upper
198 100
51 49.4 37.4 77.4
105 43.9 25.2 65.2



#66
n-Nitrosodiphenylamine
Concen: 41.817 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:169 Resp: 422215
Ion Ratio Lower Upper
169 100
168 65.8 53.3 79.9
167 35.7 29.4 44.2

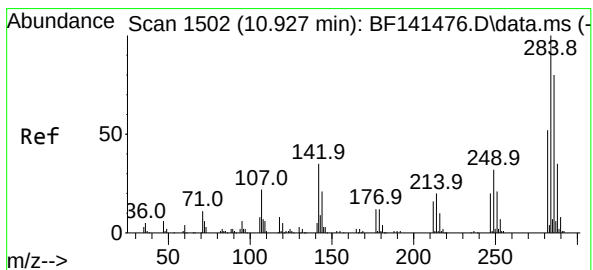
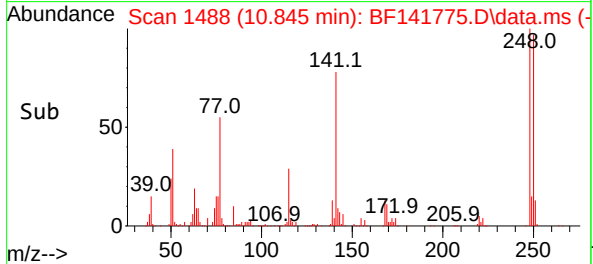
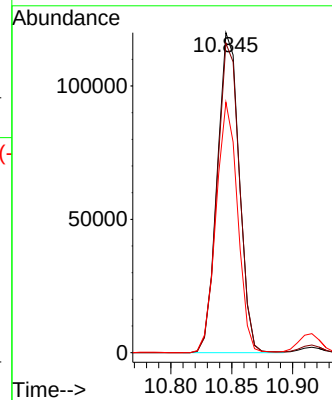
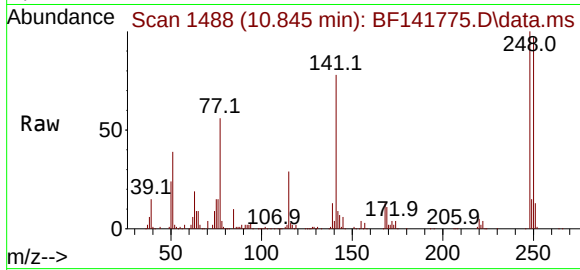




#67
4-Bromophenyl-phenylether
Concen: 42.834 ng
RT: 10.845 min Scan# 1491
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

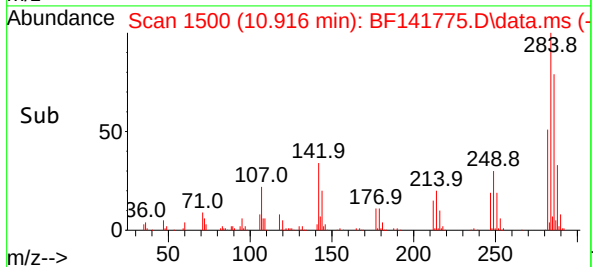
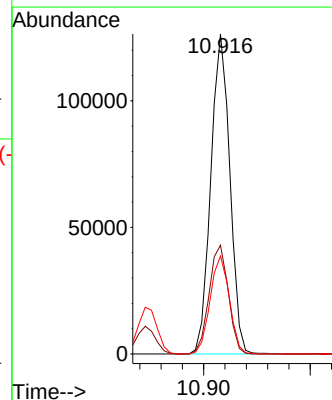
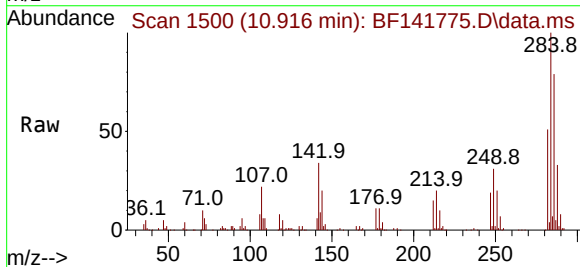
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

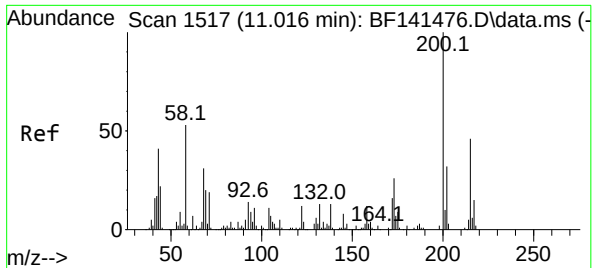
Tgt Ion:248 Resp: 150998
Ion Ratio Lower Upper
248 100
250 96.7 77.8 116.6
141 78.3 60.6 90.8



#68
Hexachlorobenzene
Concen: 43.146 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:284 Resp: 156619
Ion Ratio Lower Upper
284 100
142 34.0 28.0 42.0
249 30.6 25.8 38.8





#69

Atrazine

Concen: 36.750 ng

RT: 11.004 min Scan# 1

Delta R.T. -0.017 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

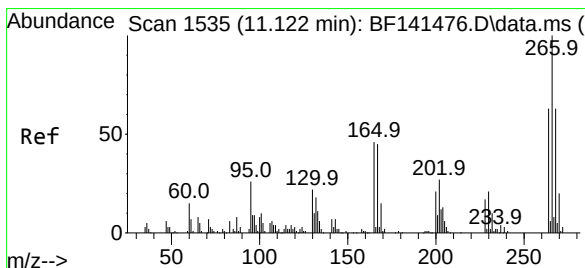
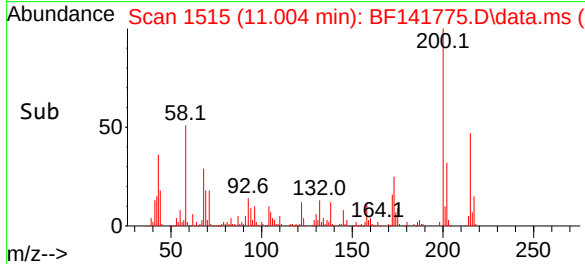
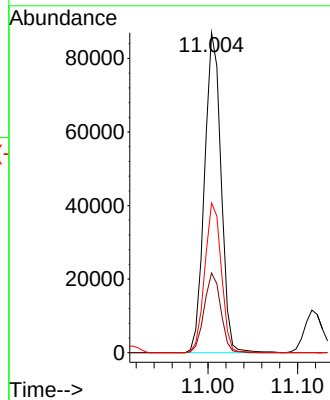
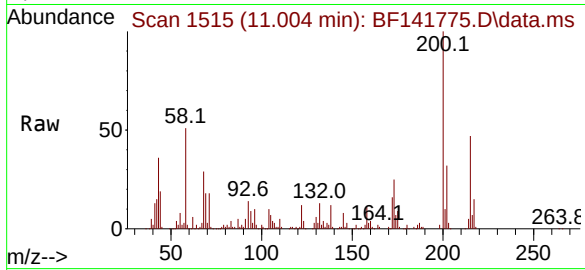
Tgt Ion:200 Resp: 111316

Ion Ratio Lower Upper

200 100

173 24.9 5.9 45.9

215 46.8 25.9 65.9



#70

Pentachlorophenol

Concen: 41.789 ng

RT: 11.116 min Scan# 1534

Delta R.T. -0.012 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

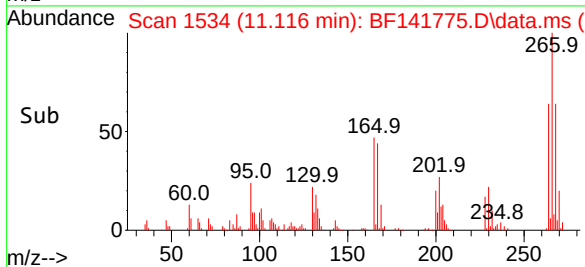
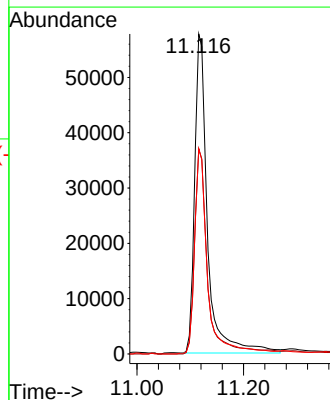
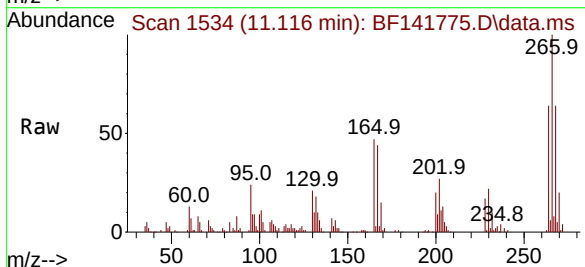
Tgt Ion:266 Resp: 96995

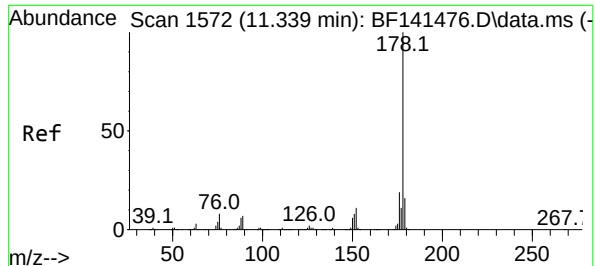
Ion Ratio Lower Upper

266 100

268 64.0 50.1 75.1

264 64.1 50.1 75.1





#71

Phenanthrene

Concen: 41.360 ng

RT: 11.327 min Scan# 1572

Delta R.T. -0.018 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

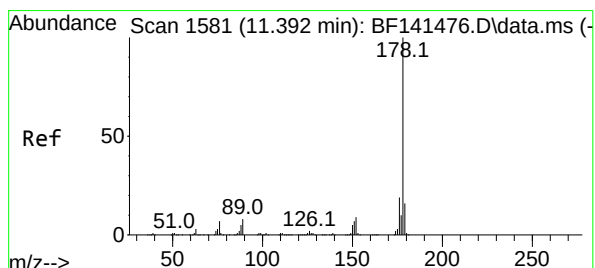
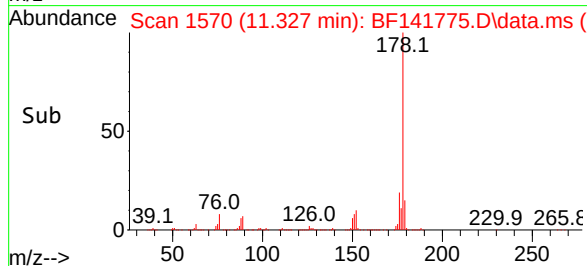
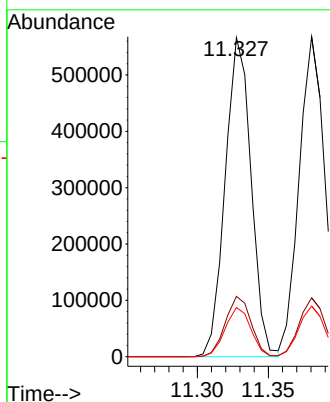
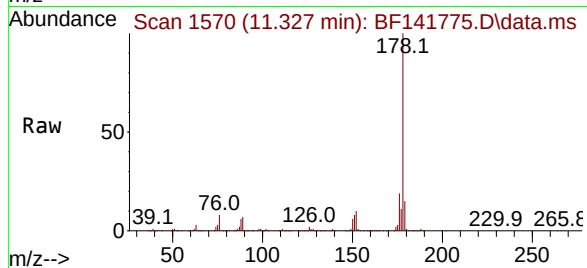
Tgt Ion:178 Resp: 718095

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

179 15.4 12.4 18.6



#72

Anthracene

Concen: 41.033 ng

RT: 11.380 min Scan# 1579

Delta R.T. -0.017 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

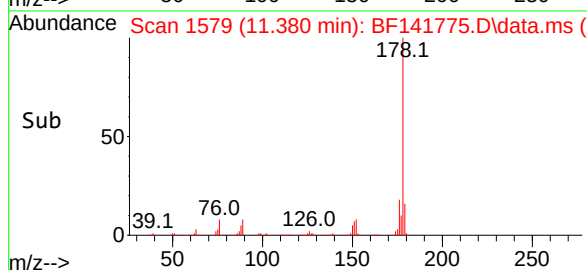
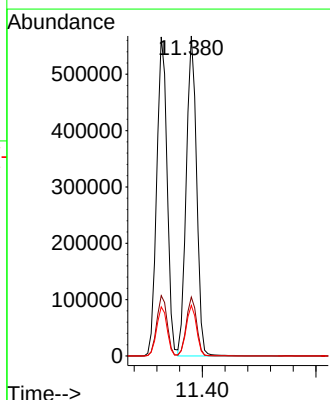
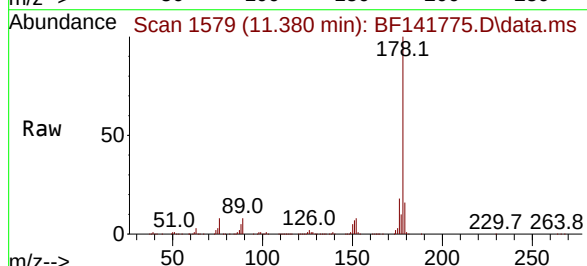
Tgt Ion:178 Resp: 716154

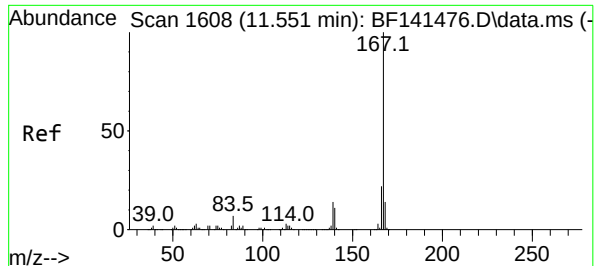
Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

179 15.8 12.4 18.6

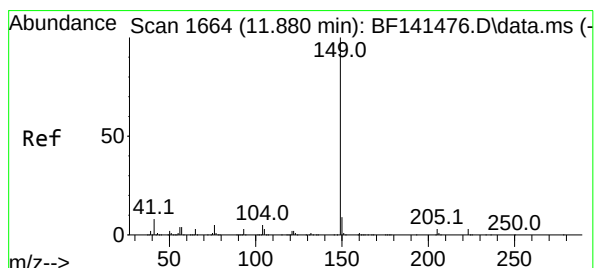
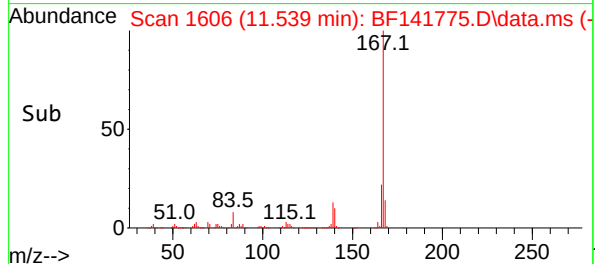
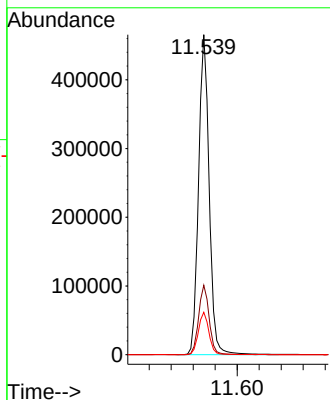
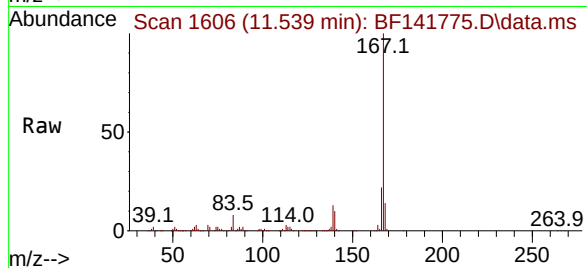




#73
 Carbazole
 Concen: 39.813 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141775.D
 Acq: 26 Feb 2025 10:45

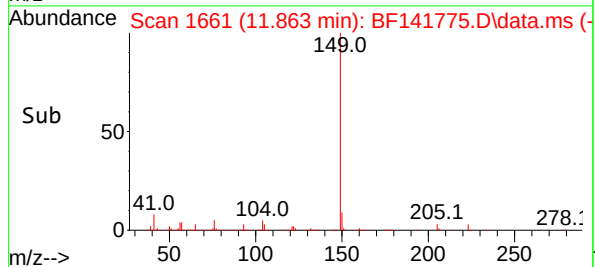
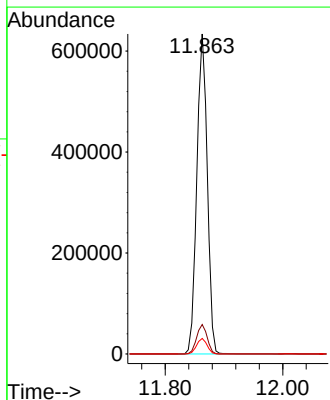
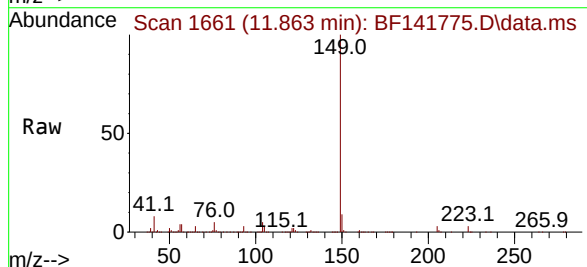
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

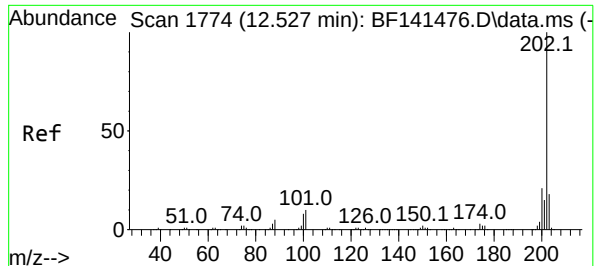
Tgt Ion:167 Resp: 625228
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.4 26.2
 139 13.3 10.9 16.3



#74
 Di-n-butylphthalate
 Concen: 43.146 ng
 RT: 11.863 min Scan# 1661
 Delta R.T. -0.017 min
 Lab File: BF141775.D
 Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 782379
 Ion Ratio Lower Upper
 149 100
 150 9.2 7.4 11.0
 104 4.8 4.2 6.2

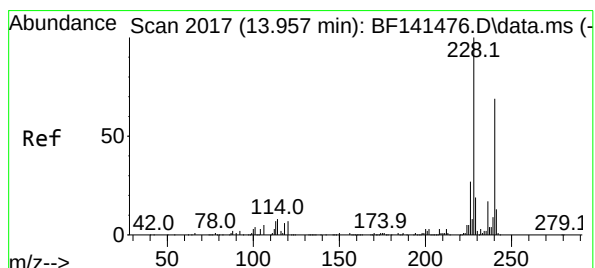
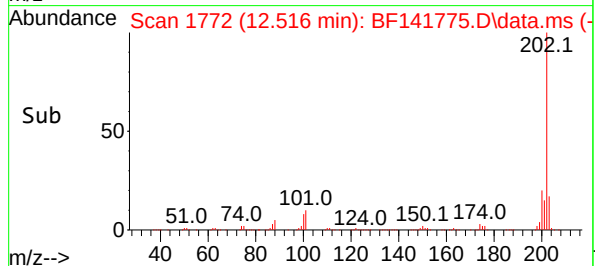
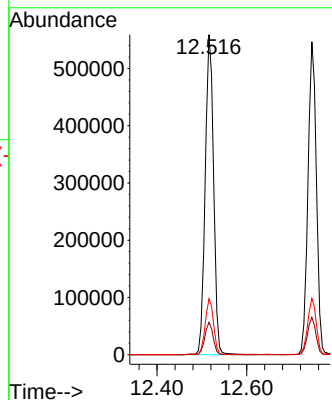
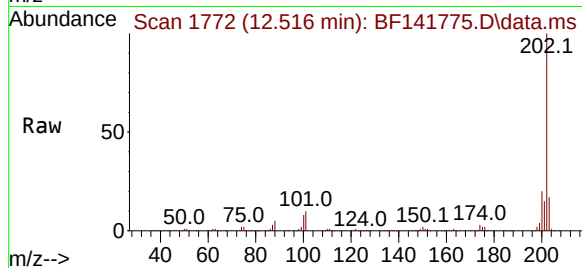




#75
Fluoranthene
Concen: 39.327 ng
RT: 12.516 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

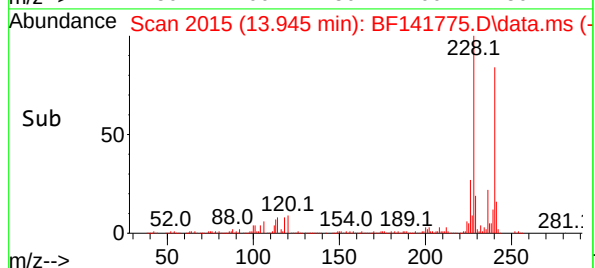
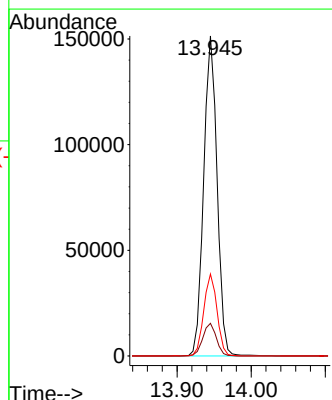
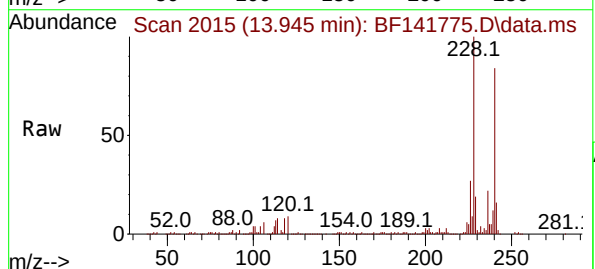
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

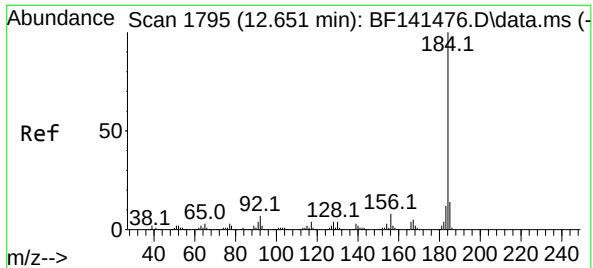
Tgt Ion:202 Resp: 723900
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.2
203 17.4 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:240 Resp: 190171
Ion Ratio Lower Upper
240 100
120 10.2 8.0 12.0
236 25.6 19.8 29.8

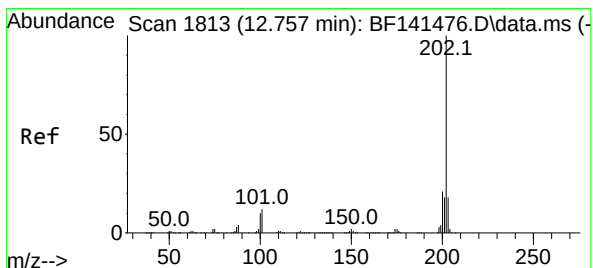
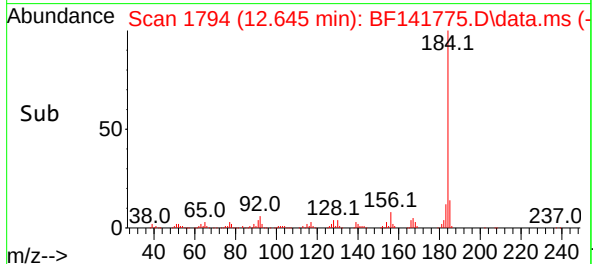
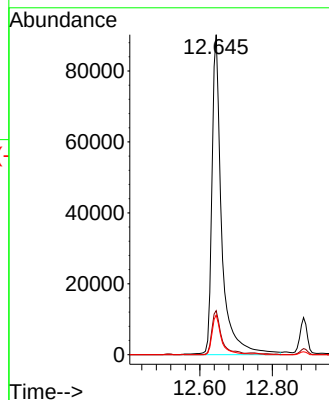
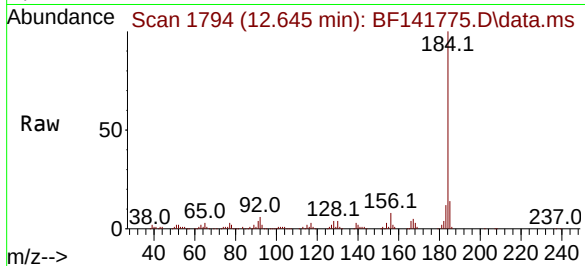




#77
Benzidine
Concen: 40.405 ng
RT: 12.645 min Scan# 1794
Delta R.T. -0.012 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

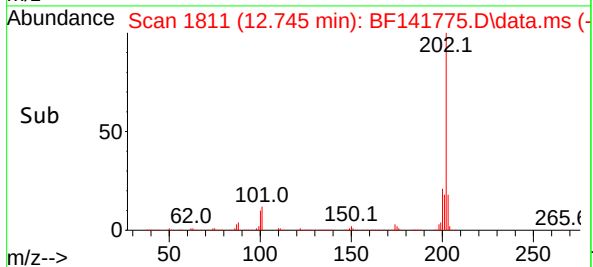
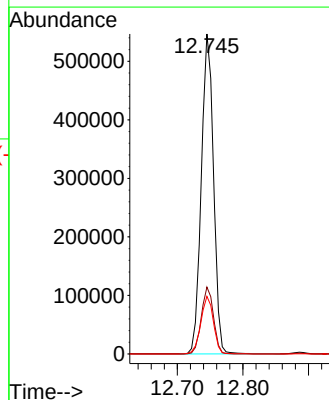
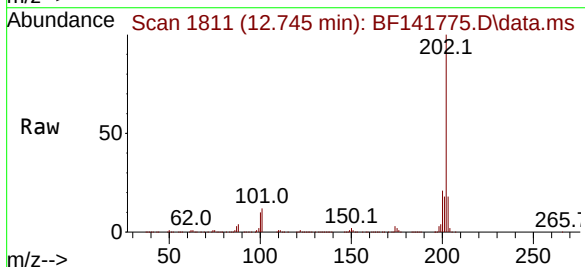
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

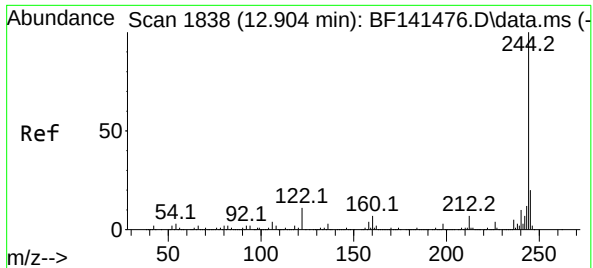
Tgt Ion:184 Resp: 169464
Ion Ratio Lower Upper
184 100
185 13.8 11.3 16.9
183 12.4 9.3 13.9



#78
Pyrene
Concen: 43.860 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:202 Resp: 710043
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 18.0 14.3 21.5

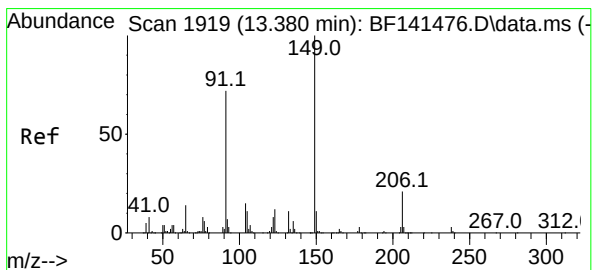
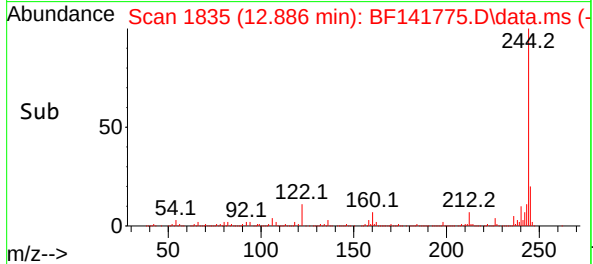
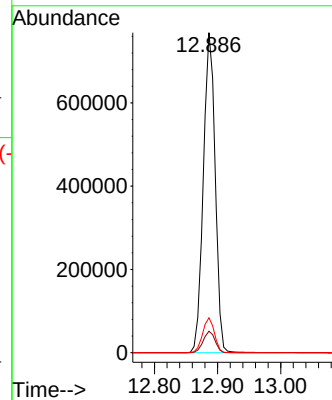
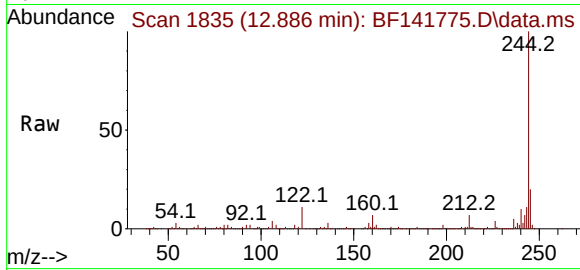




#79
 Terphenyl-d14
 Concen: 88.866 ng
 RT: 12.886 min Scan# 1835
 Delta R.T. -0.017 min
 Lab File: BF141775.D
 Acq: 26 Feb 2025 10:45

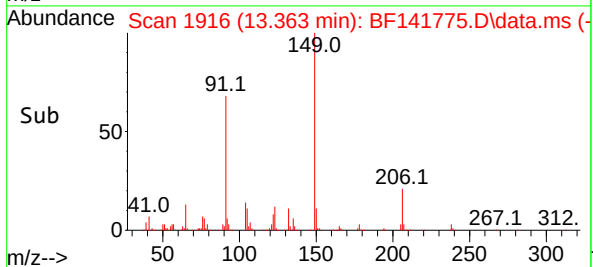
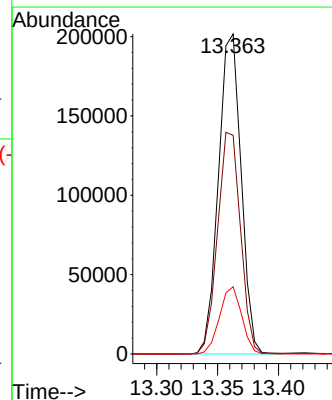
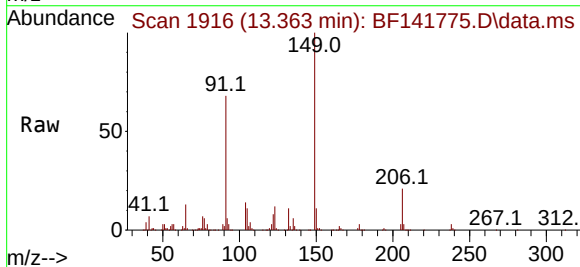
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

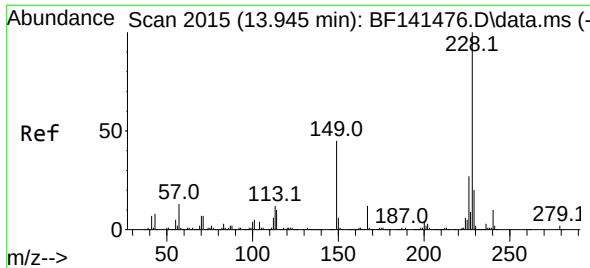
Tgt Ion:244 Resp: 1001068
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.6 8.4
 122 10.9 8.4 12.6



#80
 Butylbenzylphthalate
 Concen: 46.652 ng
 RT: 13.363 min Scan# 1916
 Delta R.T. -0.018 min
 Lab File: BF141775.D
 Acq: 26 Feb 2025 10:45

Tgt Ion:149 Resp: 261592
 Ion Ratio Lower Upper
 149 100
 91 68.3 57.8 86.8
 206 21.0 16.7 25.1

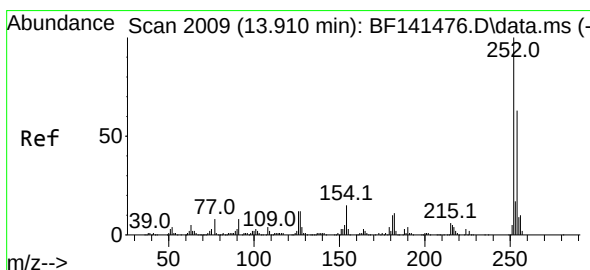
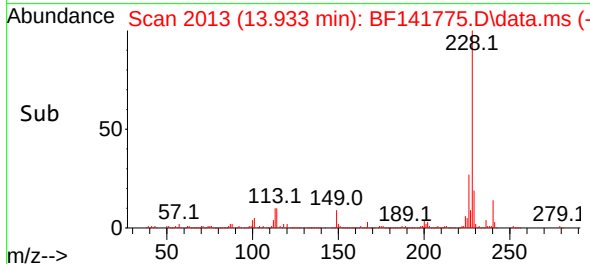
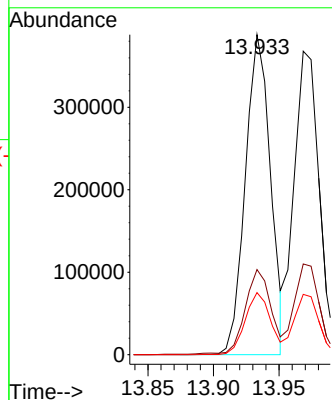
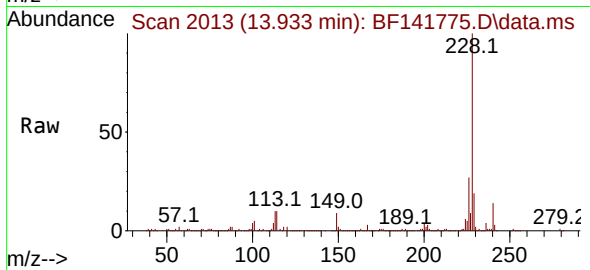




#81
Benzo(a)anthracene
Concen: 41.002 ng
RT: 13.933 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

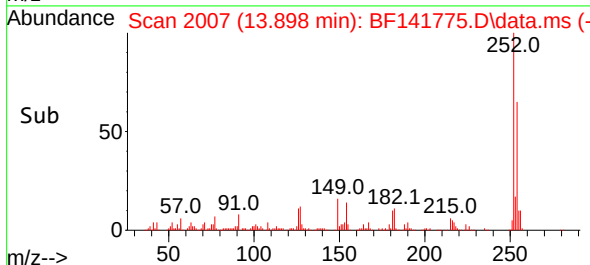
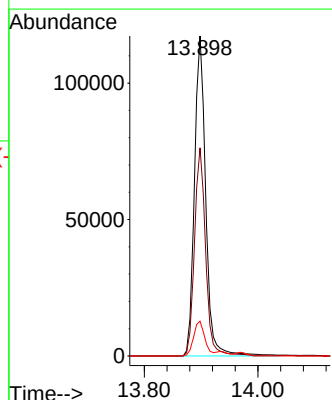
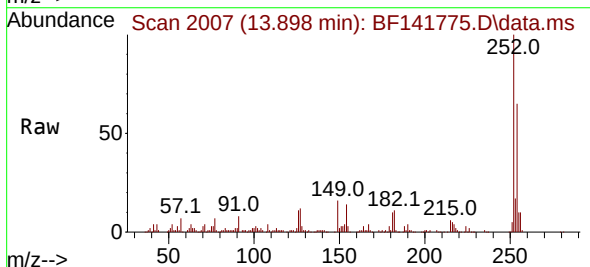
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

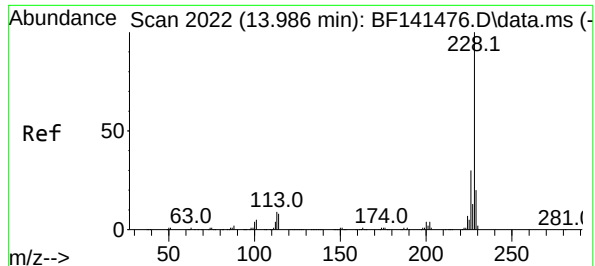
Tgt Ion:228 Resp: 518321
Ion Ratio Lower Upper
228 100
226 26.6 21.8 32.8
229 19.4 15.8 23.6



#82
3,3'-Dichlorobenzidine
Concen: 44.881 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.017 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:252 Resp: 162521
Ion Ratio Lower Upper
252 100
254 65.0 50.6 76.0
126 10.8 9.3 13.9





#83

Chrysene

Concen: 41.884 ng

RT: 13.969 min Scan# 20

Delta R.T. -0.023 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

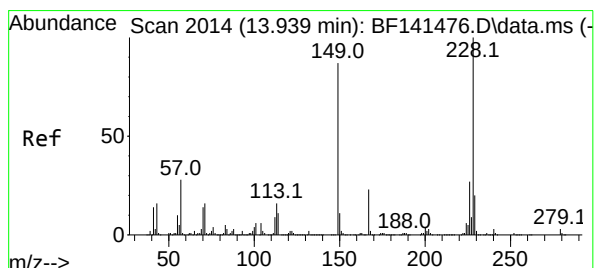
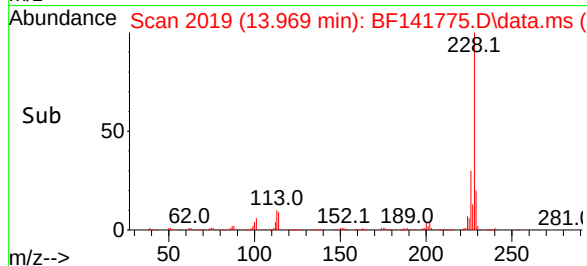
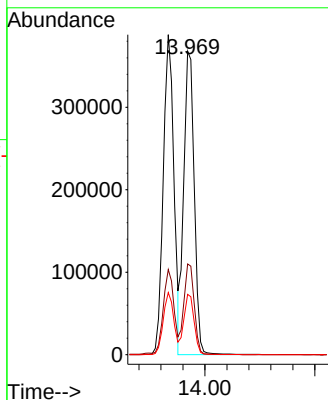
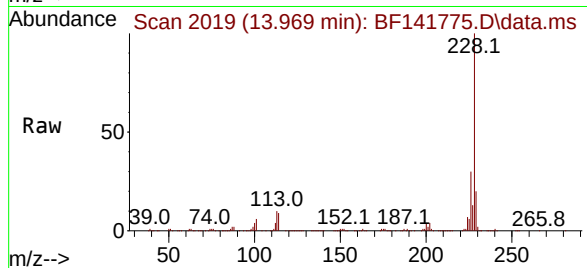
Tgt Ion:228 Resp: 488888

Ion Ratio Lower Upper

228 100

226 29.9 24.0 36.0

229 19.9 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 53.117 ng

RT: 13.916 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

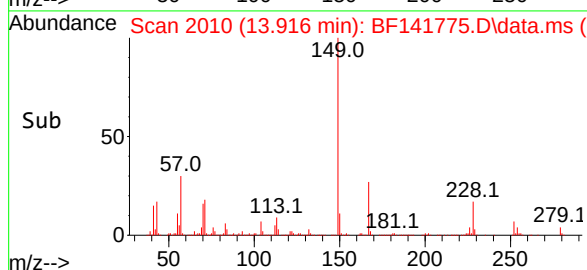
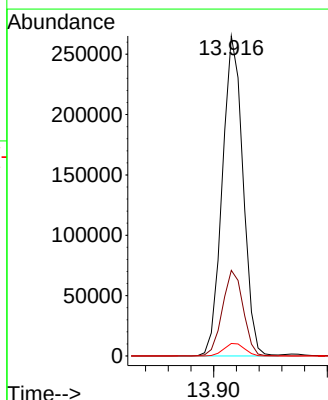
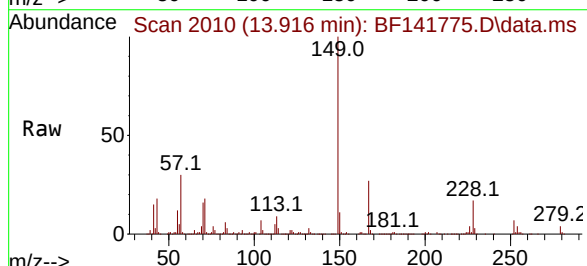
Tgt Ion:149 Resp: 335921

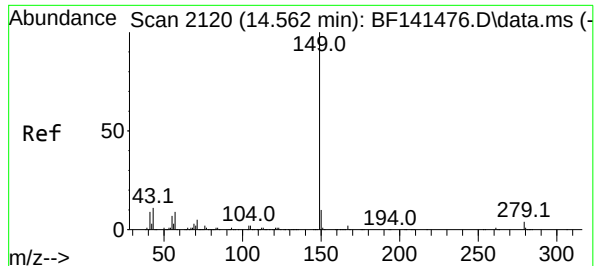
Ion Ratio Lower Upper

149 100

167 26.8 21.4 32.0

279 3.9 3.1 4.7

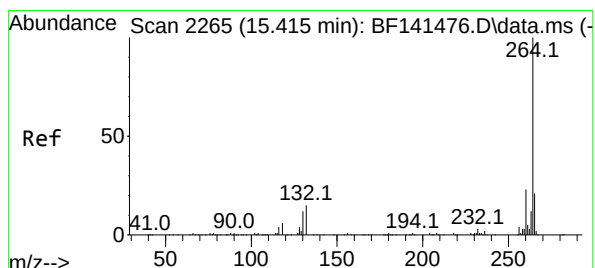
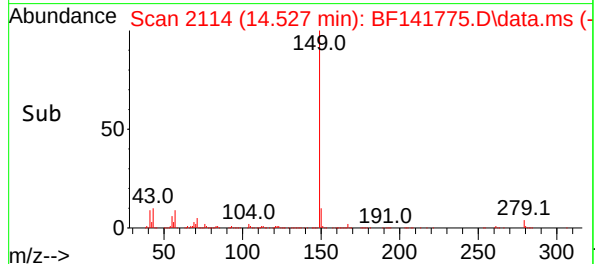
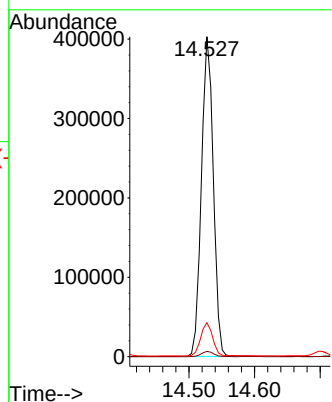
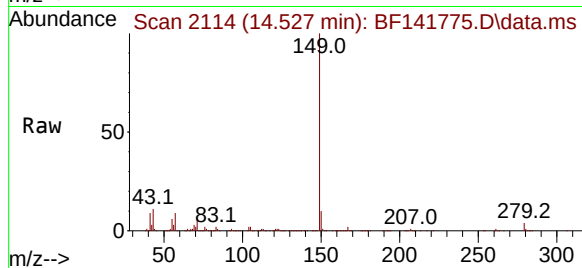




#85
Di-n-octyl phthalate
Concen: 56.453 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

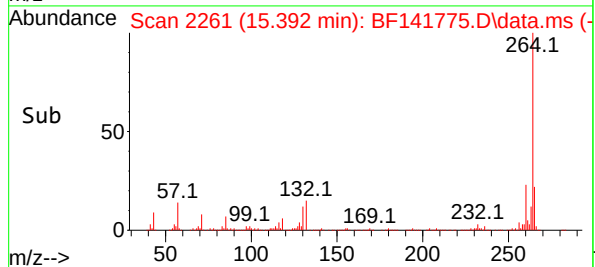
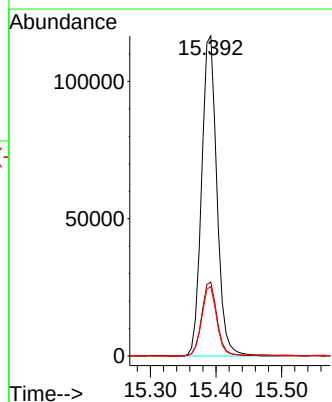
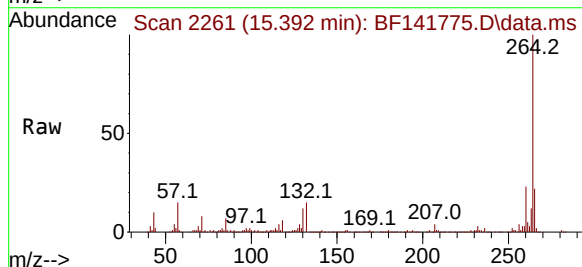
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

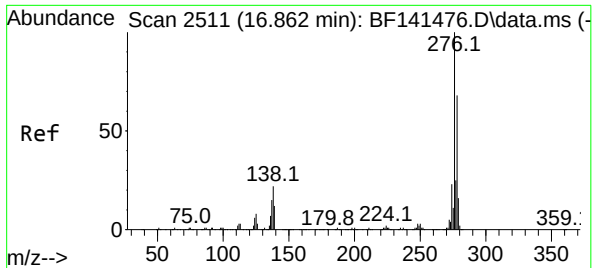
Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.5	9.5	14.3



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.392 min Scan# 2261
Delta R.T. -0.023 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.7	17.0	25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 45.519 ng

RT: 16.833 min Scan# 2190

Delta R.T. -0.041 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

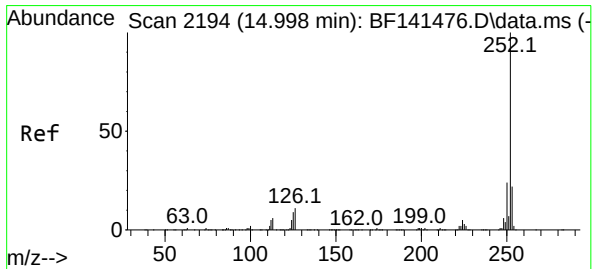
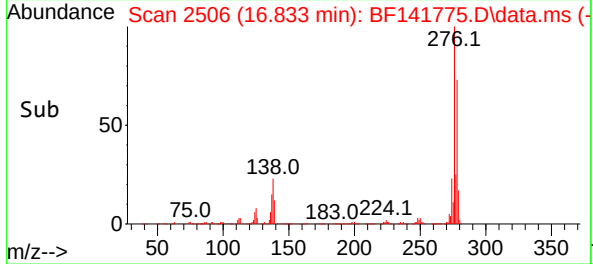
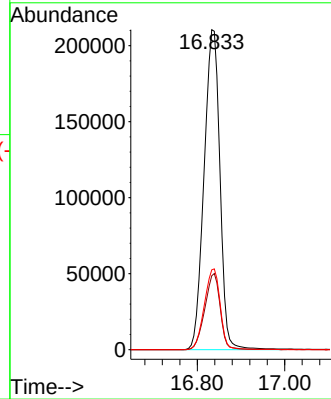
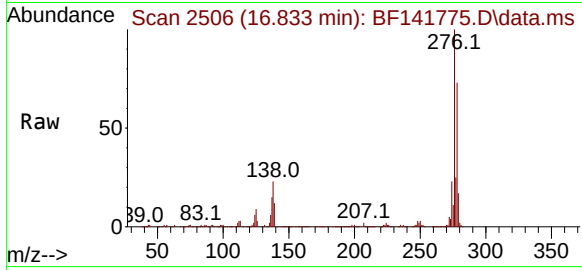
Tgt Ion:276 Resp: 532782

Ion Ratio Lower Upper

276 100

138 23.1 18.0 27.0

277 25.2 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 38.835 ng

RT: 14.974 min Scan# 2190

Delta R.T. -0.029 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

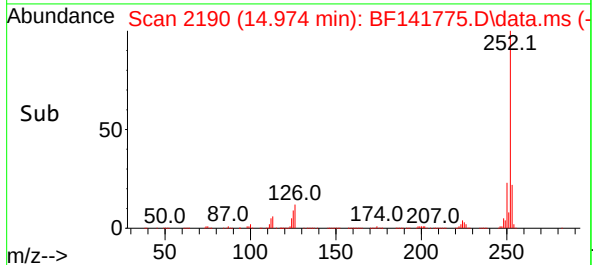
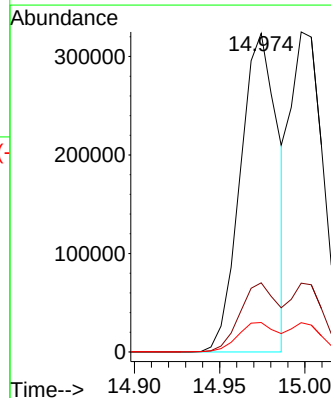
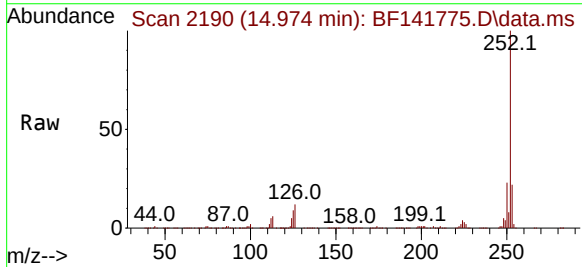
Tgt Ion:252 Resp: 493954

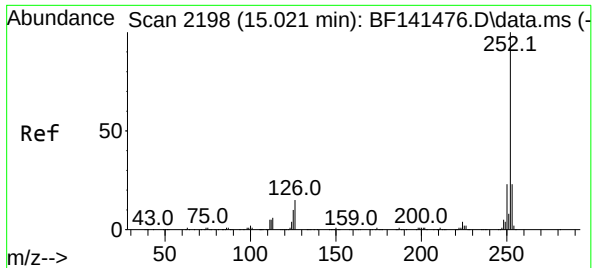
Ion Ratio Lower Upper

252 100

253 21.7 17.5 26.3

125 9.3 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 40.188 ng

RT: 14.998 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

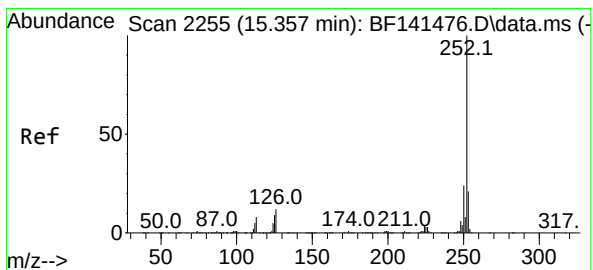
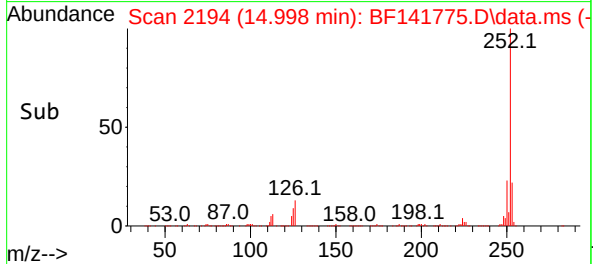
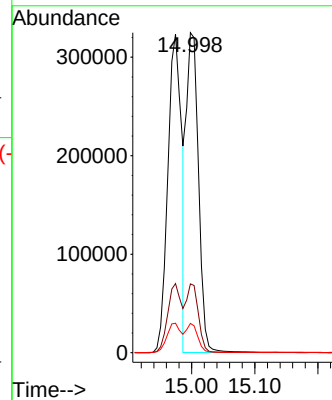
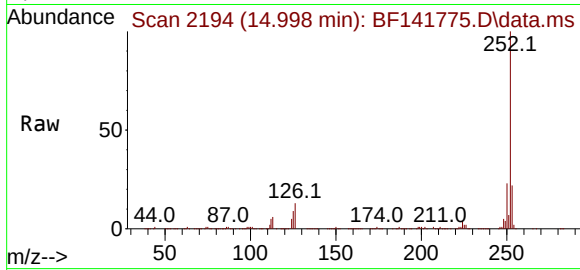
Tgt Ion:252 Resp: 436482

Ion Ratio Lower Upper

252 100

253 21.5 18.0 27.0

125 9.1 7.4 11.0



#90

Benzo(a)pyrene

Concen: 40.870 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141775.D

Acq: 26 Feb 2025 10:45

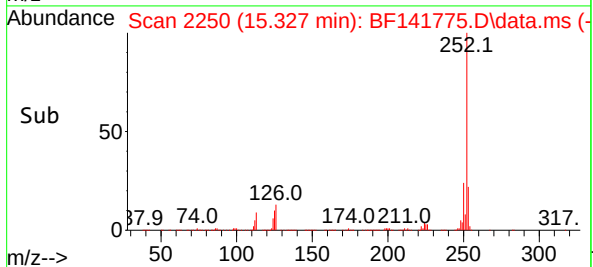
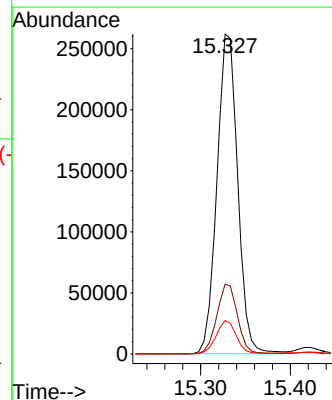
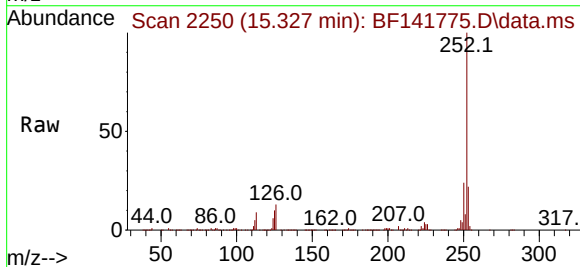
Tgt Ion:252 Resp: 420633

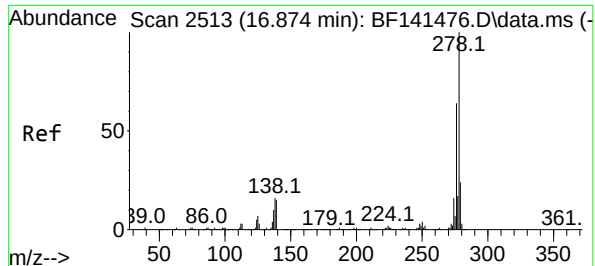
Ion Ratio Lower Upper

252 100

253 21.8 17.1 25.7

125 10.4 7.4 11.2

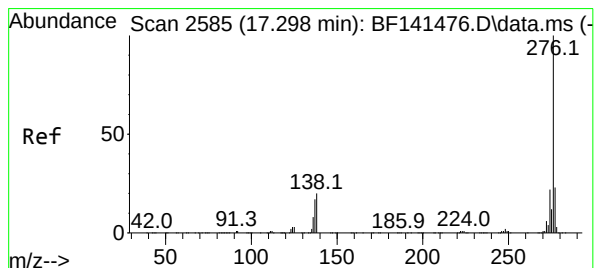
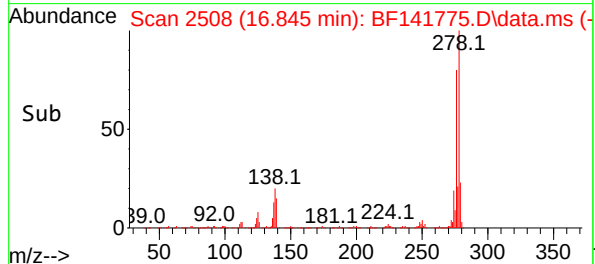
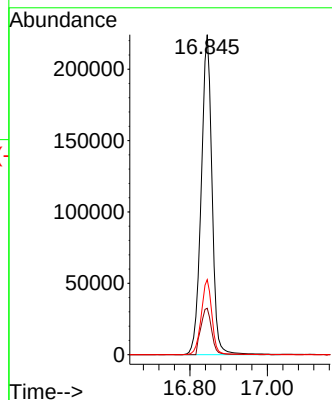
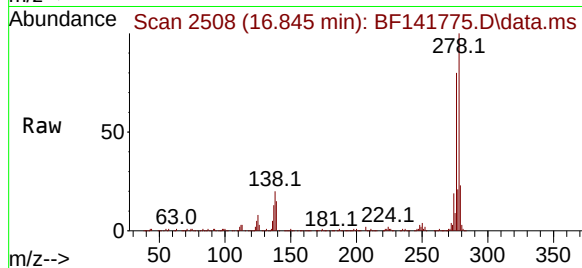




#91
Dibenzo(a,h)anthracene
Concen: 45.570 ng
RT: 16.845 min Scan# 2508
Delta R.T. -0.047 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

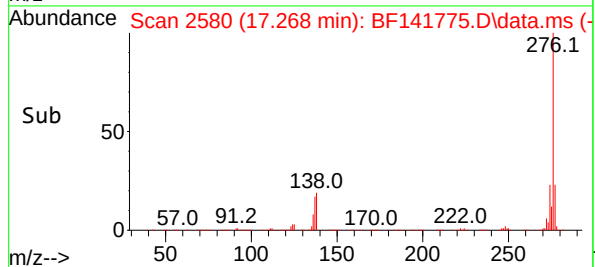
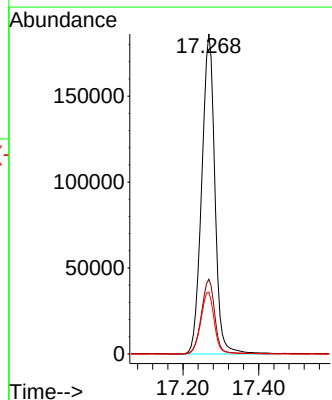
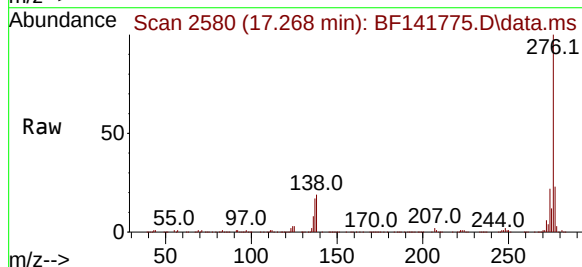
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 432192
Ion Ratio Lower Upper
278 100
139 14.5 11.8 17.6
279 23.4 19.1 28.7



#92
Benzo(g,h,i)perylene
Concen: 45.275 ng
RT: 17.268 min Scan# 2580
Delta R.T. -0.047 min
Lab File: BF141775.D
Acq: 26 Feb 2025 10:45

Tgt Ion:276 Resp: 449342
Ion Ratio Lower Upper
276 100
277 23.3 18.6 28.0
138 19.3 15.9 23.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141775.D
 Acq On : 26 Feb 2025 10:45
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	-0.01
2	1,4-Dioxane	0.513	0.531	-3.5	99	-0.02
3	Pyridine	1.222	1.317	-7.8	100	-0.02
4	n-Nitrosodimethylamine	0.809	0.726	10.3	85	-0.04
5 S	2-Fluorophenol	1.276	1.366	-7.1	102	0.00
6	Aniline	1.513	1.528	-1.0	95	-0.02
7 S	Phenol-d6	1.612	1.663	-3.2	99	-0.01
8	2-Chlorophenol	1.378	1.467	-6.5	102	-0.01
9	Benzaldehyde	0.857	0.907	-5.8	106	0.00
10 C	Phenol	1.678	1.722	-2.6	98	-0.01
11	bis(2-Chloroethyl)ether	1.261	1.285	-1.9	97	-0.01
12	1,3-Dichlorobenzene	1.455	1.552	-6.7	103	-0.01
13 C	1,4-Dichlorobenzene	1.487	1.554	-4.5	101	-0.01
14	1,2-Dichlorobenzene	1.380	1.467	-6.3	102	-0.01
15	Benzyl Alcohol	1.236	1.239	-0.2	94	0.00
16	2,2'-oxybis(1-Chloropropane	2.158	2.011	6.8	89	-0.01
17	2-Methylphenol	1.079	1.099	-1.9	98	0.00
18	Hexachloroethane	0.550	0.572	-4.0	99	-0.01
19 P	n-Nitroso-di-n-propylamine	0.964	0.977	-1.3	97	-0.02
20	3+4-Methylphenols	1.371	1.432	-4.4	100	-0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	98	-0.01
22	Acetophenone	0.498	0.499	-0.2	99	-0.02
23 S	Nitrobenzene-d5	0.383	0.375	2.1	96	-0.01
24	Nitrobenzene	0.374	0.361	3.5	95	-0.01
25	Isophorone	0.611	0.607	0.7	98	-0.01
26 C	2-Nitrophenol	0.186	0.196	-5.4	100	0.00
27	2,4-Dimethylphenol	0.217	0.221	-1.8	98	0.00
28	bis(2-Chloroethoxy)methane	0.392	0.404	-3.1	101	-0.01
29 C	2,4-Dichlorophenol	0.294	0.303	-3.1	101	0.00
30	1,2,4-Trichlorobenzene	0.320	0.326	-1.9	101	0.00
31	Naphthalene	1.041	1.050	-0.9	99	-0.01
32	Benzoic acid	0.226	0.188	16.8	80	-0.02
33	4-Chloroaniline	0.363	0.381	-5.0	103	-0.02
34 C	Hexachlorobutadiene	0.192	0.196	-2.1	100	-0.01
35	Caprolactam	0.089	0.090	-1.1	95	-0.03
36 C	4-Chloro-3-methylphenol	0.325	0.327	-0.6	98	-0.01
37	2-Methylnaphthalene	0.677	0.692	-2.2	102	-0.01
38	1-Methylnaphthalene	0.656	0.662	-0.9	99	-0.01
39 I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.02
40	1,2,4,5-Tetrachlorobenzene	0.579	0.600	-3.6	100	0.00
41 P	Hexachlorocyclopentadiene	0.192	0.186	3.1	89	-0.01
42 S	2,4,6-Tribromophenol	0.201	0.205	-2.0	100	-0.02
43 C	2,4,6-Trichlorophenol	0.374	0.378	-1.1	98	0.00
44	2,4,5-Trichlorophenol	0.405	0.404	0.2	96	0.00
45 S	2-Fluorobiphenyl	1.298	1.311	-1.0	101	-0.01
46	1,1'-Biphenyl	1.551	1.592	-2.6	100	-0.02
47	2-Chloronaphthalene	1.147	1.179	-2.8	101	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141775.D
 Acq On : 26 Feb 2025 10:45
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	2-Nitroaniline	0.385	0.371	3.6	93	-0.01
49	Acenaphthylene	1.705	1.716	-0.6	99	-0.01
50	Dimethylphthalate	1.358	1.404	-3.4	102	-0.02
51	2,6-Dinitrotoluene	0.297	0.311	-4.7	101	-0.01
52 C	Acenaphthene	1.147	1.148	-0.1	97	-0.02
53	3-Nitroaniline	0.319	0.316	0.9	96	-0.01
54 P	2,4-Dinitrophenol	0.176	0.165	6.2	91	0.00
55	Dibenzofuran	1.683	1.683	0.0	98	-0.02
56 P	4-Nitrophenol	0.237	0.220	7.2	86	0.00
57	2,4-Dinitrotoluene	0.395	0.392	0.8	96	-0.01
58	Fluorene	1.301	1.325	-1.8	100	-0.01
59	2,3,4,6-Tetrachlorophenol	0.349	0.345	1.1	96	-0.01
60	Diethylphthalate	1.336	1.362	-1.9	100	-0.02
61	4-Chlorophenyl-phenylether	0.626	0.660	-5.4	103	-0.02
62	4-Nitroaniline	0.324	0.308	4.9	90	-0.02
63	Azobenzene	1.328	1.308	1.5	96	-0.02
64 I	Phenanthrene-d10	1.000	1.000	0.0	94	-0.01
65	4,6-Dinitro-2-methylphenol	0.139	0.138	0.7	91	-0.01
66 c	n-Nitrosodiphenylamine	0.640	0.669	-4.5	100	-0.02
67	4-Bromophenyl-phenylether	0.224	0.239	-6.7	102	-0.02
68	Hexachlorobenzene	0.230	0.248	-7.8	103	-0.01
69	Atrazine	0.192	0.176	8.3	89	-0.02
70 C	Pentachlorophenol	0.147	0.154	-4.8	93	-0.01
71	Phenanthrene	1.101	1.138	-3.4	98	-0.02
72	Anthracene	1.107	1.135	-2.5	98	-0.02
73	Carbazole	0.996	0.991	0.5	94	-0.01
74	Di-n-butylphthalate	1.150	1.240	-7.8	102	-0.02
75 C	Fluoranthene	1.167	1.148	1.6	93	-0.02
76 I	Chrysene-d12	1.000	1.000	0.0	84	-0.02
77	Benzidine	0.441	0.446	-1.1	71	-0.01
78	Pyrene	1.703	1.867	-9.6	90	-0.02
79 S	Terphenyl-d14	1.185	1.316	-11.1	93	-0.02
80	Butylbenzylphthalate	0.590	0.688	-16.6	95	-0.02
81	Benzo(a)anthracene	1.329	1.363	-2.6	85	-0.02
82	3,3'-Dichlorobenzidine	0.381	0.427	-12.1	95	-0.02
83	Chrysene	1.228	1.285	-4.6	90	-0.02
84	Bis(2-ethylhexyl)phthalate	0.665	0.883	-32.8#	108	-0.02
85 c	Di-n-octyl phthalate	0.949	1.339	-41.1#	117	-0.04
86 I	Perylene-d12	1.000	1.000	0.0	104	-0.02
87	Indeno(1,2,3-cd)pyrene	1.236	1.406	-13.8	113	-0.04
88	Benzo(b)fluoranthene	1.343	1.304	2.9	101	-0.03
89	Benzo(k)fluoranthene	1.147	1.152	-0.4	104	-0.04
90 C	Benzo(a)pyrene	1.087	1.110	-2.1	106	-0.04
91	Dibenzo(a,h)anthracene	1.001	1.141	-14.0	112	-0.05
92	Benzo(g,h,i)perylene	1.048	1.186	-13.2	112	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141775.D
 Acq On : 26 Feb 2025 10:45
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	96	-0.01
2	1,4-Dioxane	40.000	41.405	-3.5	99	-0.02
3	Pyridine	40.000	43.112	-7.8	100	-0.02
4	n-Nitrosodimethylamine	40.000	35.897	10.3	85	-0.04
5 S	2-Fluorophenol	80.000	85.642	-7.1	102	0.00
6	Aniline	40.000	40.412	-1.0	95	-0.02
7 S	Phenol-d6	80.000	82.530	-3.2	99	-0.01
8	2-Chlorophenol	40.000	42.577	-6.4	102	-0.01
9	Benzaldehyde	40.000	42.342	-5.9	106	0.00
10 C	Phenol	40.000	41.054	-2.6	98	-0.01
11	bis(2-Chloroethyl)ether	40.000	40.782	-2.0	97	-0.01
12	1,3-Dichlorobenzene	40.000	42.649	-6.6	103	-0.01
13 C	1,4-Dichlorobenzene	40.000	41.812	-4.5	101	-0.01
14	1,2-Dichlorobenzene	40.000	42.534	-6.3	102	-0.01
15	Benzyl Alcohol	40.000	40.087	-0.2	94	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.280	6.8	89	-0.01
17	2-Methylphenol	40.000	40.743	-1.9	98	0.00
18	Hexachloroethane	40.000	41.554	-3.9	99	-0.01
19 P	n-Nitroso-di-n-propylamine	40.000	40.509	-1.3	97	-0.02
20	3+4-Methylphenols	40.000	41.793	-4.5	100	-0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	98	-0.01
22	Acetophenone	40.000	40.120	-0.3	99	-0.02
23 S	Nitrobenzene-d5	80.000	78.277	2.2	96	-0.01
24	Nitrobenzene	40.000	38.612	3.5	95	-0.01
25	Isophorone	40.000	39.692	0.8	98	-0.01
26 C	2-Nitrophenol	40.000	42.247	-5.6	100	0.00
27	2,4-Dimethylphenol	40.000	40.708	-1.8	98	0.00
28	bis(2-Chloroethoxy)methane	40.000	41.204	-3.0	101	-0.01
29 C	2,4-Dichlorophenol	40.000	41.335	-3.3	101	0.00
30	1,2,4-Trichlorobenzene	40.000	40.821	-2.1	101	0.00
31	Naphthalene	40.000	40.355	-0.9	99	-0.01
32	Benzoic acid	40.000	33.261	16.8	80	-0.02
33	4-Chloroaniline	40.000	41.953	-4.9	103	-0.02
34 C	Hexachlorobutadiene	40.000	40.899	-2.2	100	-0.01
35	Caprolactam	40.000	40.218	-0.5	95	-0.03
36 C	4-Chloro-3-methylphenol	40.000	40.227	-0.6	98	-0.01
37	2-Methylnaphthalene	40.000	40.882	-2.2	102	-0.01
38	1-Methylnaphthalene	40.000	40.333	-0.8	99	-0.01
39 I	Acenaphthene-d10	20.000	20.000	0.0	97	-0.02
40	1,2,4,5-Tetrachlorobenzene	40.000	41.503	-3.8	100	0.00
41 P	Hexachlorocyclopentadiene	40.000	38.631	3.4	89	-0.01
42 S	2,4,6-Tribromophenol	80.000	81.472	-1.8	100	-0.02
43 C	2,4,6-Trichlorophenol	40.000	40.392	-1.0	98	0.00
44	2,4,5-Trichlorophenol	40.000	39.917	0.2	96	0.00
45 S	2-Fluorobiphenyl	80.000	80.803	-1.0	101	-0.01
46	1,1'-Biphenyl	40.000	41.065	-2.7	100	-0.02
47	2-Chloronaphthalene	40.000	41.132	-2.8	101	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141775.D
 Acq On : 26 Feb 2025 10:45
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	38.554	3.6	93	-0.01
49	Acenaphthylene	40.000	40.243	-0.6	99	-0.01
50	Dimethylphthalate	40.000	41.369	-3.4	102	-0.02
51	2,6-Dinitrotoluene	40.000	41.931	-4.8	101	-0.01
52 C	Acenaphthene	40.000	40.039	-0.1	97	-0.02
53	3-Nitroaniline	40.000	39.520	1.2	96	-0.01
54 P	2,4-Dinitrophenol	40.000	37.317	6.7	91	0.00
55	Dibenzofuran	40.000	39.995	0.0	98	-0.02
56 P	4-Nitrophenol	40.000	37.082	7.3	86	0.00
57	2,4-Dinitrotoluene	40.000	39.692	0.8	96	-0.01
58	Fluorene	40.000	40.745	-1.9	100	-0.01
59	2,3,4,6-Tetrachlorophenol	40.000	39.503	1.2	96	-0.01
60	Diethylphthalate	40.000	40.773	-1.9	100	-0.02
61	4-Chlorophenyl-phenylether	40.000	42.168	-5.4	103	-0.02
62	4-Nitroaniline	40.000	38.000	5.0	90	-0.02
63	Azobenzene	40.000	39.399	1.5	96	-0.02
64 I	Phenanthrene-d10	20.000	20.000	0.0	94	-0.01
65	4,6-Dinitro-2-methylphenol	40.000	39.684	0.8	91	-0.01
66 c	n-Nitrosodiphenylamine	40.000	41.817	-4.5	100	-0.02
67	4-Bromophenyl-phenylether	40.000	42.834	-7.1	102	-0.02
68	Hexachlorobenzene	40.000	43.146	-7.9	103	-0.01
69	Atrazine	40.000	36.750	8.1	89	-0.02
70 C	Pentachlorophenol	40.000	41.789	-4.5	93	-0.01
71	Phenanthrene	40.000	41.360	-3.4	98	-0.02
72	Anthracene	40.000	41.033	-2.6	98	-0.02
73	Carbazole	40.000	39.813	0.5	94	-0.01
74	Di-n-butylphthalate	40.000	43.146	-7.9	102	-0.02
75 C	Fluoranthene	40.000	39.327	1.7	93	-0.02
76 I	Chrysene-d12	20.000	20.000	0.0	84	-0.02
77	Benzidine	40.000	40.405	-1.0	71	-0.01
78	Pyrene	40.000	43.860	-9.6	90	-0.02
79 S	Terphenyl-d14	80.000	88.866	-11.1	93	-0.02
80	Butylbenzylphthalate	40.000	46.652	-16.6	95	-0.02
81	Benzo(a)anthracene	40.000	41.002	-2.5	85	-0.02
82	3,3'-Dichlorobenzidine	40.000	44.881	-12.2	95	-0.02
83	Chrysene	40.000	41.884	-4.7	90	-0.02
84	Bis(2-ethylhexyl)phthalate	40.000	53.117	-32.8#	108	-0.02
85 c	Di-n-octyl phthalate	40.000	56.453	-41.1#	117	-0.04
86 I	Perylene-d12	20.000	20.000	0.0	104	-0.02
87	Indeno(1,2,3-cd)pyrene	40.000	45.519	-13.8	113	-0.04
88	Benzo(b)fluoranthene	40.000	38.835	2.9	101	-0.03
89	Benzo(k)fluoranthene	40.000	40.188	-0.5	104	-0.04
90 C	Benzo(a)pyrene	40.000	40.870	-2.2	106	-0.04
91	Dibenzo(a,h)anthracene	40.000	45.570	-13.9	112	-0.05
92	Benzo(g,h,i)perylene	40.000	45.275	-13.2	112	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141775.D
Acq On : 26 Feb 2025 10:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 26 11:15:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
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(#) = Out of Range

SPCC's out = 0 CCC's out = 1



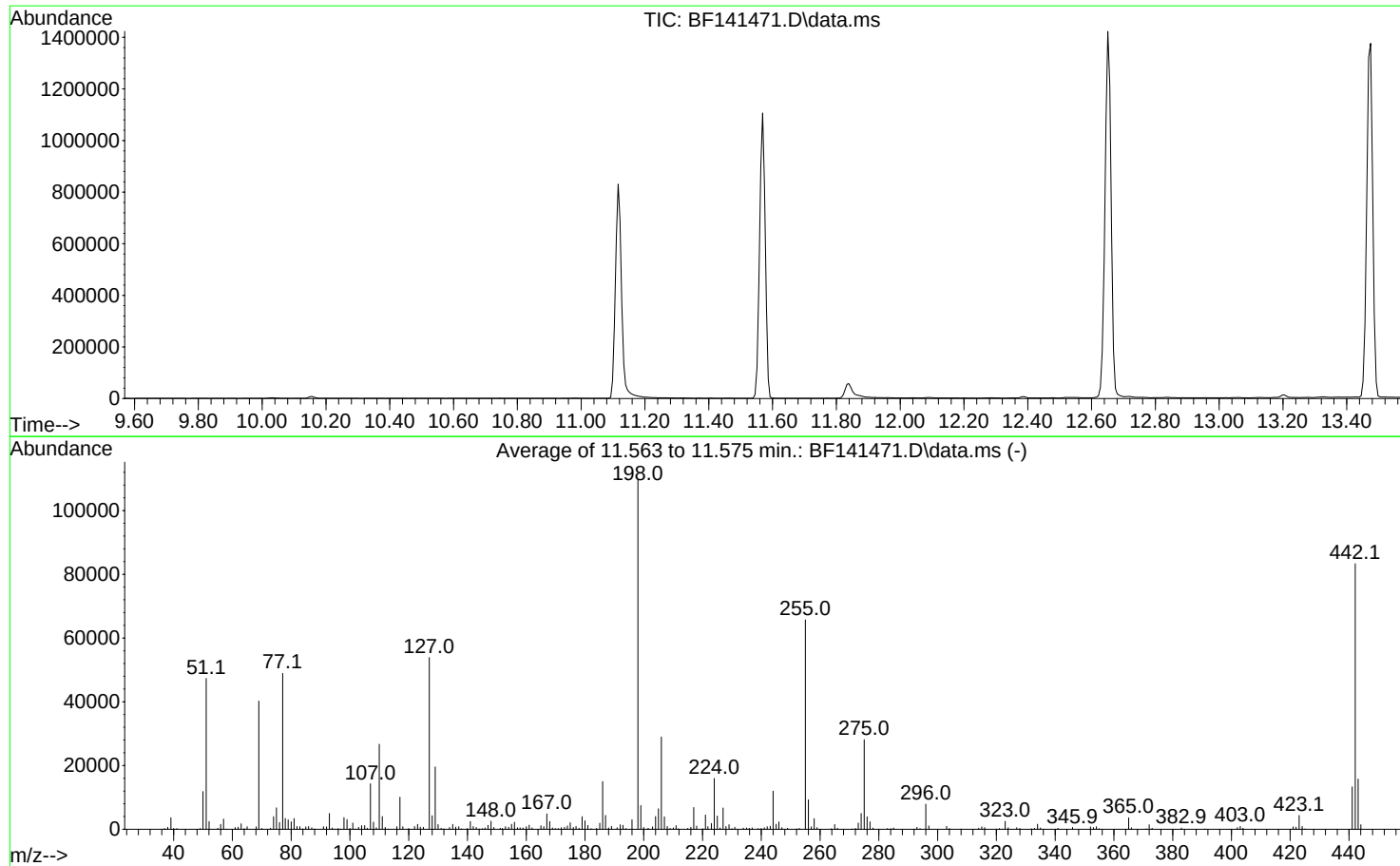
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025



AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1603

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.2	47360	PASS
68	69	0.00	2	1.9	756	PASS
69	198	0.00	100	36.7	40248	PASS
70	69	0.00	2	0.5	221	PASS
127	198	10	80	49.1	53877	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	109720	PASS
199	198	5	9	6.8	7444	PASS
275	198	10	60	25.6	28133	PASS
365	198	1	100	3.3	3599	PASS
441	198	0.01	100	12.2	13341	PASS
442	442	50	100	100.0	83323	PASS
443	442	15	24	18.9	15754	PASS

DDT Breakdown

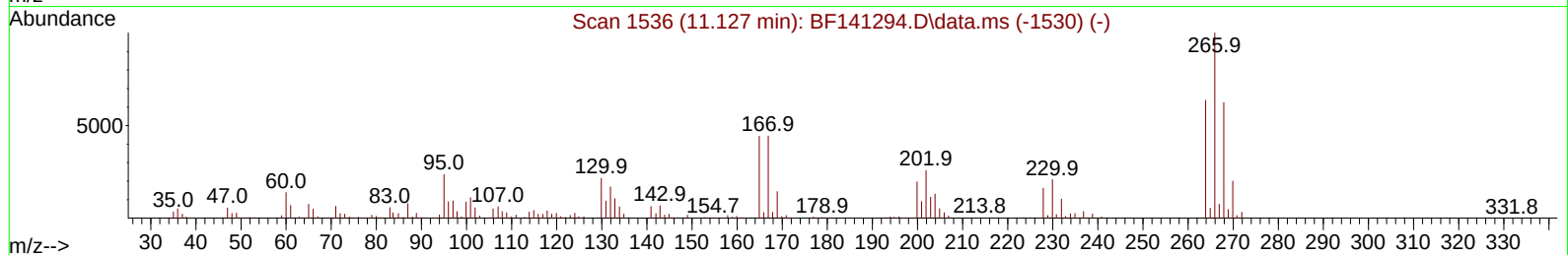
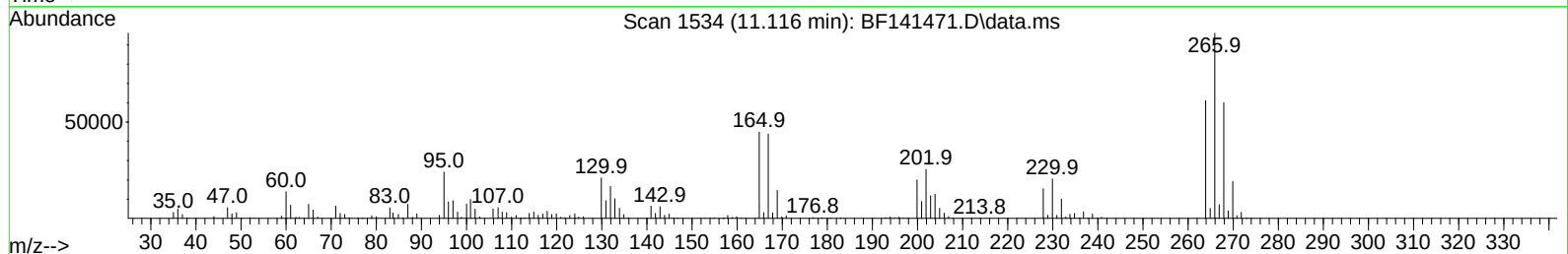
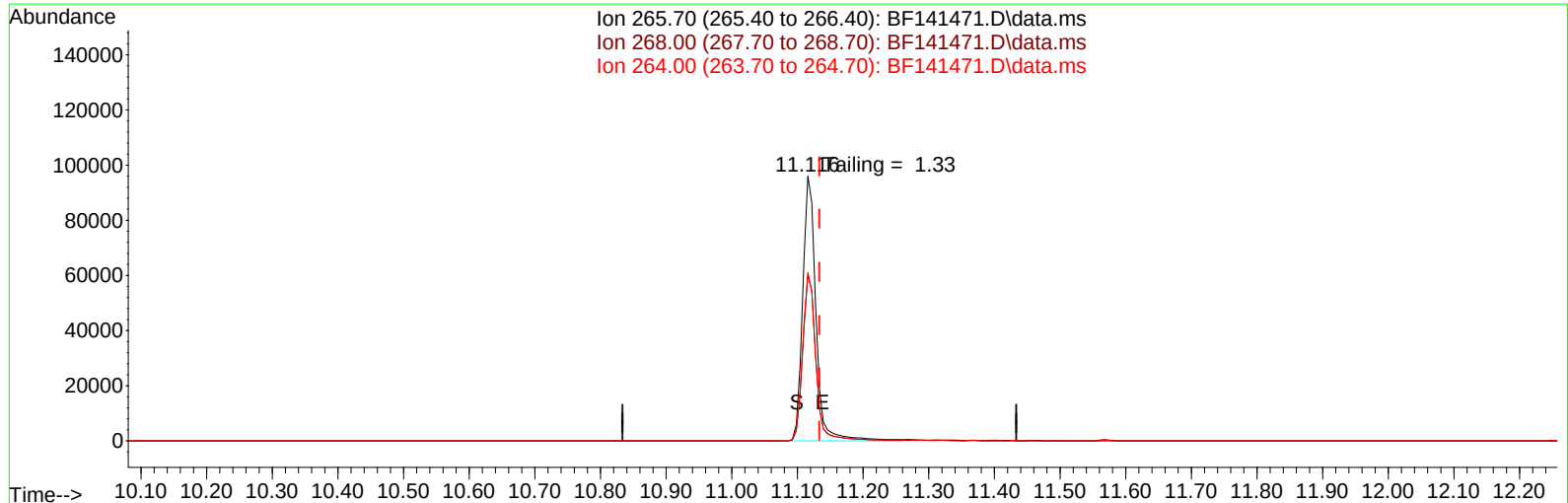
Date	Instrument Name	DFTPP Data File
2/6/2025	BNA_F	<u>BF141471.D</u>
Compound Name	Response	Retention Time
DDT	348871	13.475
DDD	6398	13.204
DDE	521	12.839
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6919	355790	1.94

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 06 13:09:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 13:08:53 2025
Response via : Initial Calibration



TIC: BF141471.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.018) 32915.33 ng

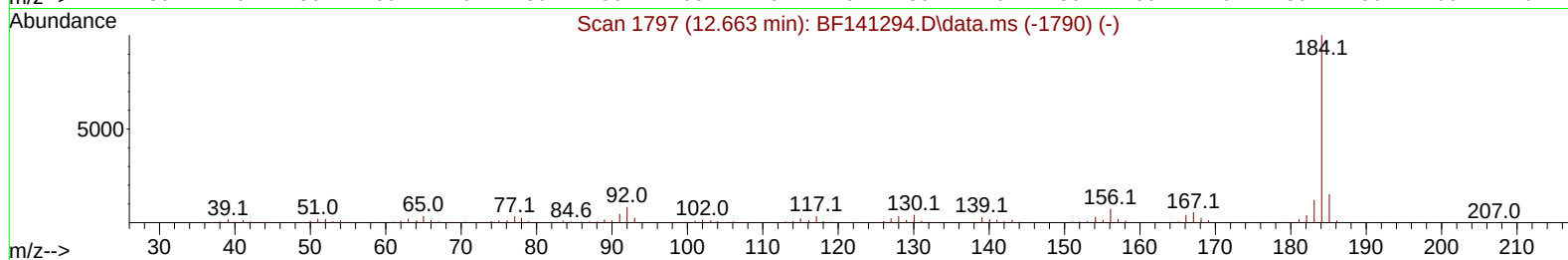
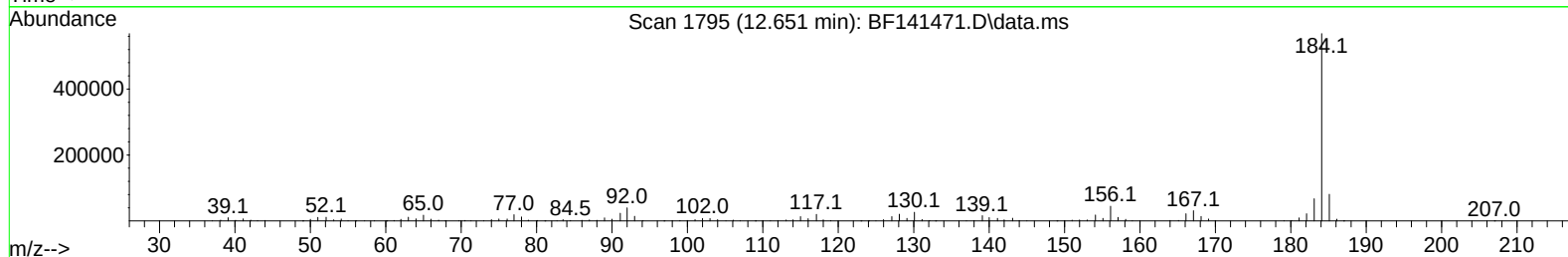
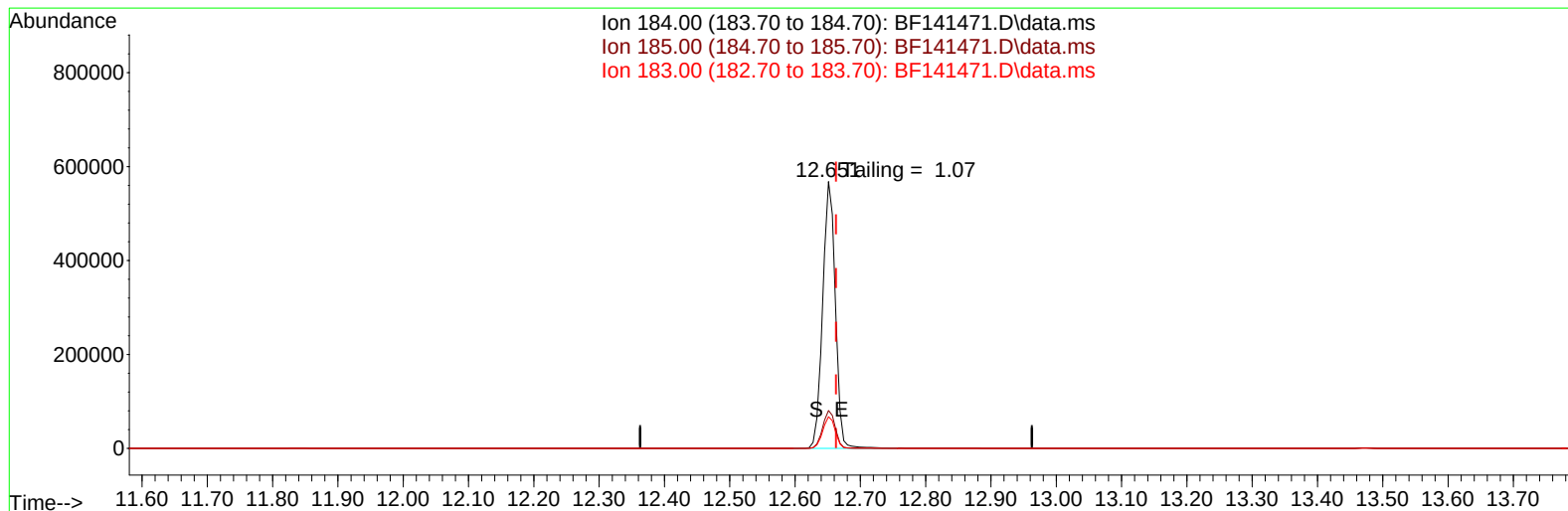
response 135048

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	62.59
264.00	63.70	63.70
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 06 13:09:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 13:08:53 2025
Response via : Initial Calibration



TIC: BF141471.D\data.ms

(77) Benzidine

12.651min (-0.012) 0.00 ng

response 764582

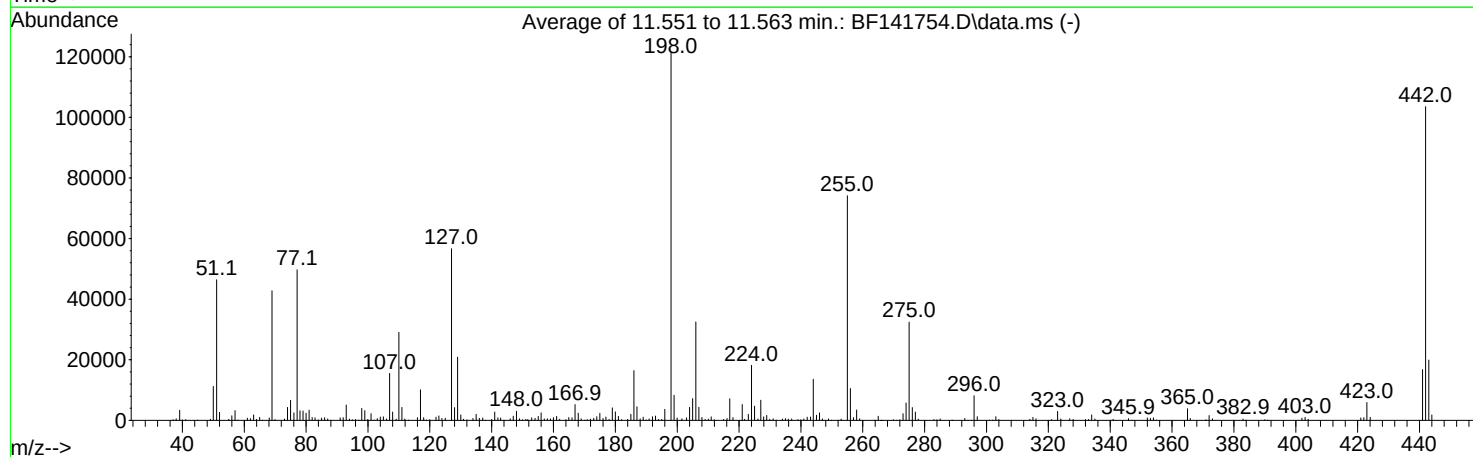
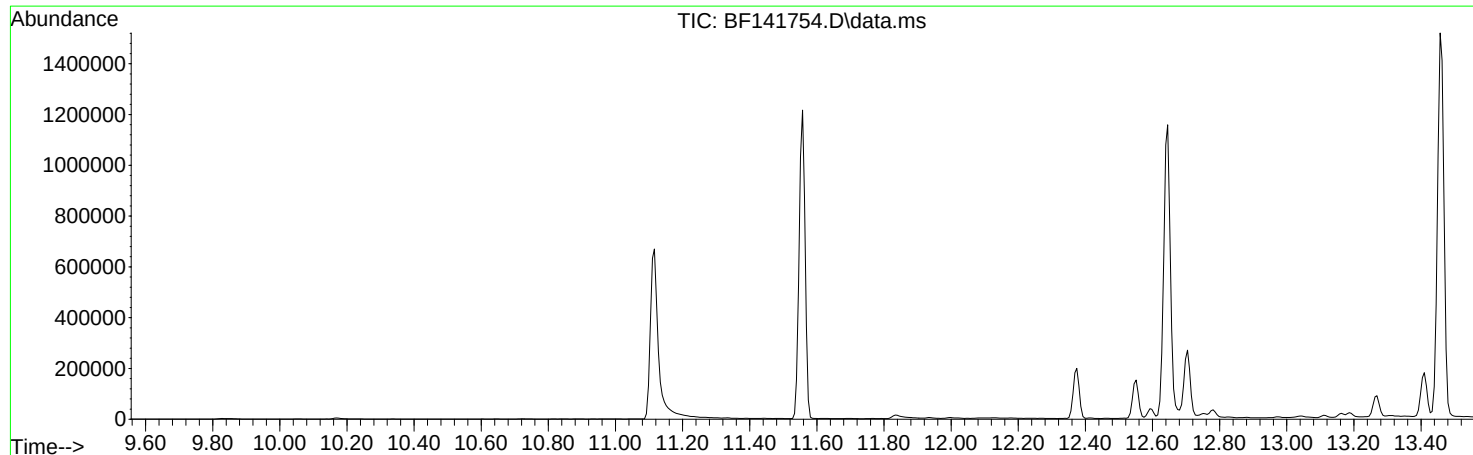
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.21
183.00	11.90	11.88
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141754.D
Acq On : 25 Feb 2025 09:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025



AutoFind: Scans 1608, 1609, 1610; Background Corrected with Scan 1602

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.2	46424	PASS
68	69	0.00	2	1.9	816	PASS
69	198	0.00	100	35.2	42755	PASS
70	69	0.00	2	0.6	249	PASS
127	198	10	80	46.7	56675	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	121405	PASS
199	198	5	9	6.8	8275	PASS
275	198	10	60	26.7	32403	PASS
365	198	1	100	3.2	3833	PASS
441	198	0.01	100	13.8	16753	PASS
442	442	50	100	100.0	103555	PASS
443	442	15	24	19.2	19914	PASS

DDT Breakdown

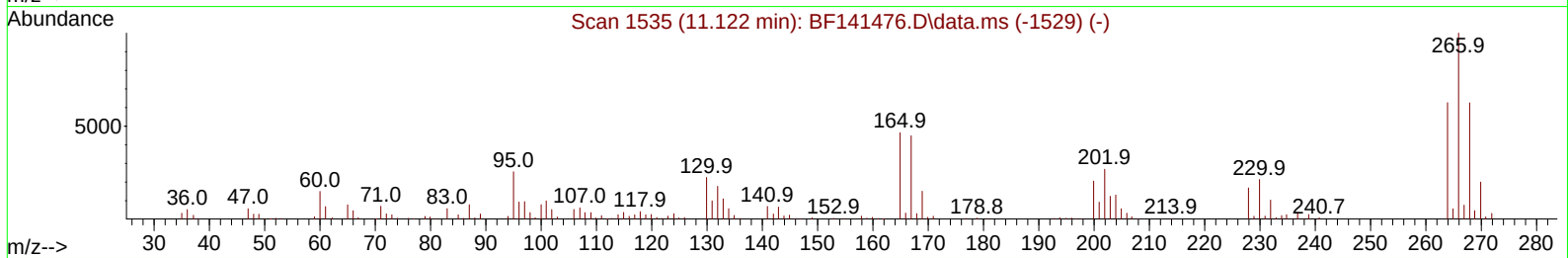
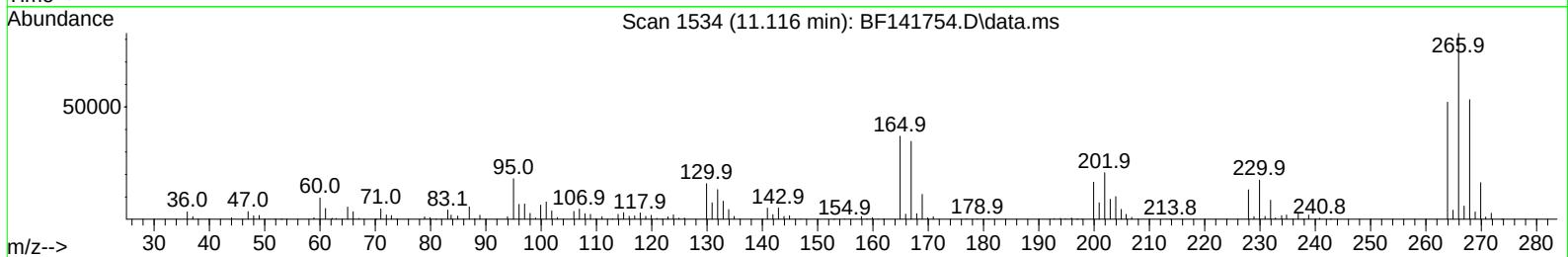
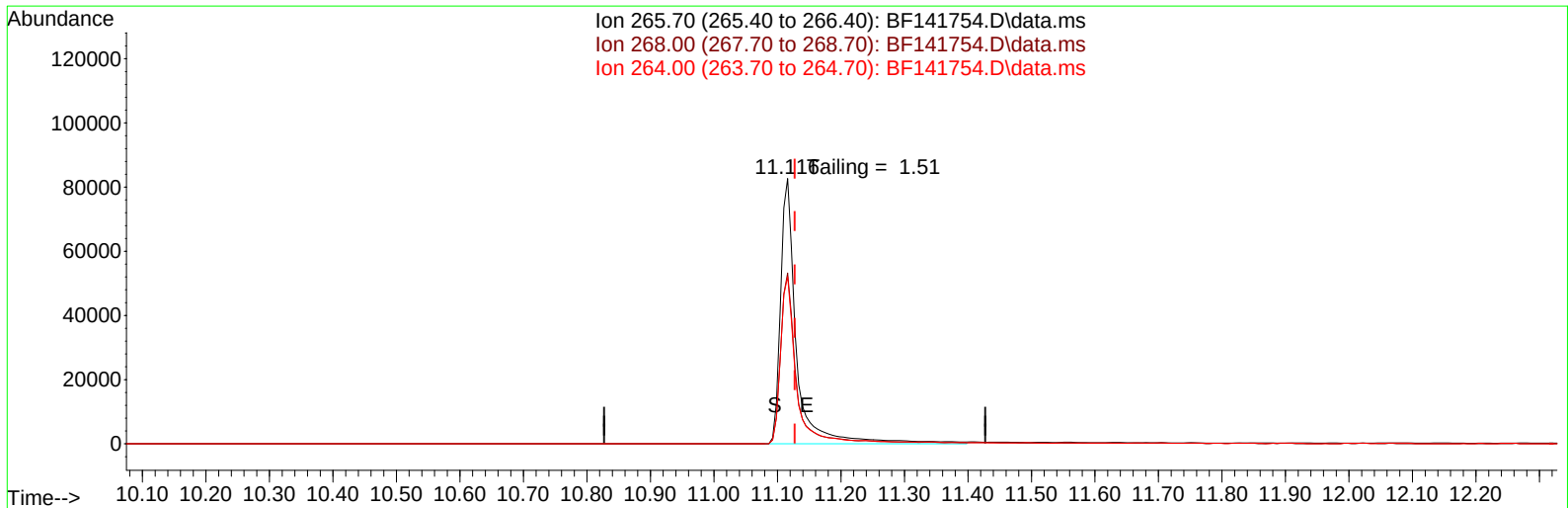
Date	Instrument Name	DFTPP Data File
2/25/2025	BNA_F	<u>BF141754.D</u>
Compound Name	Response	Retention Time
DDT	391181	13.457
DDD	10426	13.186
DDE	753	12.828
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11179	402360	2.78

Instrument :
BNA_F
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141754.D
Acq On : 25 Feb 2025 09:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 25 09:54:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



TIC: BF141754.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.011) 155220.49 ng

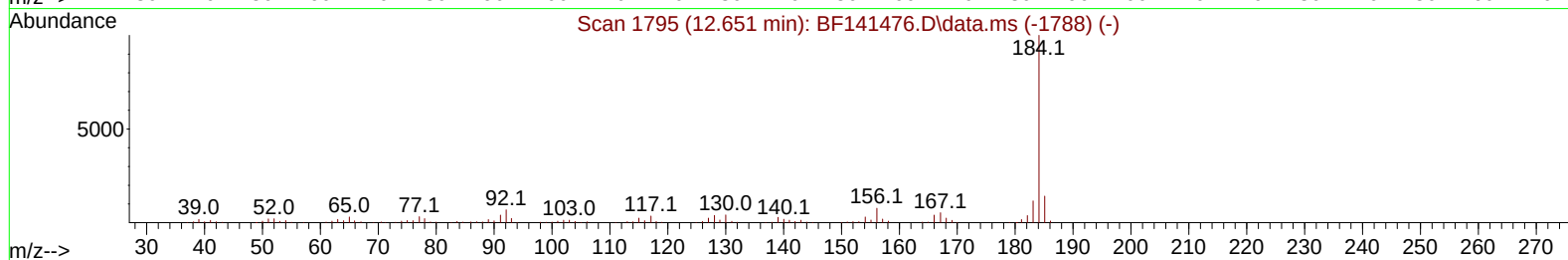
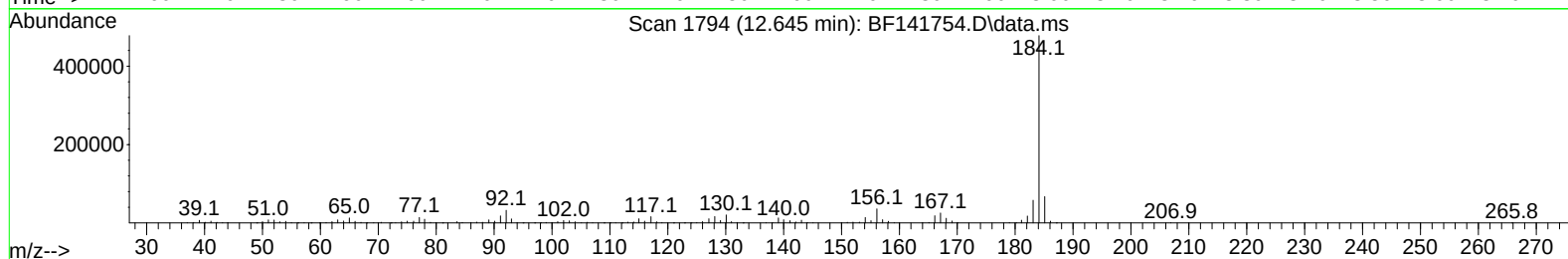
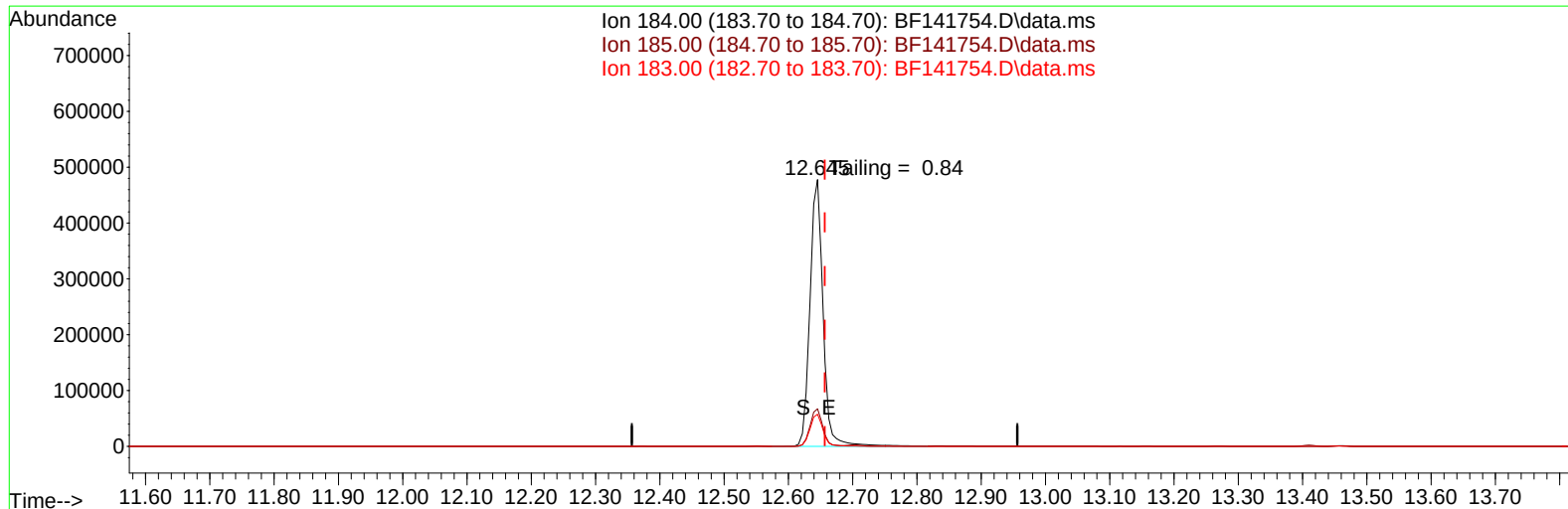
response 143922

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.60	64.39
264.00	62.60	63.03
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
Data File : BF141754.D
Acq On : 25 Feb 2025 09:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 25 09:54:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



TIC: BF141754.D\data.ms

(77) Benzidine

12.645min (-0.012) 0.00 ng

response 681801

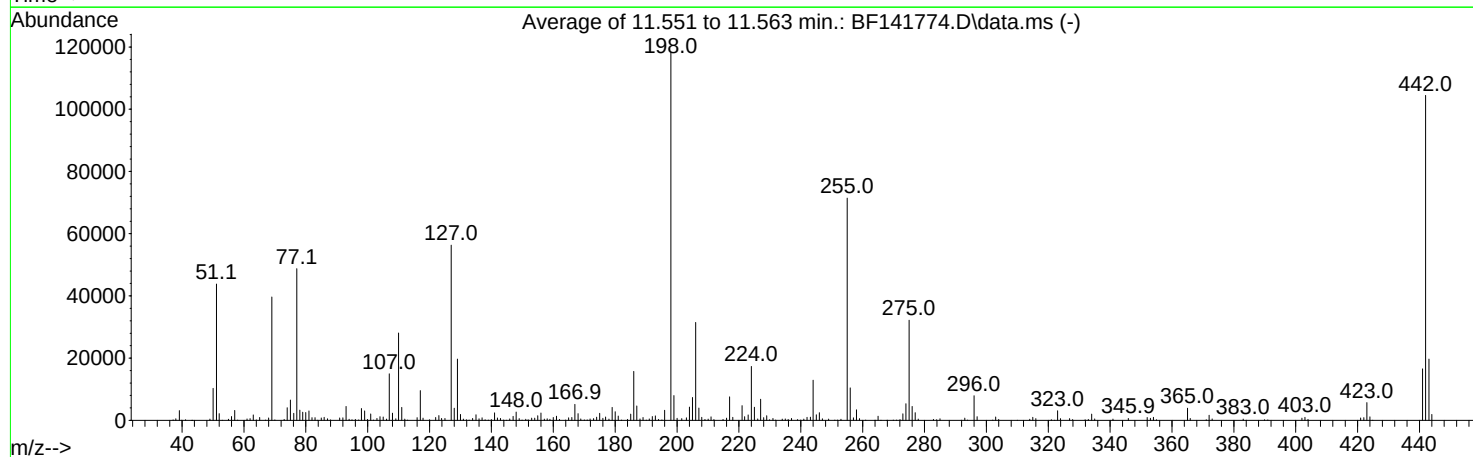
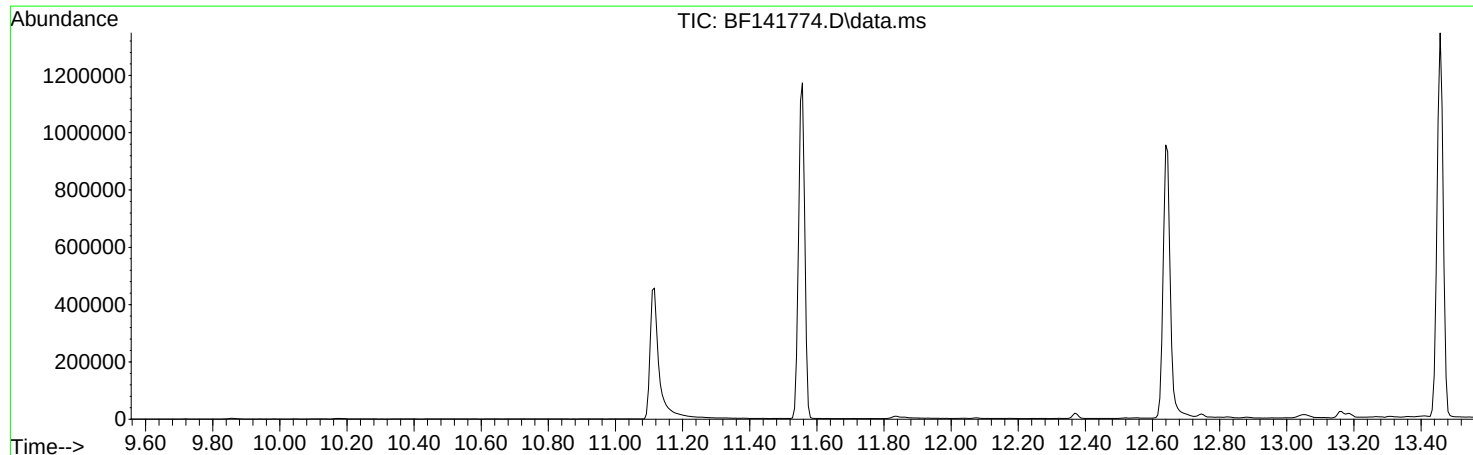
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.09
183.00	11.60	12.08
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141774.D
Acq On : 26 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Feb 06 16:58:59 2025



AutoFind: Scans 1608, 1609, 1610; Background Corrected with Scan 1601

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.0	43792	PASS
68	69	0.00	2	1.9	769	PASS
69	198	0.00	100	33.5	39664	PASS
70	69	0.00	2	0.4	146	PASS
127	198	10	80	47.6	56291	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	118229	PASS
199	198	5	9	6.8	7983	PASS
275	198	10	60	27.2	32213	PASS
365	198	1	100	3.3	3888	PASS
441	198	0.01	100	14.0	16583	PASS
442	442	50	100	100.0	104443	PASS
443	442	15	24	18.9	19701	PASS

DDT Breakdown

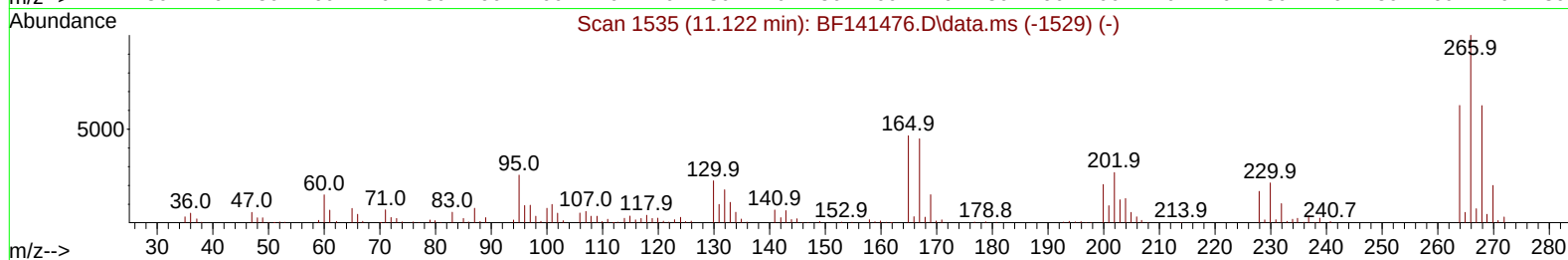
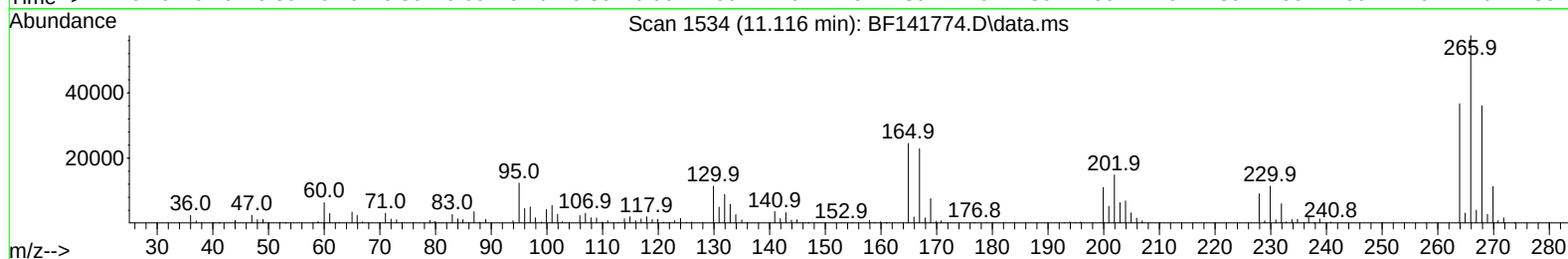
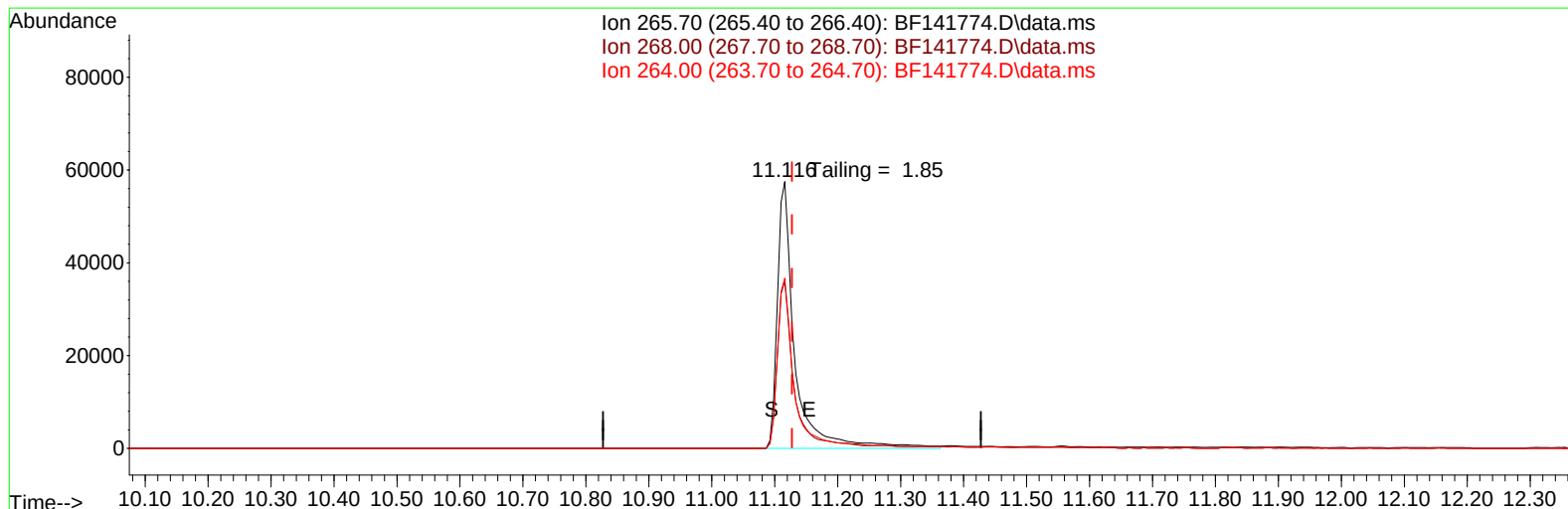
Date	Instrument Name	DFTPP Data File
2/26/2025	BNA_F	<u>BF141774.D</u>
Compound Name	Response	Retention Time
DDT	345364	13.457
DDD	14023	13.163
DDE	1091	12.827
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
15114	360478	4.19

Instrument :
BNA_F
ClientSampleId :
DFTPP

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\  
Data File : BF141774.D  
Acq On    : 26 Feb 2025  10:16  
Operator  : RC/JU  
Sample    : DFTPP  
Misc      :  
ALS Vial  : 1    Sample Multiplier: 1
```

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 26 11:20:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



TIC: BF141774.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.012) 20690.83 ng

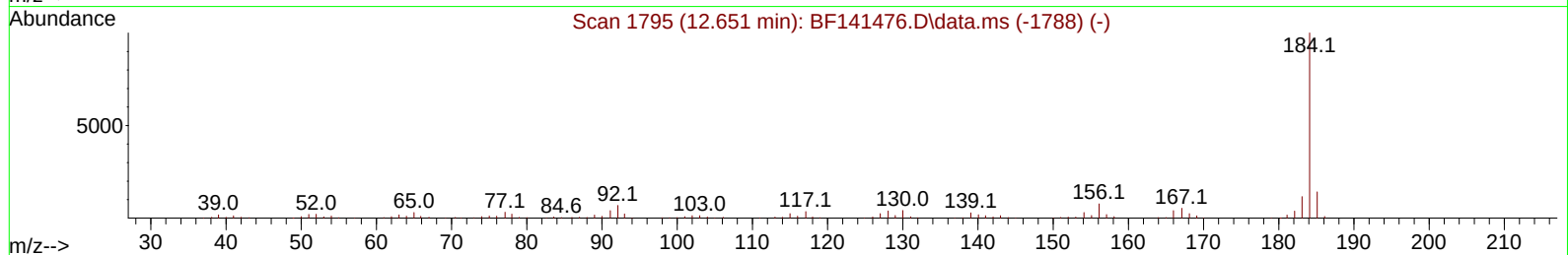
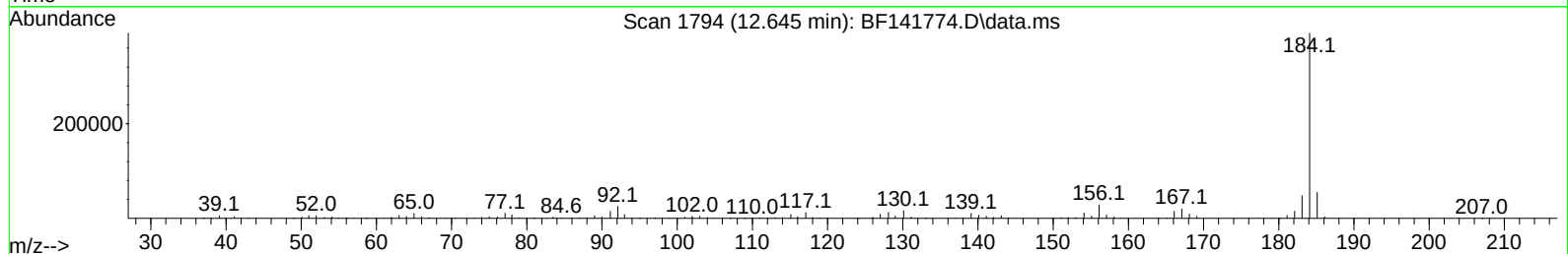
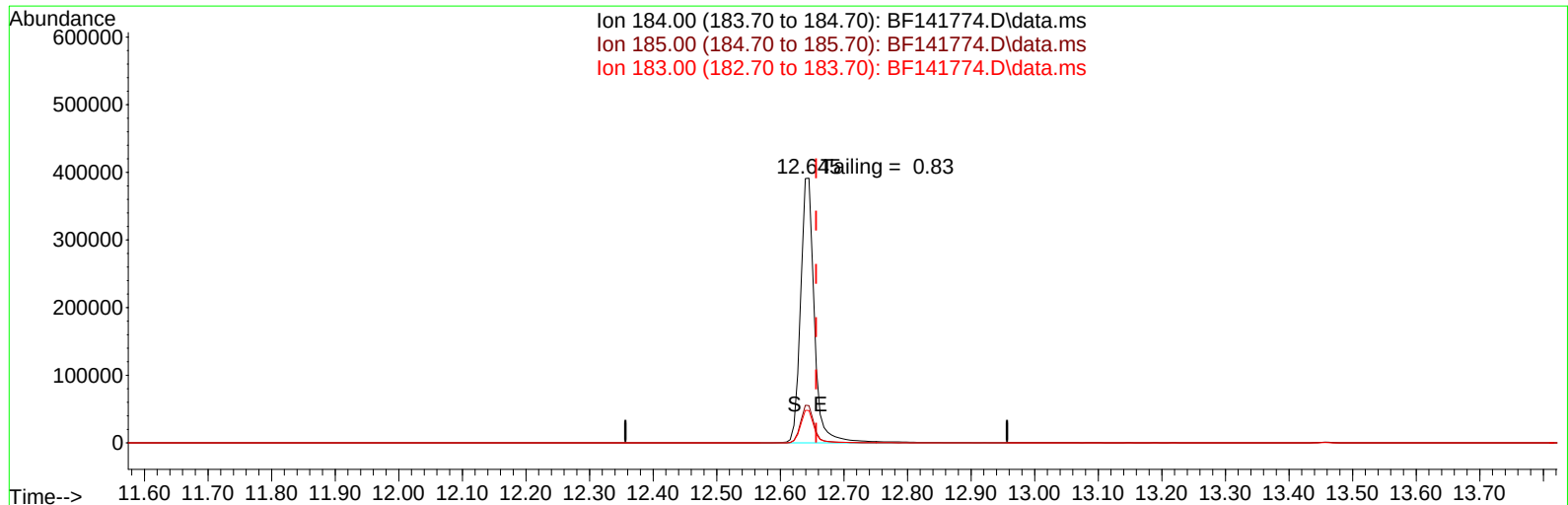
response **111911**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.60	62.57
264.00	62.60	63.80
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141774.D
Acq On : 26 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 26 11:20:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



TIC: BF141774.D\data.ms

(77) Benzidine

12.645min (-0.012) 57427.54 ng

response 596534

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.12
183.00	11.60	12.25
0.00	0.00	0.00

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BL	SDG No.:	Q1415
Lab Sample ID:	PB166853BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141776.D	1	02/25/25 09:30	02/26/25 11:49	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		30 (18) - 130 (112)	94%	SPK: 150
13127-88-3	Phenol-d6	133		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.7		30 (18) - 130 (107)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.0		30 (20) - 130 (109)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	104		30 (10) - 130 (105)	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81300	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	178000	9.816			
1517-22-2	Phenanthrene-d10	318000	11.298			
1719-03-5	Chrysene-d12	217000	13.939			
1520-96-3	Perylene-d12	172000	15.386			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	81286	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	323646	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	177621	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	318142	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	217249	20.000	ng	-0.02
86) Perylene-d12	15.386	264	172479	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	728584	140.520	ng	0.00
7) Phenol-d6	6.428	99	871422	132.975	ng	-0.01
23) Nitrobenzene-d5	7.345	82	562566	90.662	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	241346	135.262	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1118399	97.007	ng	-0.01
79) Terphenyl-d14	12.886	244	1339199	104.065	ng	-0.02

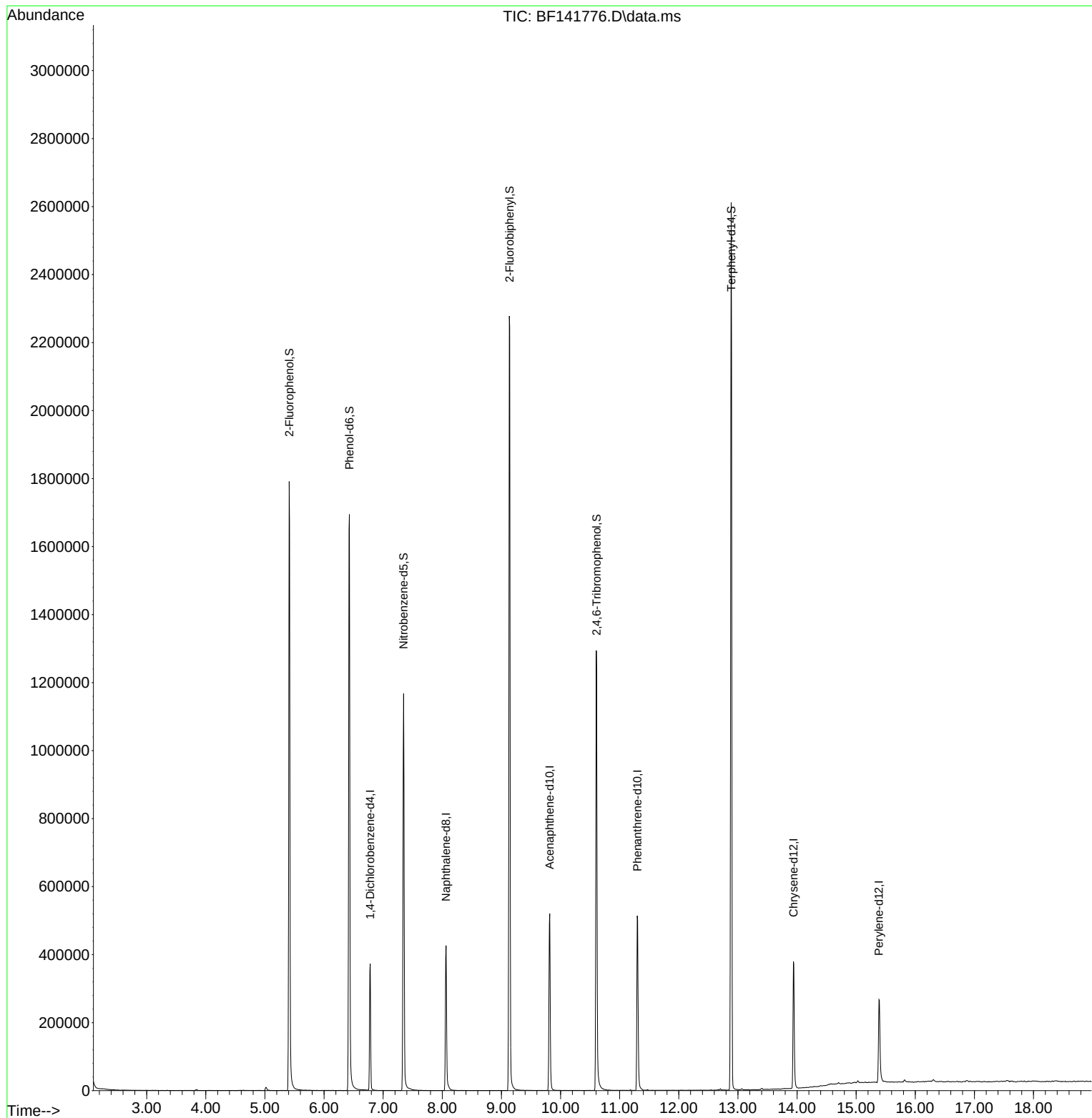
Target Compounds	Qvalue

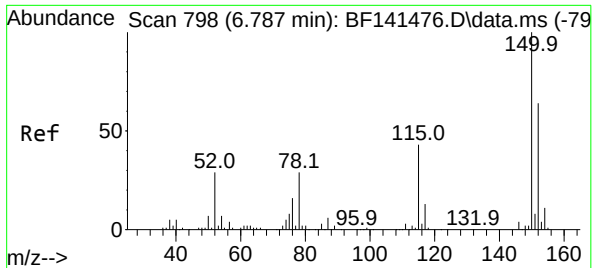
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Time: Feb 26 12:11:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

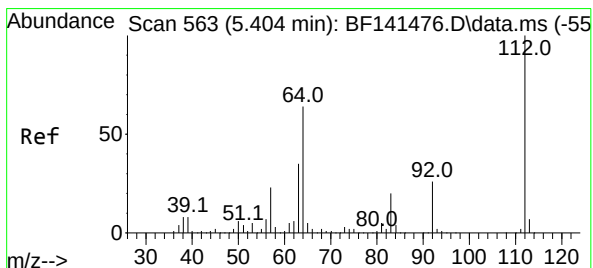
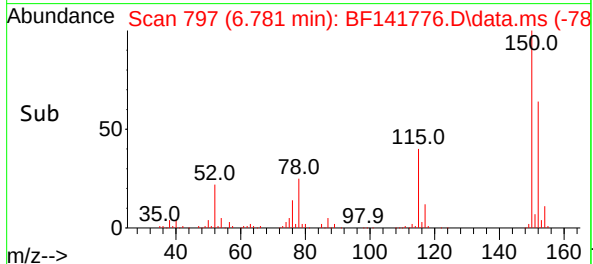
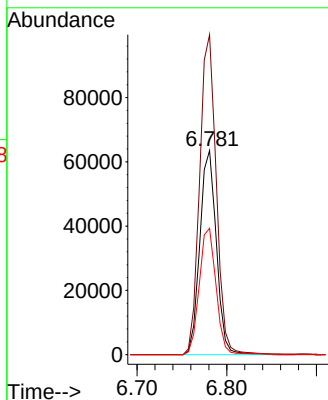
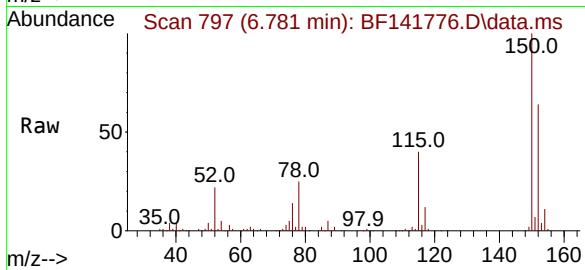




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

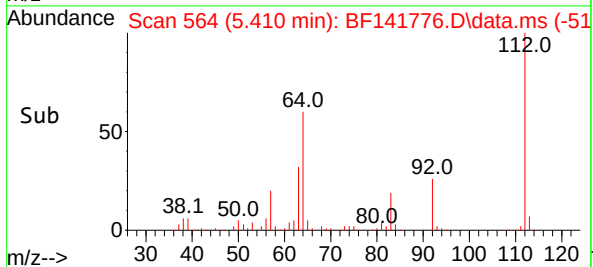
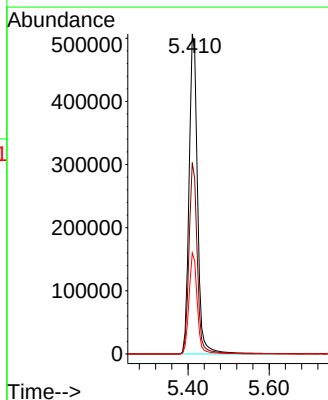
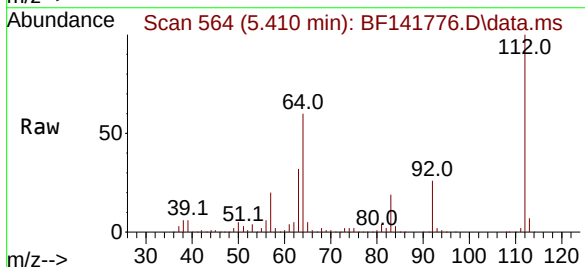
Instrument :
BNA_F
ClientSampleId :
PB166853BL

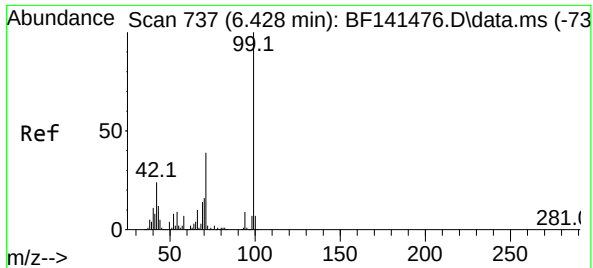
Tgt Ion:152 Resp: 81286
Ion Ratio Lower Upper
152 100
150 156.7 125.0 187.4
115 61.9 53.6 80.4



#5
2-Fluorophenol
Concen: 140.520 ng
RT: 5.410 min Scan# 564
Delta R.T. 0.000 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:112 Resp: 728584
Ion Ratio Lower Upper
112 100
64 59.8 51.1 76.7
63 31.6 28.4 42.6

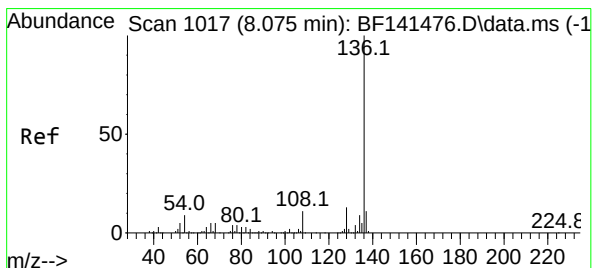
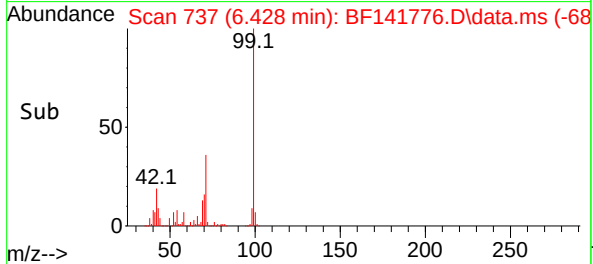
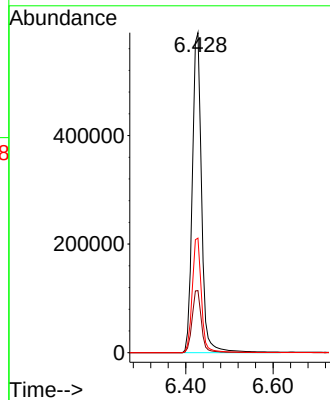
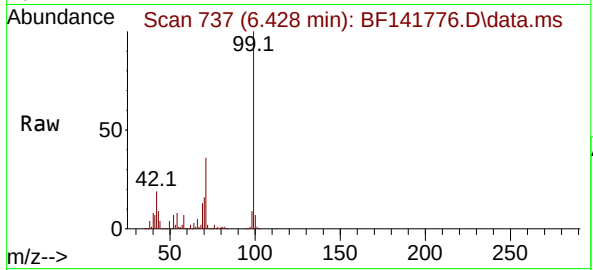




#7
Phenol-d6
Concen: 132.975 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

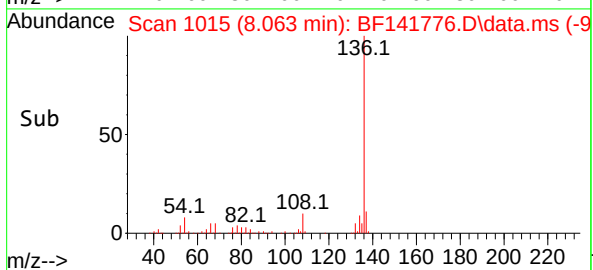
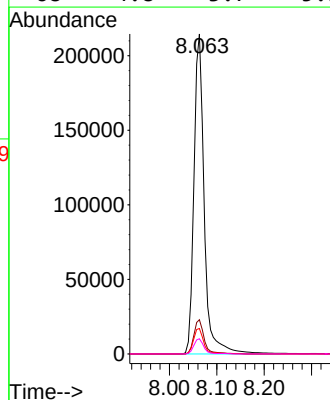
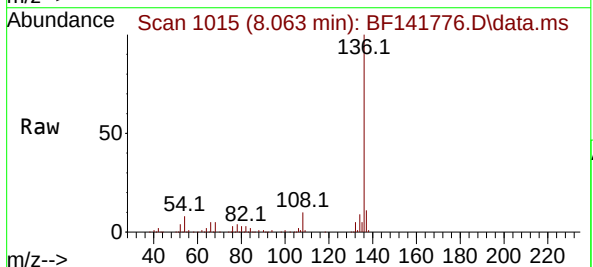
Instrument :
BNA_F
ClientSampleId :
PB166853BL

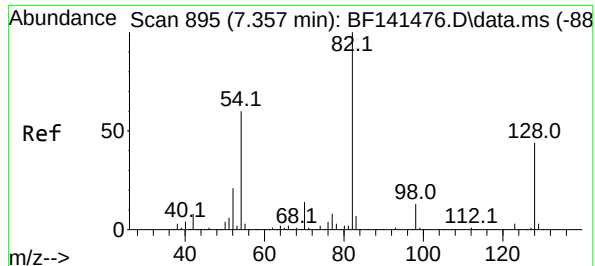
Tgt Ion: 99 Resp: 871422
Ion Ratio Lower Upper
99 100
42 19.4 19.1 28.7
71 35.8 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:136 Resp: 323646
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 7.9 7.2 10.8
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 90.662 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF141776.D

Acq: 26 Feb 2025 11:49

Instrument :

BNA_F

ClientSampleId :

PB166853BL

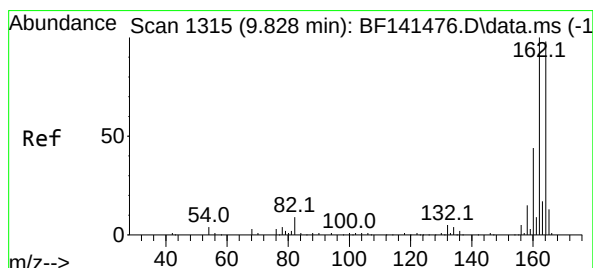
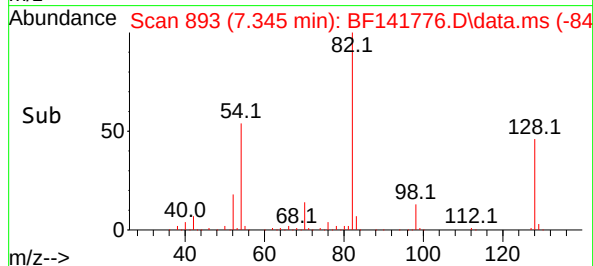
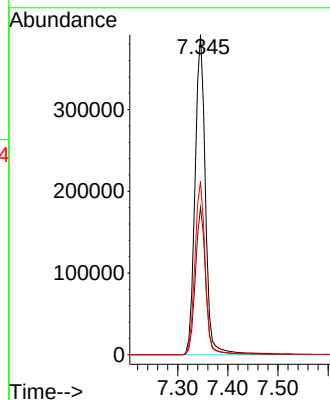
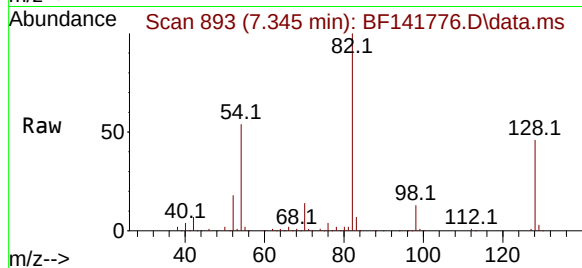
Tgt Ion: 82 Resp: 562566

Ion Ratio Lower Upper

82 100

128 46.1 34.8 52.2

54 54.1 48.2 72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1313

Delta R.T. -0.017 min

Lab File: BF141776.D

Acq: 26 Feb 2025 11:49

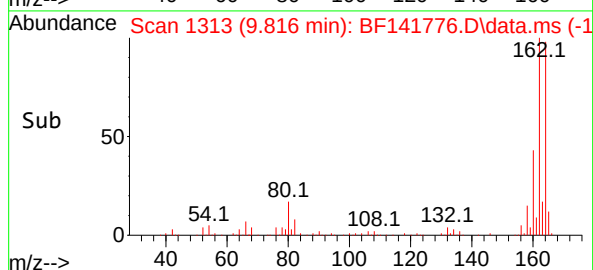
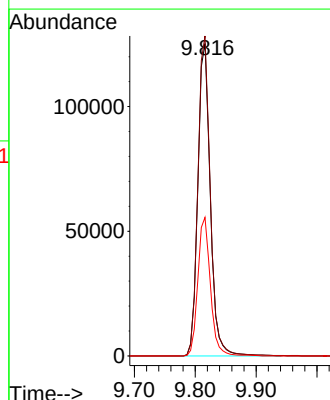
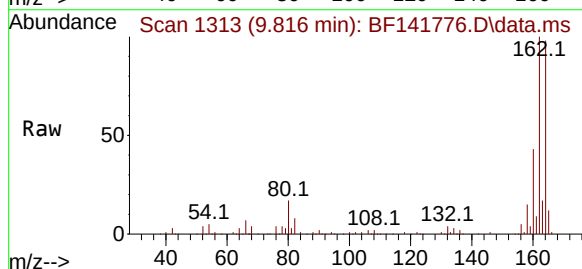
Tgt Ion:164 Resp: 177621

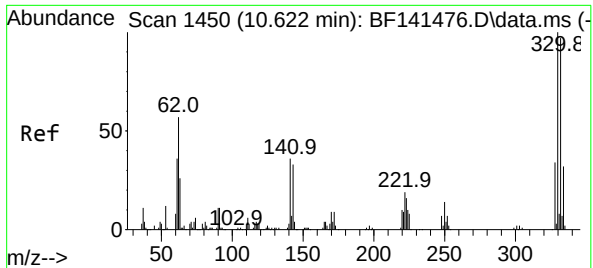
Ion Ratio Lower Upper

164 100

162 102.4 81.3 121.9

160 44.4 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 135.262 ng

RT: 10.610 min Scan# 1450

Delta R.T. -0.017 min

Lab File: BF141776.D

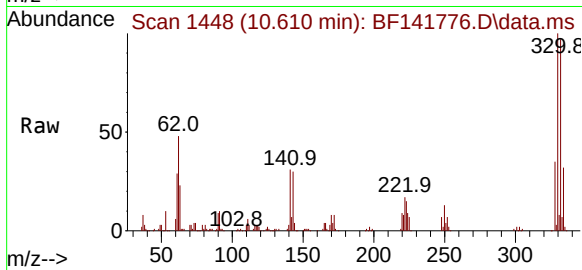
Acq: 26 Feb 2025 11:49

Instrument :

BNA_F

ClientSampleId :

PB166853BL



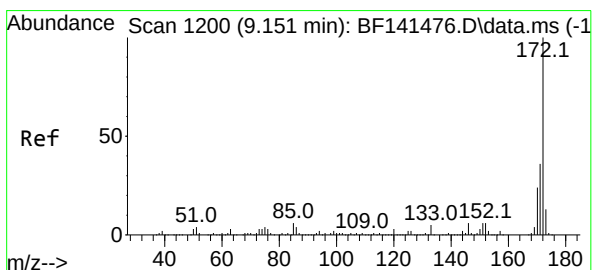
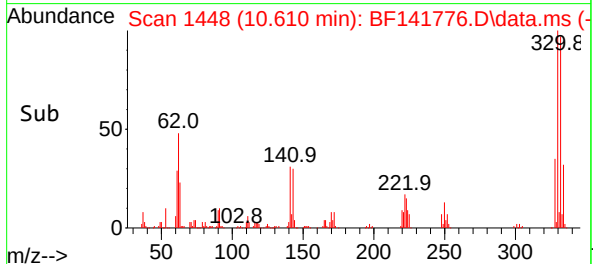
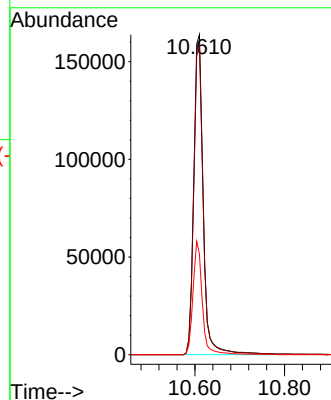
Tgt Ion:330 Resp: 241346

Ion Ratio Lower Upper

330 100

332 97.1 78.5 117.7

141 34.8 31.0 46.4



#45

2-Fluorobiphenyl

Concen: 97.007 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141776.D

Acq: 26 Feb 2025 11:49

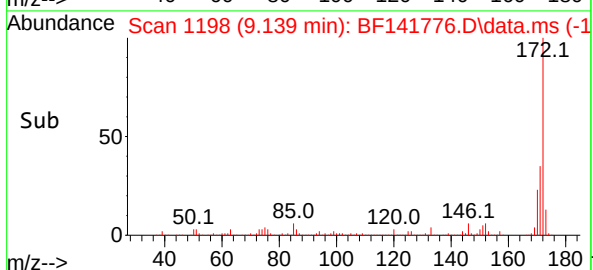
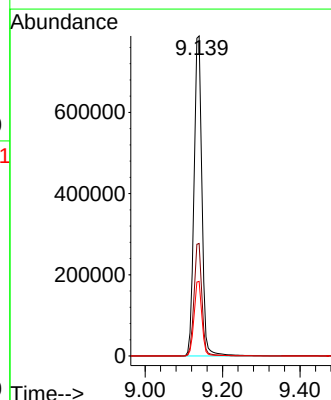
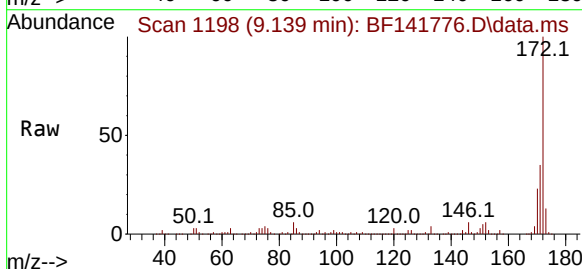
Tgt Ion:172 Resp: 1118399

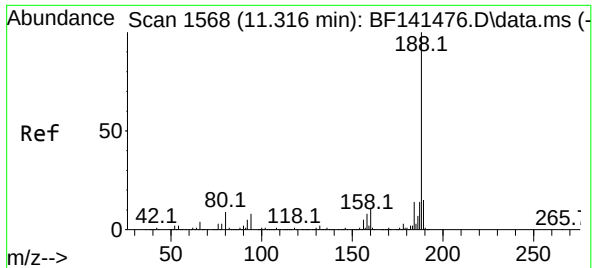
Ion Ratio Lower Upper

172 100

171 35.2 28.7 43.1

170 23.3 18.9 28.3

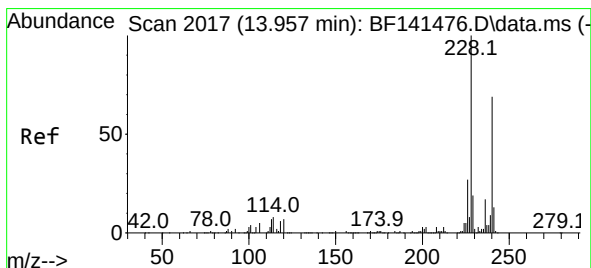
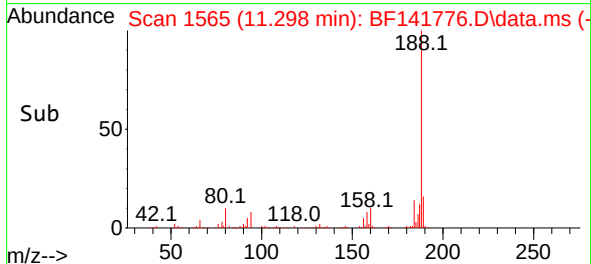
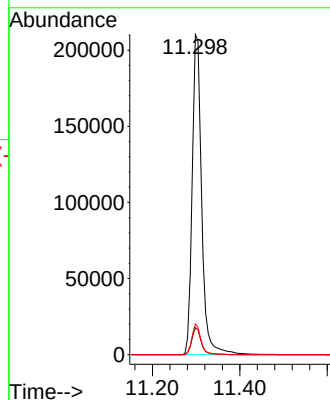
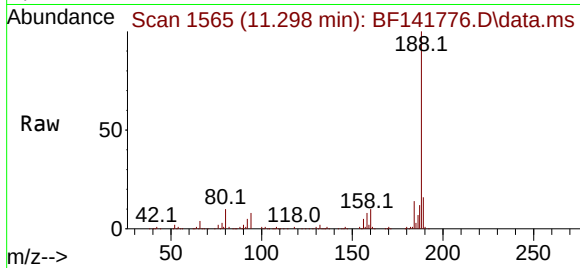




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

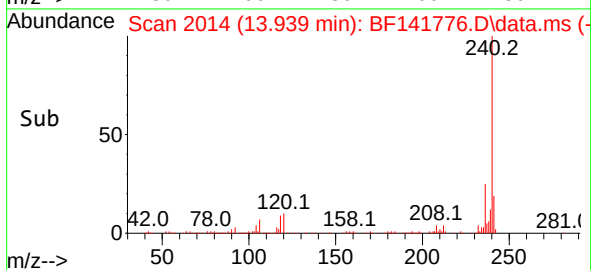
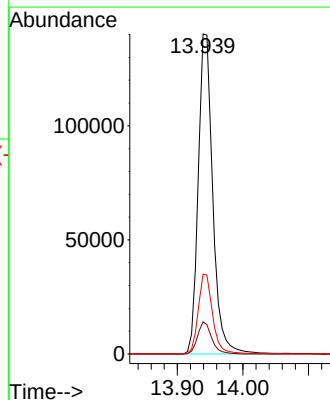
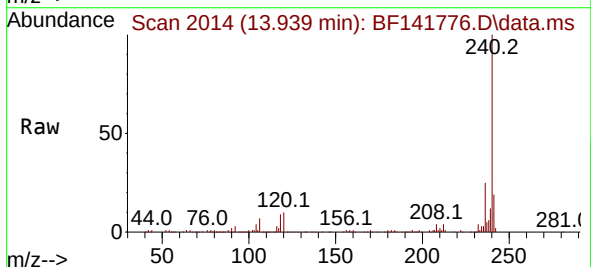
Instrument :
BNA_F
ClientSampleId :
PB166853BL

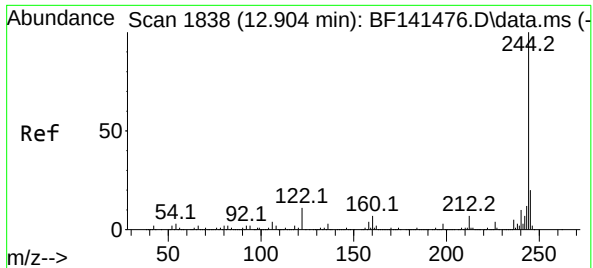
Tgt Ion:188 Resp: 318142
Ion Ratio Lower Upper
188 100
94 8.5 6.6 10.0
80 9.6 7.3 10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141776.D
Acq: 26 Feb 2025 11:49

Tgt Ion:240 Resp: 217249
Ion Ratio Lower Upper
240 100
120 10.0 8.0 12.0
236 24.9 19.8 29.8





#79

Terphenyl-d14

Concen: 104.065 ng

RT: 12.886 min Scan# 11

Delta R.T. -0.017 min

Lab File: BF141776.D

Acq: 26 Feb 2025 11:49

Instrument :

BNA_F

ClientSampleId :

PB166853BL

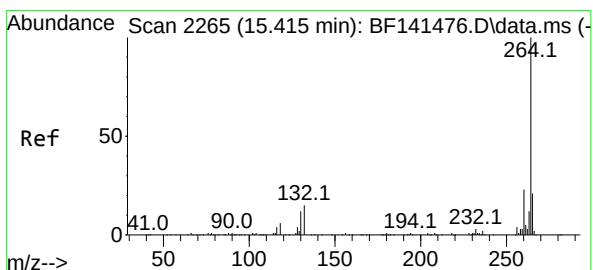
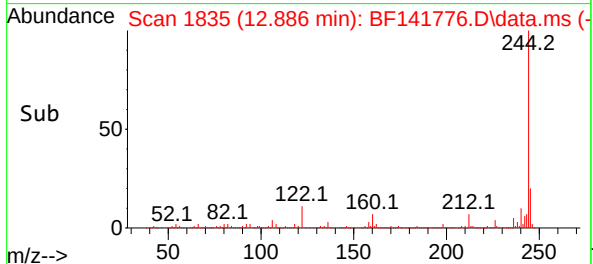
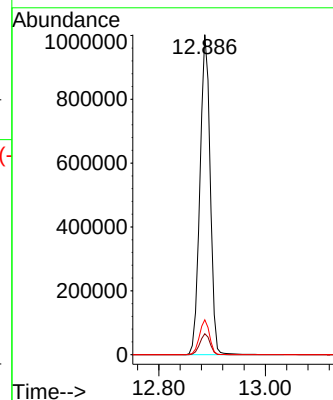
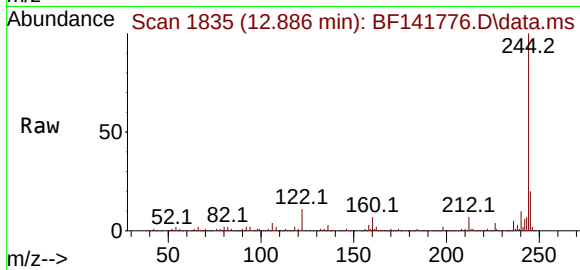
Tgt Ion:244 Resp: 1339199

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

122 10.9 8.4 12.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.386 min Scan# 2260

Delta R.T. -0.029 min

Lab File: BF141776.D

Acq: 26 Feb 2025 11:49

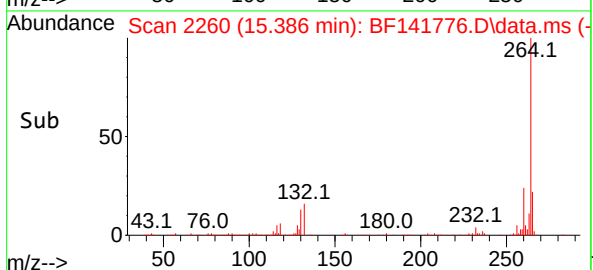
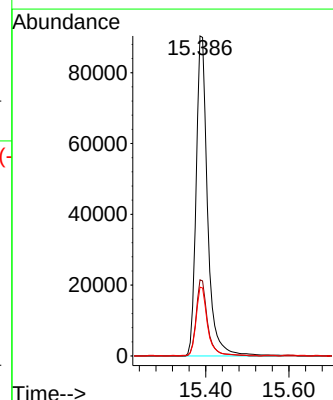
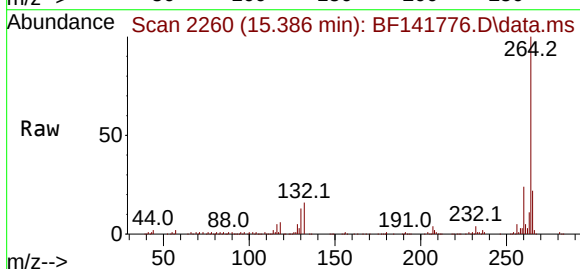
Tgt Ion:264 Resp: 172479

Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 21.5 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141776.D
 Acq On : 26 Feb 2025 11:49
 Operator : RC/JU
 Sample : PB166853BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166853BL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141776.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.410	559	564	592	rBV	1791256	2537814	73.52%	13.446%
2	6.428	731	737	771	rBV	1693710	2506219	72.61%	13.279%
3	6.781	792	797	813	rVB	371805	480196	13.91%	2.544%
4	7.345	887	893	922	rBV	1167216	1673975	48.50%	8.869%
5	8.063	1009	1015	1034	rBV	426239	631629	18.30%	3.347%
6	9.134	1191	1197	1231	rBV	2277833	3198026	92.65%	16.945%
7	9.816	1307	1313	1334	rBV	520195	734935	21.29%	3.894%
8	10.604	1442	1447	1479	rBV	1293803	1878893	54.43%	9.955%
9	11.298	1560	1565	1585	rBV	513083	761297	22.06%	4.034%
10	12.886	1829	1835	1840	rBV	2609654	3451671	100.00%	18.288%
11	13.939	2009	2014	2029	rBV	373186	562712	16.30%	2.981%
12	15.386	2254	2260	2272	rBV	243364	456086	13.21%	2.417%

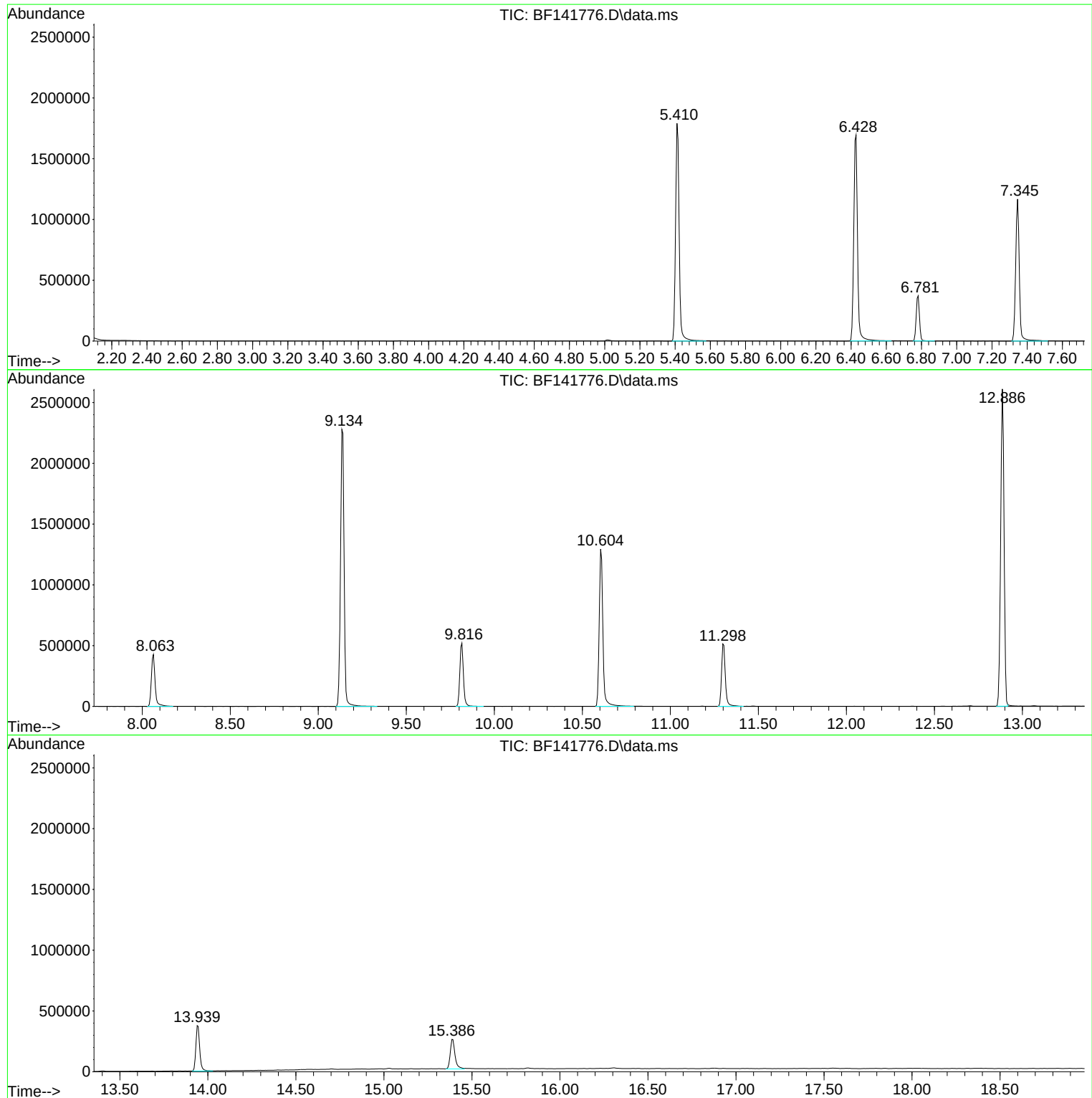
Sum of corrected areas: 18873453

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141776.D
Acq On : 26 Feb 2025 11:49
Operator : RC/JU
Sample : PB166853BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166853BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BL	SDG No.:	Q1415
Lab Sample ID:	PB166875BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141780.D	1	02/26/25 08:45	02/26/25 13:55	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	141		15 (10) - 110 (139)	94%	SPK: 150
13127-88-3	Phenol-d6	136		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.5		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.6		30 (52) - 130 (132)	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76700	6.781			
1146-65-2	Naphthalene-d8	310000	8.063			
15067-26-2	Acenaphthene-d10	172000	9.816			
1517-22-2	Phenanthrene-d10	298000	11.298			
1719-03-5	Chrysene-d12	205000	13.939			
1520-96-3	Perylene-d12	169000	15.386			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Time: Feb 26 14:15:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	76736	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	309972	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	172156	20.000	ng	-0.02
64) Phenanthrene-d10	11.298	188	297565	20.000	ng	-0.02
76) Chrysene-d12	13.939	240	205070	20.000	ng	-0.02
86) Perylene-d12	15.386	264	168978	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	690992	141.172	ng	0.00
7) Phenol-d6	6.428	99	838878	135.599	ng	-0.01
23) Nitrobenzene-d5	7.345	82	543627	91.475	ng	-0.02
42) 2,4,6-Tribromophenol	10.604	330	229764	132.859	ng	-0.02
45) 2-Fluorobiphenyl	9.133	172	1079942	96.645	ng	-0.02
79) Terphenyl-d14	12.886	244	1286585	105.914	ng	-0.02

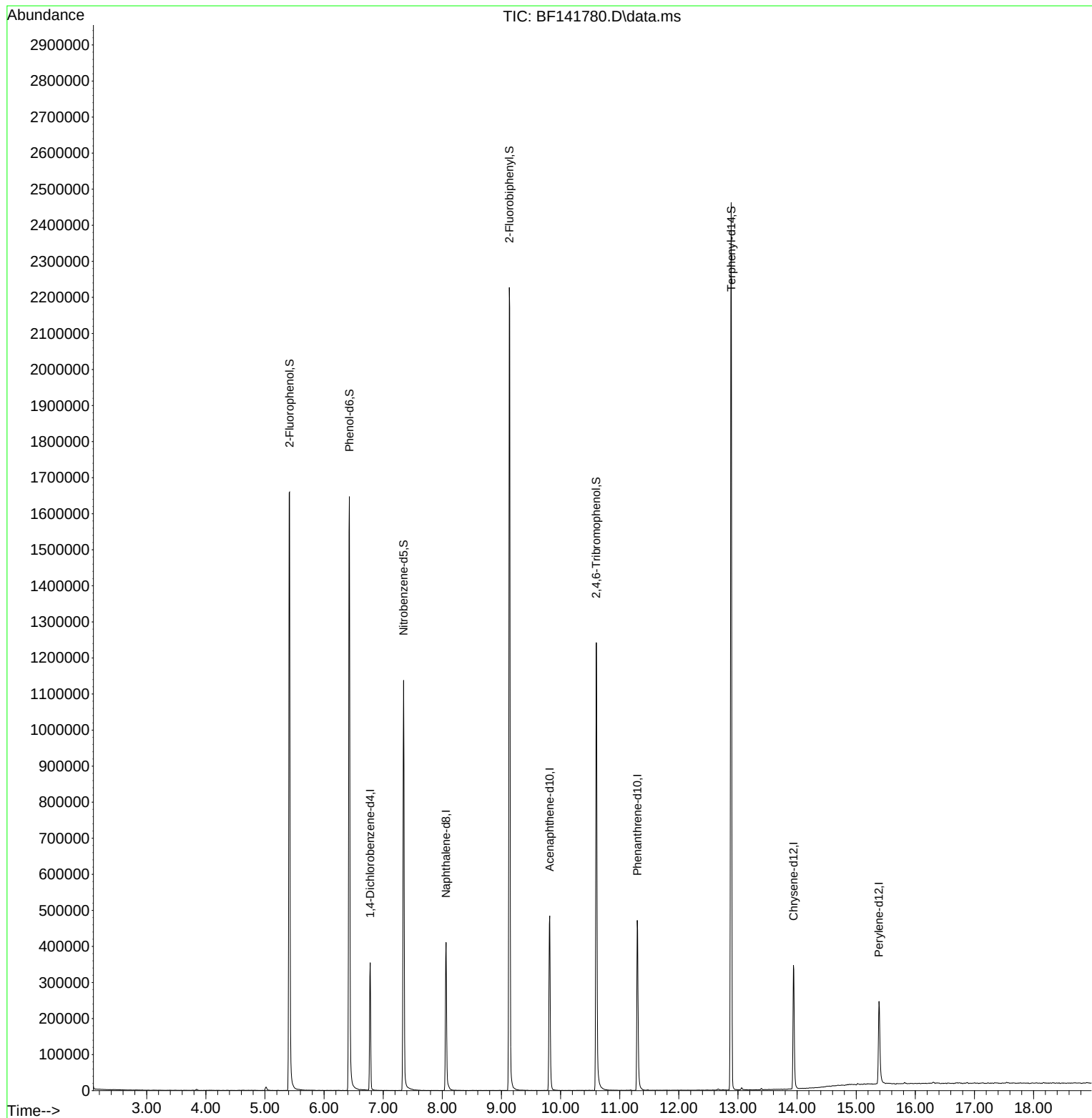
Target Compounds	Qvalue

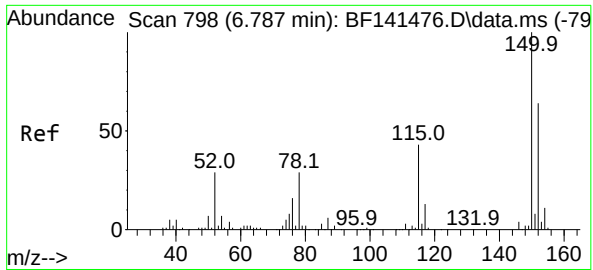
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Time: Feb 26 14:15:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

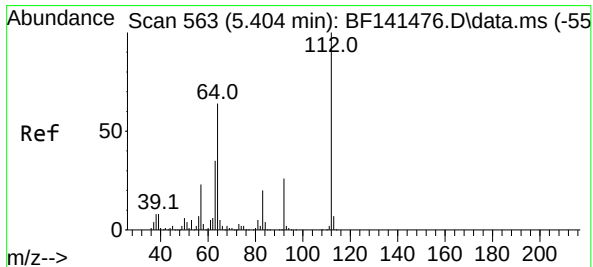
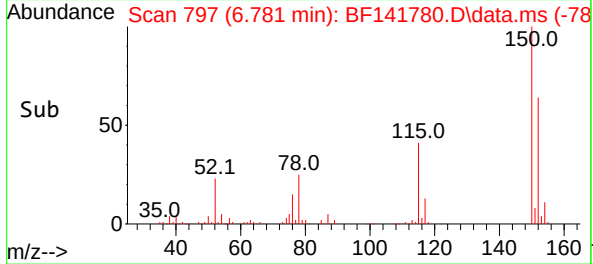
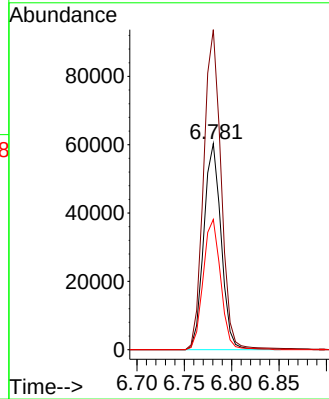
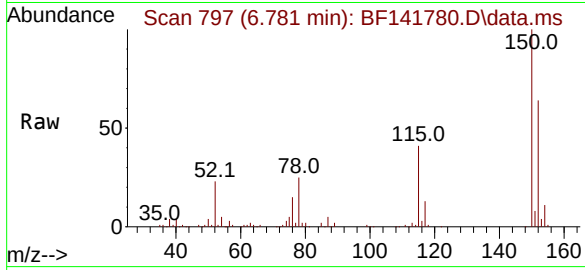




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

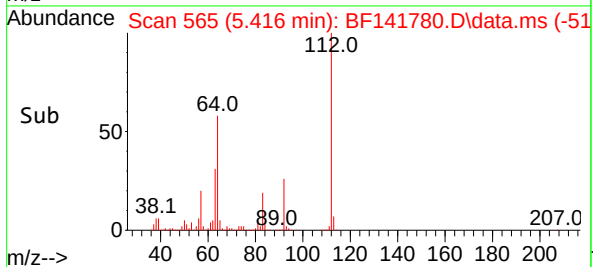
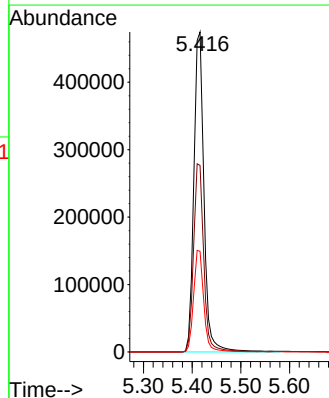
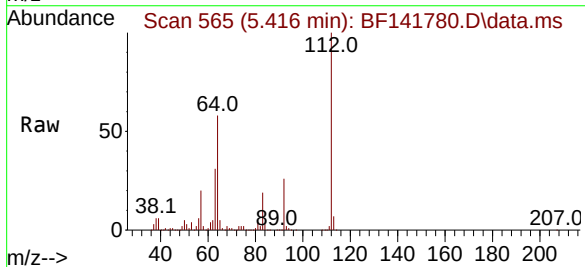
Instrument :
BNA_F
ClientSampleId :
PB166875BL

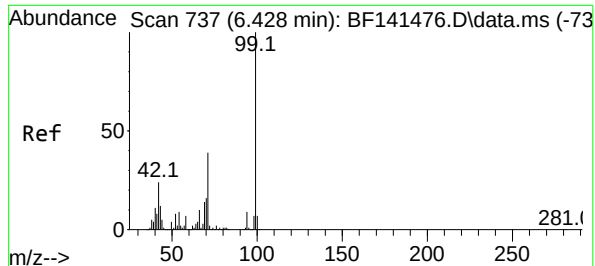
Tgt Ion:152 Resp: 76736
Ion Ratio Lower Upper
152 100
150 155.2 125.0 187.4
115 63.2 53.6 80.4



#5
2-Fluorophenol
Concen: 141.172 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:112 Resp: 690992
Ion Ratio Lower Upper
112 100
64 58.3 51.1 76.7
63 31.4 28.4 42.6

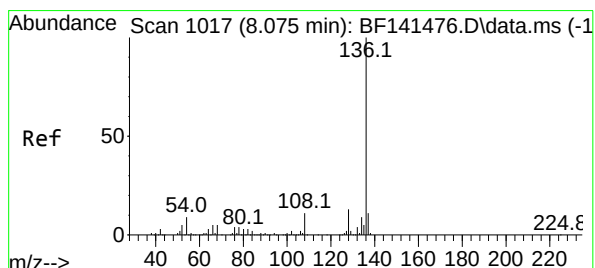
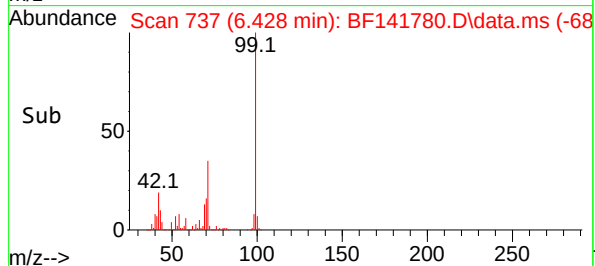
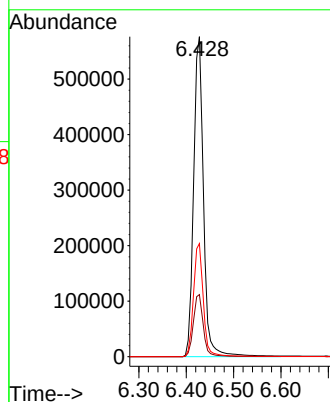
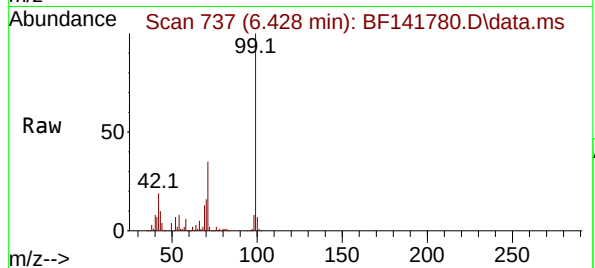




#7
Phenol-d6
Concen: 135.599 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

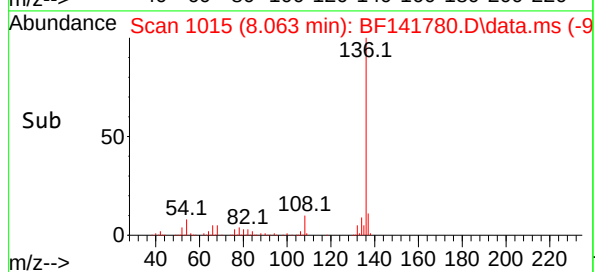
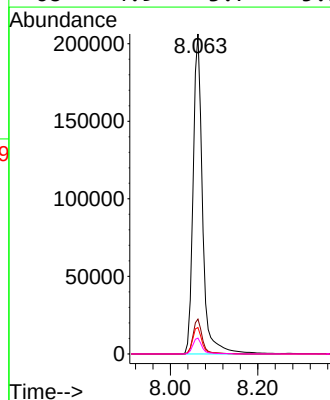
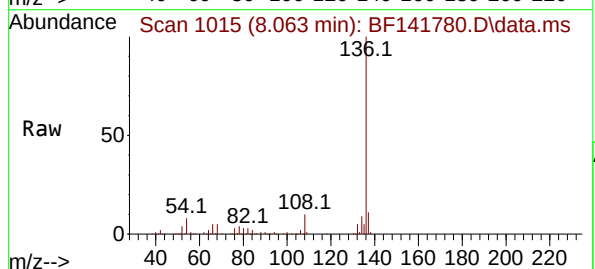
Instrument :
BNA_F
ClientSampleId :
PB166875BL

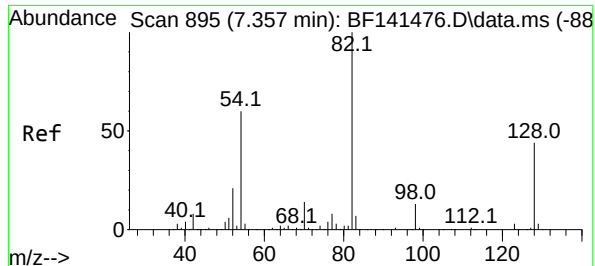
Tgt Ion: 99 Resp: 838878
Ion Ratio Lower Upper
99 100
42 19.4 19.1 28.7
71 35.3 31.1 46.7



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion: 136 Resp: 309972
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 8.3 7.2 10.8
68 4.9 3.7 5.5





#23

Nitrobenzene-d5

Concen: 91.475 ng

RT: 7.345 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141780.D

Acq: 26 Feb 2025 13:55

Instrument :

BNA_F

ClientSampleId :

PB166875BL

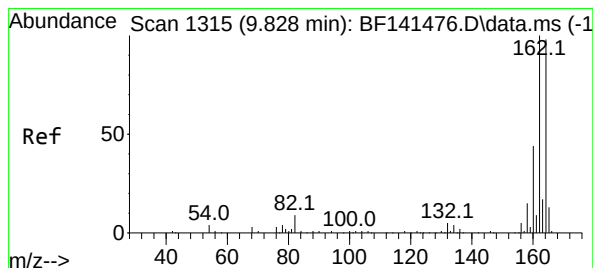
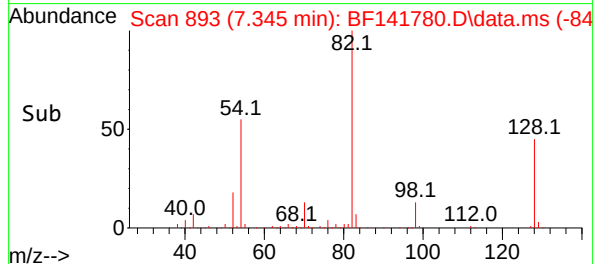
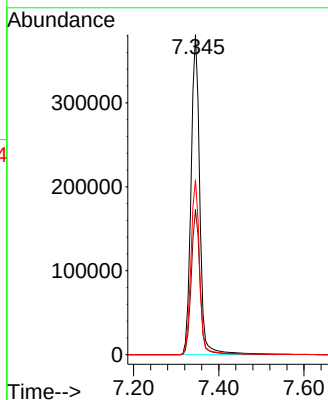
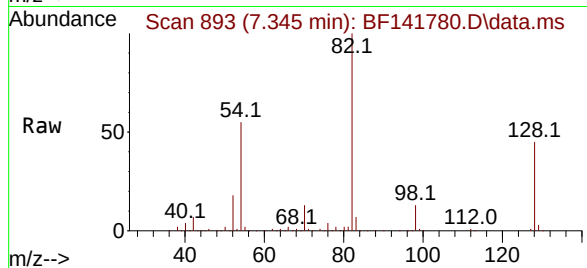
Tgt Ion: 82 Resp: 543627

Ion Ratio Lower Upper

82 100

128 45.4 34.8 52.2

54 54.6 48.2 72.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1313

Delta R.T. -0.018 min

Lab File: BF141780.D

Acq: 26 Feb 2025 13:55

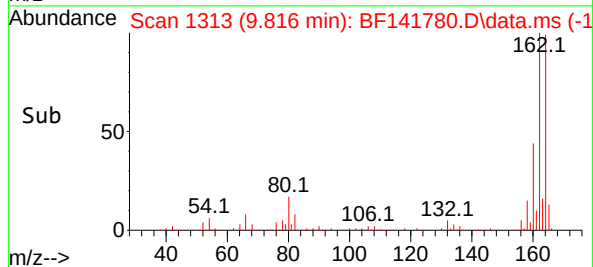
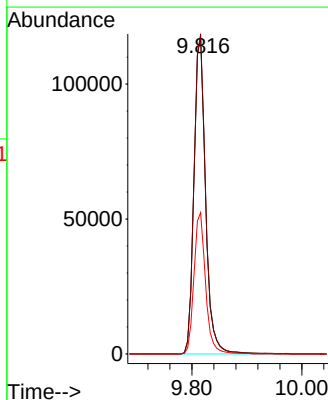
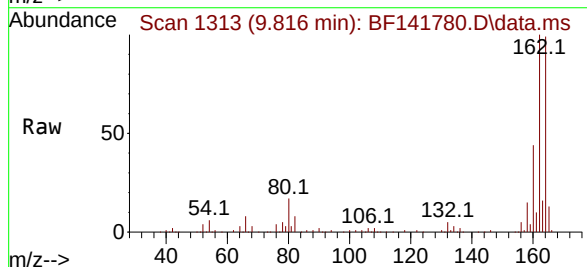
Tgt Ion:164 Resp: 172156

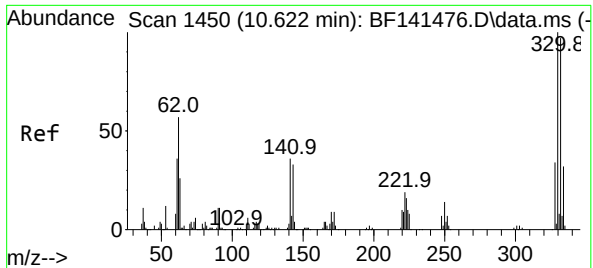
Ion Ratio Lower Upper

164 100

162 101.0 81.3 121.9

160 44.6 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 132.859 ng

RT: 10.604 min Scan# 1447

Delta R.T. -0.023 min

Lab File: BF141780.D

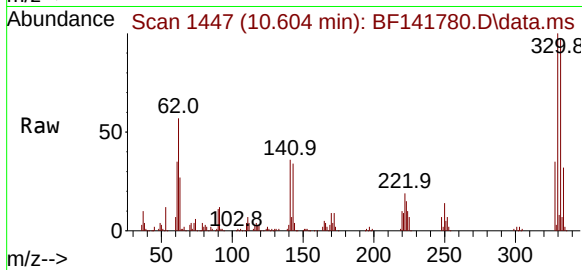
Acq: 26 Feb 2025 13:55

Instrument :

BNA_F

ClientSampleId :

PB166875BL



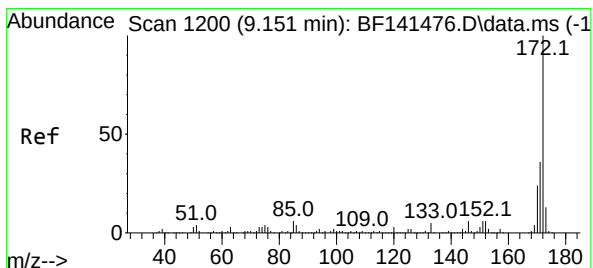
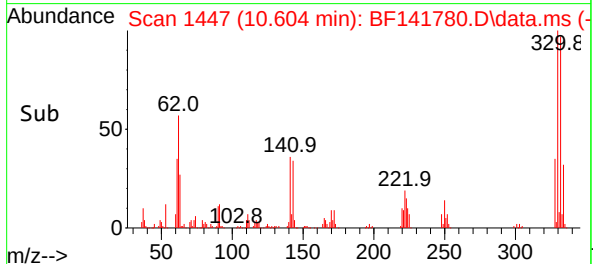
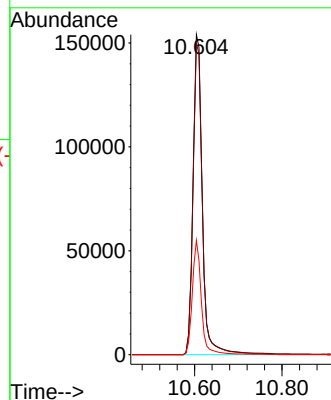
Tgt Ion:330 Resp: 229764

Ion Ratio Lower Upper

330 100

332 97.4 78.5 117.7

141 34.7 31.0 46.4



#45

2-Fluorobiphenyl

Concen: 96.645 ng

RT: 9.133 min Scan# 1197

Delta R.T. -0.018 min

Lab File: BF141780.D

Acq: 26 Feb 2025 13:55

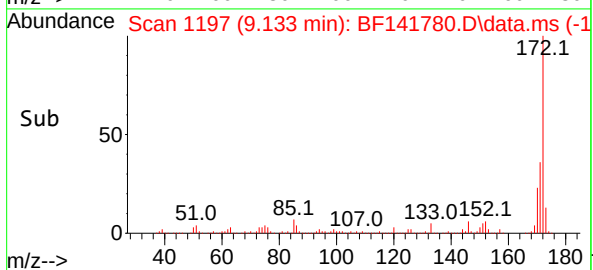
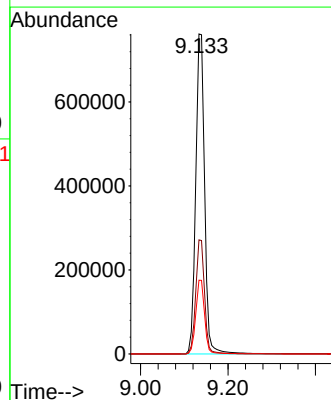
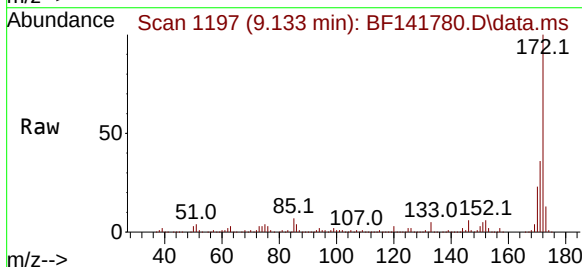
Tgt Ion:172 Resp: 1079942

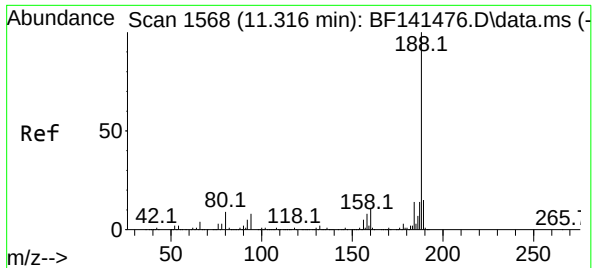
Ion Ratio Lower Upper

172 100

171 35.7 28.7 43.1

170 23.1 18.9 28.3

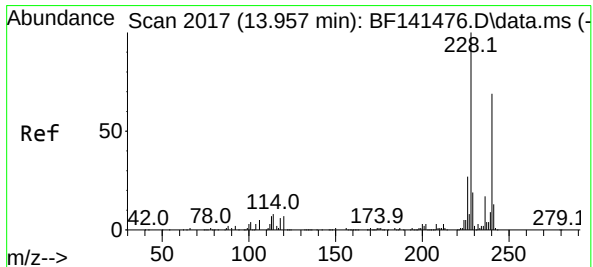
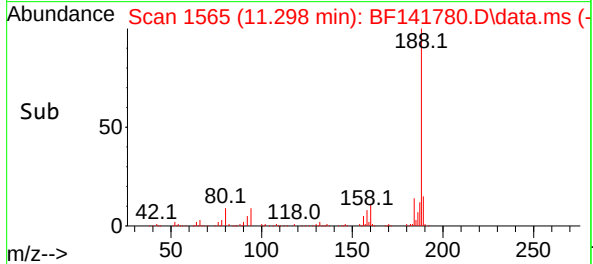
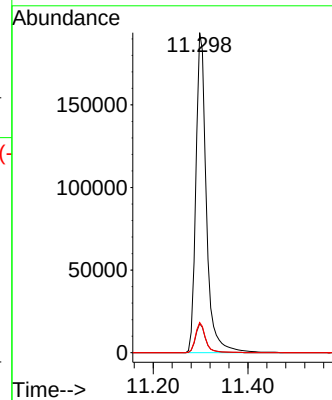
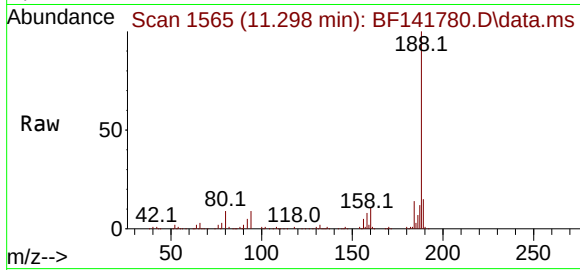




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.298 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

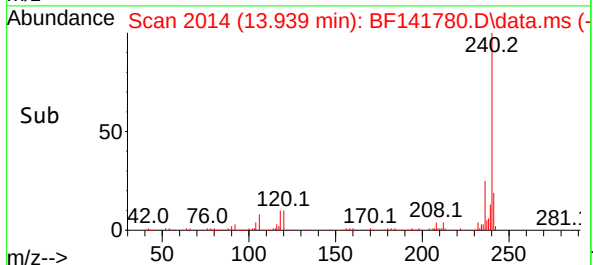
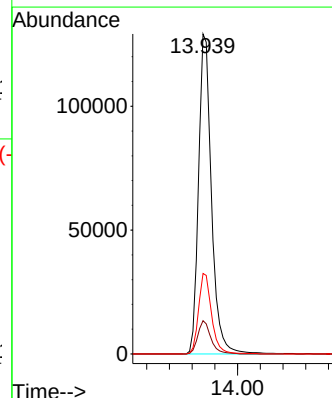
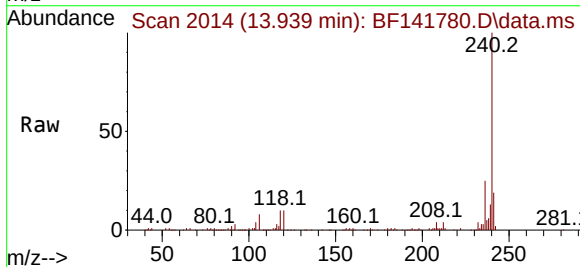
Instrument :
BNA_F
ClientSampleId :
PB166875BL

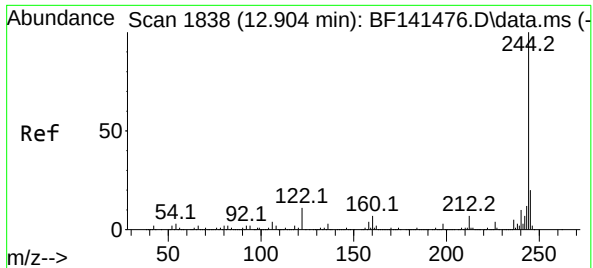
Tgt Ion:188 Resp: 297565
Ion Ratio Lower Upper
188 100
94 9.0 6.6 10.0
80 9.5 7.3 10.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.023 min
Lab File: BF141780.D
Acq: 26 Feb 2025 13:55

Tgt Ion:240 Resp: 205070
Ion Ratio Lower Upper
240 100
120 10.4 8.0 12.0
236 25.1 19.8 29.8





#79

Terphenyl-d14

Concen: 105.914 ng

RT: 12.886 min Scan# 1835

Delta R.T. -0.018 min

Lab File: BF141780.D

Acq: 26 Feb 2025 13:55

Instrument :

BNA_F

ClientSampleId :

PB166875BL

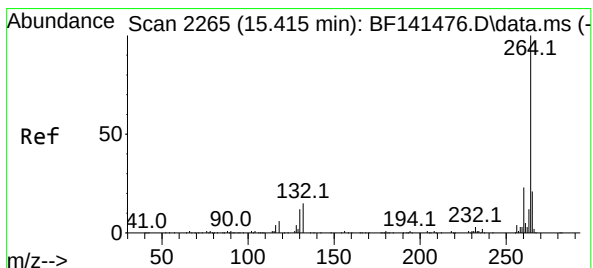
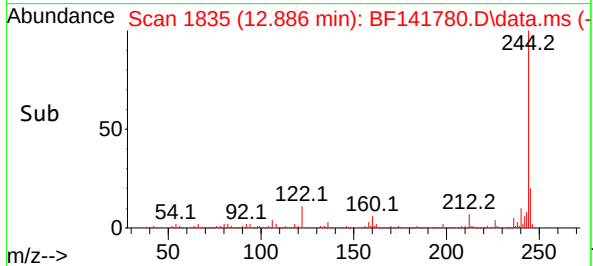
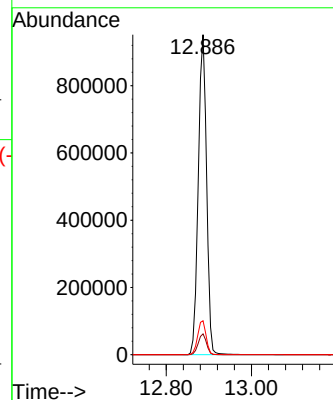
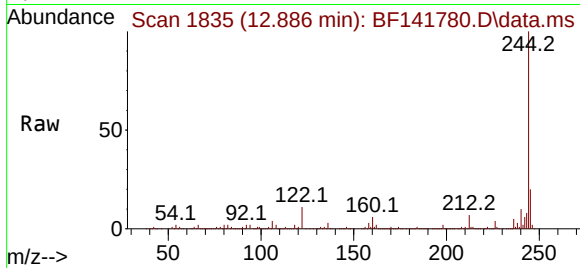
Tgt Ion:244 Resp: 1286585

Ion Ratio Lower Upper

244 100

212 6.5 5.6 8.4

122 10.6 8.4 12.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.386 min Scan# 2260

Delta R.T. -0.029 min

Lab File: BF141780.D

Acq: 26 Feb 2025 13:55

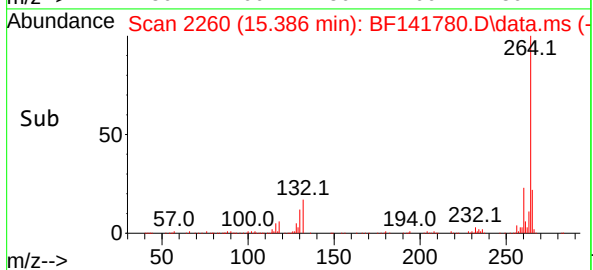
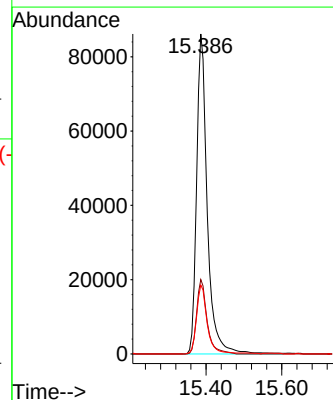
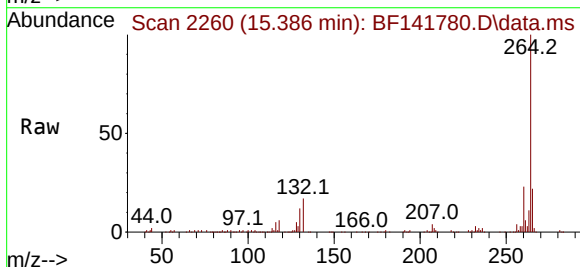
Tgt Ion:264 Resp: 168978

Ion Ratio Lower Upper

264 100

260 23.2 18.6 28.0

265 21.6 17.0 25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141780.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.416	559	565	590	rBV	1659137	2438000	73.46%	13.449%
2	6.428	731	737	766	rBV	1646884	2406444	72.51%	13.275%
3	6.781	792	797	811	rVB	353647	450721	13.58%	2.486%
4	7.345	887	893	924	rBV	1137657	1618662	48.78%	8.929%
5	8.063	1009	1015	1040	rBV	410466	607975	18.32%	3.354%
6	9.133	1191	1197	1227	rBV	2227208	3096525	93.31%	17.082%
7	9.816	1307	1313	1327	rBV	484181	705275	21.25%	3.891%
8	10.604	1442	1447	1475	rBV	1242034	1794300	54.07%	9.898%
9	11.298	1560	1565	1588	rBV	471487	715714	21.57%	3.948%
10	12.886	1829	1835	1848	rBV	2460799	3318618	100.00%	18.307%
11	13.939	2009	2014	2031	rBV	343084	539706	16.26%	2.977%
12	15.386	2254	2260	2279	rBV	228373	435941	13.14%	2.405%

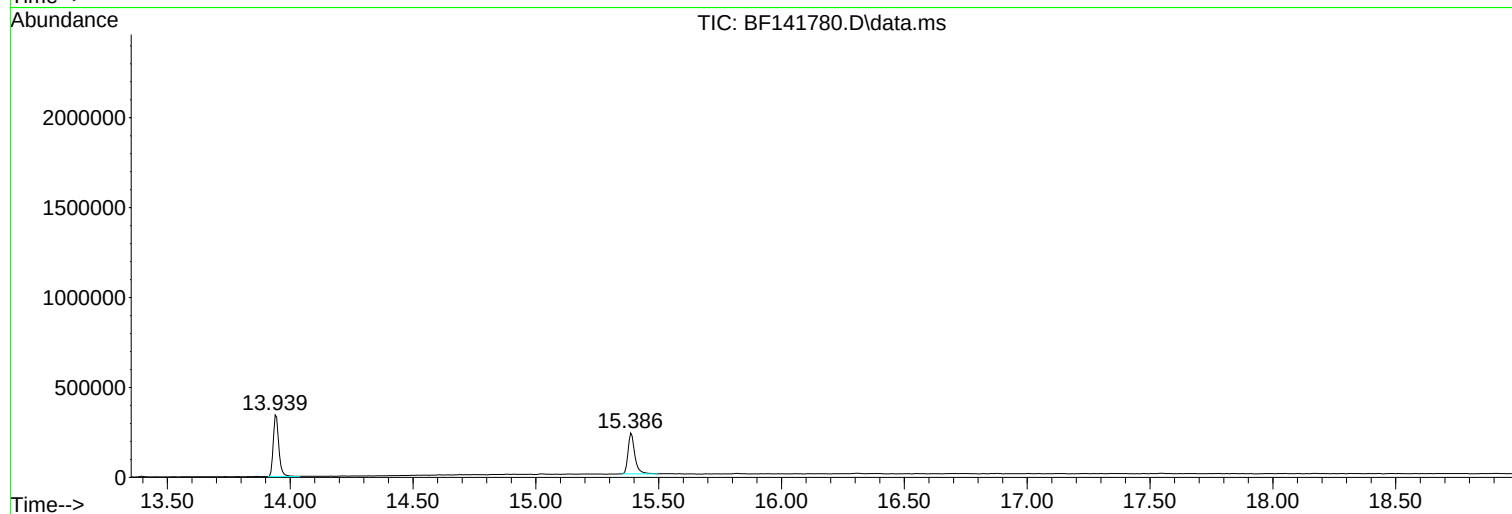
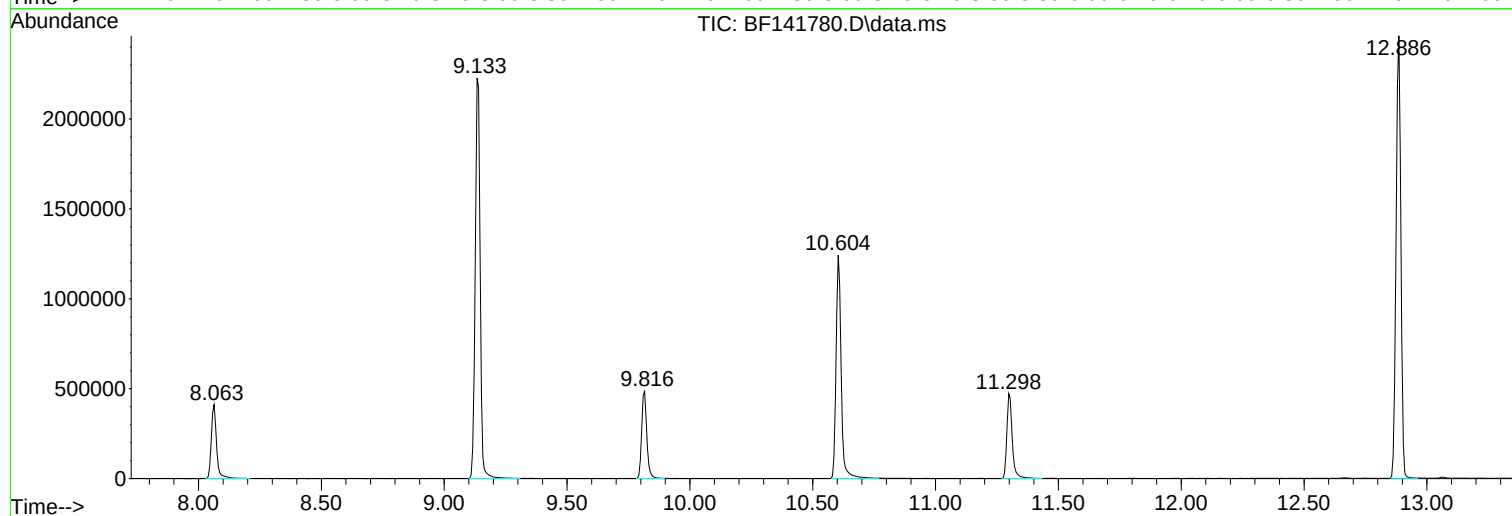
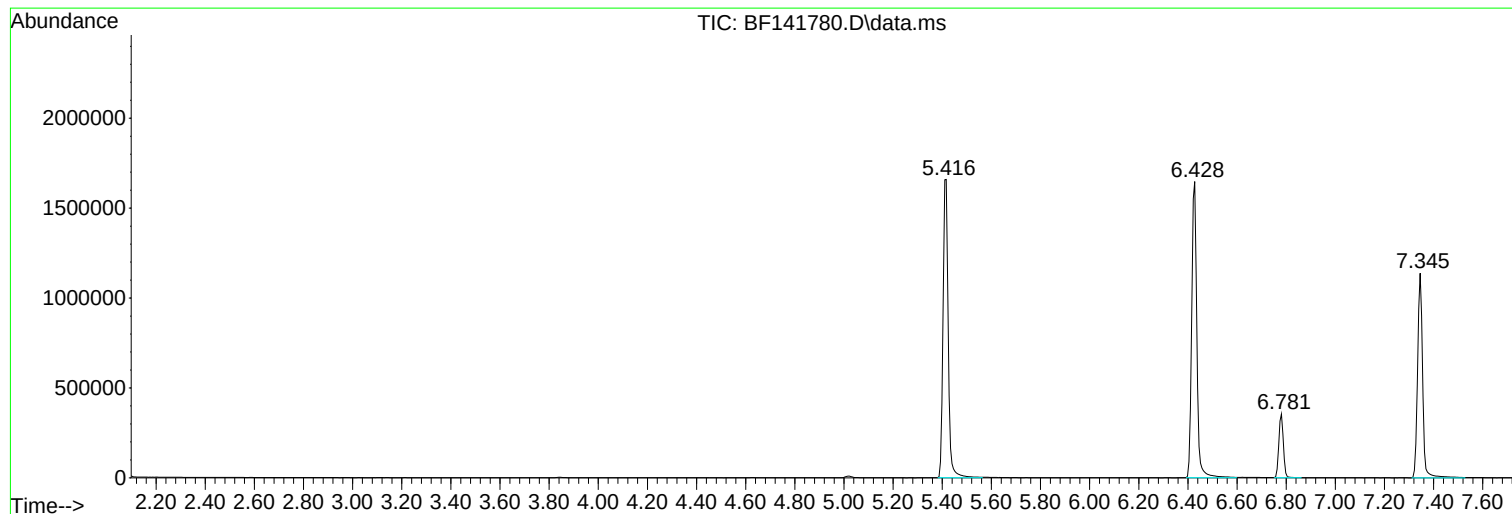
Sum of corrected areas: 18127881

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
Data File : BF141780.D
Acq On : 26 Feb 2025 13:55
Operator : RC/JU
Sample : PB166875BL
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166875BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	950		180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	170	ug/Kg
98-86-2	Acetophenone	1600		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1500		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1500		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1500		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1900		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.5	170	ug/Kg
91-20-3	Naphthalene	1400		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	740		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.3	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1500		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1400		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4300	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1400		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.7	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	910		89.2	170	ug/Kg
83-32-9	Acenaphthene	1400		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	2600		120	330	ug/Kg
132-64-9	Dibenzofuran	1400		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.6	170	ug/Kg
86-73-7	Fluorene	1500		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		85.0	170	ug/Kg
1912-24-9	Atrazine	2000		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	2400		77.3	330	ug/Kg
85-01-8	Phenanthrene	1500		84.0	170	ug/Kg
120-12-7	Anthracene	1600		84.4	170	ug/Kg
86-74-8	Carbazole	1500		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.3	170	ug/Kg
206-44-0	Fluoranthene	1500		81.7	170	ug/Kg
129-00-0	Pyrene	1700		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	2100		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.1	170	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166853BS	SDG No.:	Q1415
Lab Sample ID:	PB166853BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141777.D	1	02/25/25 09:30	02/26/25 12:19	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1600		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	138		30 (18) - 130 (112)	92%	SPK: 150
13127-88-3	Phenol-d6	131		30 (15) - 130 (107)	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.9		30 (18) - 130 (107)	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.9		30 (20) - 130 (109)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		30 (10) - 130 (116)	96%	SPK: 150
1718-51-0	Terphenyl-d14	116		30 (10) - 130 (105)	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81700	6.781			
1146-65-2	Naphthalene-d8	332000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	319000	11.304			
1719-03-5	Chrysene-d12	192000	13.945			
1520-96-3	Perylene-d12	177000	15.386			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141777.D
 Acq On : 26 Feb 2025 12:19
 Operator : RC/JU
 Sample : PB166853BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166853BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 13:24:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	81688	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	331787	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	180365	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	319305	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	191917	20.000	ng	-0.02
86) Perylene-d12	15.386	264	177241	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	716848	137.576	ng	0.00
7) Phenol-d6	6.428	99	865294	131.390	ng	-0.01
23) Nitrobenzene-d5	7.351	82	558919	87.864	ng	-0.01
42) 2,4,6-Tribromophenol	10.610	330	262131	144.676	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1122463	95.879	ng	-0.01
79) Terphenyl-d14	12.886	244	1319483	116.067	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.569	88	86876	41.426	ng	94
3) Pyridine	3.304	79	204895	41.058	ng	91
4) n-Nitrosodimethylamine	3.252	42	121475	36.762	ng	87
6) Aniline	6.445	93	218407	35.354	ng	# 73
8) 2-Chlorophenol	6.575	128	257670	45.766	ng	97
9) Benzaldehyde	6.334	77	100149	28.617	ng	97
10) Phenol	6.445	94	297590	43.416	ng	96
11) bis(2-Chloroethyl)ether	6.516	93	236565	45.949	ng	97
12) 1,3-Dichlorobenzene	6.722	146	268531	45.177	ng	97
13) 1,4-Dichlorobenzene	6.798	146	269542	44.384	ng	99
14) 1,2-Dichlorobenzene	6.951	146	260378	46.195	ng	99
15) Benzyl Alcohol	6.928	79	214872	42.547	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	344765	39.119	ng	61
17) 2-Methylphenol	7.051	107	195576	44.389	ng	94
18) Hexachloroethane	7.287	117	100289	44.622	ng	97
19) n-Nitroso-di-n-propyla...	7.198	70	171908	43.639	ng	91
20) 3+4-Methylphenols	7.204	107	257970	46.071	ng	# 75
22) Acetophenone	7.192	105	390944	47.368	ng	# 91
24) Nitrobenzene	7.369	77	259378	41.815	ng	96
25) Isophorone	7.604	82	462376	45.587	ng	98
26) 2-Nitrophenol	7.681	139	138079	44.743	ng	92
27) 2,4-Dimethylphenol	7.728	122	201881	55.997	ng	97
28) bis(2-Chloroethoxy)met...	7.816	93	290160	44.645	ng	100
29) 2,4-Dichlorophenol	7.934	162	216937	44.535	ng	98
30) 1,2,4-Trichlorobenzene	8.004	180	233773	44.071	ng	99
31) Naphthalene	8.086	128	740758	42.891	ng	99
32) Benzoic acid	7.875	122	136752	36.518	ng	97
33) 4-Chloroaniline	8.139	127	134615	22.325	ng	97
34) Hexachlorobutadiene	8.198	225	142354	44.702	ng	99
35) Caprolactam	8.516	113	76597m	51.646	ng	
36) 4-Chloro-3-methylphenol	8.633	107	234899	43.534	ng	100
37) 2-Methylnaphthalene	8.775	142	471459	41.950	ng	99
38) 1-Methylnaphthalene	8.875	142	460135	42.273	ng	99
40) 1,2,4,5-Tetrachloroben...	8.945	216	261645	50.141	ng	98
41) Hexachlorocyclopentadiene	8.928	237	221790	127.788	ng	99
43) 2,4,6-Trichlorophenol	9.063	196	150125	44.513	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141777.D
 Acq On : 26 Feb 2025 12:19
 Operator : RC/JU
 Sample : PB166853BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 13:24:59 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Feb 06 16:58:59 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	162948	44.581	ng	97
46) 1,1'-Biphenyl	9.239	154	686888	49.122	ng	99
47) 2-Chloronaphthalene	9.263	162	470296	45.482	ng	99
48) 2-Nitroaniline	9.369	65	146947	42.345	ng	89
49) Acenaphthylene	9.681	152	721764	46.929	ng	99
50) Dimethylphthalate	9.539	163	571666	46.687	ng	99
51) 2,6-Dinitrotoluene	9.610	165	125505	46.887	ng	92
52) Acenaphthene	9.851	154	448107	43.338	ng	99
53) 3-Nitroaniline	9.780	138	78775	27.343	ng	98
54) 2,4-Dinitrophenol	9.898	184	144884	91.073	ng	86
55) Dibenzofuran	10.022	168	650259	42.845	ng	98
56) 4-Nitrophenol	9.963	139	165178	77.235	ng	92
57) 2,4-Dinitrotoluene	10.016	165	167288	46.946	ng	99
58) Fluorene	10.369	166	534517	45.550	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	141879	45.087	ng	94
60) Diethylphthalate	10.239	149	555522	46.112	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	264126	46.786	ng	97
62) 4-Nitroaniline	10.398	138	129151	44.149	ng	93
63) Azobenzene	10.516	77	510011	42.585	ng	95
65) 4,6-Dinitro-2-methylph...	10.428	198	96796	43.640	ng	90
66) n-Nitrosodiphenylamine	10.480	169	466927	45.682	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	167414	46.912	ng	99
68) Hexachlorobenzene	10.916	284	174013	47.354	ng	98
69) Atrazine	11.010	200	183372	59.801	ng	99
70) Pentachlorophenol	11.116	266	172467	73.399	ng	100
71) Phenanthrene	11.327	178	795359	45.252	ng	100
72) Anthracene	11.380	178	834948	47.256	ng	100
73) Carbazole	11.539	167	713496	44.880	ng	99
74) Di-n-butylphthalate	11.863	149	878298	47.846	ng	99
75) Fluoranthene	12.516	202	832656	44.684	ng	99
77) Benzidine	12.639	184	212949	50.312	ng	99
78) Pyrene	12.745	202	829507	50.774	ng	99
80) Butylbenzylphthalate	13.357	149	311733	55.088	ng	98
81) Benzo(a)anthracene	13.933	228	616649	48.337	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123372	33.760	ng	98
83) Chrysene	13.968	228	555284	47.140	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	394616	61.830	ng	100
85) Di-n-octyl phthalate	14.527	149	565858	62.150	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	565885	51.672	ng	99
88) Benzo(b)fluoranthene	14.968	252	481397	40.451	ng	99
89) Benzo(k)fluoranthene	14.998	252	411471	40.490	ng	99
90) Benzo(a)pyrene	15.327	252	468144	48.614	ng	98
91) Dibenzo(a,h)anthracene	16.839	278	461450	52.001	ng	99
92) Benzo(g,h,i)perylene	17.262	276	439909	47.372	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

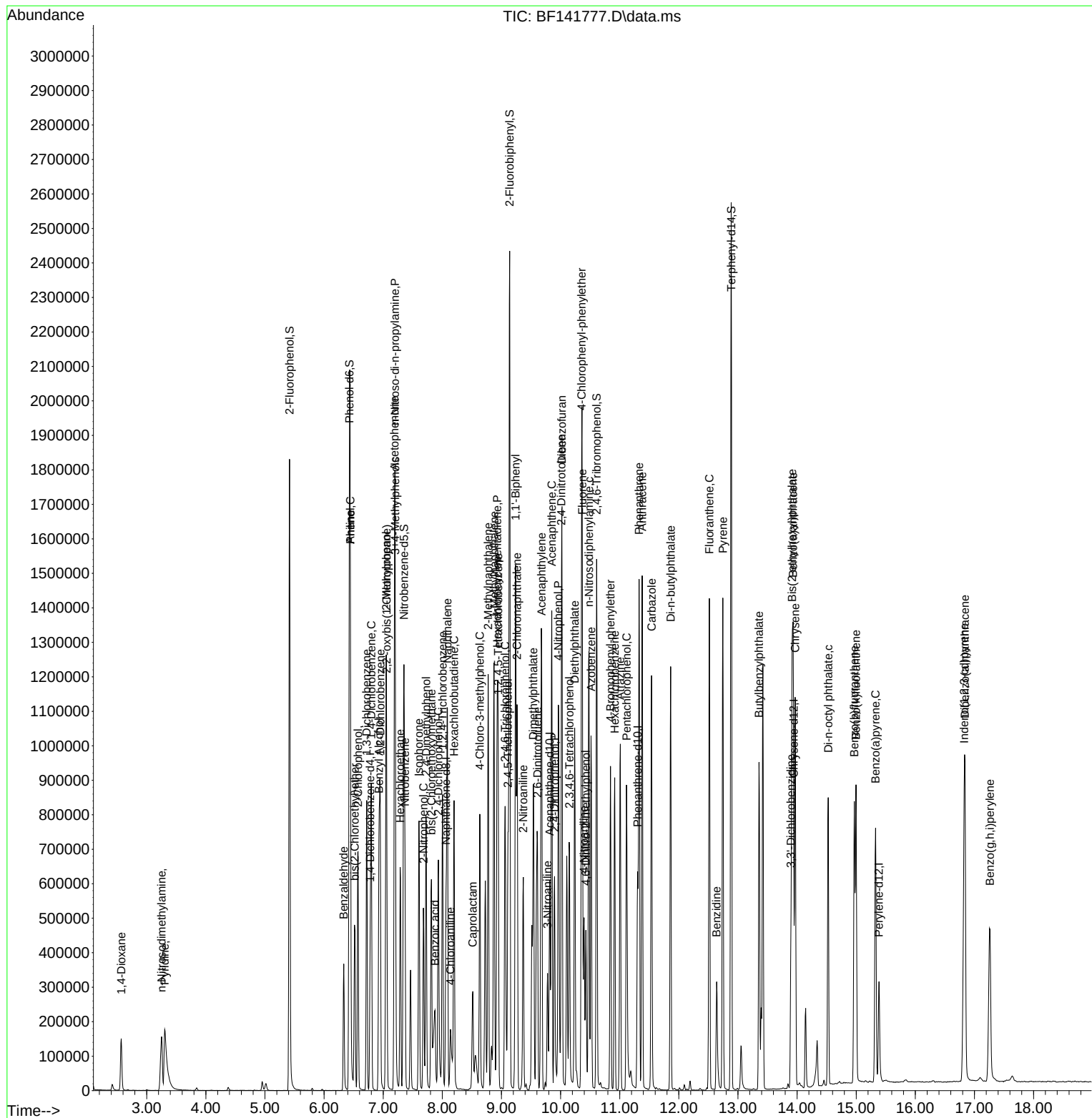
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Operator  : RC/JU  
Sample    : PB166853BS  
Misc      :  
ALS Vial  : 4    Sample Multiplier: 1
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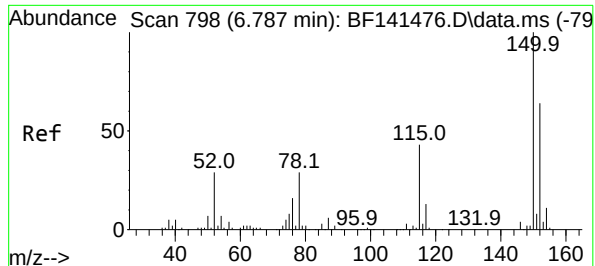
Instrument :
BNA_F
ClientSampleId :
PB166853BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

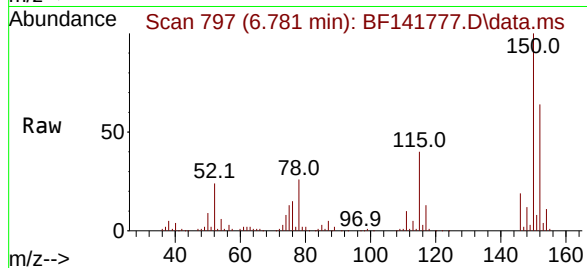
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

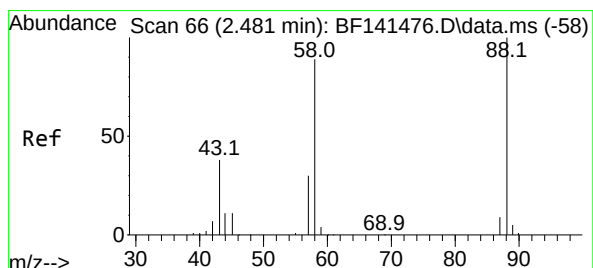
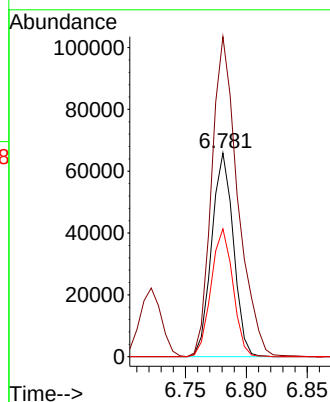
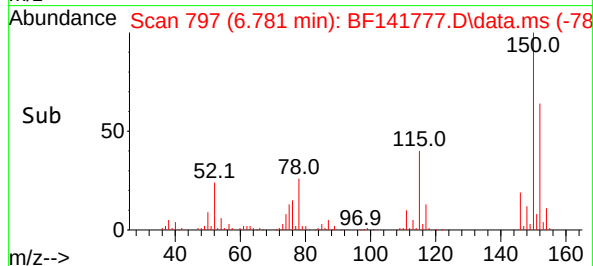
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:152 Resp: 8168
Ion Ratio Lower Upper
152 100
150 157.1 125.0 187.4
115 62.8 53.6 80.4

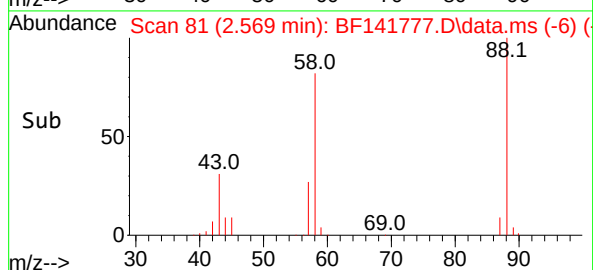
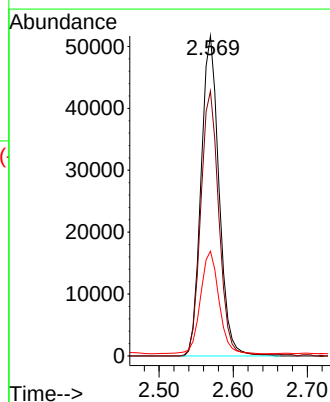
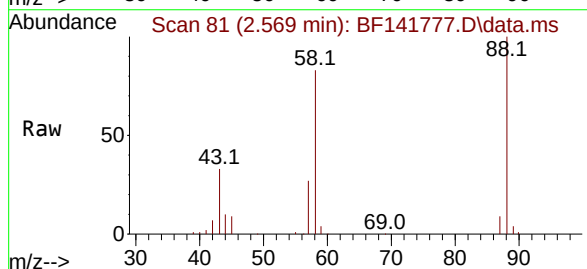
Manual Integrations
APPROVED

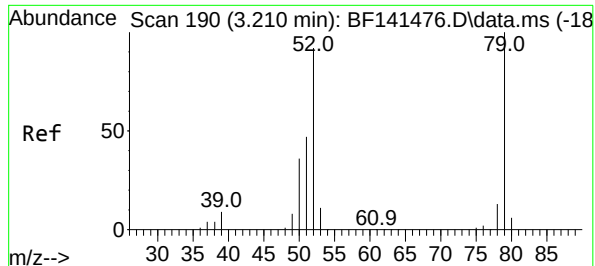
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#2
1,4-Dioxane
Concen: 41.426 ng
RT: 2.569 min Scan# 81
Delta R.T. 0.088 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 88 Resp: 86876
Ion Ratio Lower Upper
88 100
58 83.8 71.1 106.7
43 33.1 30.6 46.0





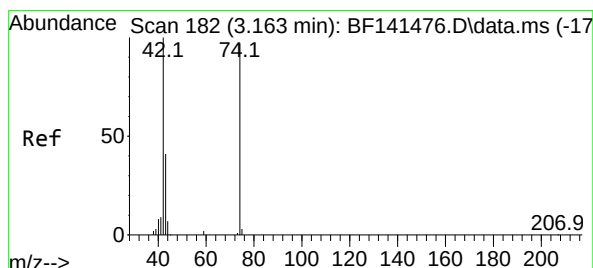
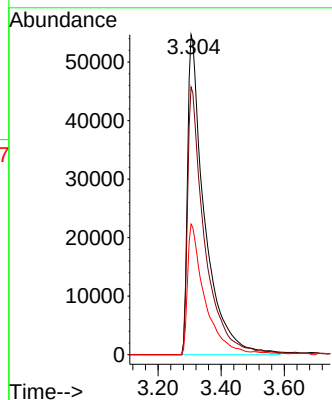
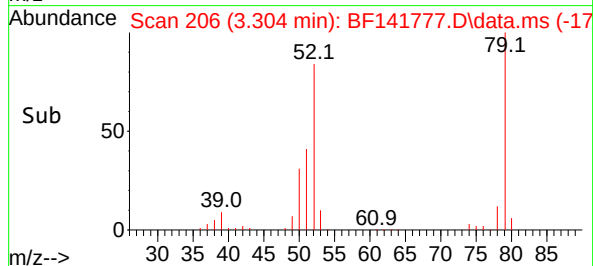
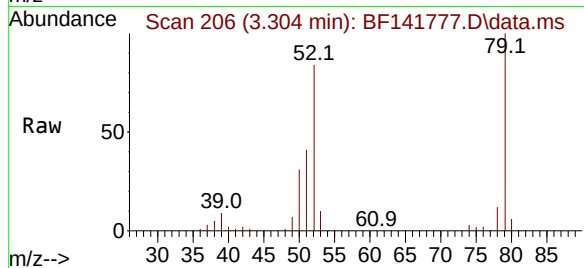
#3
Pyridine
Concen: 41.058 ng
RT: 3.304 min Scan# 206
Delta R.T. 0.088 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Tgt Ion: 79 Resp: 20489
Ion Ratio Lower Upper
79 100
52 83.6 73.7 110.5
51 40.8 37.5 56.3

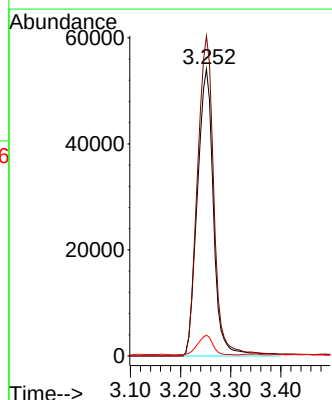
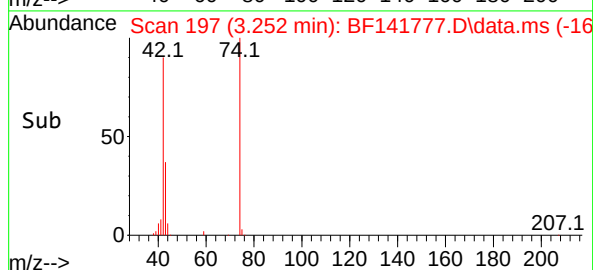
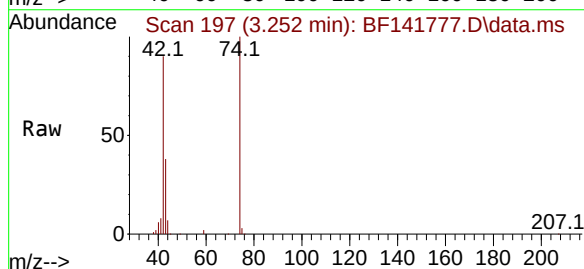
Manual Integrations
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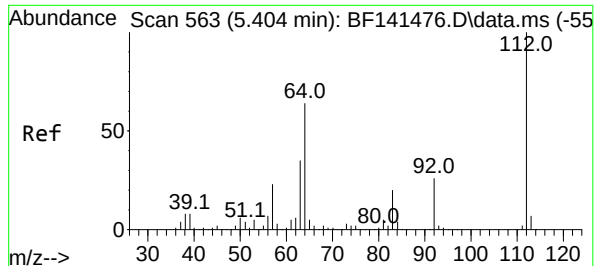
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#4
n-Nitrosodimethylamine
Concen: 36.762 ng
RT: 3.252 min Scan# 197
Delta R.T. 0.065 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 42 Resp: 121475
Ion Ratio Lower Upper
42 100
74 111.5 78.0 117.0
44 7.3 5.4 8.2





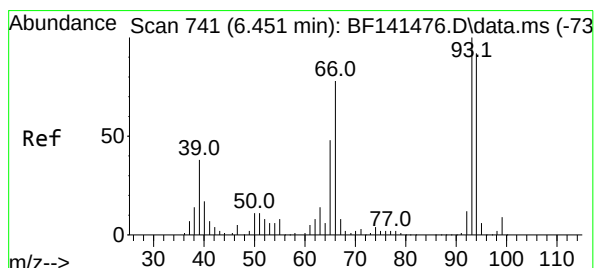
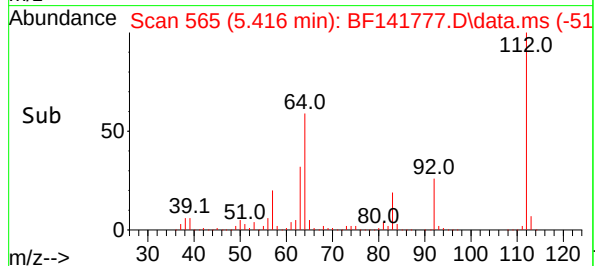
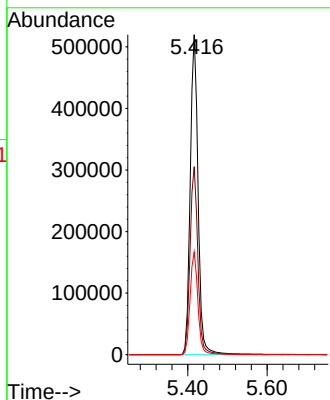
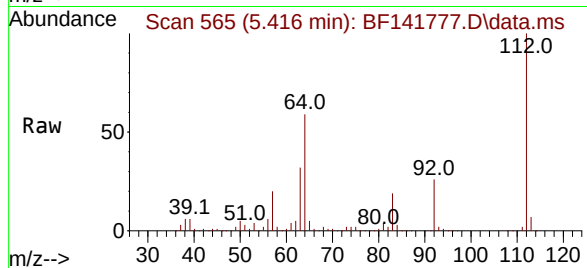
#5
2-Fluorophenol
Concen: 137.576 ng
RT: 5.416 min Scan# 50
Delta R.T. 0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Tgt Ion:112 Resp: 71684
Ion Ratio Lower Upper
112 100
64 58.8 51.1 76.7
63 32.1 28.4 42.6

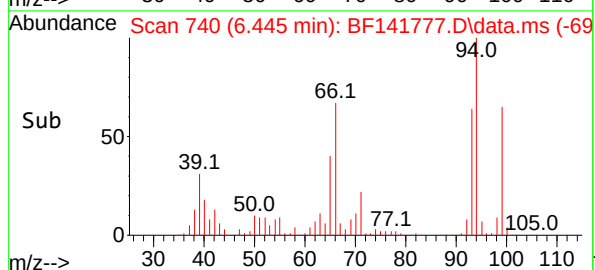
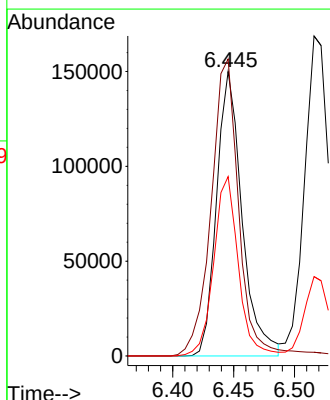
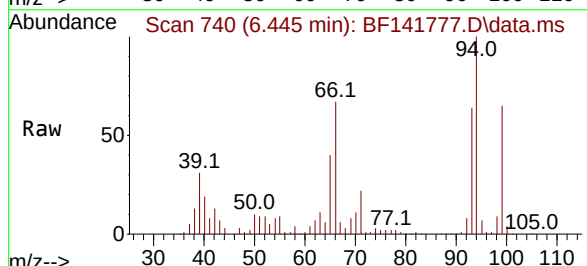
Manual Integrations
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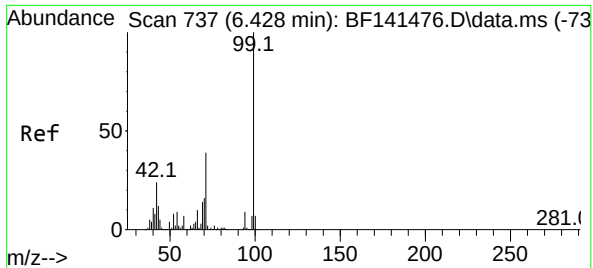
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#6
Aniline
Concen: 35.354 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

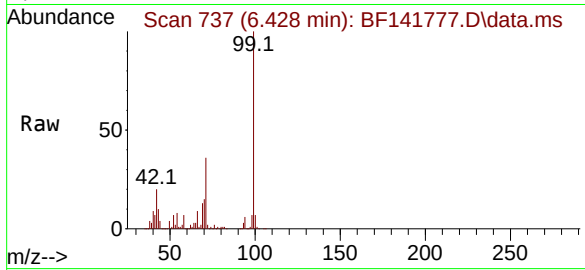
Tgt Ion: 93 Resp: 218407
Ion Ratio Lower Upper
93 100
66 104.4 62.6 94.0#
65 63.0 38.3 57.5#





#7
Phenol-d6
Concen: 131.390 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

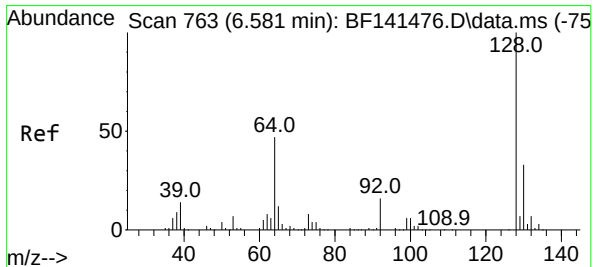
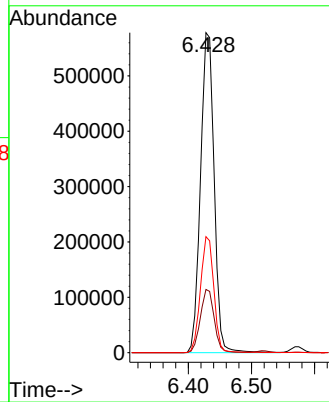
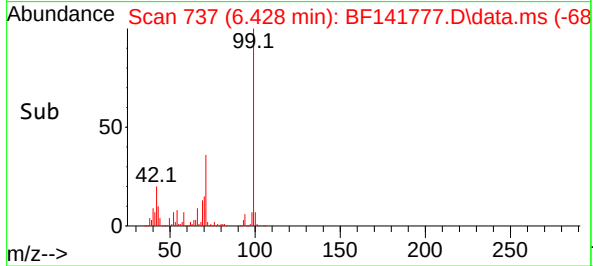
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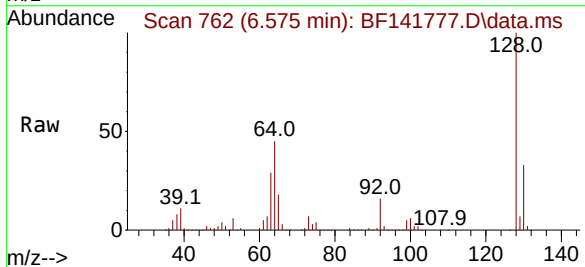
Tgt Ion: 99 Resp: 865294
Ion Ratio Lower Upper
99 100
42 19.7 19.1 28.7
71 36.3 31.1 46.7

Manual Integrations
APPROVED

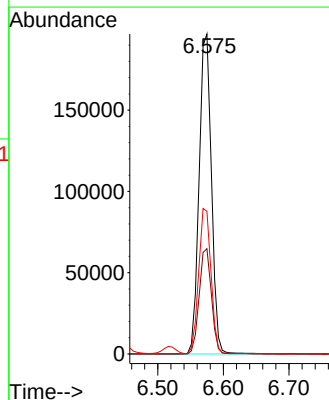
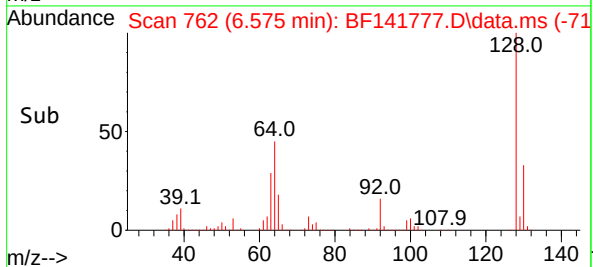
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

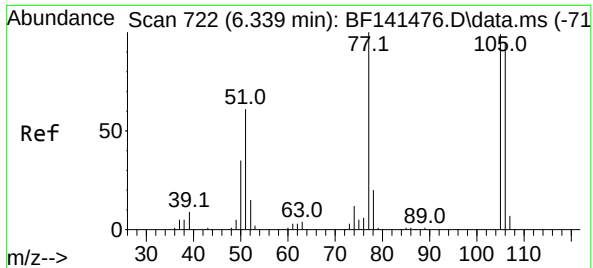


#8
2-Chlorophenol
Concen: 45.766 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



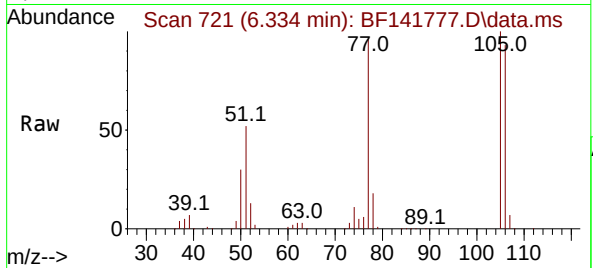
Tgt Ion:128 Resp: 257670
Ion Ratio Lower Upper
128 100
130 32.9 12.7 52.7
64 44.6 28.3 68.3





#9
Benzaldehyde
Concen: 28.617 ng
RT: 6.334 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

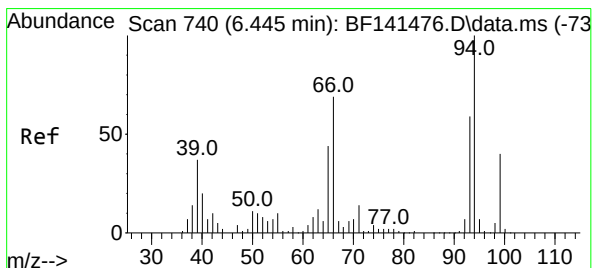
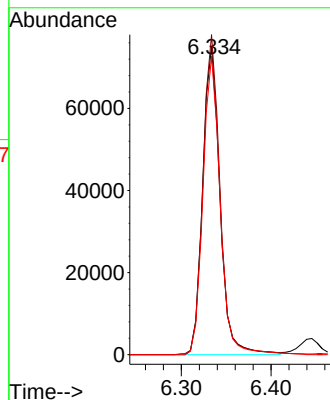
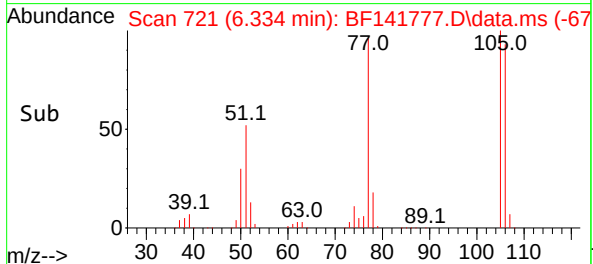
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion: 77 Resp: 100149
Ion Ratio Lower Upper
77 100
105 103.7 79.4 119.4
106 96.6 75.1 115.1

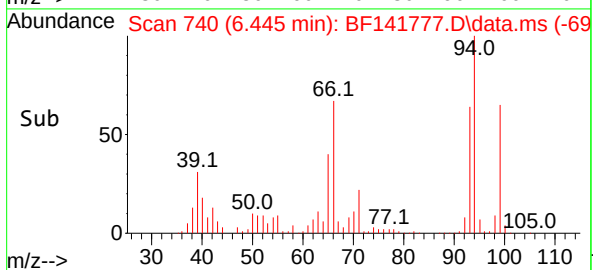
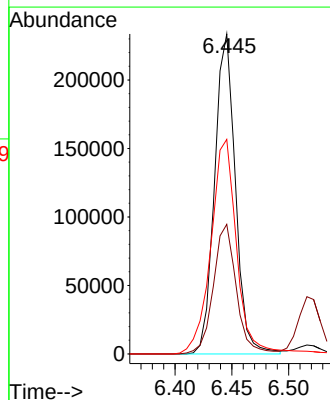
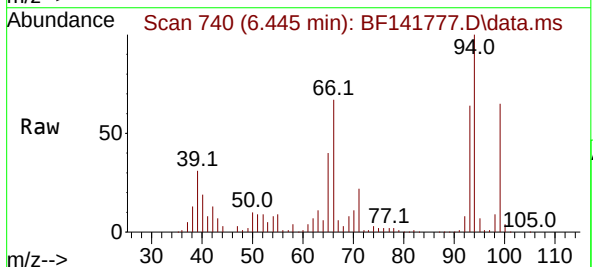
Manual Integrations
APPROVED

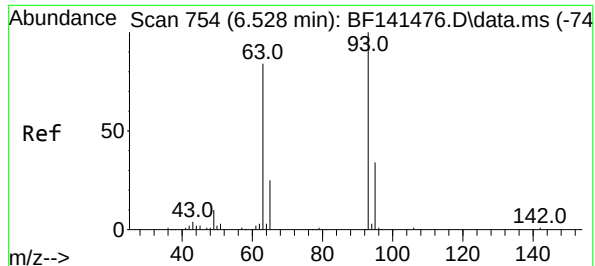
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#10
Phenol
Concen: 43.416 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion: 94 Resp: 297590
Ion Ratio Lower Upper
94 100
65 40.5 23.7 63.7
66 67.0 49.3 89.3





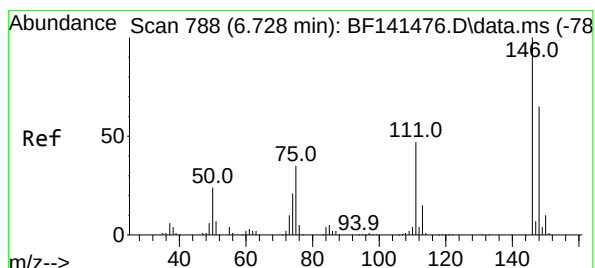
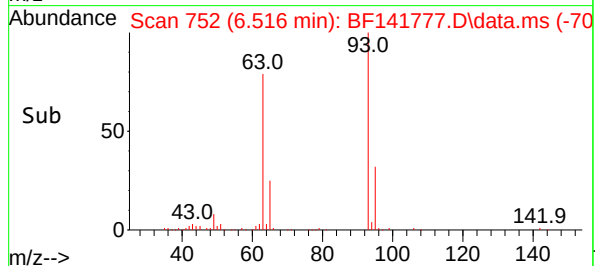
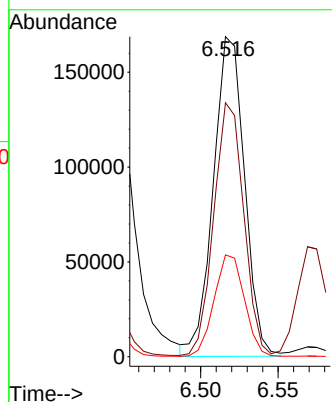
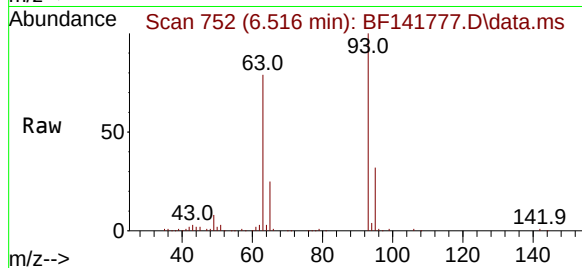
#11
bis(2-Chloroethyl)ether
Concen: 45.949 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Tgt Ion: 93 Resp: 23656
Ion Ratio Lower Upper
93 100
63 79.3 62.0 102.0
95 31.8 12.6 52.6

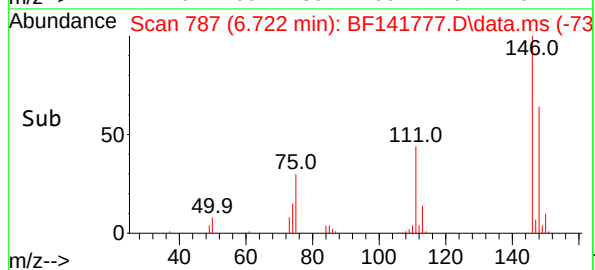
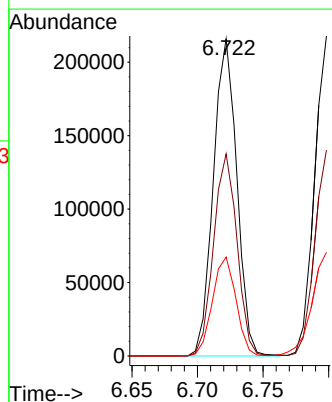
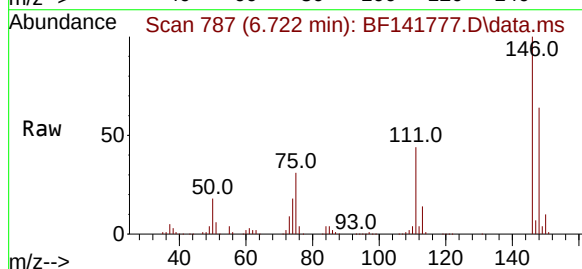
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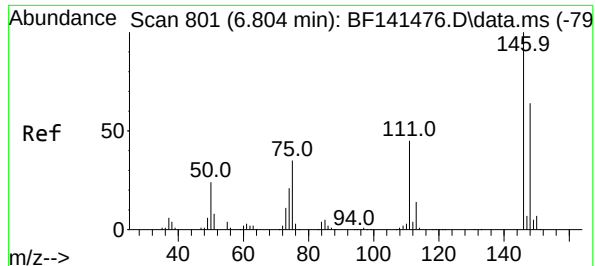
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#12
1,3-Dichlorobenzene
Concen: 45.177 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:146 Resp: 268531
Ion Ratio Lower Upper
146 100
148 63.7 51.9 77.9
75 31.2 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 44.384 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:146 Resp: 26954

Ion Ratio Lower Upper

146 100

148 64.3 50.9 76.3

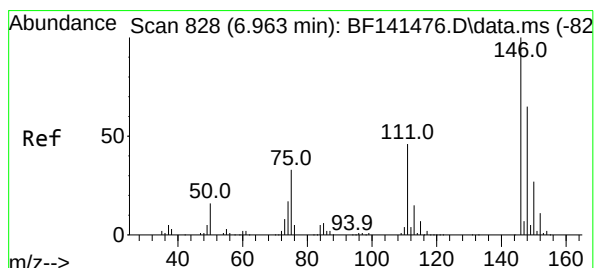
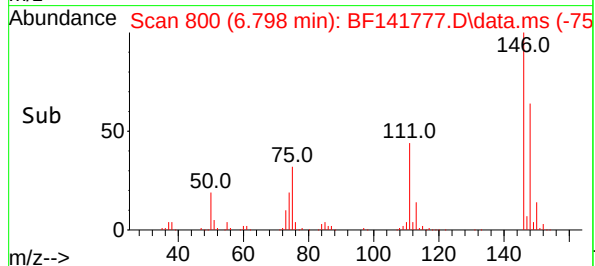
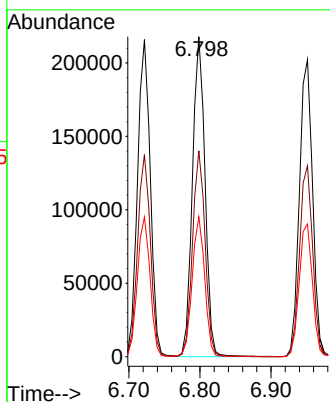
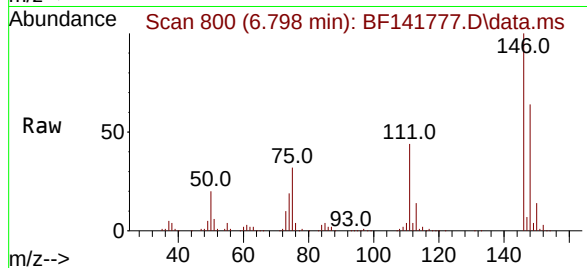
111 43.7 35.9 53.9

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#14

1,2-Dichlorobenzene

Concen: 46.195 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

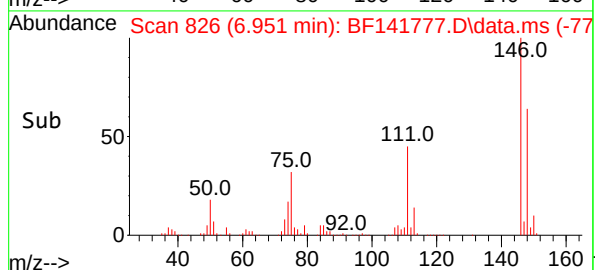
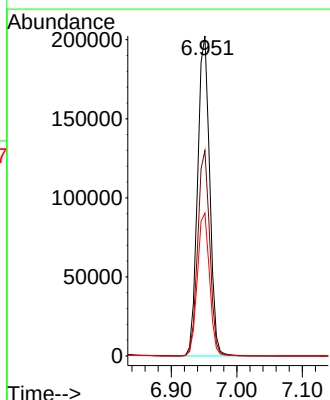
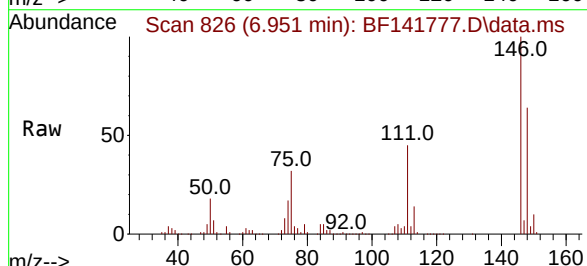
Tgt Ion:146 Resp: 260378

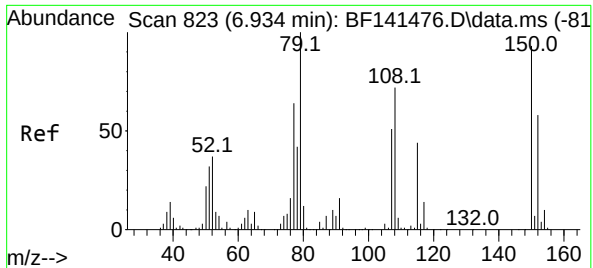
Ion Ratio Lower Upper

146 100

148 64.2 51.8 77.6

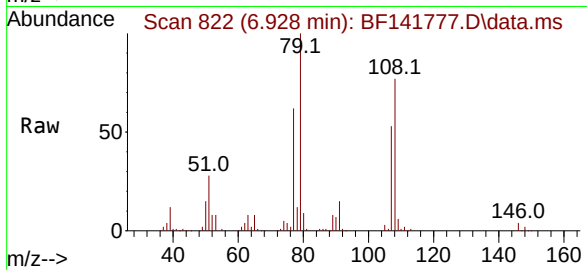
111 44.7 37.0 55.4





#15
Benzyl Alcohol
Concen: 42.547 ng
RT: 6.928 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

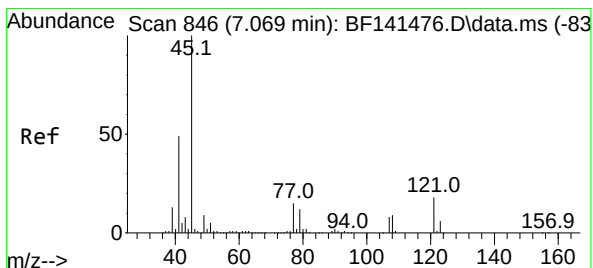
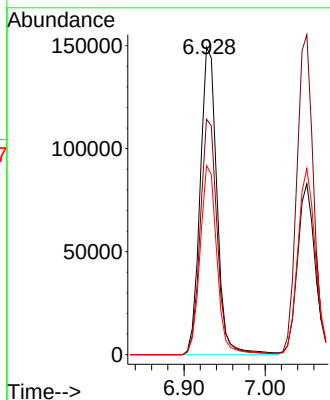
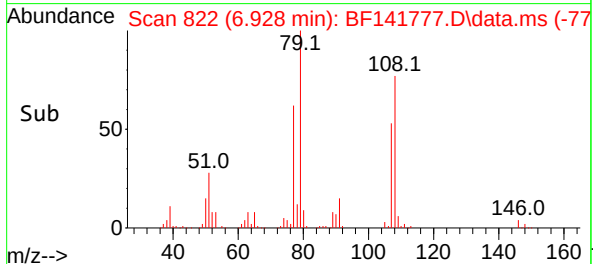
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion: 79 Resp: 214872
Ion Ratio Lower Upper
79 100
108 76.6 57.4 86.2
77 61.5 50.9 76.3

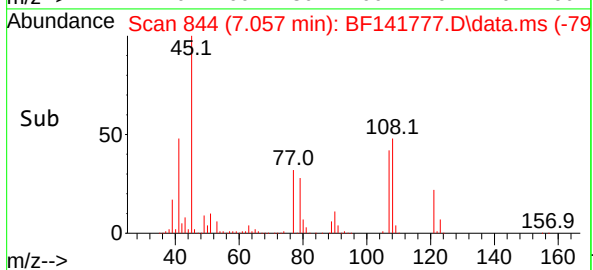
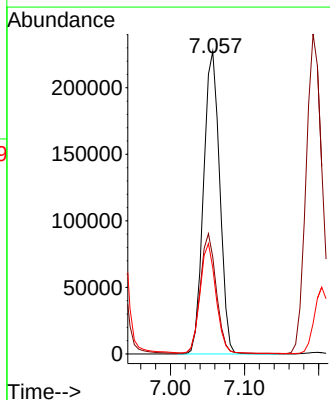
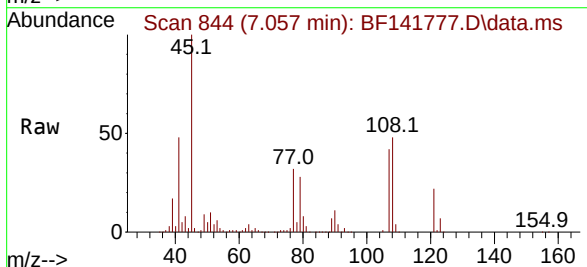
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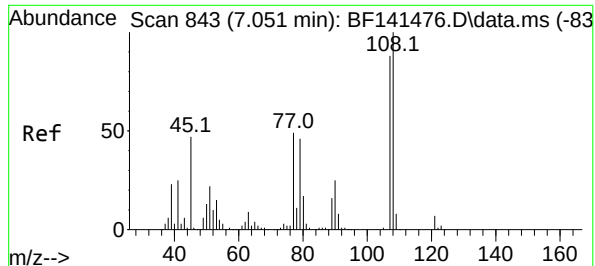
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.119 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

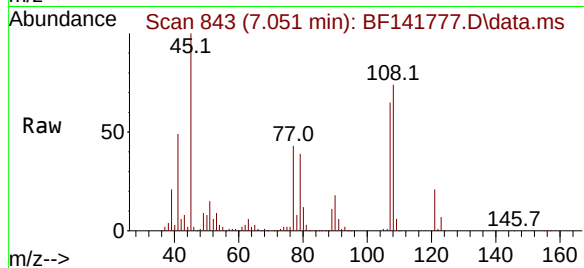
Tgt Ion: 45 Resp: 344765
Ion Ratio Lower Upper
45 100
77 32.1 0.0 35.8
79 28.5 0.0 32.7





#17
2-Methylphenol
Concen: 44.389 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

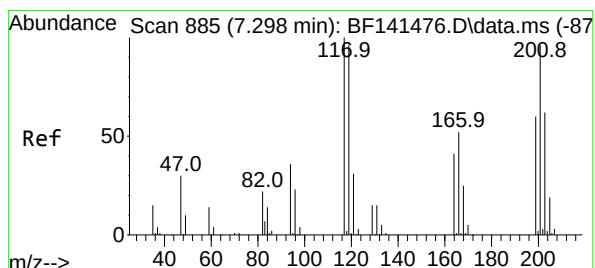
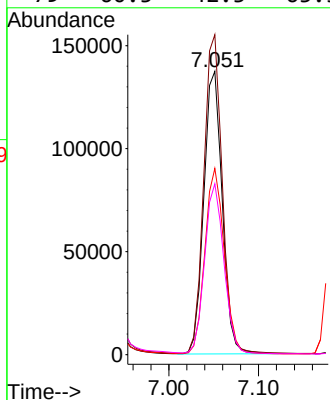
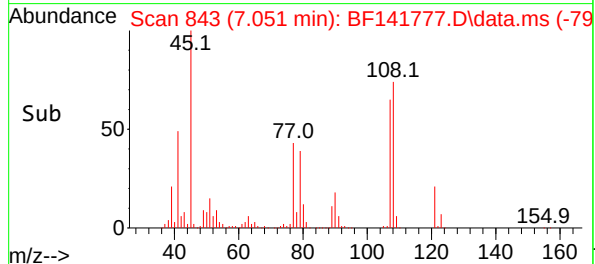
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:107 Resp: 195570
Ion Ratio Lower Upper
107 100
108 112.9 90.6 136.0
77 65.7 44.4 66.6
79 60.3 42.3 63.5

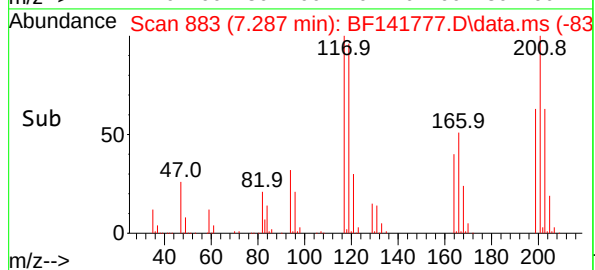
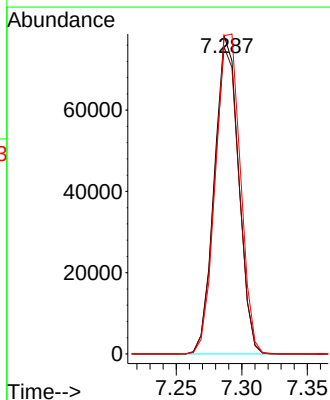
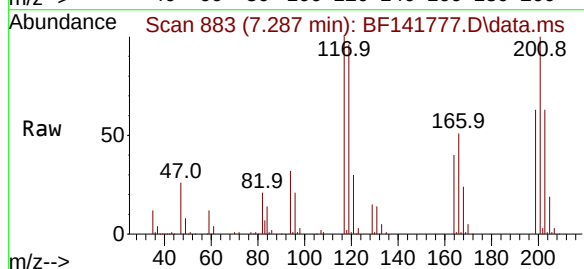
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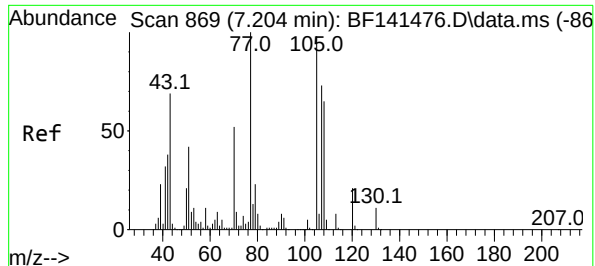
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#18
Hexachloroethane
Concen: 44.622 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:117 Resp: 100289
Ion Ratio Lower Upper
117 100
119 96.5 76.5 114.7
201 100.0 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 43.639 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion: 70 Resp: 171908

Ion Ratio Lower Upper

70 100

42 62.6 57.4 86.2

101 10.2 8.0 12.0

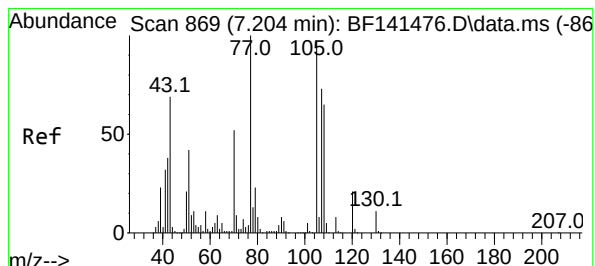
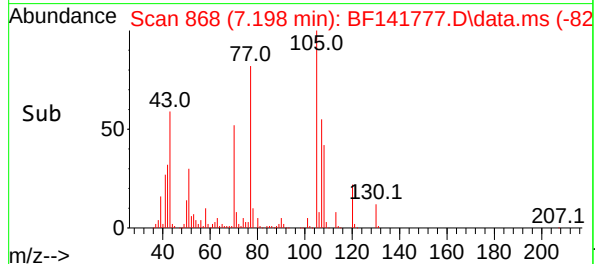
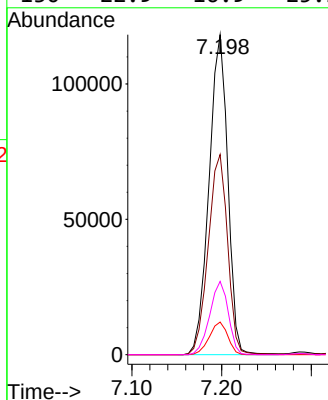
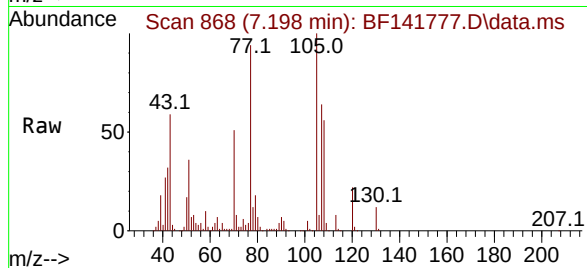
130 22.9 16.9 25.3

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Supervised By :Jagrut Upadhyay 02/27/2025



#20

3+4-Methylphenols

Concen: 46.071 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Tgt Ion:107 Resp: 257970

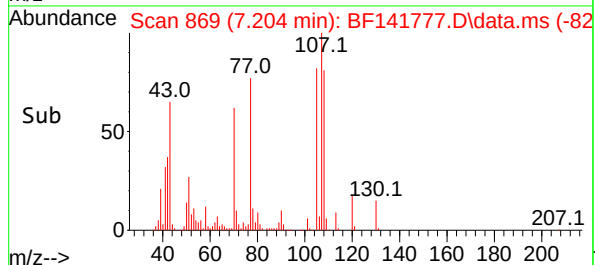
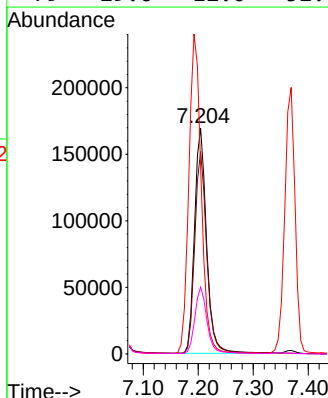
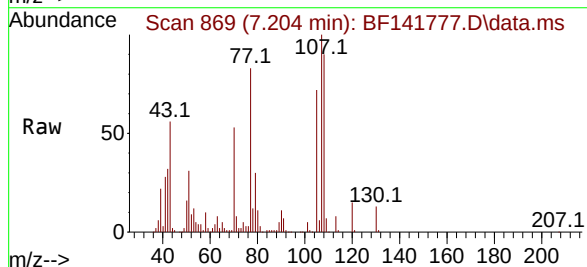
Ion Ratio Lower Upper

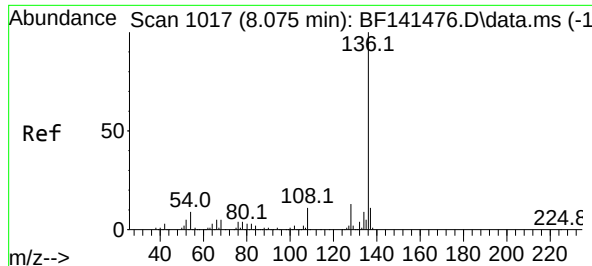
107 100

108 89.6 68.5 108.5

77 83.1 116.5 156.5

79 29.6 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:136 Resp: 33178

Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 8.1 7.2 10.8

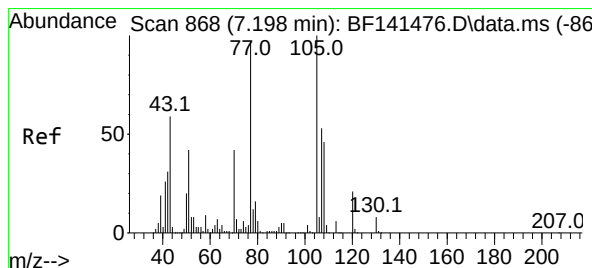
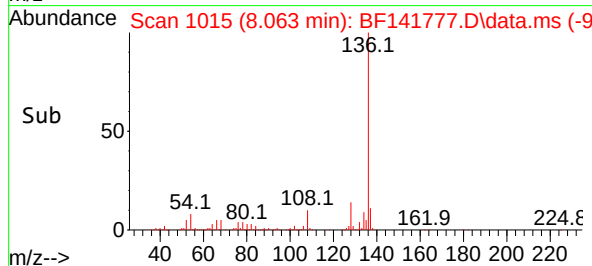
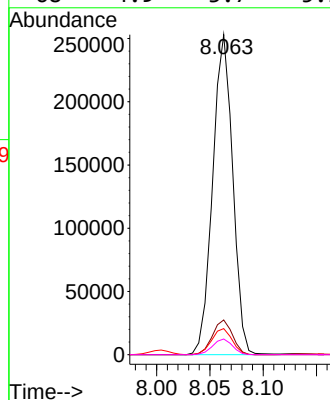
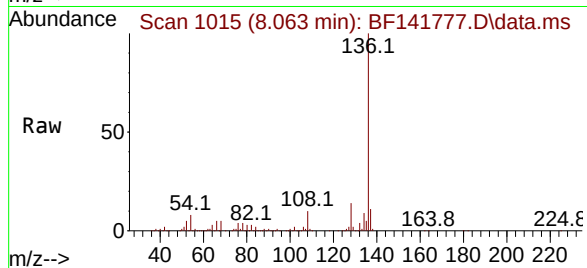
68 4.9 3.7 5.5

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#22

Acetophenone

Concen: 47.368 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Tgt Ion:105 Resp: 390944

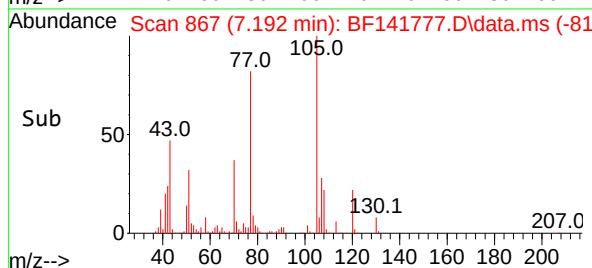
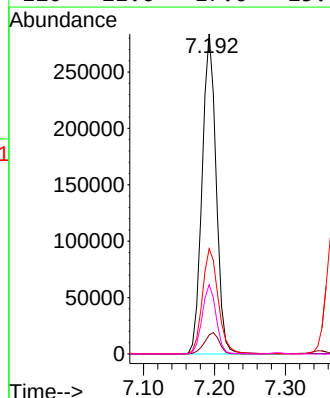
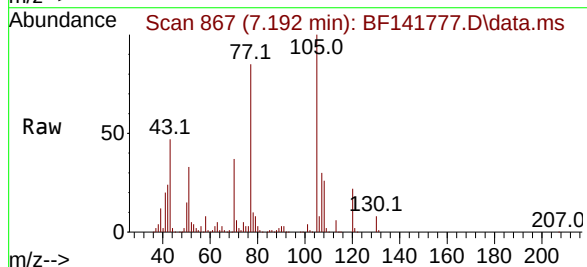
Ion Ratio Lower Upper

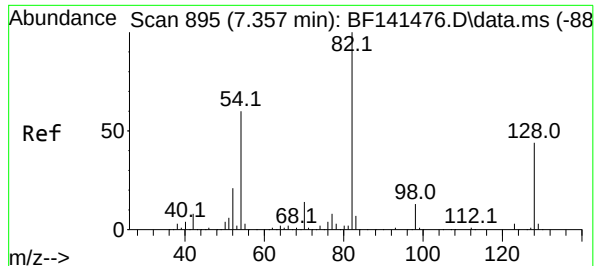
105 100

71 6.0 5.7 8.5

51 32.9 33.7 50.5#

120 21.6 17.0 25.6





#23

Nitrobenzene-d5

Concen: 87.864 ng

RT: 7.351 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion: 82 Resp: 558919

Ion Ratio Lower Upper

82 100

128 46.7 34.8 52.2

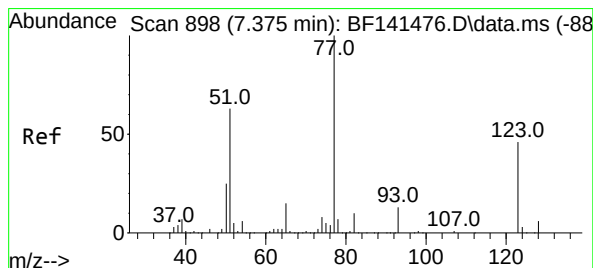
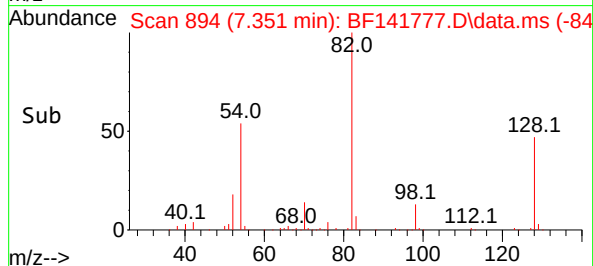
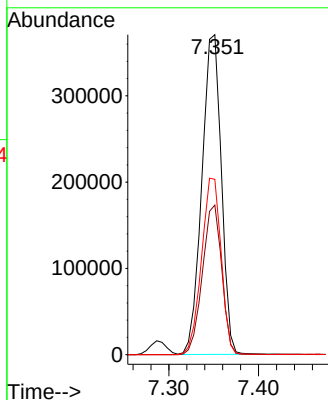
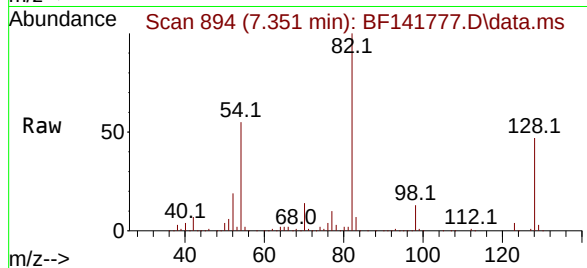
54 54.8 48.2 72.4

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Supervised By :Jagrut Upadhyay 02/27/2025



#24

Nitrobenzene

Concen: 41.815 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

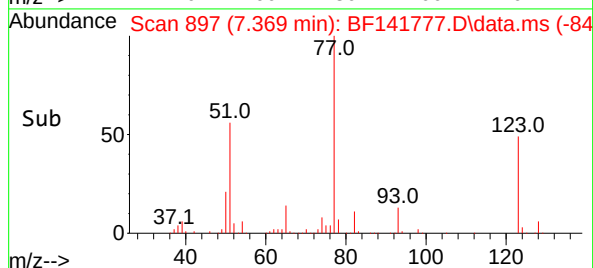
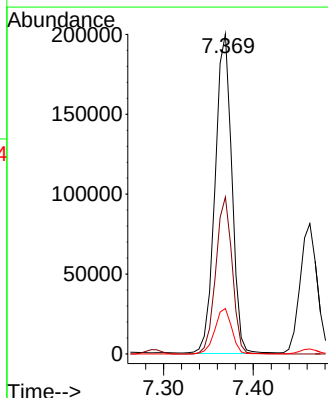
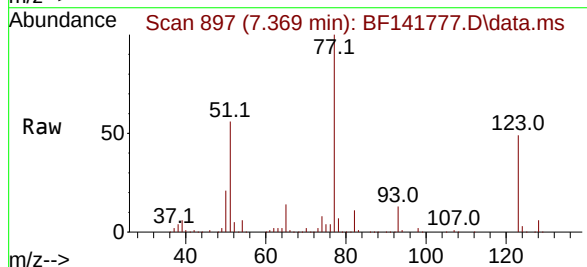
Tgt Ion: 77 Resp: 259378

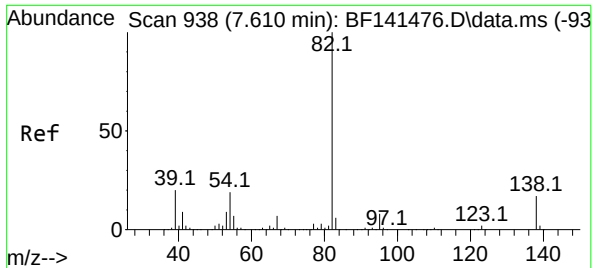
Ion Ratio Lower Upper

77 100

123 49.0 36.9 55.3

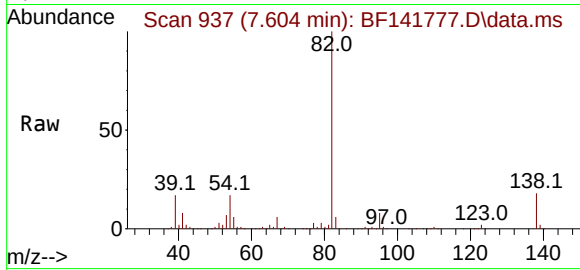
65 14.2 11.9 17.9





#25
Isophorone
Concen: 45.587 ng
RT: 7.604 min Scan# 91
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

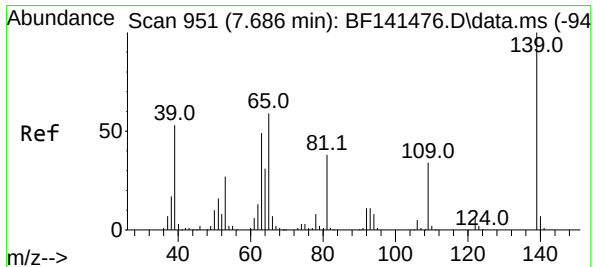
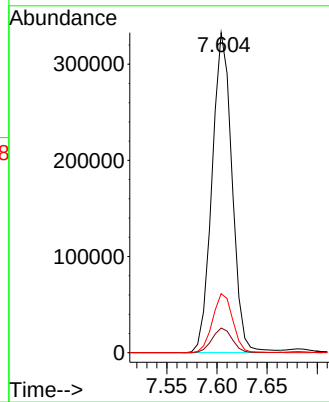
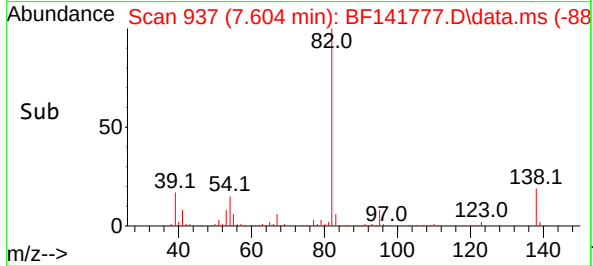
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion: 82 Resp: 462370
Ion Ratio Lower Upper
82 100
95 7.7 6.4 9.6
138 18.5 13.9 20.9

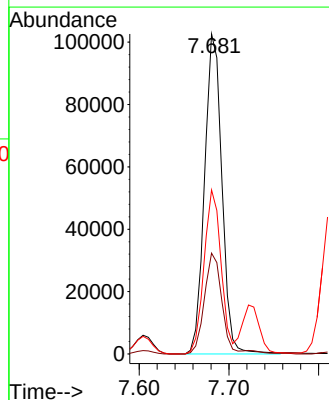
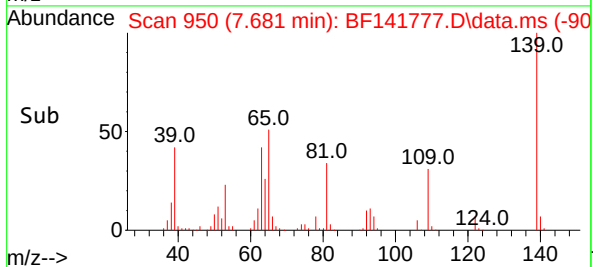
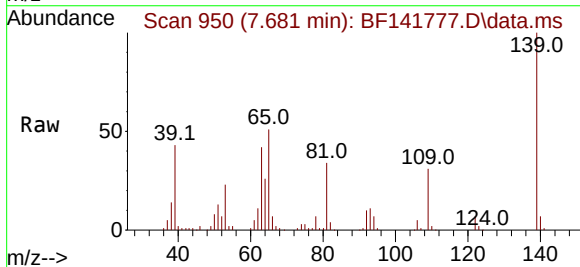
Manual Integrations
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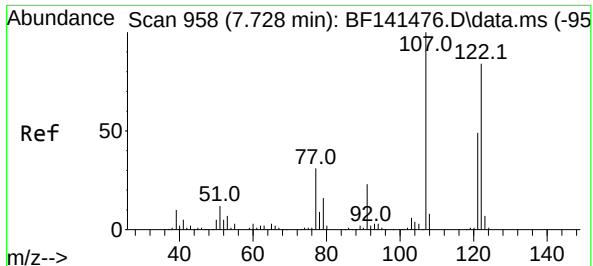
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#26
2-Nitrophenol
Concen: 44.743 ng
RT: 7.681 min Scan# 950
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:139 Resp: 138079
Ion Ratio Lower Upper
139 100
109 31.5 27.0 40.6
65 51.3 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 55.997 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:122 Resp: 20188

Ion Ratio Lower Upper

122 100

107 114.8 94.3 141.5

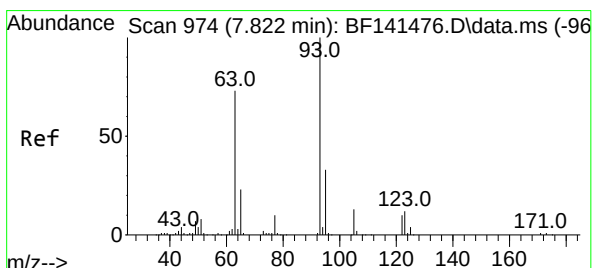
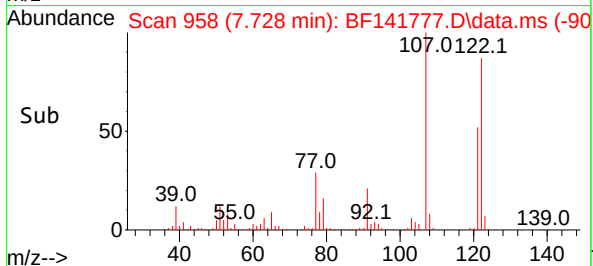
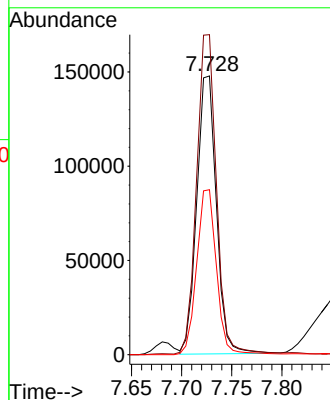
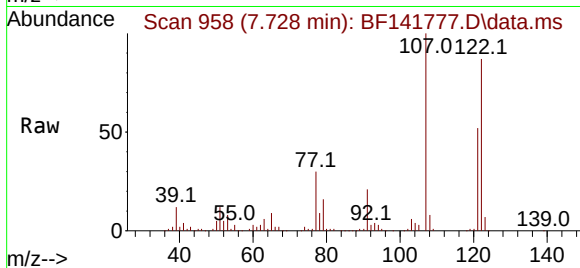
121 59.2 46.0 69.0

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#28

bis(2-Chloroethoxy)methane

Concen: 44.645 ng

RT: 7.816 min Scan# 973

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

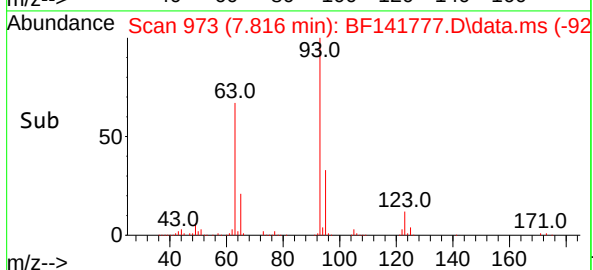
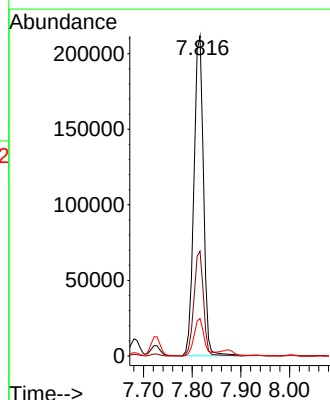
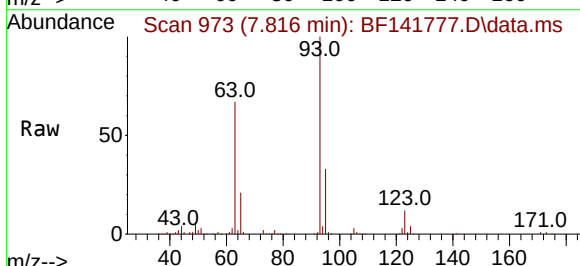
Tgt Ion: 93 Resp: 290160

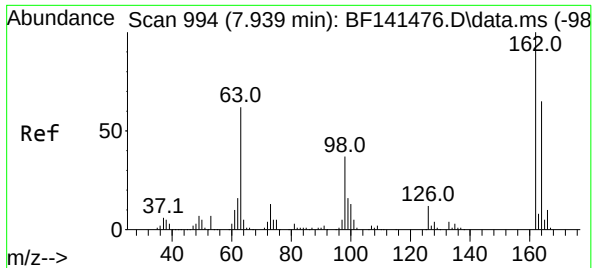
Ion Ratio Lower Upper

93 100

95 32.7 26.1 39.1

123 11.7 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 44.535 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:162 Resp: 21693

Ion Ratio Lower Upper

162 100

164 62.9 44.6 84.6

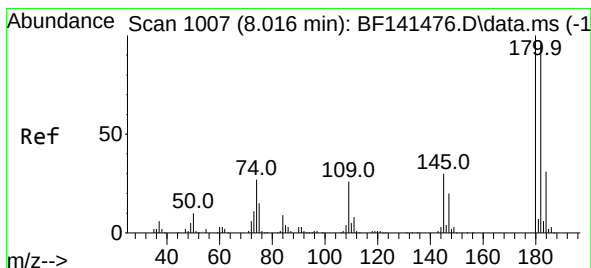
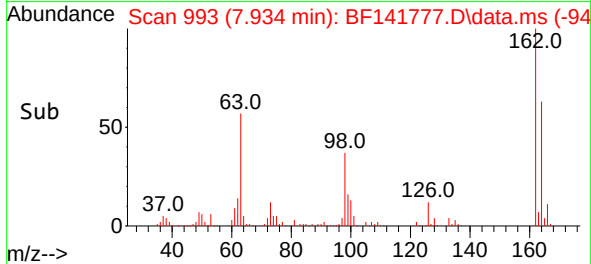
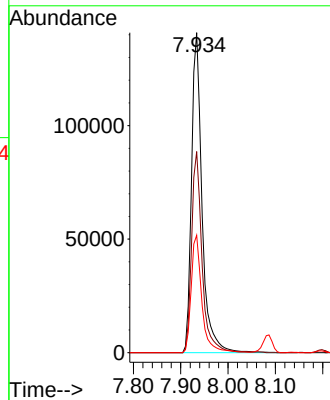
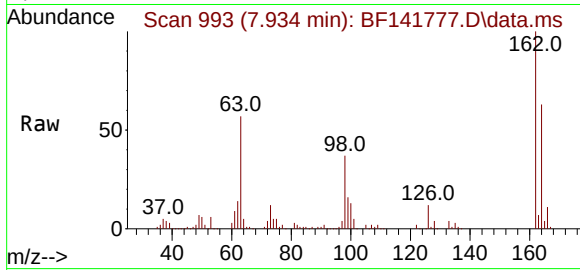
98 36.7 17.2 57.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#30

1,2,4-Trichlorobenzene

Concen: 44.071 ng

RT: 8.004 min Scan# 1005

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

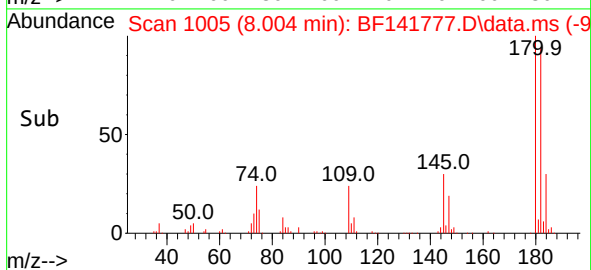
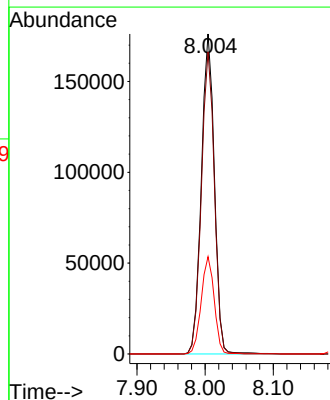
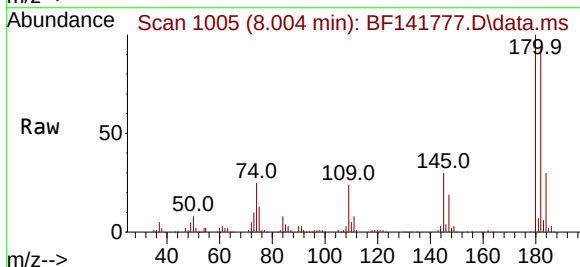
Tgt Ion:180 Resp: 233773

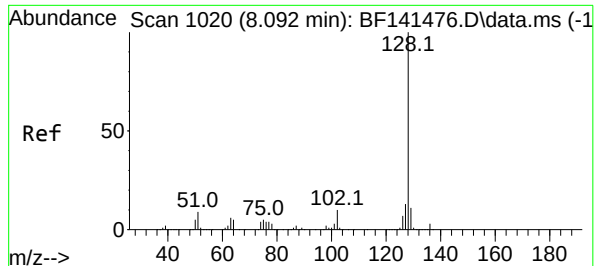
Ion Ratio Lower Upper

180 100

182 94.4 76.8 115.2

145 30.4 24.2 36.4





#31

Naphthalene

Concen: 42.891 ng

RT: 8.086 min Scan# 1019

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:128 Resp: 740752

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

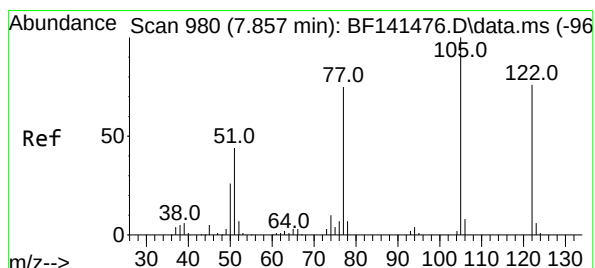
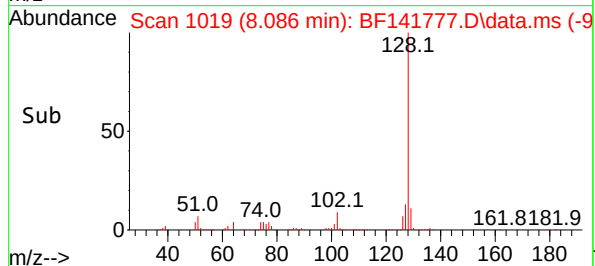
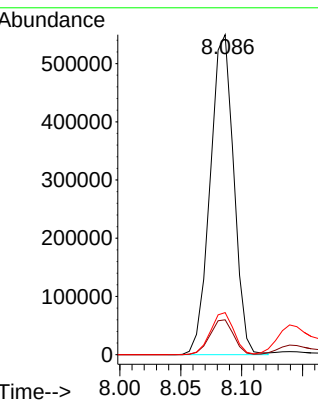
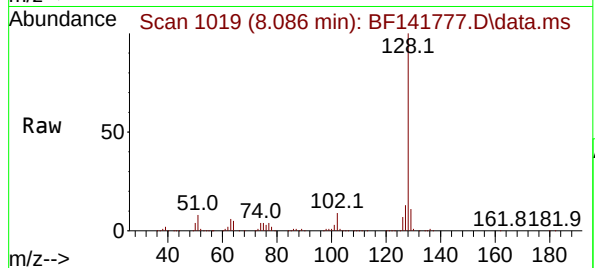
127 13.2 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#32

Benzoic acid

Concen: 36.518 ng

RT: 7.875 min Scan# 983

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

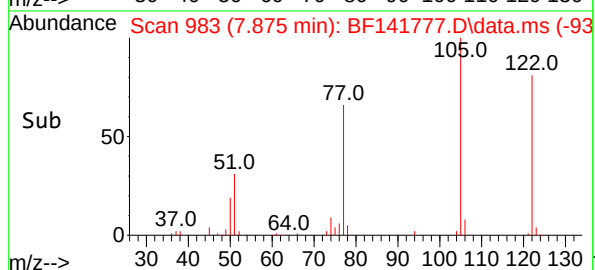
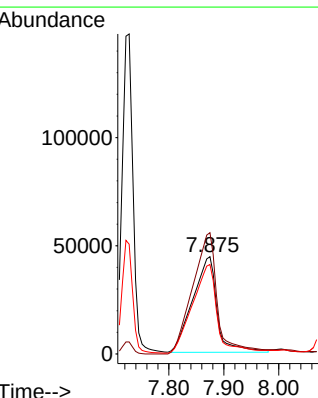
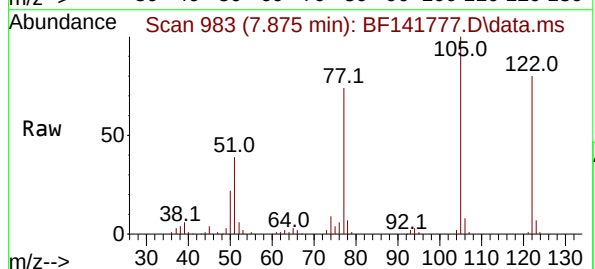
Tgt Ion:122 Resp: 136752

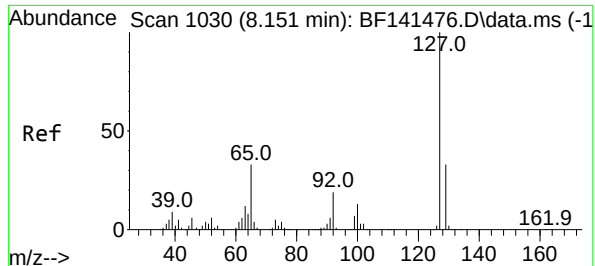
Ion Ratio Lower Upper

122 100

105 124.7 106.5 146.5

77 92.0 76.3 116.3





#33

4-Chloroaniline

Concen: 22.325 ng

RT: 8.139 min Scan# 1030

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:127 Resp: 13461

Ion Ratio Lower Upper

127 100

129 32.2 26.5 39.7

65 29.9 26.4 39.6

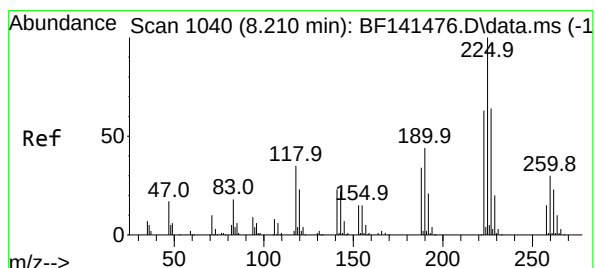
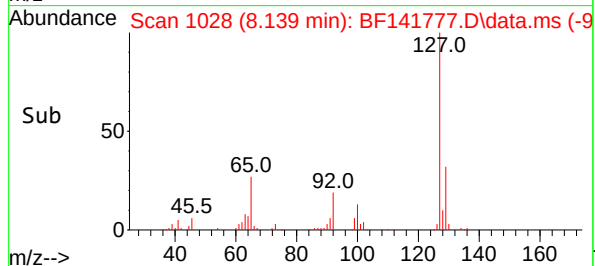
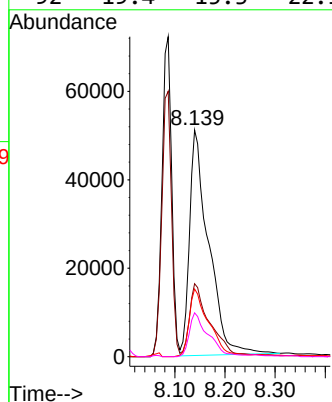
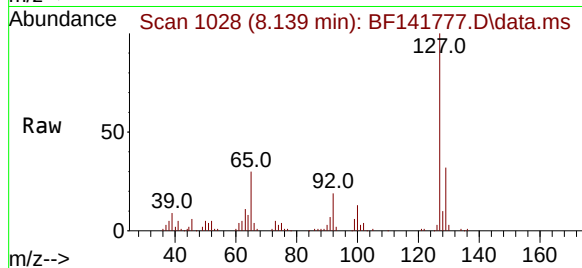
92 19.4 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#34

Hexachlorobutadiene

Concen: 44.702 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

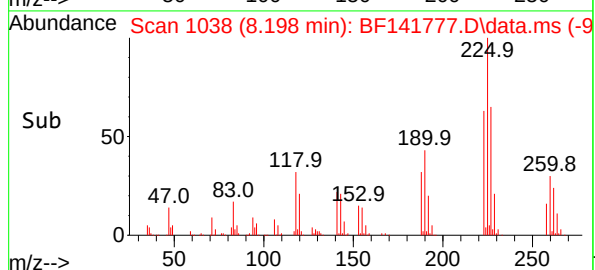
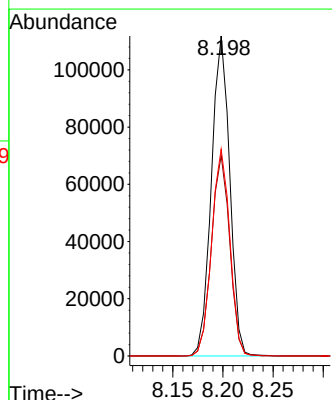
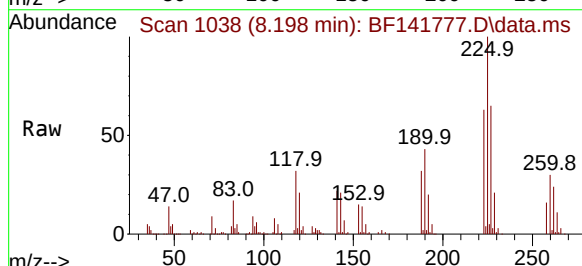
Tgt Ion:225 Resp: 142354

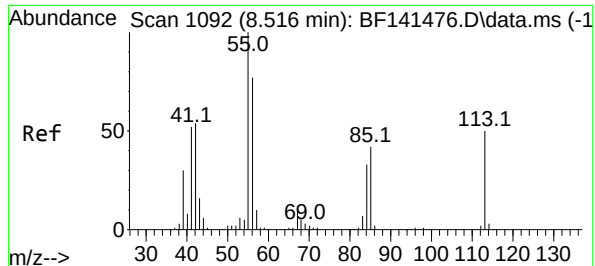
Ion Ratio Lower Upper

225 100

223 62.6 50.1 75.1

227 64.7 51.0 76.6





#35

Caprolactam

Concen: 51.646 ng m

RT: 8.516 min Scan# 1092

Delta R.T. -0.029 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:113 Resp: 7659

Ion Ratio Lower Upper

113 100

55 172.8 180.8 220.8

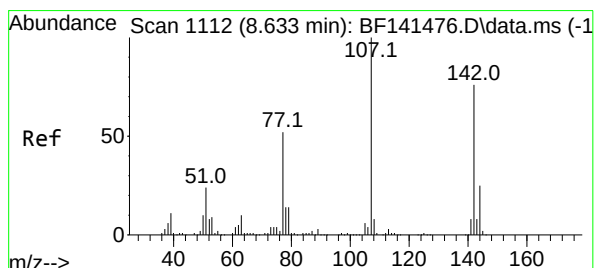
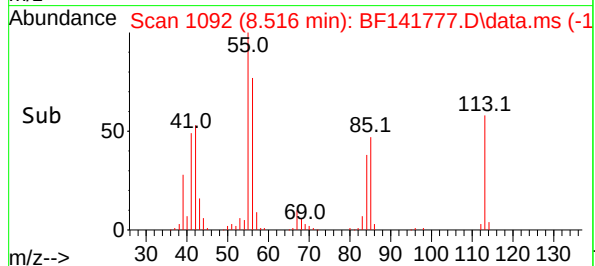
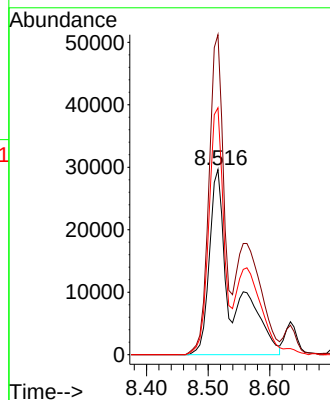
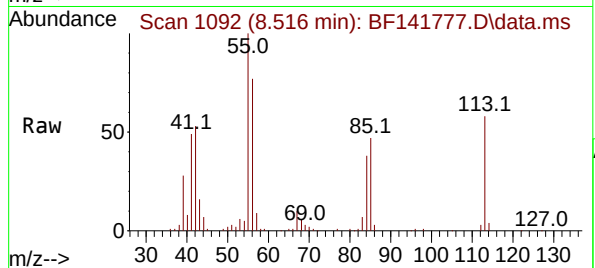
56 133.3 133.6 173.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#36

4-Chloro-3-methylphenol

Concen: 43.534 ng

RT: 8.633 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

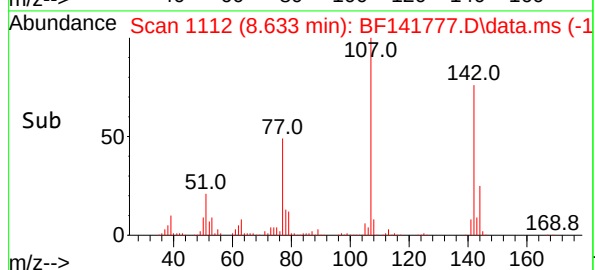
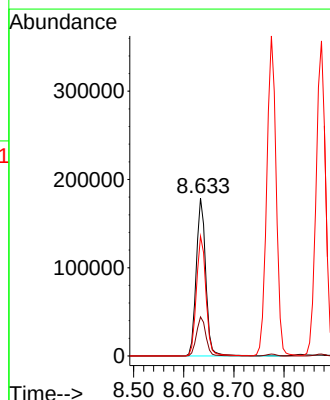
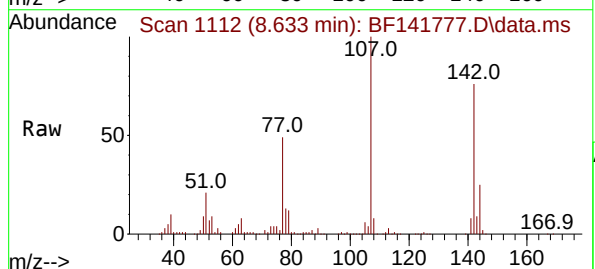
Tgt Ion:107 Resp: 234899

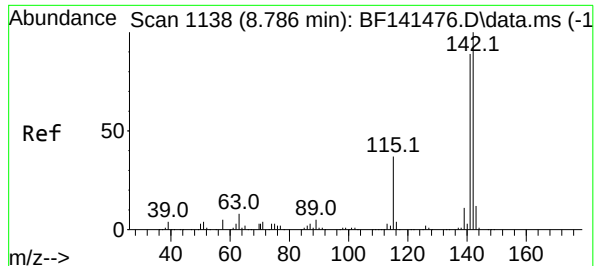
Ion Ratio Lower Upper

107 100

144 24.7 19.7 29.5

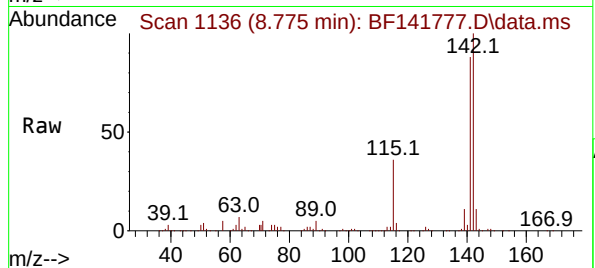
142 75.8 60.8 91.2





#37
2-Methylnaphthalene
Concen: 41.950 ng
RT: 8.775 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

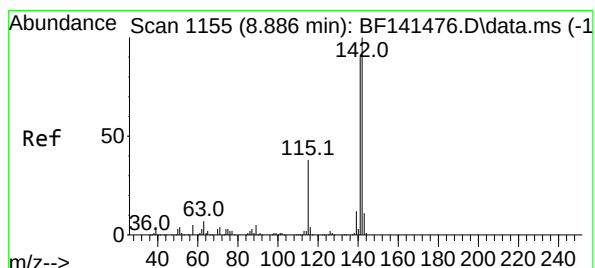
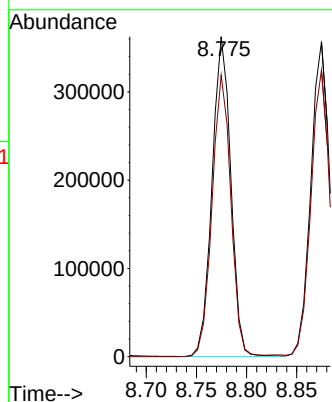
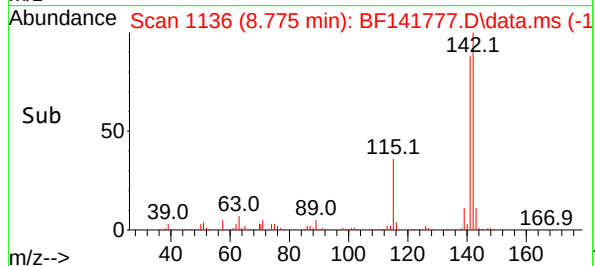
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:142 Resp: 471459
Ion Ratio Lower Upper
142 100
141 88.0 71.2 106.8

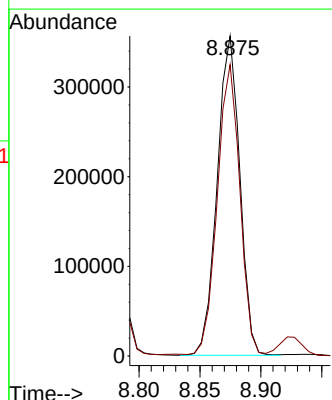
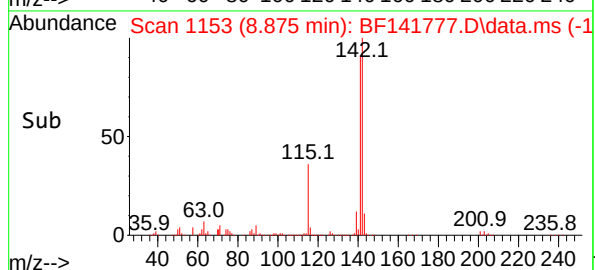
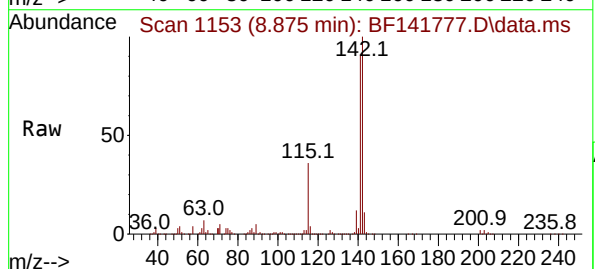
Manual Integrations
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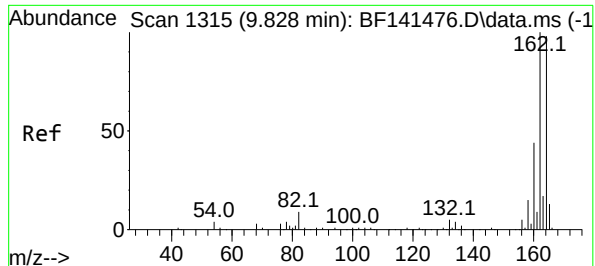
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#38
1-Methylnaphthalene
Concen: 42.273 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:142 Resp: 460135
Ion Ratio Lower Upper
142 100
141 91.0 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1165

Delta R.T. -0.018 min

Lab File: BF141777.D

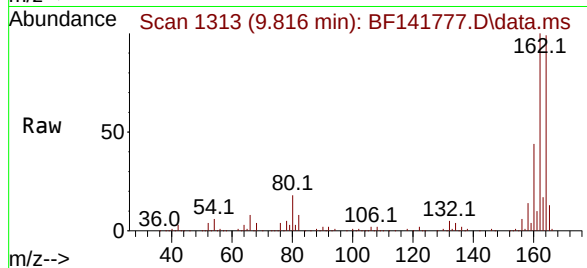
Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS



Tgt Ion:164 Resp: 18036

Ion Ratio Lower Upper

164 100

162 101.2 81.3 121.9

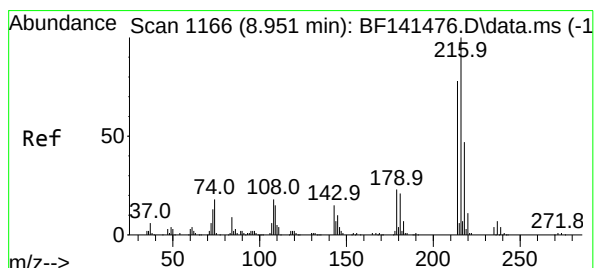
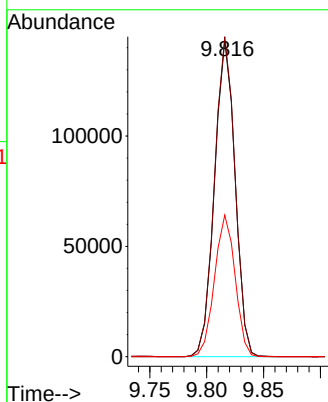
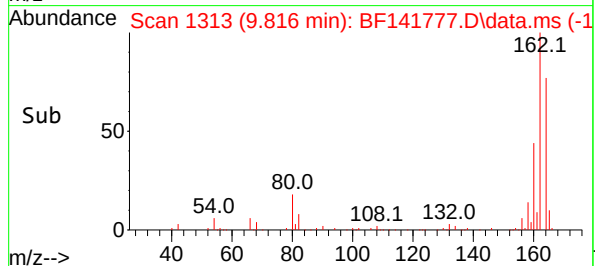
160 44.8 35.9 53.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#40

1,2,4,5-Tetrachlorobenzene

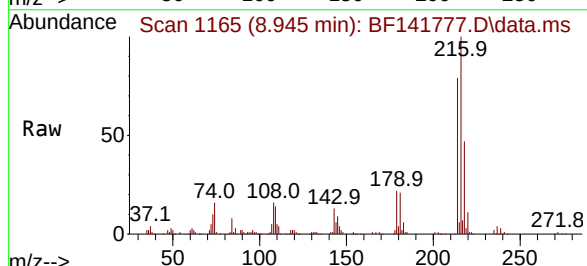
Concen: 50.141 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19



Tgt Ion:216 Resp: 261645

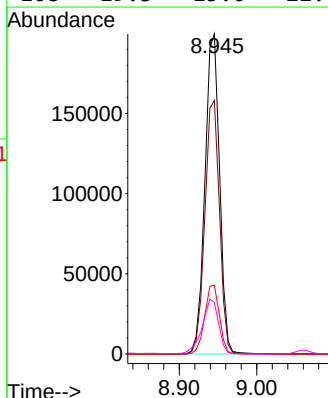
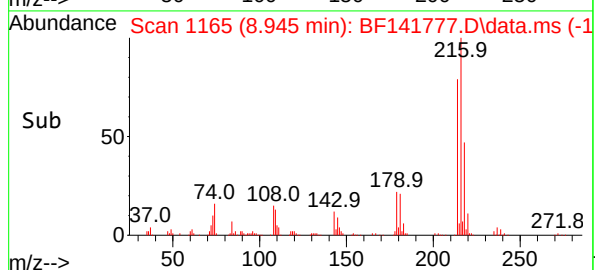
Ion Ratio Lower Upper

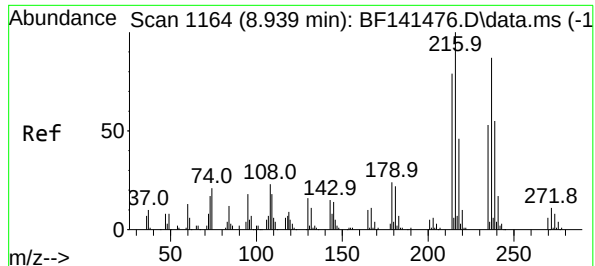
216 100

214 79.3 62.3 93.5

179 21.6 18.0 27.0

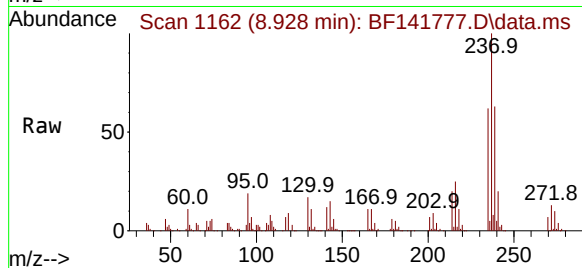
108 19.3 15.0 22.6





#41
Hexachlorocyclopentadiene
Concen: 127.788 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

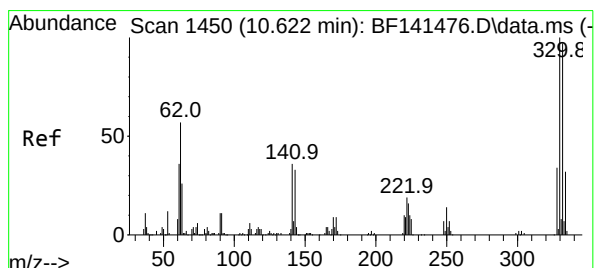
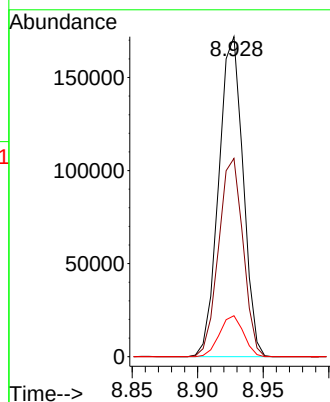
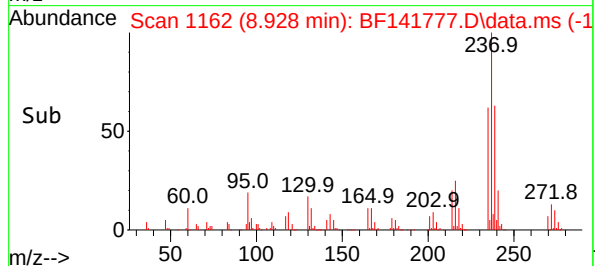
Instrument :
BNA_F
ClientSampleId :
PB166853BS



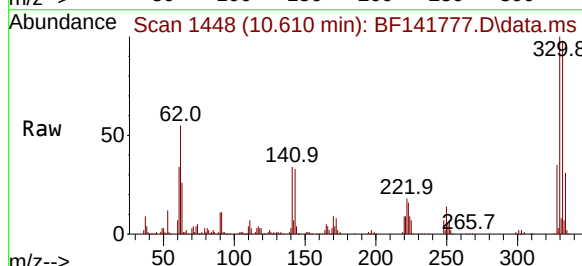
Tgt Ion: 237 Resp: 221790
Ion Ratio Lower Upper
237 100
235 61.9 41.4 81.4
272 12.8 0.0 32.4

Manual Integrations
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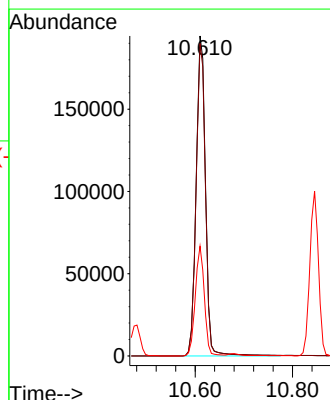
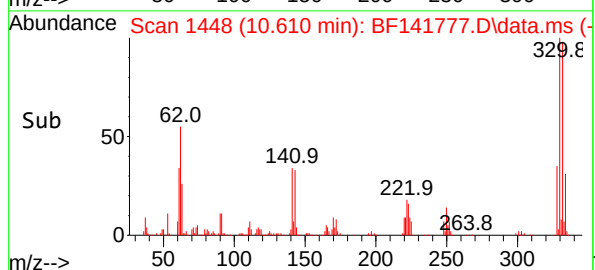
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

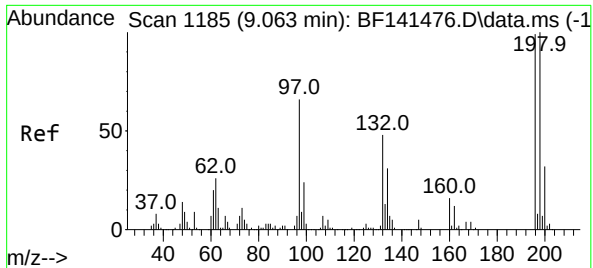


#42
2,4,6-Tribromophenol
Concen: 144.676 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



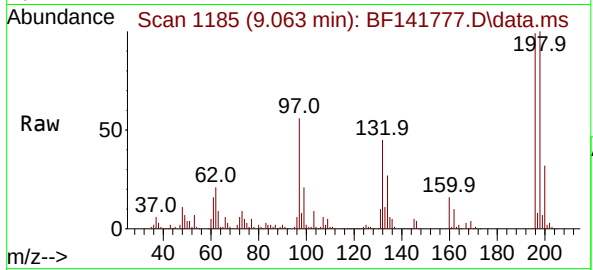
Tgt Ion: 330 Resp: 262131
Ion Ratio Lower Upper
330 100
332 97.9 78.5 117.7
141 33.2 31.0 46.4





#43
2,4,6-Trichlorophenol
Concen: 44.513 ng
RT: 9.063 min Scan# 1185
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

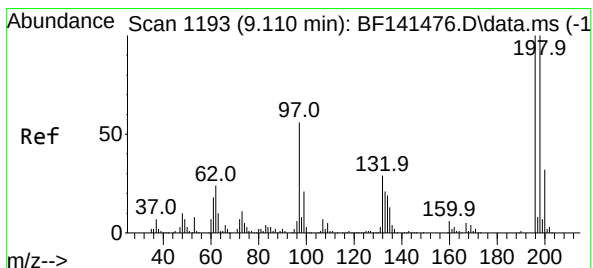
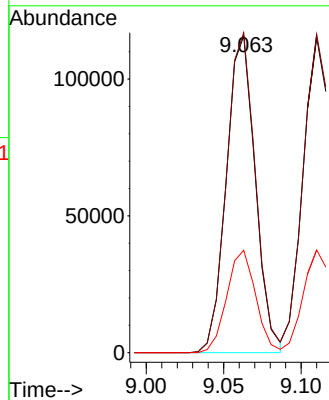
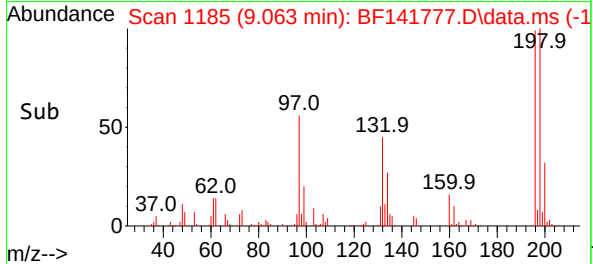
Instrument :
BNA_F
ClientSampleId :
PB166853BS



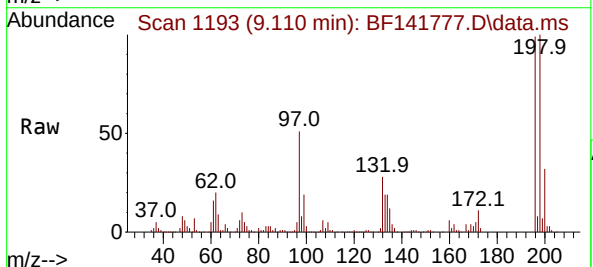
Tgt Ion:196 Resp: 15012
Ion Ratio Lower Upper
196 100
198 101.0 80.6 121.0
200 32.3 25.5 38.3

Manual Integrations
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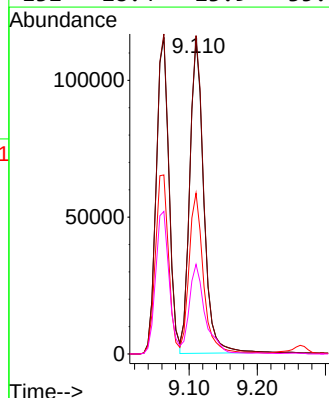
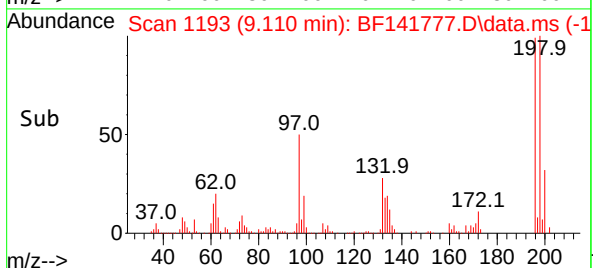
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

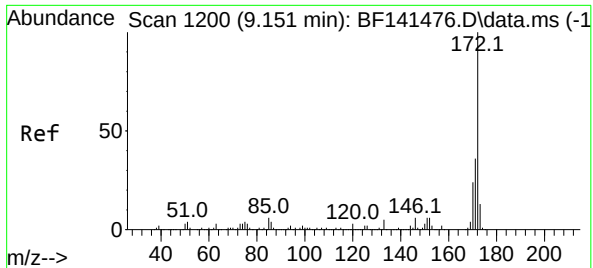


#44
2,4,5-Trichlorophenol
Concen: 44.581 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



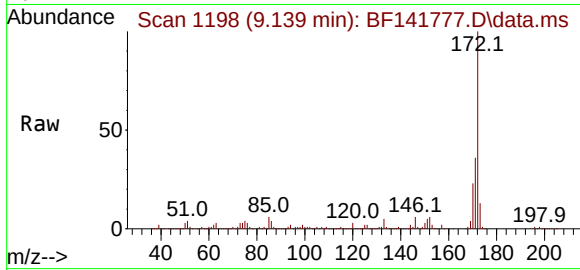
Tgt Ion:196 Resp: 162948
Ion Ratio Lower Upper
196 100
198 101.0 79.8 119.8
97 51.0 44.8 67.2
132 28.4 23.9 35.9





#45
2-Fluorobiphenyl
Concen: 95.879 ng
RT: 9.139 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

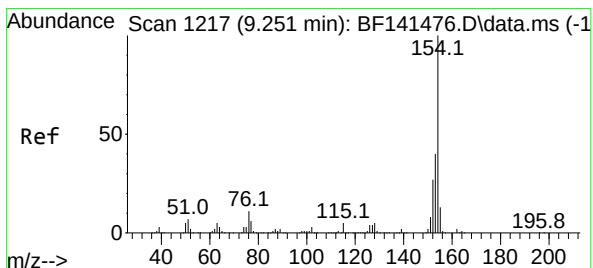
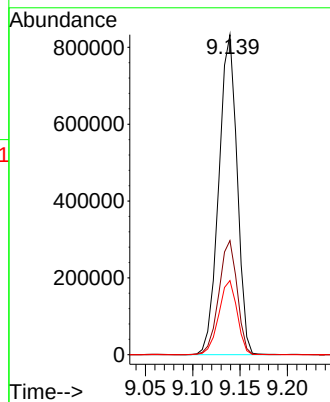
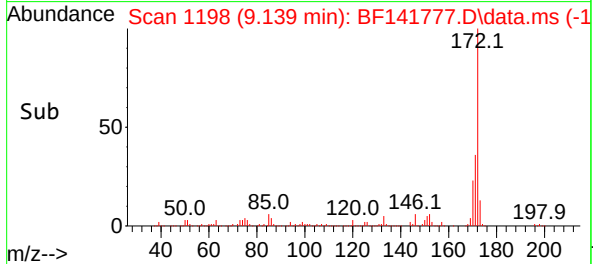
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:172 Resp: 112246
Ion Ratio Lower Upper
172 100
171 35.6 28.7 43.1
170 23.2 18.9 28.3

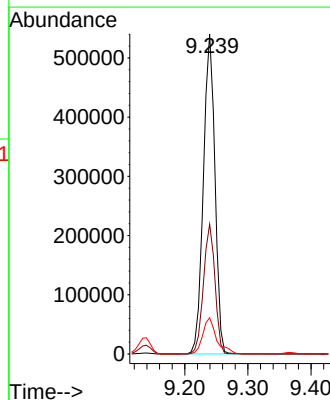
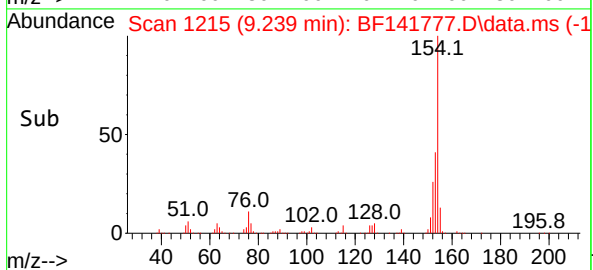
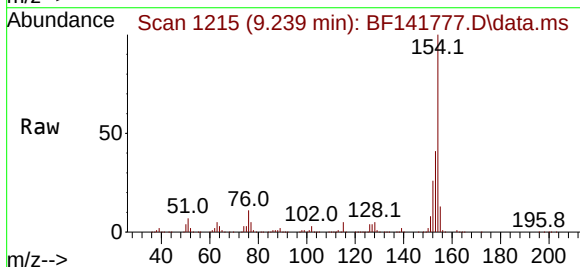
Manual Integrations
APPROVED

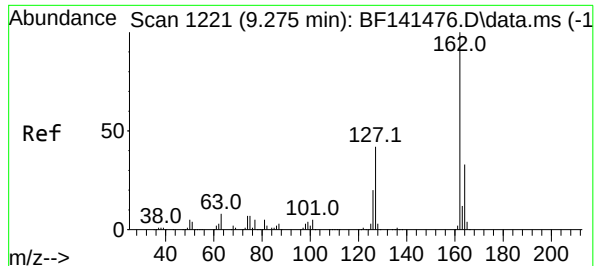
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#46
1,1'-Biphenyl
Concen: 49.122 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:154 Resp: 686888
Ion Ratio Lower Upper
154 100
153 40.6 20.4 60.4
76 11.3 0.0 30.8





#47

2-Chloronaphthalene

Concen: 45.482 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:162 Resp: 470290

Ion Ratio Lower Upper

162 100

127 41.0 34.1 51.1

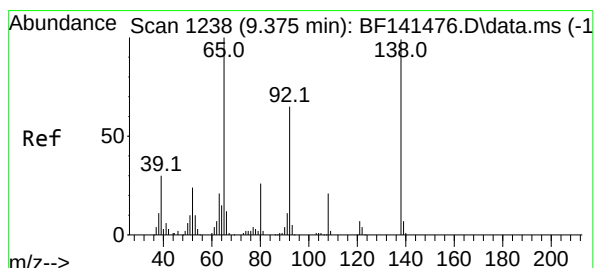
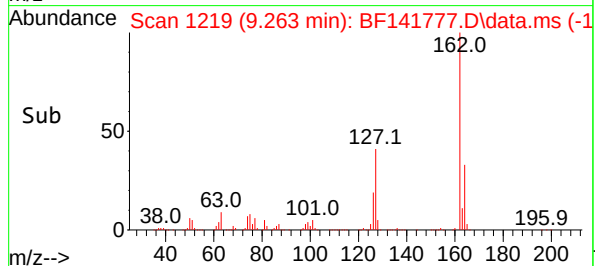
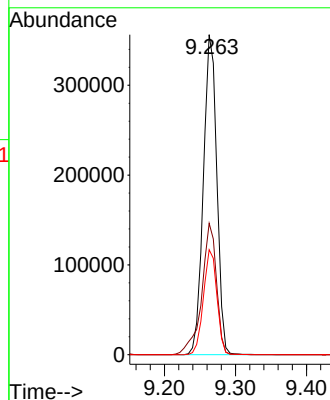
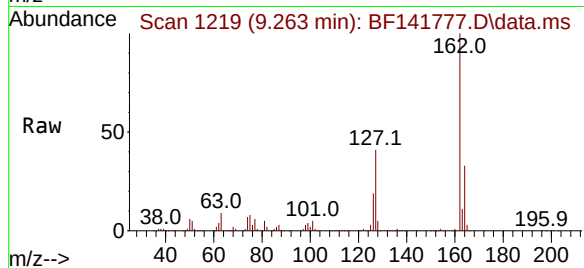
164 32.8 26.3 39.5

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#48

2-Nitroaniline

Concen: 42.345 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

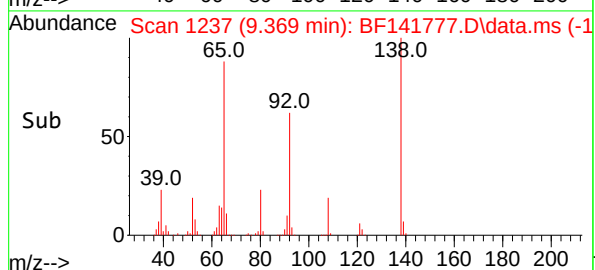
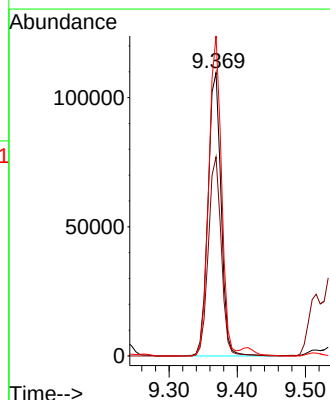
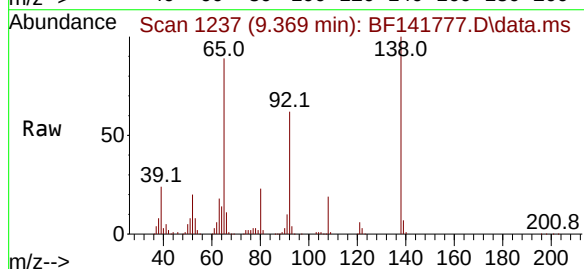
Tgt Ion: 65 Resp: 146947

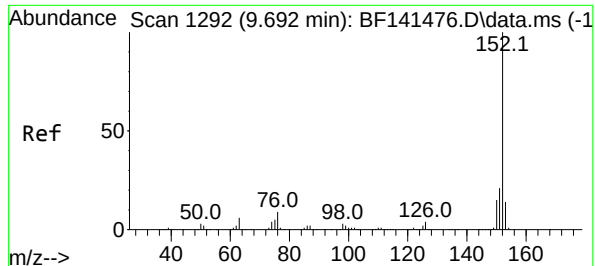
Ion Ratio Lower Upper

65 100

92 70.2 52.2 78.2

138 112.9 79.5 119.3





#49

Acenaphthylene

Concen: 46.929 ng

RT: 9.681 min Scan# 1290

Delta R.T. -0.012 min

Lab File: BF141777.D

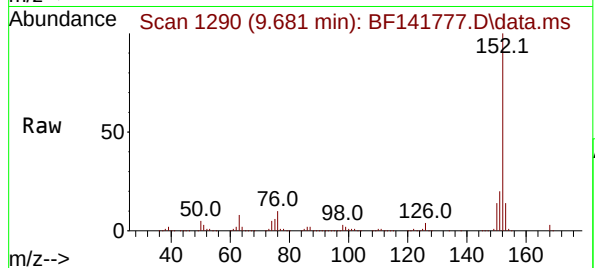
Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

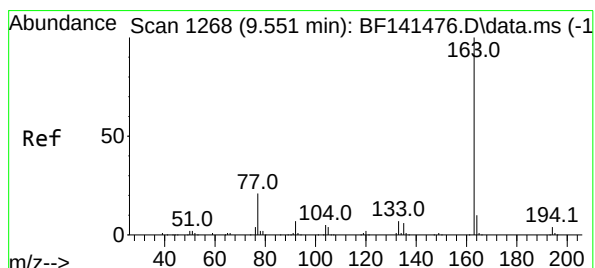
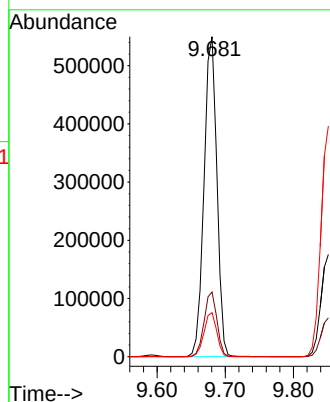
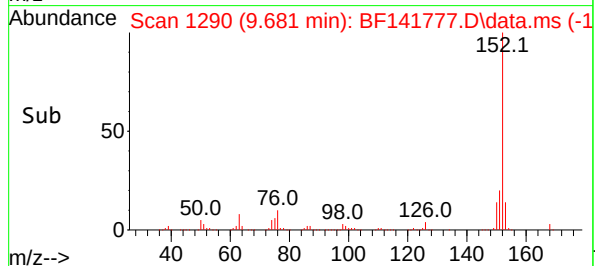


Tgt Ion:	152	Resp:	721764
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#50

Dimethylphthalate

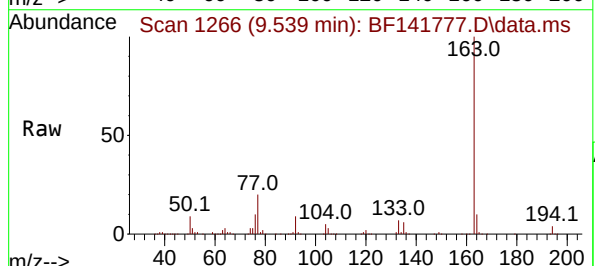
Concen: 46.687 ng

RT: 9.539 min Scan# 1266

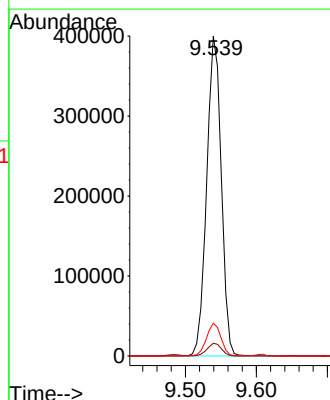
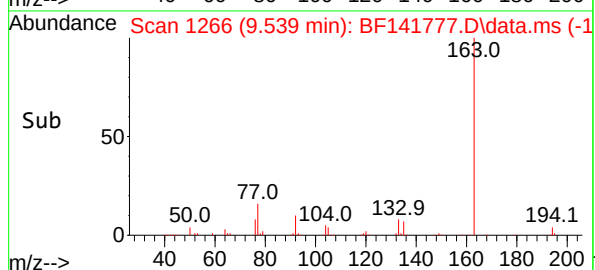
Delta R.T. -0.023 min

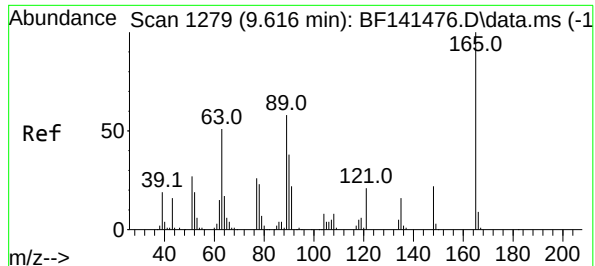
Lab File: BF141777.D

Acq: 26 Feb 2025 12:19



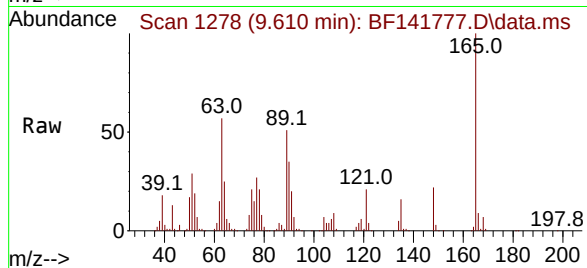
Tgt Ion:	163	Resp:	571666
Ion Ratio	Lower	Upper	
163	100		
194	3.9	3.0	4.4
164	10.2	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 46.887 ng
RT: 9.610 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

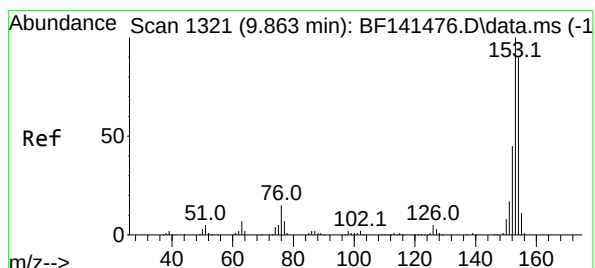
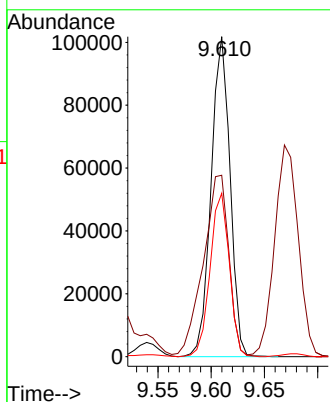
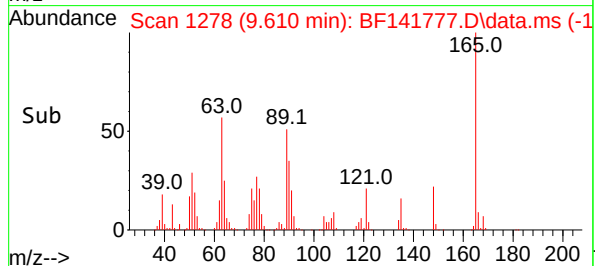
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:165 Resp: 12550
Ion Ratio Lower Upper
165 100
63 56.7 49.4 74.0
89 51.0 46.5 69.7

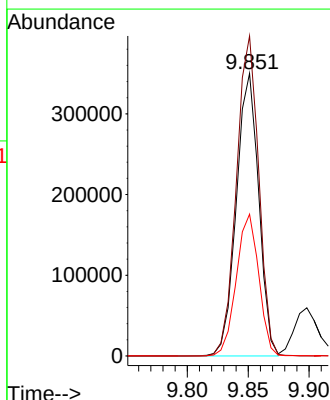
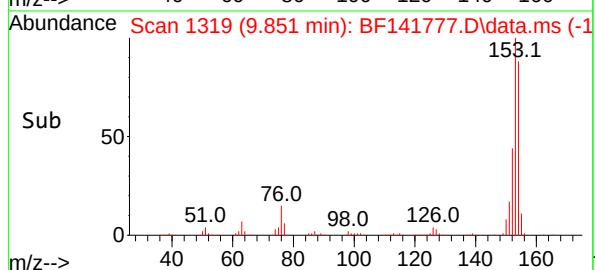
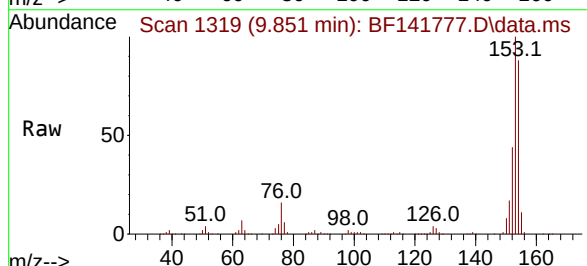
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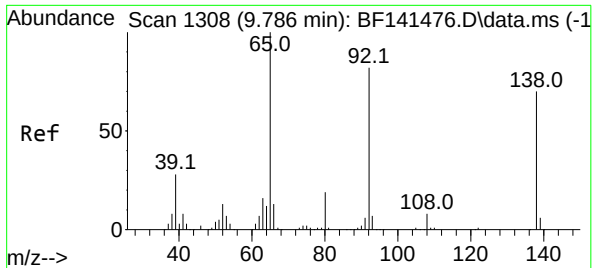
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#52
Acenaphthene
Concen: 43.338 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

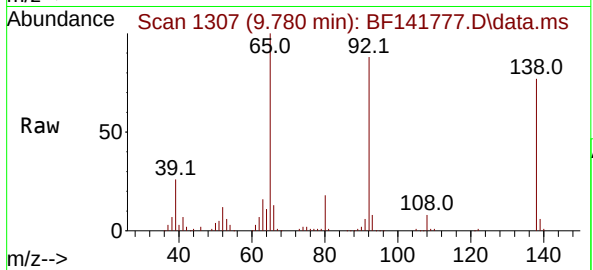
Tgt Ion:154 Resp: 448107
Ion Ratio Lower Upper
154 100
153 113.3 89.2 133.8
152 50.2 39.8 59.8





#53
3-Nitroaniline
Concen: 27.343 ng
RT: 9.780 min Scan# 1308
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

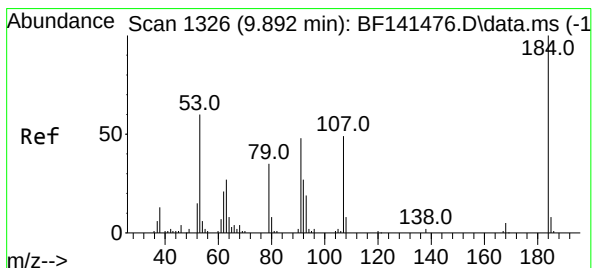
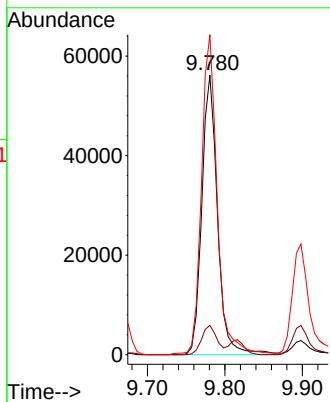
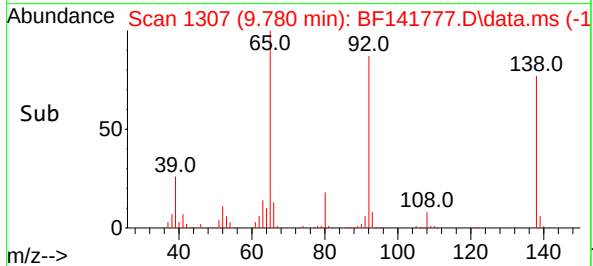
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:138 Resp: 78775
Ion Ratio Lower Upper
138 100
108 10.5 9.0 13.4
92 114.5 93.7 140.5

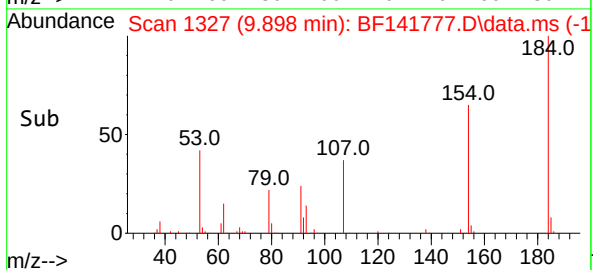
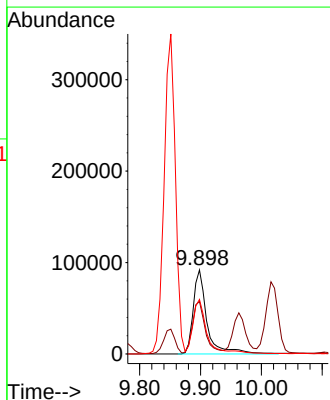
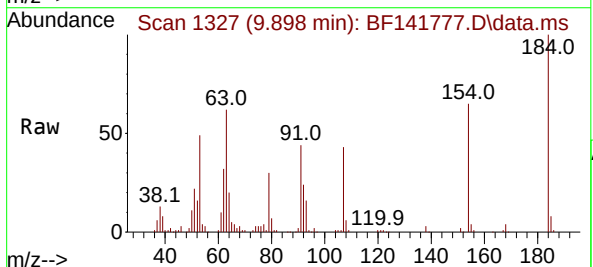
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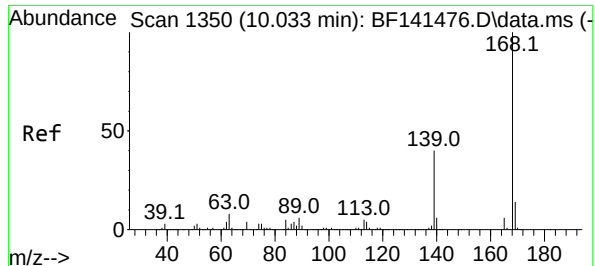
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#54
2,4-Dinitrophenol
Concen: 91.073 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:184 Resp: 144884
Ion Ratio Lower Upper
184 100
63 62.4 61.0 91.6
154 65.0 59.9 89.9





#55

Dibenzenofuran

Concen: 42.845 ng

RT: 10.022 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:168 Resp: 650259

Ion Ratio Lower Upper

168 100

139 39.5 32.7 49.1

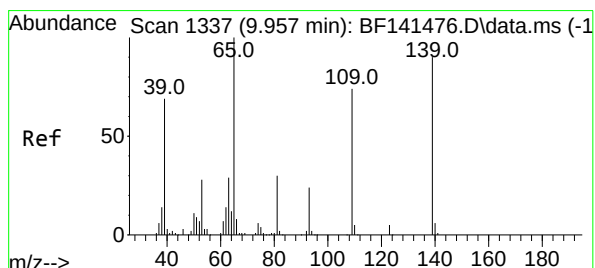
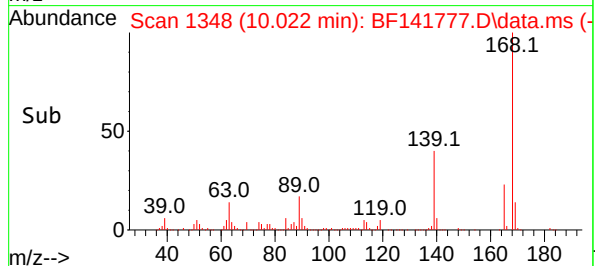
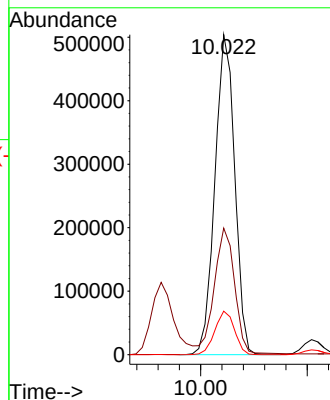
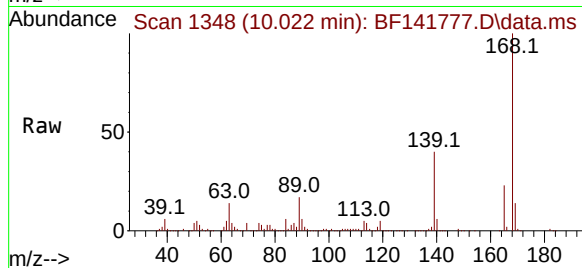
169 13.6 10.8 16.2

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#56

4-Nitrophenol

Concen: 77.235 ng

RT: 9.963 min Scan# 1338

Delta R.T. -0.006 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

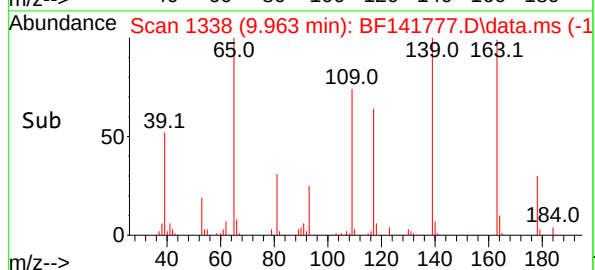
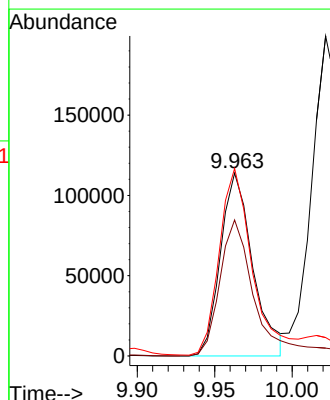
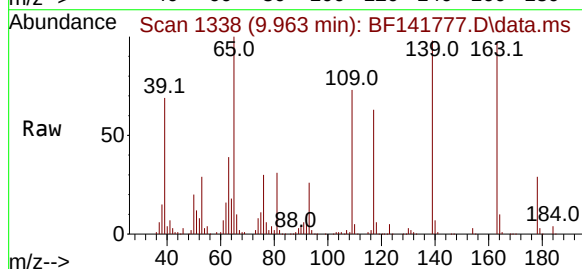
Tgt Ion:139 Resp: 165178

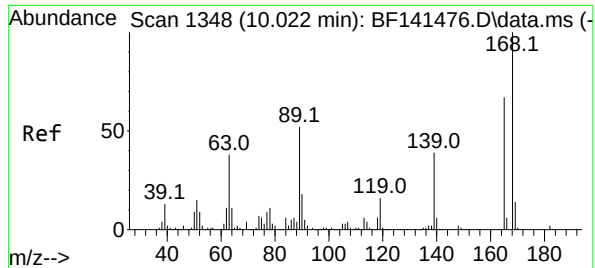
Ion Ratio Lower Upper

139 100

109 74.3 62.0 102.0

65 102.5 91.2 131.2





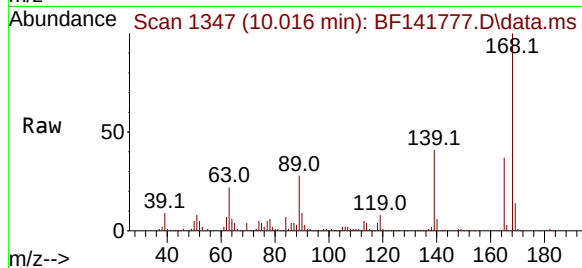
#57
2,4-Dinitrotoluene
Concen: 46.946 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

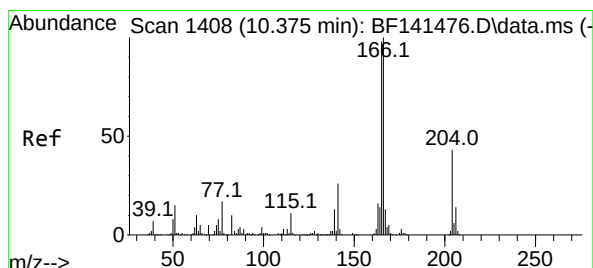
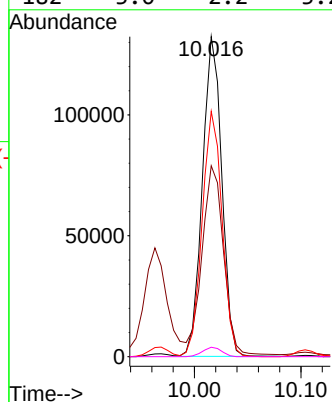
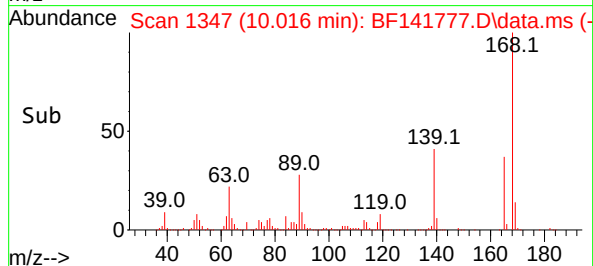


Tgt Ion:165 Resp: 16728
Ion Ratio Lower Upper
165 100
63 59.6 46.4 69.6
89 76.7 61.8 92.6
182 3.0 2.2 3.2

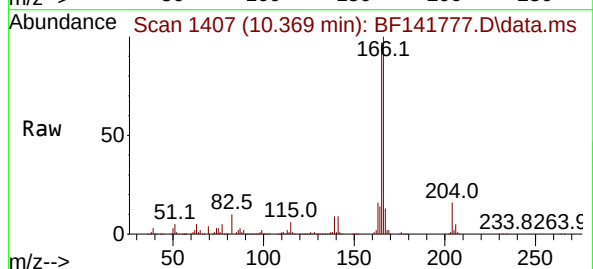
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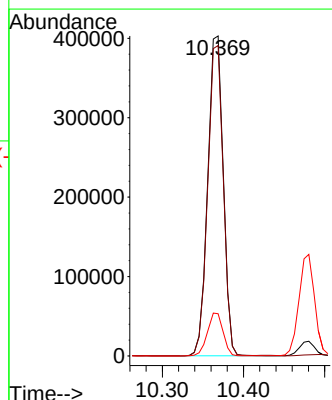
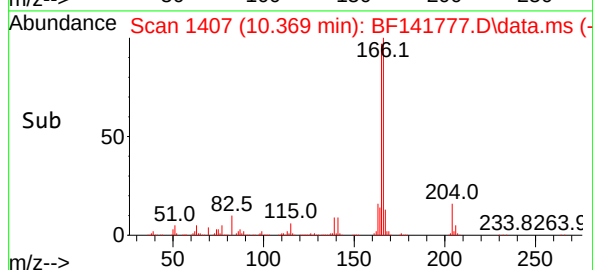
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

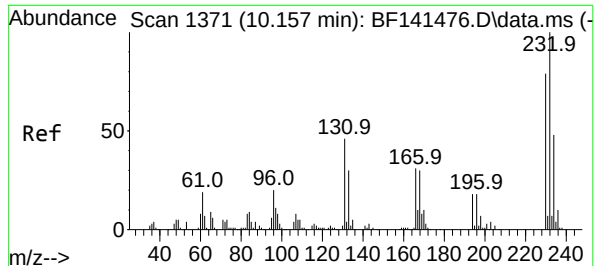


#58
Fluorene
Concen: 45.550 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



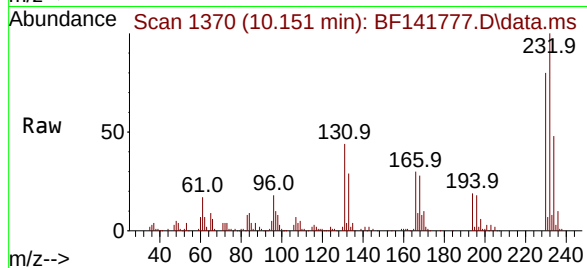
Tgt Ion:166 Resp: 534517
Ion Ratio Lower Upper
166 100
165 97.0 78.2 117.2
167 13.2 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 45.087 ng
RT: 10.151 min Scan# 1371
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

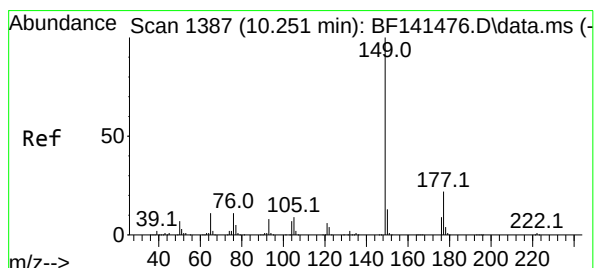
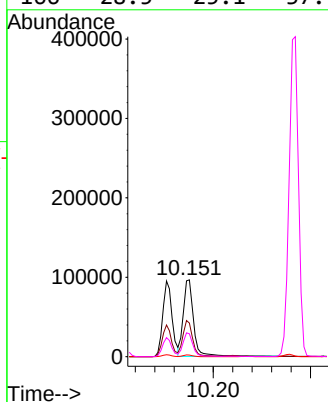
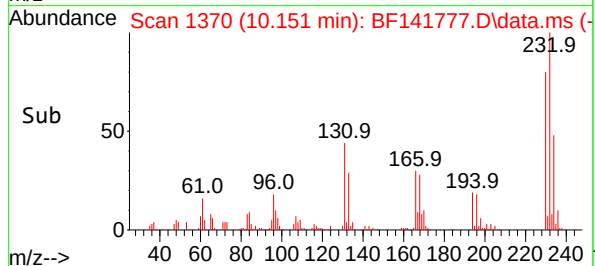
Instrument :
BNA_F
ClientSampleId :
PB166853BS



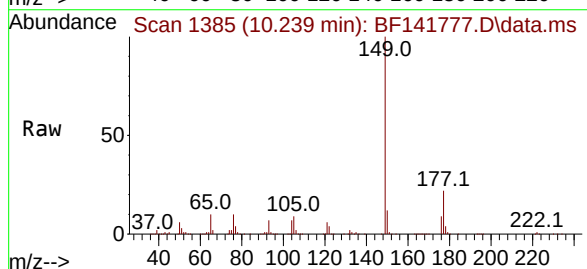
Tgt Ion:232 Resp: 141879
Ion Ratio Lower Upper
232 100
131 44.4 39.2 58.8
130 2.1 2.1 3.1
166 28.5 25.1 37.7

Manual Integrations
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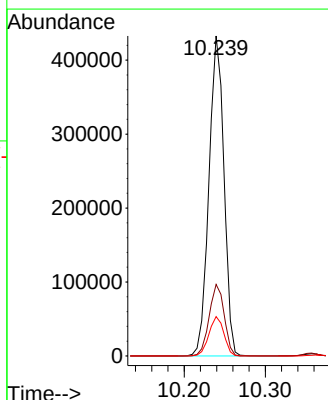
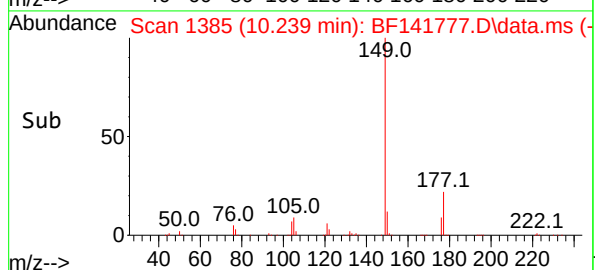
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

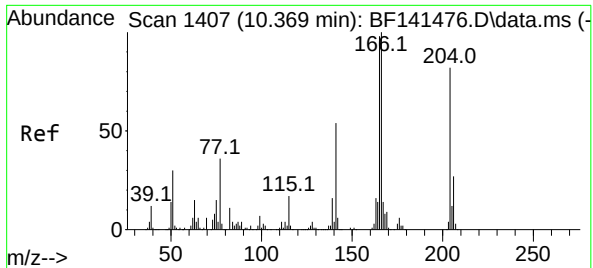


#60
Diethylphthalate
Concen: 46.112 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



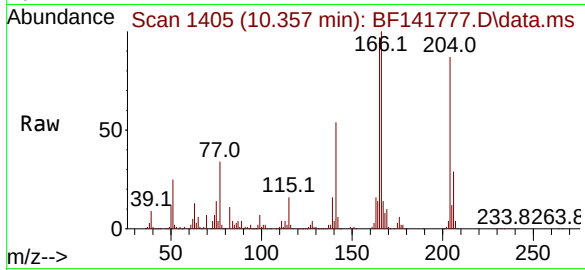
Tgt Ion:149 Resp: 555522
Ion Ratio Lower Upper
149 100
177 22.4 17.8 26.6
150 12.3 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 46.786 ng
RT: 10.357 min Scan# 1405
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

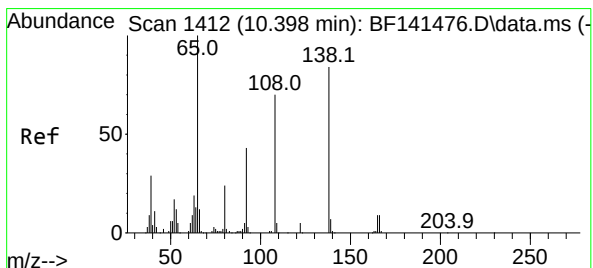
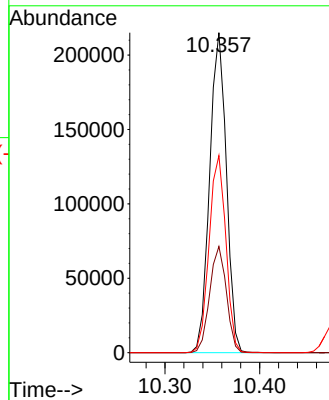
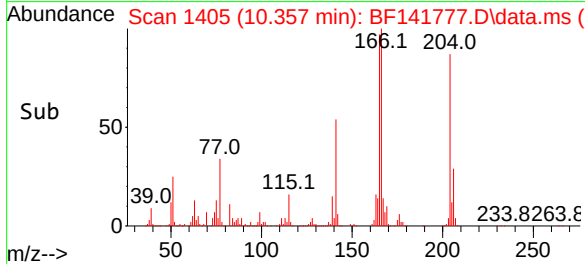
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:204 Resp: 264120
Ion Ratio Lower Upper
204 100
206 33.2 26.6 40.0
141 61.6 51.9 77.9

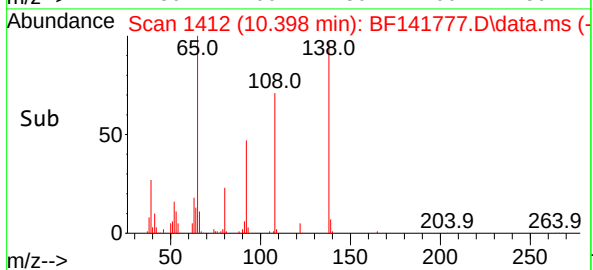
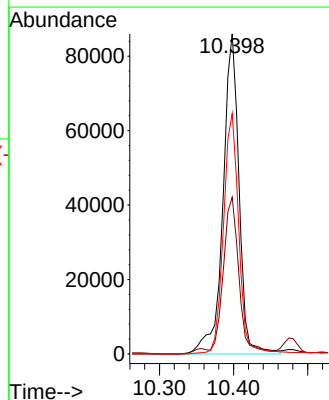
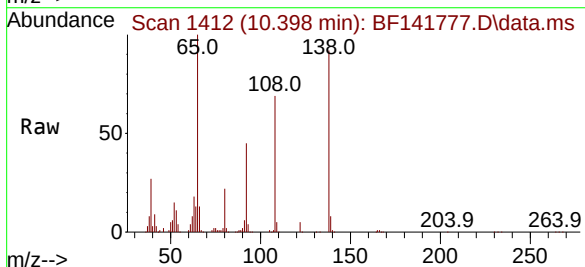
Manual Integrations
APPROVED

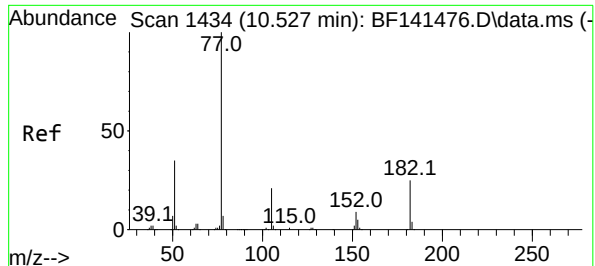
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#62
4-Nitroaniline
Concen: 44.149 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

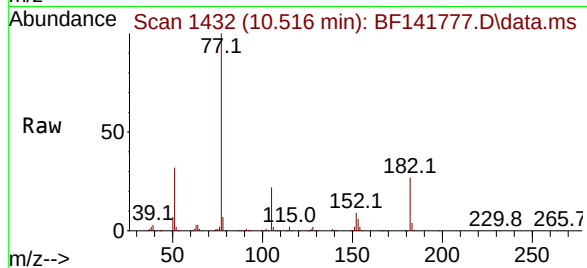
Tgt Ion:138 Resp: 129151
Ion Ratio Lower Upper
138 100
92 49.0 31.3 71.3
108 75.2 63.7 103.7





#63
Azobenzene
Concen: 42.585 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

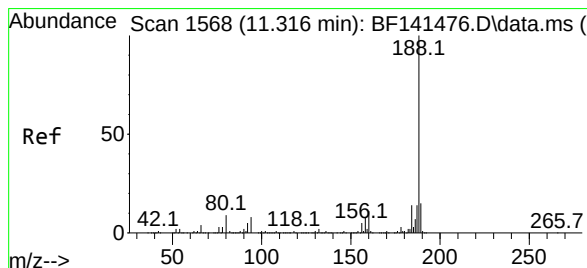
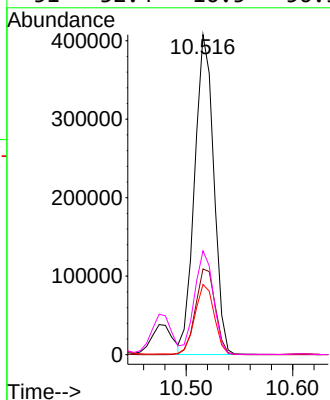
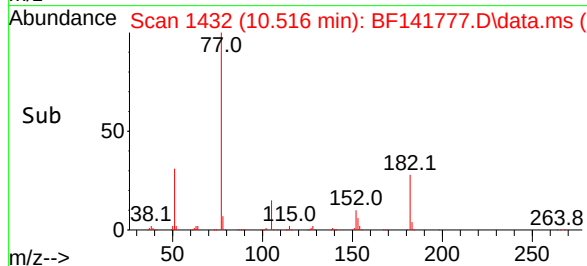
Instrument :
BNA_F
ClientSampleId :
PB166853BS



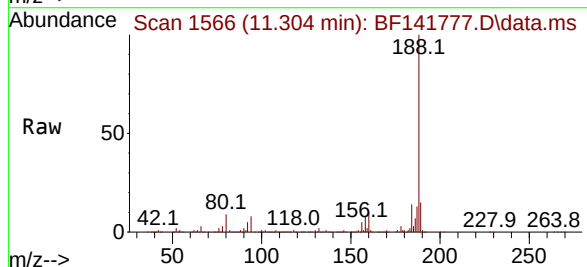
Tgt Ion: 77 Resp: 51001
Ion Ratio Lower Upper
77 100
182 26.8 4.7 44.7
105 22.0 0.4 40.4
51 32.4 16.5 56.5

Manual Integrations
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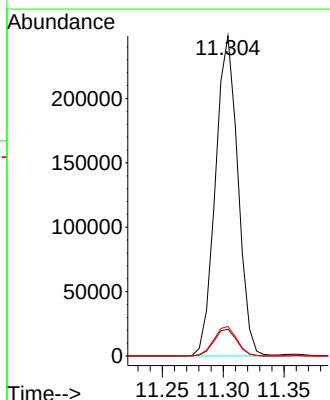
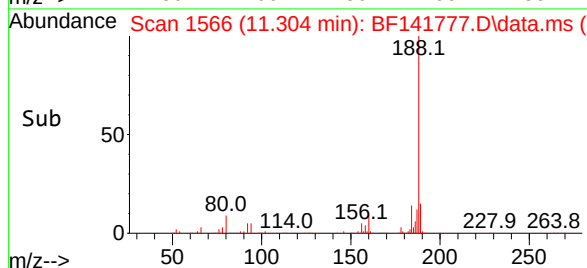
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

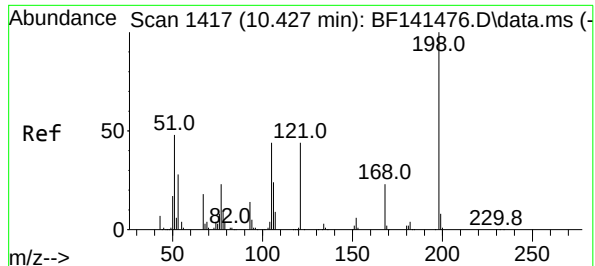


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



Tgt Ion:188 Resp: 319305
Ion Ratio Lower Upper
188 100
94 8.4 6.6 10.0
80 9.2 7.3 10.9





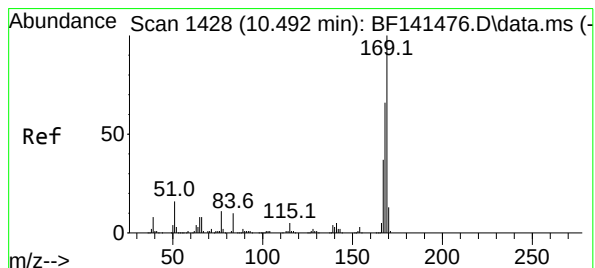
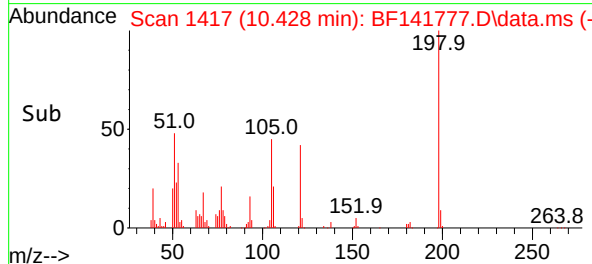
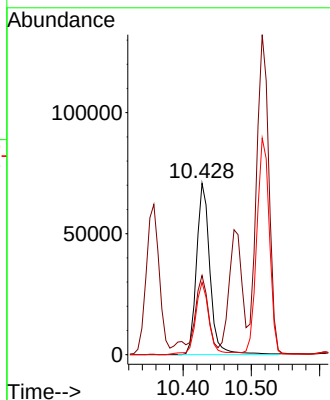
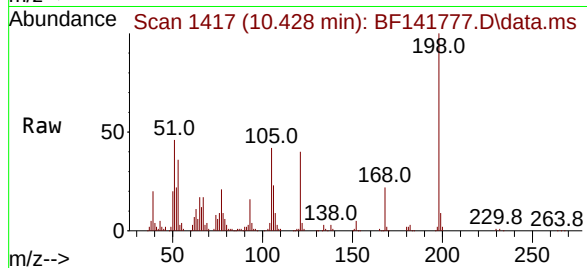
#65
4,6-Dinitro-2-methylphenol
Concen: 43.640 ng
RT: 10.428 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Instrument :
BNA_F
ClientSampleId :
PB166853BS

Tgt Ion:198 Resp: 96790
Ion Ratio Lower Upper
198 100
51 46.2 37.4 77.4
105 42.3 25.2 65.2

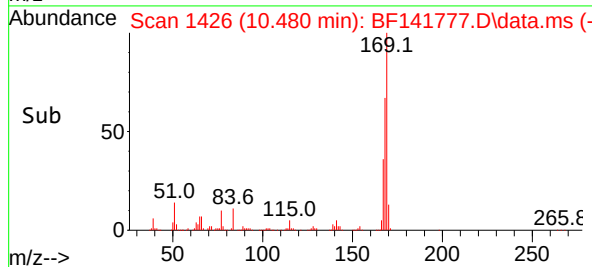
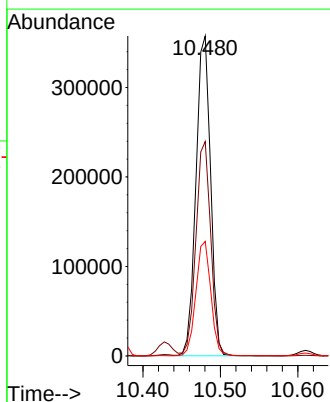
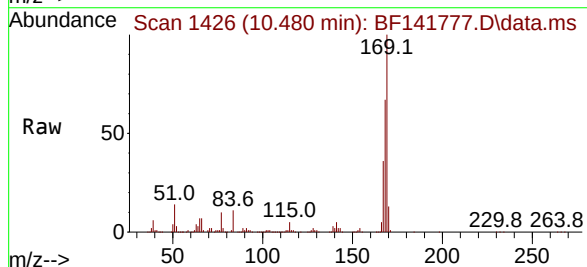
Manual Integrations
APPROVED

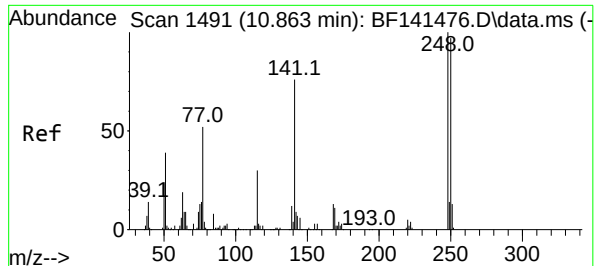
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#66
n-Nitrosodiphenylamine
Concen: 45.682 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

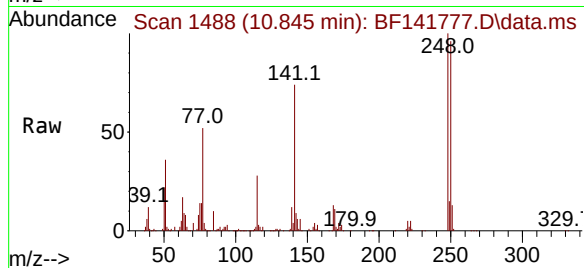
Tgt Ion:169 Resp: 466927
Ion Ratio Lower Upper
169 100
168 67.0 53.3 79.9
167 35.8 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 46.912 ng
RT: 10.845 min Scan# 1491
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

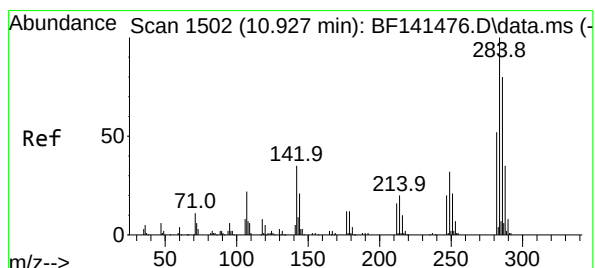
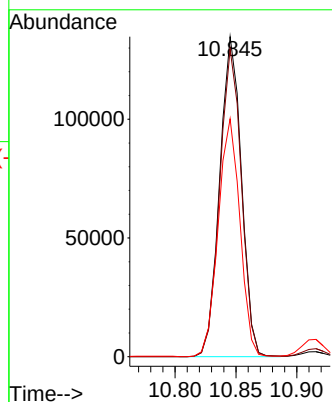
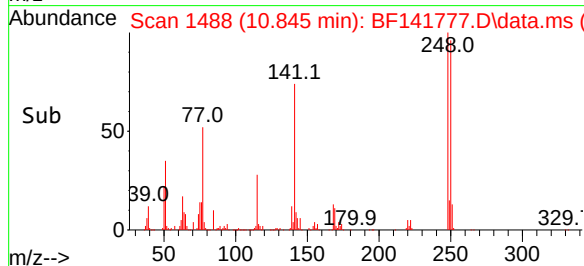
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:248 Resp: 167414
Ion Ratio Lower Upper
248 100
250 96.1 77.8 116.6
141 74.4 60.6 90.8

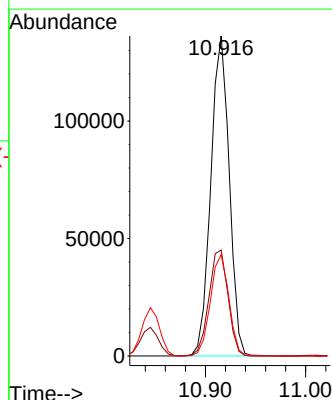
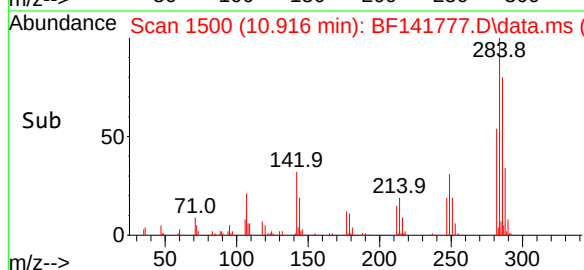
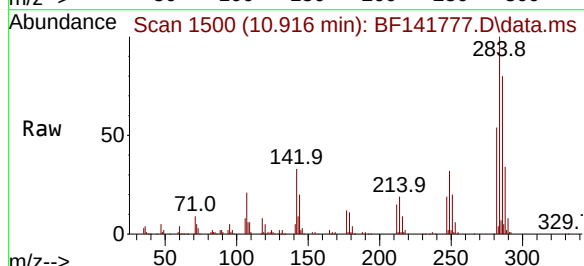
Manual Integrations
APPROVED

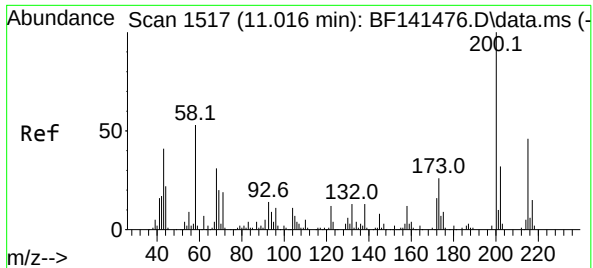
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#68
Hexachlorobenzene
Concen: 47.354 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

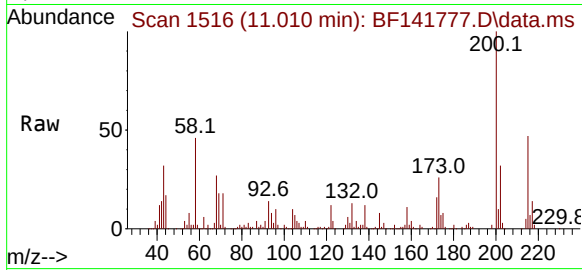
Tgt Ion:284 Resp: 174013
Ion Ratio Lower Upper
284 100
142 33.1 28.0 42.0
249 31.7 25.8 38.8





#69
Atrazine
Concen: 59.801 ng
RT: 11.010 min Scan# 1516
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

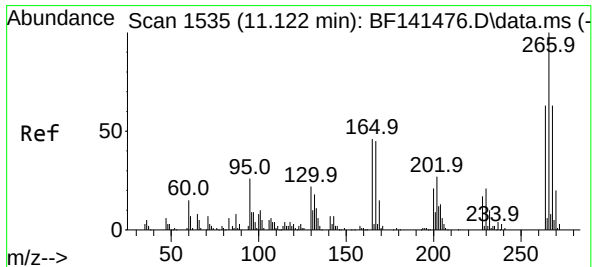
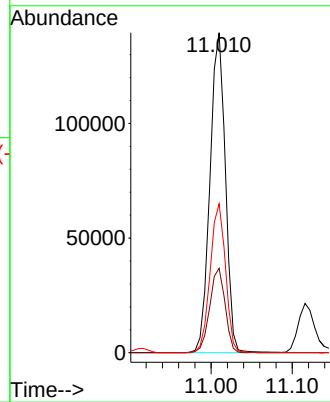
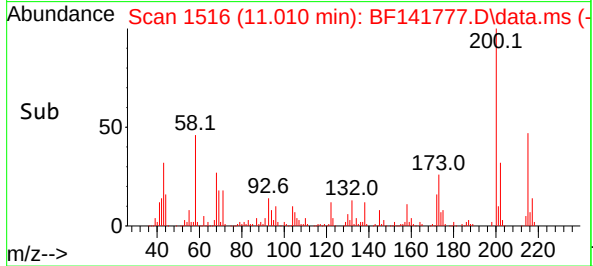
Instrument :
BNA_F
ClientSampleId :
PB166853BS



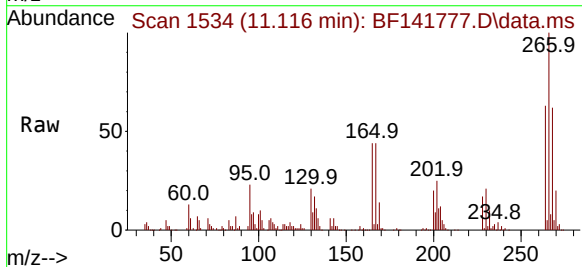
Tgt Ion:200 Resp: 183372
Ion Ratio Lower Upper
200 100
173 26.4 5.9 45.9
215 46.5 25.9 65.9

Manual Integrations
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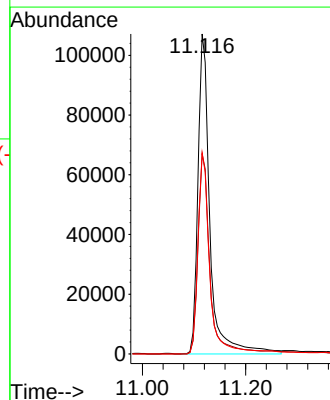
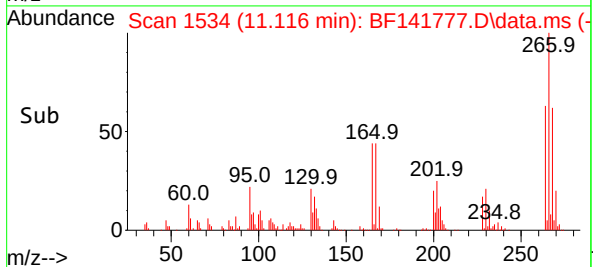
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

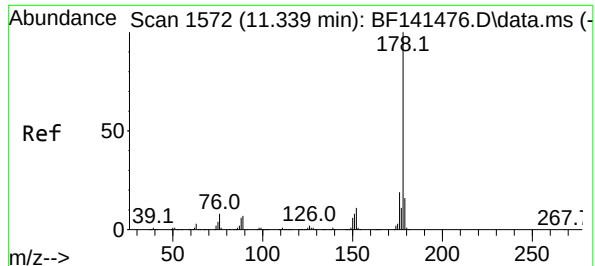


#70
Pentachlorophenol
Concen: 73.399 ng
RT: 11.116 min Scan# 1534
Delta R.T. -0.012 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19



Tgt Ion:266 Resp: 172467
Ion Ratio Lower Upper
266 100
268 62.5 50.1 75.1
264 62.9 50.1 75.1





#71

Phenanthrene

Concen: 45.252 ng

RT: 11.327 min Scan# 1572

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:178 Resp: 795359

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.0

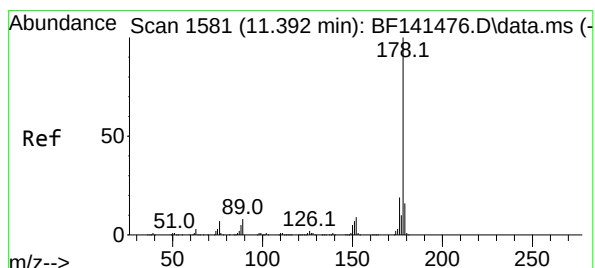
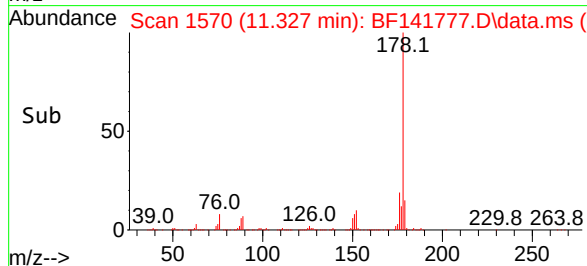
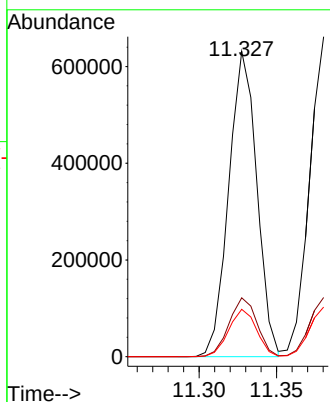
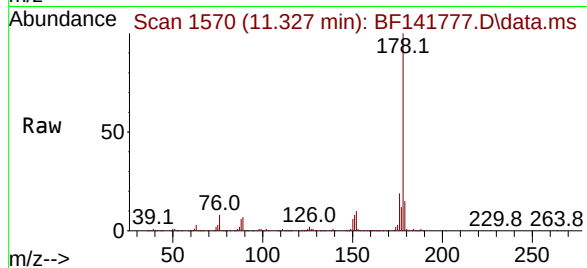
179 15.5 12.4 18.6

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#72

Anthracene

Concen: 47.256 ng

RT: 11.380 min Scan# 1579

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

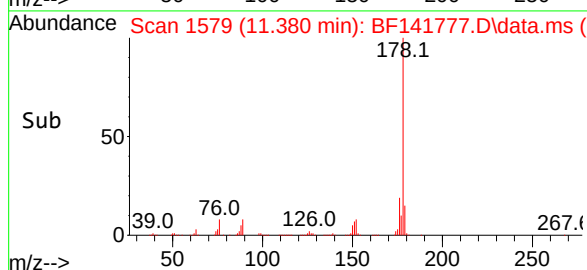
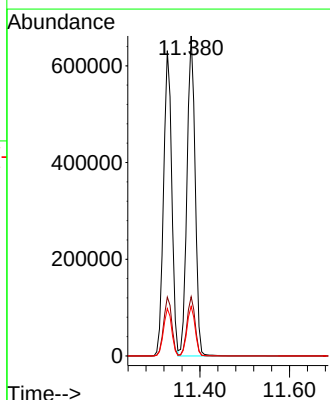
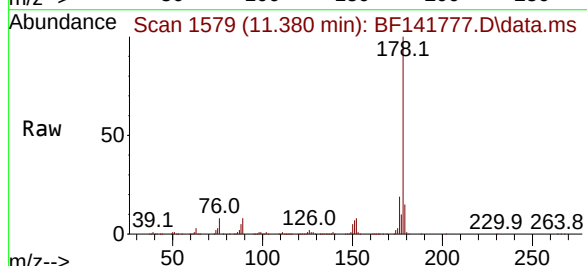
Tgt Ion:178 Resp: 834948

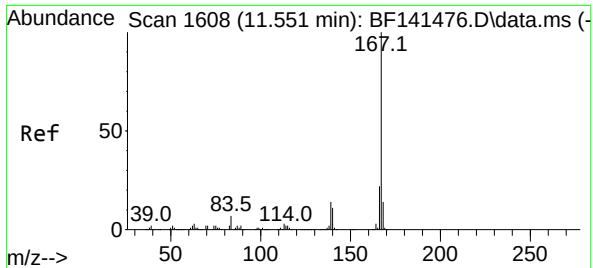
Ion Ratio Lower Upper

178 100

176 18.5 14.8 22.2

179 15.5 12.4 18.6





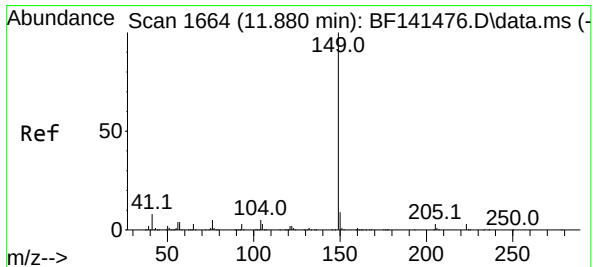
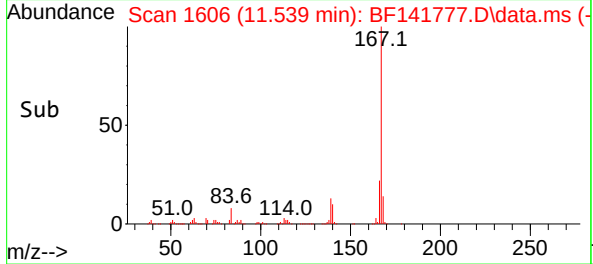
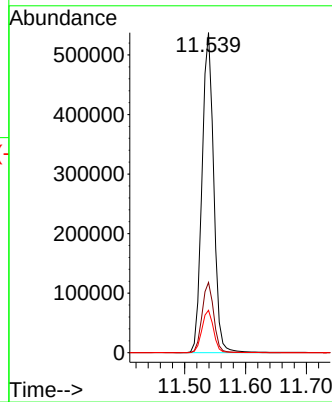
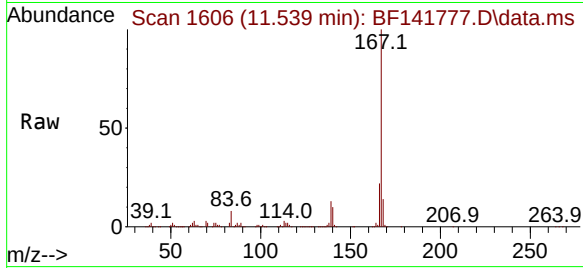
#73
 Carbazole
 Concen: 44.880 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141777.D
 Acq: 26 Feb 2025 12:19

Instrument :
 BNA_F
 ClientSampleId :
 PB166853BS

Tgt Ion:167 Resp: 713490
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.4 26.2
 139 13.3 10.9 16.3

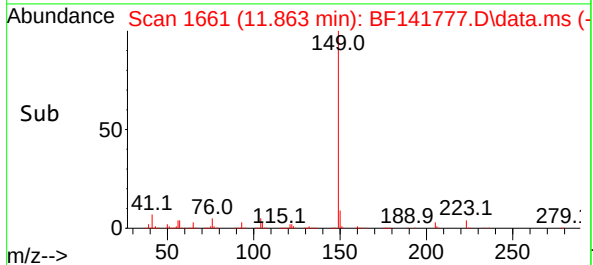
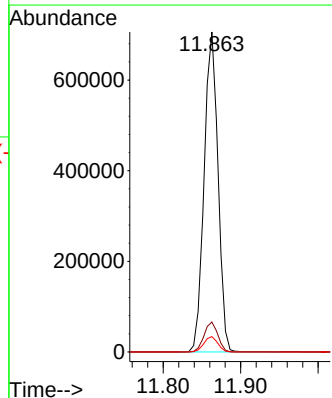
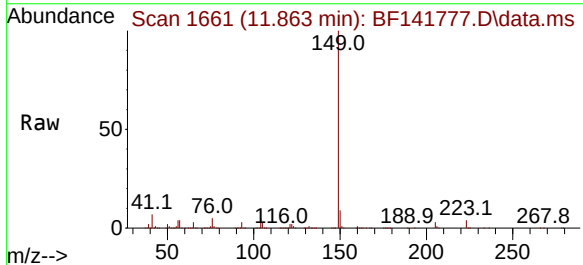
Manual Integrations
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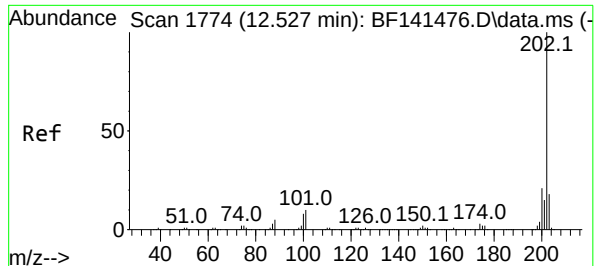
Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025



#74
 Di-n-butylphthalate
 Concen: 47.846 ng
 RT: 11.863 min Scan# 1661
 Delta R.T. -0.018 min
 Lab File: BF141777.D
 Acq: 26 Feb 2025 12:19

Tgt Ion:149 Resp: 878298
 Ion Ratio Lower Upper
 149 100
 150 9.4 7.4 11.0
 104 4.8 4.2 6.2





#75

Fluoranthene

Concen: 44.684 ng

RT: 12.516 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:202 Resp: 832650

Ion Ratio Lower Upper

202 100

101 10.6 0.0 30.2

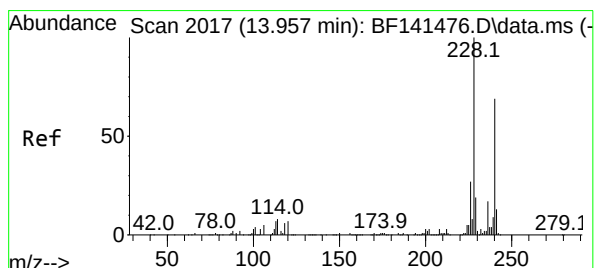
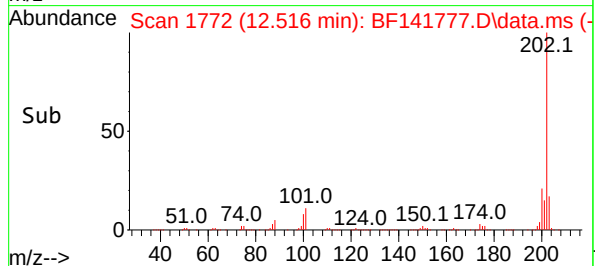
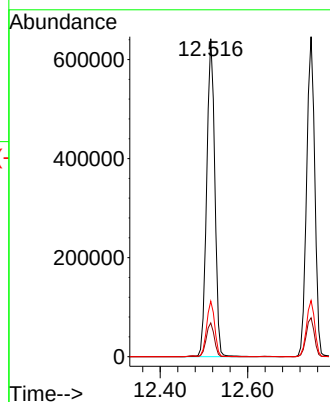
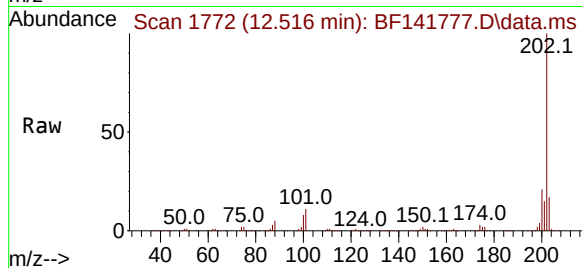
203 17.5 0.0 37.6

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 2015

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

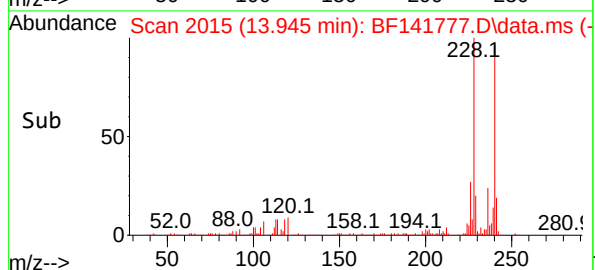
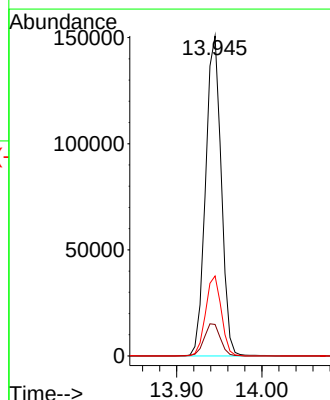
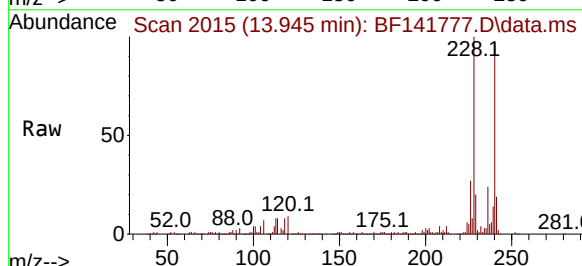
Tgt Ion:240 Resp: 191917

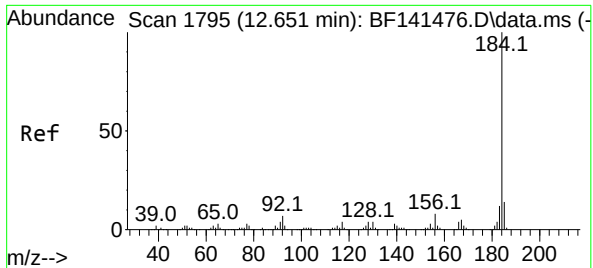
Ion Ratio Lower Upper

240 100

120 9.8 8.0 12.0

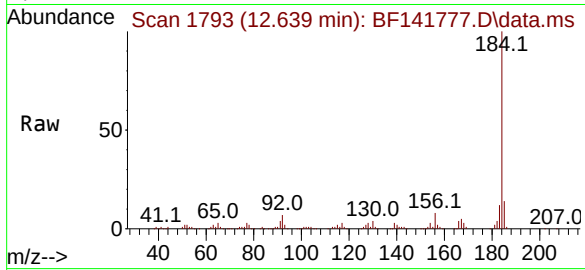
236 25.0 19.8 29.8





#77
Benzidine
Concen: 50.312 ng
RT: 12.639 min Scan# 1793
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

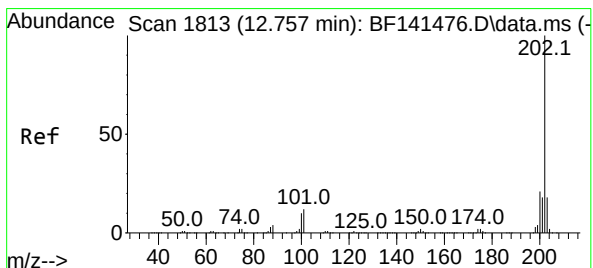
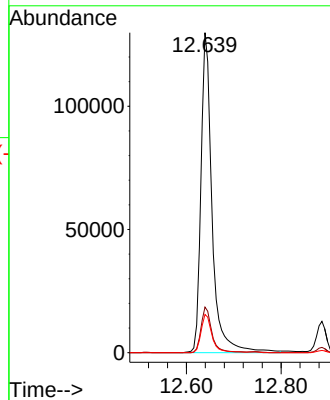
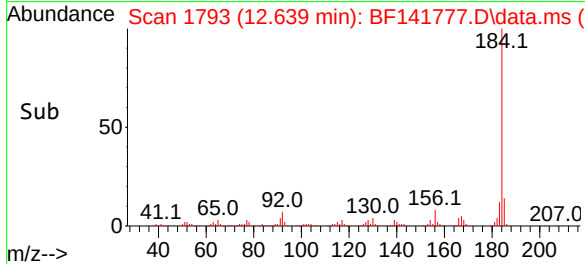
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:184 Resp: 212949
Ion Ratio Lower Upper
184 100
185 14.2 11.3 16.9
183 12.0 9.3 13.9

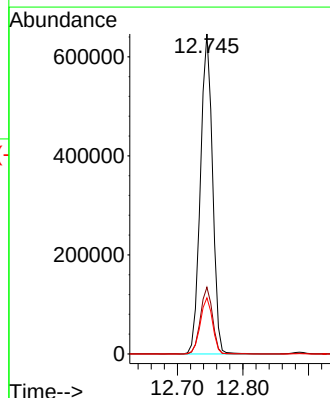
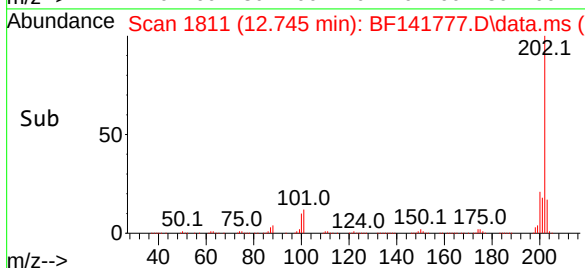
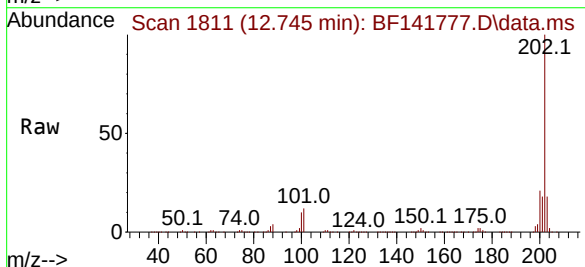
Manual Integrations
APPROVED

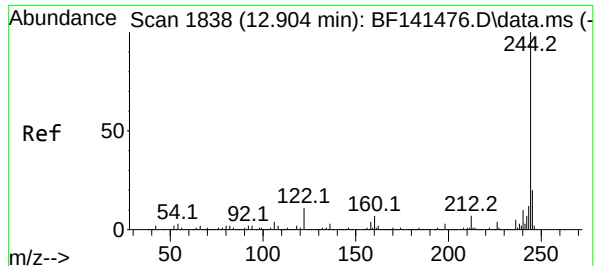
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#78
Pyrene
Concen: 50.774 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.018 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:202 Resp: 829507
Ion Ratio Lower Upper
202 100
200 20.8 17.0 25.4
203 17.5 14.3 21.5





#79

Terphenyl-d14

Concen: 116.067 ng

RT: 12.886 min Scan# 1835

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:244 Resp: 131948

Ion Ratio Lower Upper

244 100

212 6.7 5.6 8.4

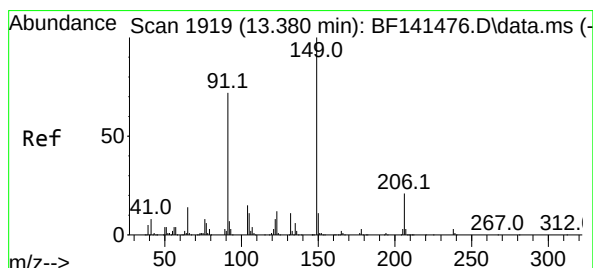
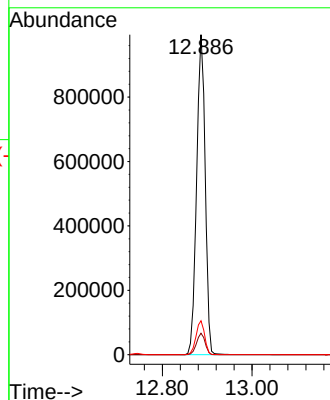
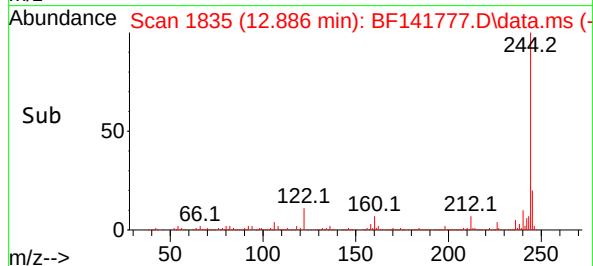
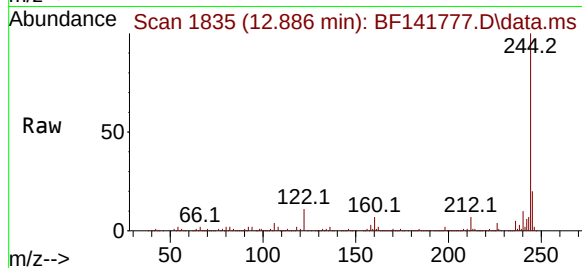
122 10.6 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#80

Butylbenzylphthalate

Concen: 55.088 ng

RT: 13.357 min Scan# 1915

Delta R.T. -0.023 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

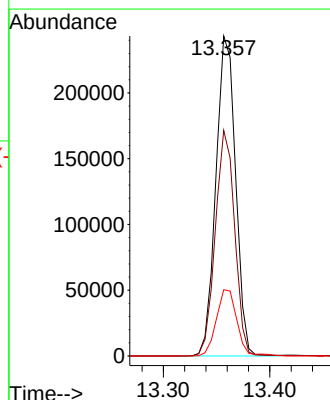
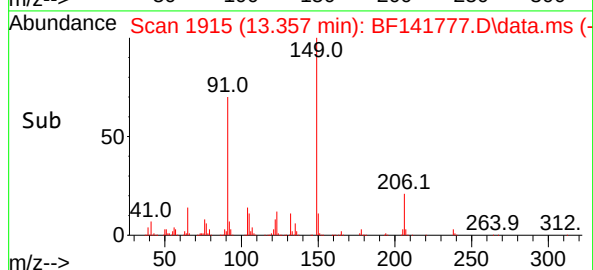
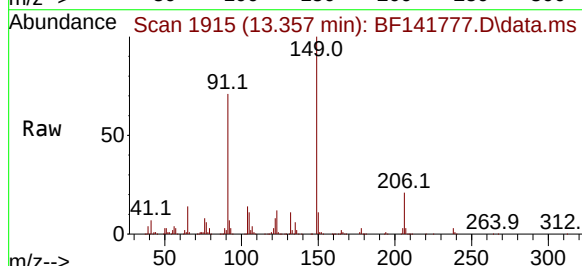
Tgt Ion:149 Resp: 311733

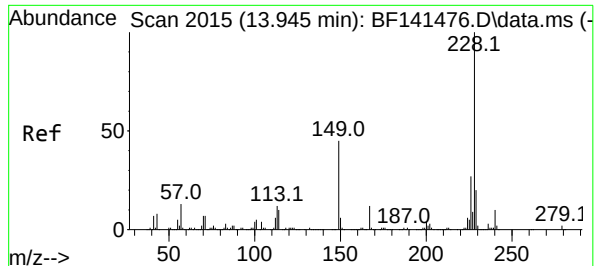
Ion Ratio Lower Upper

149 100

91 70.5 57.8 86.8

206 20.7 16.7 25.1





#81

Benzo(a)anthracene

Concen: 48.337 ng

RT: 13.933 min Scan# 2015

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:228 Resp: 616649

Ion Ratio Lower Upper

228 100

226 27.0 21.8 32.8

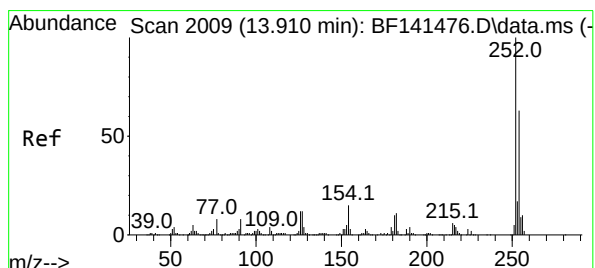
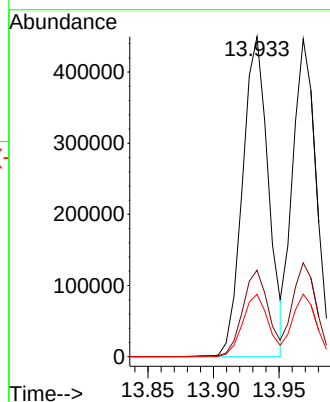
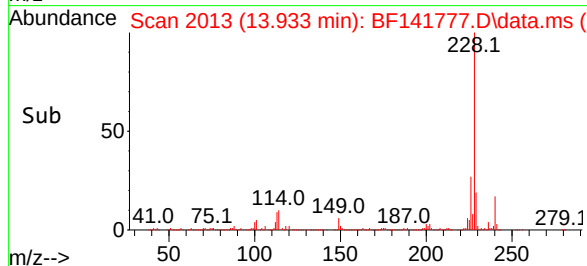
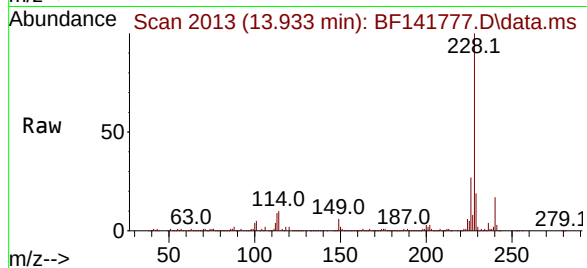
229 19.5 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#82

3,3'-Dichlorobenzidine

Concen: 33.760 ng

RT: 13.898 min Scan# 2007

Delta R.T. -0.018 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

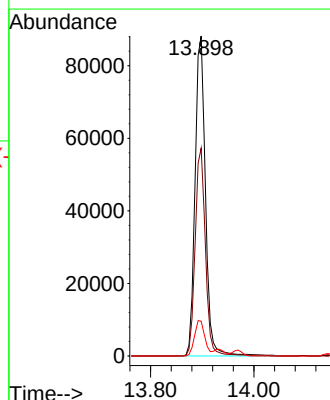
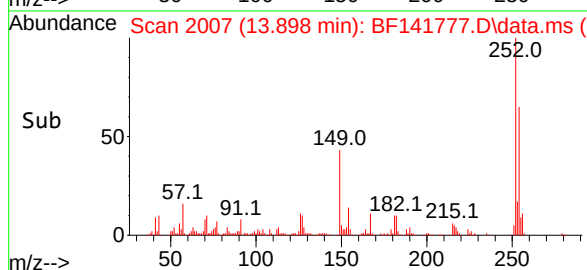
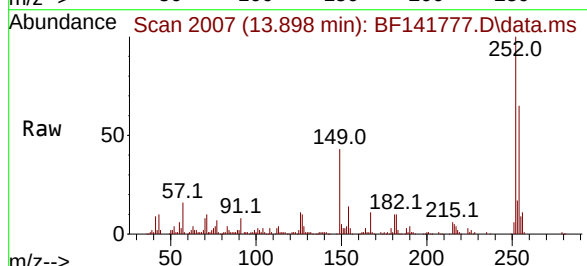
Tgt Ion:252 Resp: 123372

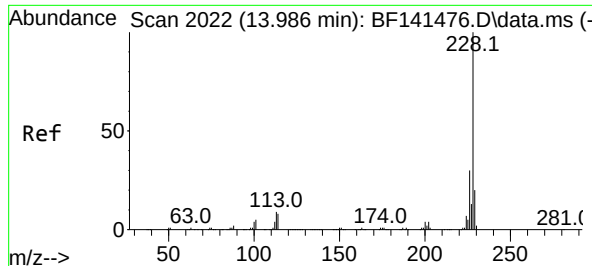
Ion Ratio Lower Upper

252 100

254 64.9 50.6 76.0

126 10.8 9.3 13.9





#83

Chrysene

Concen: 47.140 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.023 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

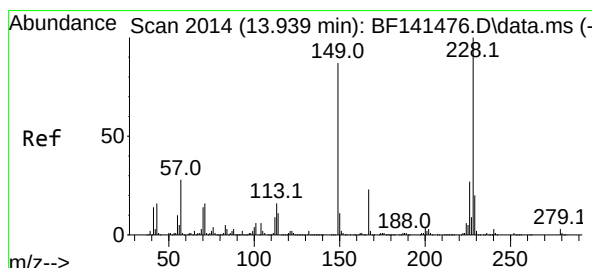
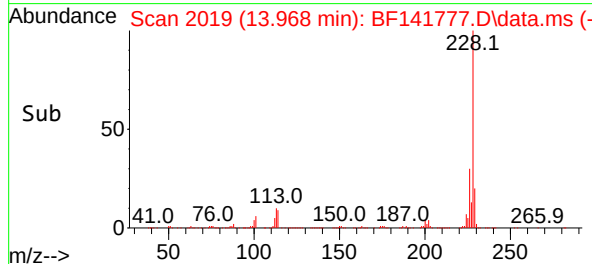
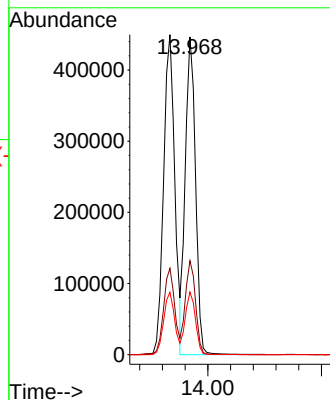
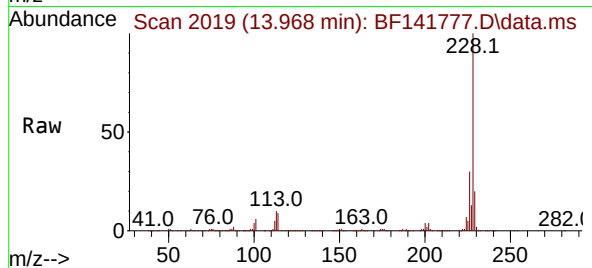
PB166853BS

Tgt Ion:	228	Resp:	555284
Ion Ratio	Lower	Upper	
228	100		
226	29.6	24.0	36.0
229	19.7	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 61.830 ng

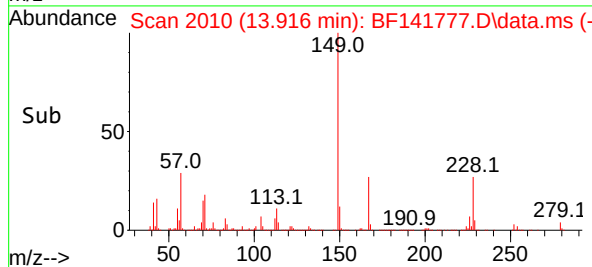
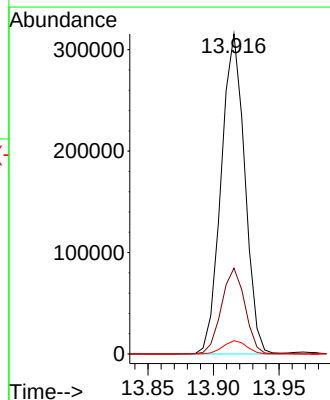
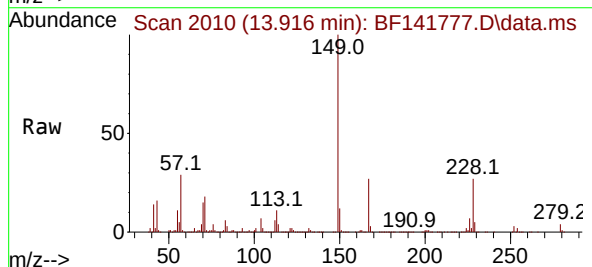
RT: 13.916 min Scan# 2010

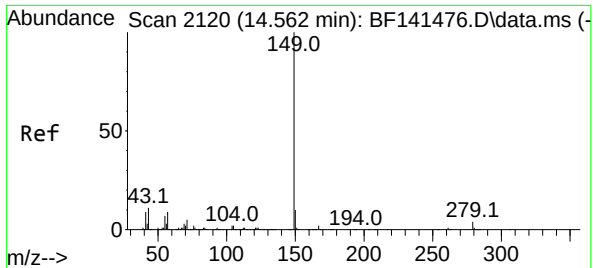
Delta R.T. -0.023 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

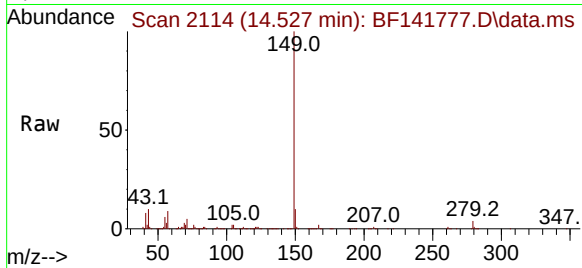
Tgt Ion:	149	Resp:	394616
Ion Ratio	Lower	Upper	
149	100		
167	26.8	21.4	32.0
279	4.1	3.1	4.7





#85
Di-n-octyl phthalate
Concen: 62.150 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

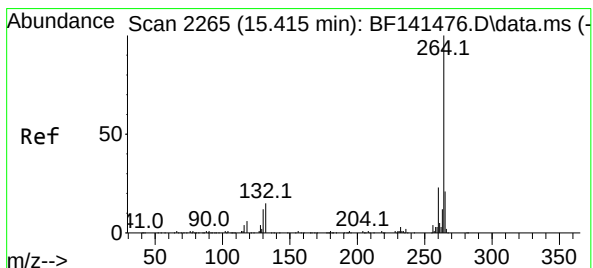
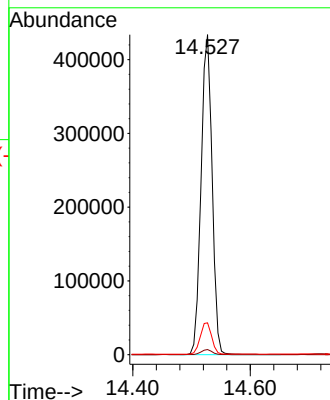
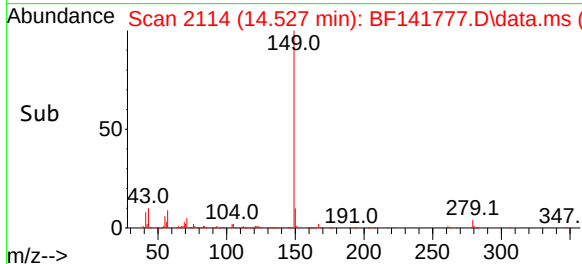
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:149 Resp: 56585
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 10.2 9.5 14.3

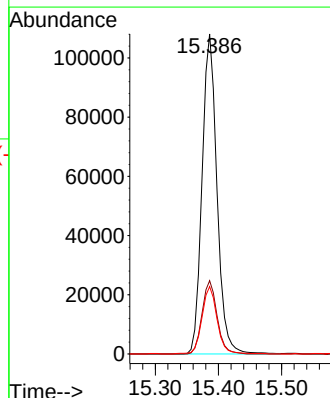
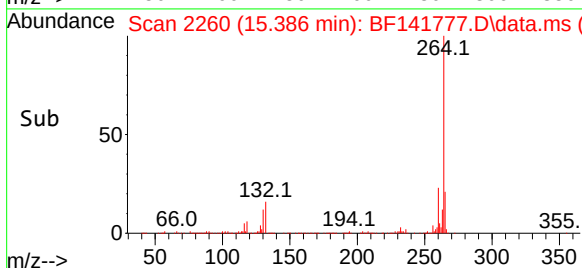
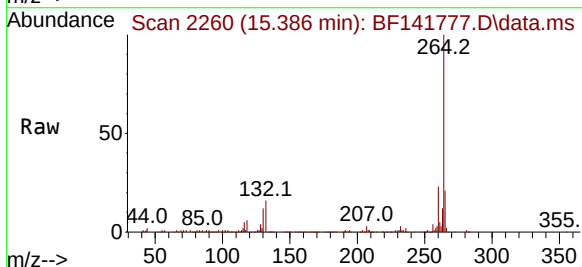
Manual Integrations
APPROVED

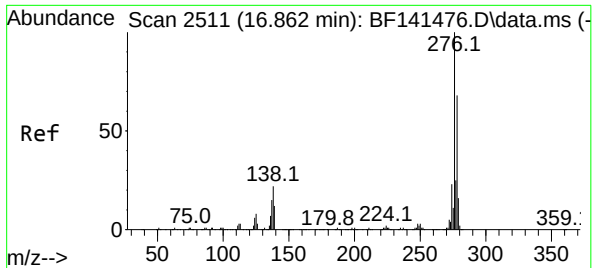
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:264 Resp: 177241
Ion Ratio Lower Upper
264 100
260 22.9 18.6 28.0
265 21.0 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 51.672 ng

RT: 16.827 min Scan# 2189

Delta R.T. -0.047 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:276 Resp: 56588

Ion Ratio Lower Upper

276 100

138 22.9 18.0 27.0

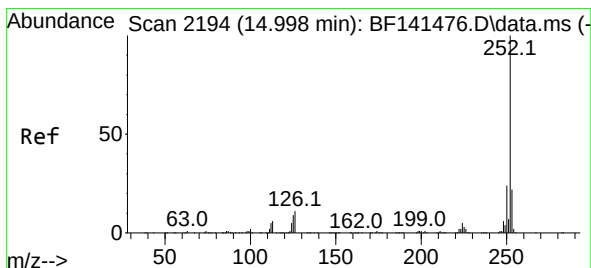
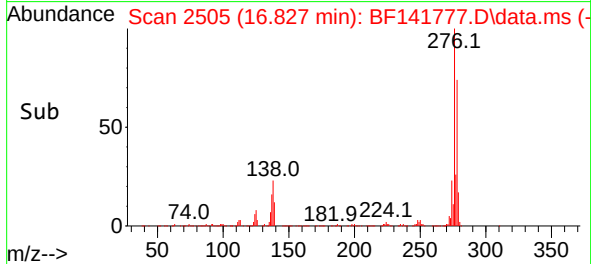
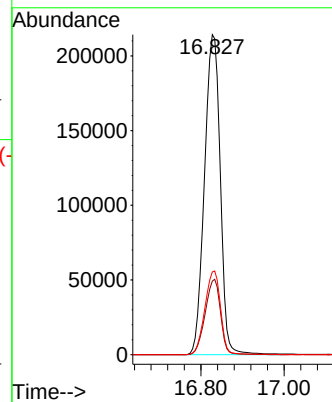
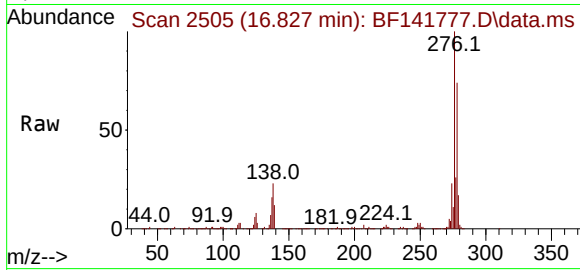
277 25.9 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#88

Benzo(b)fluoranthene

Concen: 40.451 ng

RT: 14.968 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

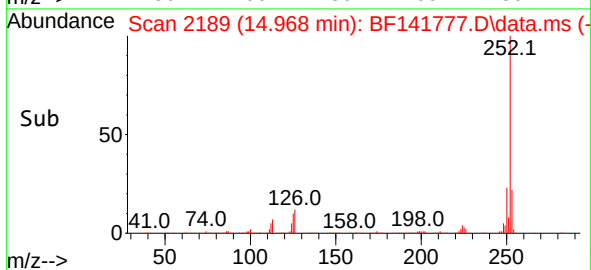
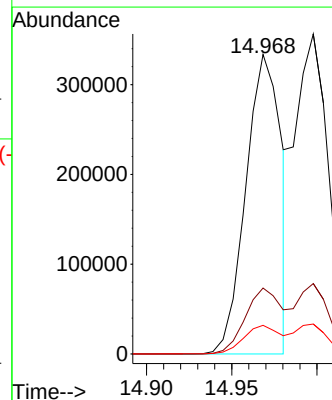
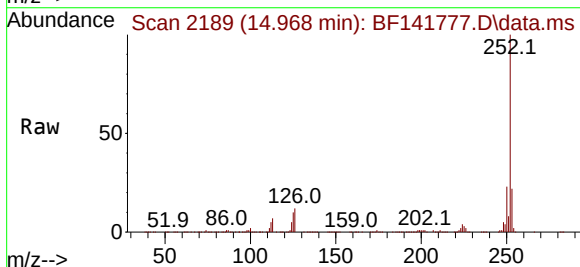
Tgt Ion:252 Resp: 481397

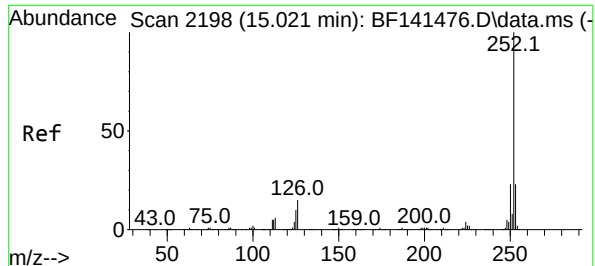
Ion Ratio Lower Upper

252 100

253 22.0 17.5 26.3

125 9.6 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 40.490 ng

RT: 14.998 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

Instrument :

BNA_F

ClientSampleId :

PB166853BS

Tgt Ion:252 Resp: 41147

Ion Ratio Lower Upper

252 100

253 22.0 18.0 27.0

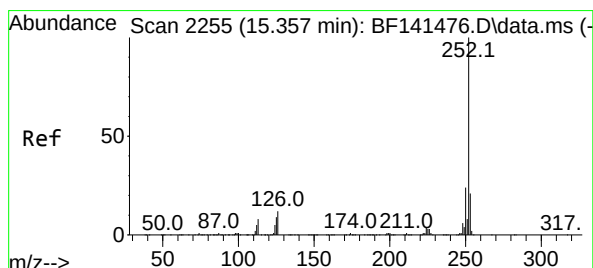
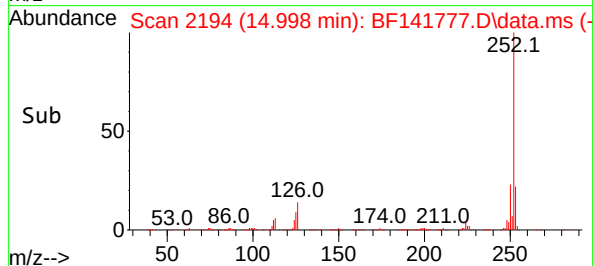
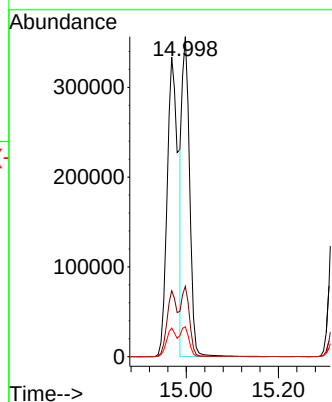
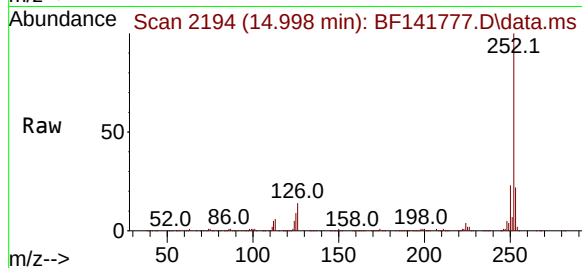
125 9.4 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#90

Benzo(a)pyrene

Concen: 48.614 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141777.D

Acq: 26 Feb 2025 12:19

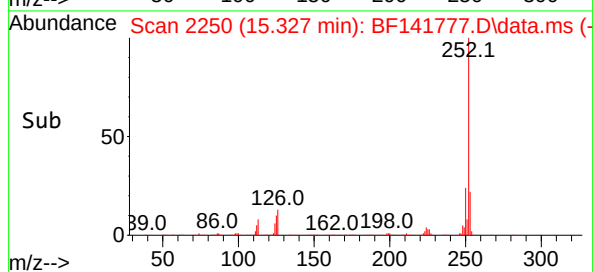
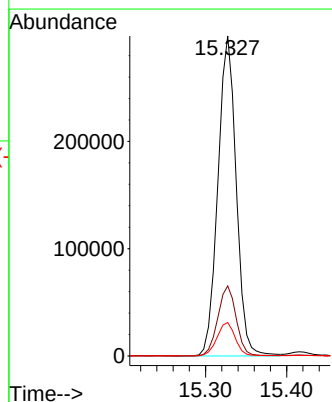
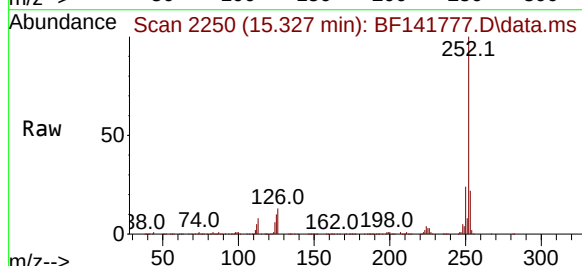
Tgt Ion:252 Resp: 468144

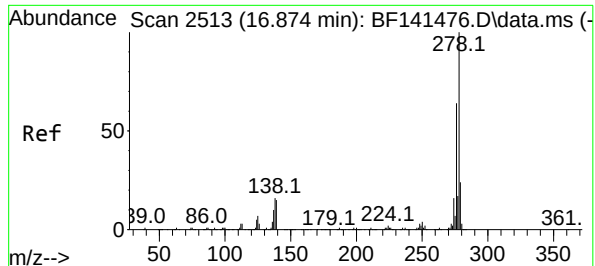
Ion Ratio Lower Upper

252 100

253 21.9 17.1 25.7

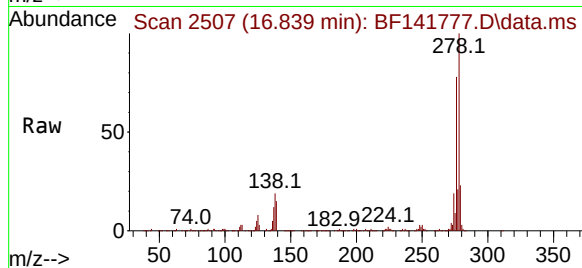
125 10.4 7.4 11.2





#91
Dibenzo(a,h)anthracene
Concen: 52.001 ng
RT: 16.839 min Scan# 2507
Delta R.T. -0.053 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

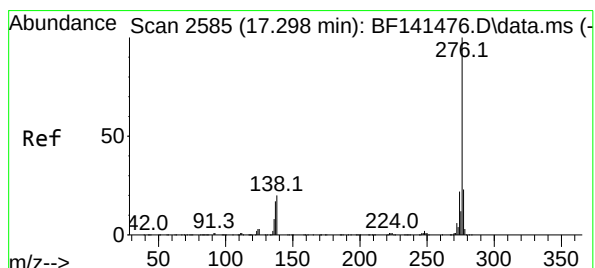
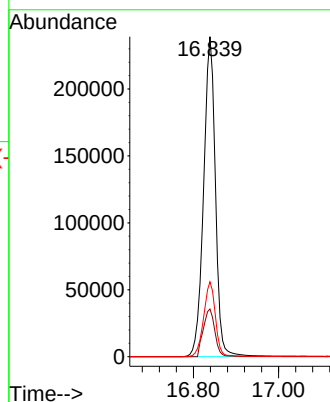
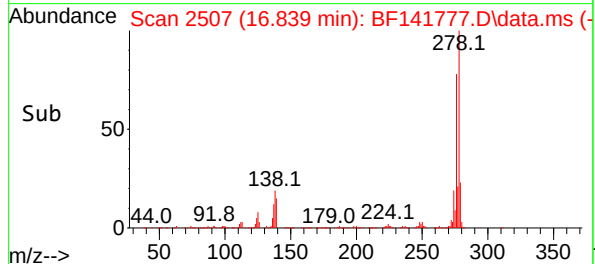
Instrument :
BNA_F
ClientSampleId :
PB166853BS



Tgt Ion:278 Resp: 461450
Ion Ratio Lower Upper
278 100
139 14.9 11.8 17.6
279 23.4 19.1 28.7

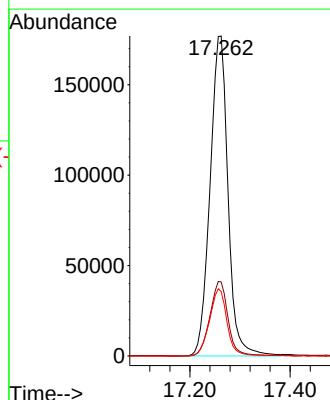
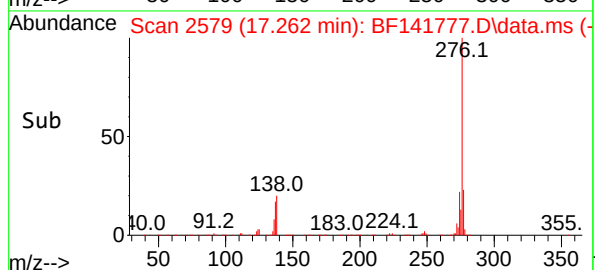
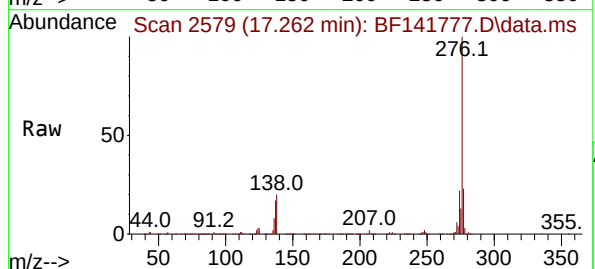
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#92
Benzo(g,h,i)perylene
Concen: 47.372 ng
RT: 17.262 min Scan# 2579
Delta R.T. -0.053 min
Lab File: BF141777.D
Acq: 26 Feb 2025 12:19

Tgt Ion:276 Resp: 439909
Ion Ratio Lower Upper
276 100
277 23.2 18.6 28.0
138 20.1 15.9 23.9



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	25.9		4.00	10.0	ug/L
108-95-2	Phenol	40.2		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.6		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	41.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	40.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.5		1.40	5.00	ug/L
98-86-2	Acetophenone	45.6		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.6		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	40.8		1.50	2.50	ug/L
67-72-1	Hexachloroethane	41.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	39.9		1.30	5.00	ug/L
78-59-1	Isophorone	43.9		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	43.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	54.7		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.5		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.6		0.88	5.00	ug/L
91-20-3	Naphthalene	40.6		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	17.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.6		1.30	5.00	ug/L
105-60-2	Caprolactam	47.0		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.0		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.5		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	40.9		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.7		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.1		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	39.2		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	42.5		0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	43.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.9		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	23.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	40.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	78.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	67.7		2.00	10.0	ug/L
132-64-9	Dibenzofuran	39.6		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	42.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	41.6		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	42.5		0.98	5.00	ug/L
86-73-7	Fluorene	41.7		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	38.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	38.6		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.2		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	44.2		1.10	5.00	ug/L
1912-24-9	Atrazine	55.6		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	67.2		1.90	10.0	ug/L
85-01-8	Phenanthrene	42.4		0.89	5.00	ug/L
120-12-7	Anthracene	43.9		1.10	5.00	ug/L
86-74-8	Carbazole	41.5		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.1		1.50	5.00	ug/L
206-44-0	Fluoranthene	41.2		1.30	5.00	ug/L
129-00-0	Pyrene	45.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.6		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.4		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.2		0.94	5.00	ug/L
218-01-9	Chrysene	42.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	56.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	37.5		1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BS	SDG No.:	Q1415
Lab Sample ID:	PB166875BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141781.D	1	02/26/25 08:45	02/26/25 14:24	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	44.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	46.7		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.7		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	42.3		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.0		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40.0		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	127		15 (10) - 110 (139)	85%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	84.5		30 (49) - 130 (133)	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.2		30 (52) - 130 (132)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		15 (44) - 110 (137)	87%	SPK: 150
1718-51-0	Terphenyl-d14	102		30 (48) - 130 (125)	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82900	6.781			
1146-65-2	Naphthalene-d8	324000	8.063			
15067-26-2	Acenaphthene-d10	182000	9.816			
1517-22-2	Phenanthrene-d10	313000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	183000	15.386			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141781.D
 Acq On : 26 Feb 2025 14:24
 Operator : RC/JU
 Sample : PB166875BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166875BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 14:49:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	82911	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	323947	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	182265	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	312748	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	195301	20.000	ng	-0.02
86) Perylene-d12	15.386	264	182516	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	673219	127.297	ng	0.00
7) Phenol-d6	6.428	99	807007	120.732	ng	-0.01
23) Nitrobenzene-d5	7.345	82	524750	84.489	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	237563	129.750	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1043412	88.197	ng	-0.01
79) Terphenyl-d14	12.886	244	1182445	102.210	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.569	88	85137	39.998	ng	94
3) Pyridine	3.304	79	192879	38.080	ng	91
4) n-Nitrosodimethylamine	3.252	42	112190	33.451	ng	82
6) Aniline	6.445	93	200731	32.014	ng	# 74
8) 2-Chlorophenol	6.575	128	239459	41.904	ng	97
9) Benzaldehyde	6.334	77	92138	25.939	ng	95
10) Phenol	6.445	94	279580	40.186	ng	96
11) bis(2-Chloroethyl)ether	6.516	93	217324	41.589	ng	98
12) 1,3-Dichlorobenzene	6.722	146	251217	41.641	ng	96
13) 1,4-Dichlorobenzene	6.798	146	258861	41.996	ng	98
14) 1,2-Dichlorobenzene	6.951	146	243027	42.481	ng	99
15) Benzyl Alcohol	6.934	79	201589	39.328	ng	95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	326181	36.465	ng	61
17) 2-Methylphenol	7.051	107	181224	40.525	ng	94
18) Hexachloroethane	7.287	117	93620	41.040	ng	98
19) n-Nitroso-di-n-propyla...	7.198	70	162962	40.758	ng	93
20) 3+4-Methylphenols	7.204	107	242346	42.643	ng	# 76
22) Acetophenone	7.192	105	367081	45.553	ng	# 90
24) Nitrobenzene	7.369	77	241755	39.918	ng	97
25) Isophorone	7.604	82	434291	43.854	ng	98
26) 2-Nitrophenol	7.681	139	131467	43.631	ng	92
27) 2,4-Dimethylphenol	7.728	122	192467	54.678	ng	97
28) bis(2-Chloroethoxy)met...	7.816	93	269950	42.541	ng	100
29) 2,4-Dichlorophenol	7.934	162	202781	42.637	ng	99
30) 1,2,4-Trichlorobenzene	8.004	180	217604	42.015	ng	99
31) Naphthalene	8.087	128	684325	40.582	ng	100
32) Benzoic acid	7.869	122	129768	35.492	ng	97
33) 4-Chloroaniline	8.139	127	104944	17.825	ng	96
34) Hexachlorobutadiene	8.198	225	132425	42.591	ng	99
35) Caprolactam	8.510	113	68121m	47.043	ng	
36) 4-Chloro-3-methylphenol	8.634	107	215925	40.986	ng	98
37) 2-Methylnaphthalene	8.775	142	444714	40.528	ng	100
38) 1-Methylnaphthalene	8.875	142	432503	40.696	ng	98
40) 1,2,4,5-Tetrachloroben...	8.945	216	244851	46.434	ng	99
41) Hexachlorocyclopentadiene	8.928	237	203682	116.131	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	138890	40.753	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141781.D
 Acq On : 26 Feb 2025 14:24
 Operator : RC/JU
 Sample : PB166875BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166875BS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 14:49:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	151169	40.927	ng	98
46) 1,1'-Biphenyl	9.239	154	645996	45.716	ng	99
47) 2-Chloronaphthalene	9.263	162	439898	42.099	ng	99
48) 2-Nitroaniline	9.369	65	137317	39.158	ng	92
49) Acenaphthylene	9.681	152	672129	43.246	ng	99
50) Dimethylphthalate	9.539	163	525415	42.463	ng	100
51) 2,6-Dinitrotoluene	9.610	165	116118	42.928	ng	92
52) Acenaphthene	9.851	154	418861	40.087	ng	99
53) 3-Nitroaniline	9.781	138	69124	23.743	ng	96
54) 2,4-Dinitrophenol	9.898	184	125363	77.981	ng	88
55) Dibenzofuran	10.022	168	607142	39.587	ng	98
56) 4-Nitrophenol	9.963	139	146206	67.651	ng	91
57) 2,4-Dinitrotoluene	10.016	165	154036	42.777	ng	98
58) Fluorene	10.363	166	494621	41.710	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.145	232	127291	40.029	ng	94
60) Diethylphthalate	10.239	149	506014	41.565	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	242441	42.497	ng	97
62) 4-Nitroaniline	10.398	138	114185	38.626	ng	93
63) Azobenzene	10.516	77	468726	38.729	ng	94
65) 4,6-Dinitro-2-methylph...	10.428	198	83764	38.556	ng	92
66) n-Nitrosodiphenylamine	10.475	169	433486	43.299	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	151048	43.214	ng	100
68) Hexachlorobenzene	10.916	284	159239	44.242	ng	96
69) Atrazine	11.010	200	166968	55.593	ng	98
70) Pentachlorophenol	11.116	266	154762	67.245	ng	99
71) Phenanthrene	11.327	178	730566	42.437	ng	100
72) Anthracene	11.380	178	759498	43.887	ng	100
73) Carbazole	11.539	167	646297	41.505	ng	100
74) Di-n-butylphthalate	11.863	149	793310	44.122	ng	99
75) Fluoranthene	12.516	202	752428	41.225	ng	100
77) Benzidine	12.639	184	208167	48.330	ng	100
78) Pyrene	12.745	202	749905	45.106	ng	100
80) Butylbenzylphthalate	13.357	149	285374	49.557	ng	99
81) Benzo(a)anthracene	13.933	228	573656	44.187	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	116620	31.359	ng	99
83) Chrysene	13.968	228	514777	42.944	ng	99
84) Bis(2-ethylhexyl)phtha...	13.916	149	367049	56.515	ng	99
85) Di-n-octyl phthalate	14.527	149	533634	57.595	ng	96
87) Indeno(1,2,3-cd)pyrene	16.827	276	526450	46.682	ng	99
88) Benzo(b)fluoranthene	14.968	252	460075	37.542	ng	99
89) Benzo(k)fluoranthene	14.998	252	458283	43.793	ng	99
90) Benzo(a)pyrene	15.327	252	439422	44.313	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	426778	46.704	ng	99
92) Benzo(g,h,i)perylene	17.256	276	404443	42.294	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

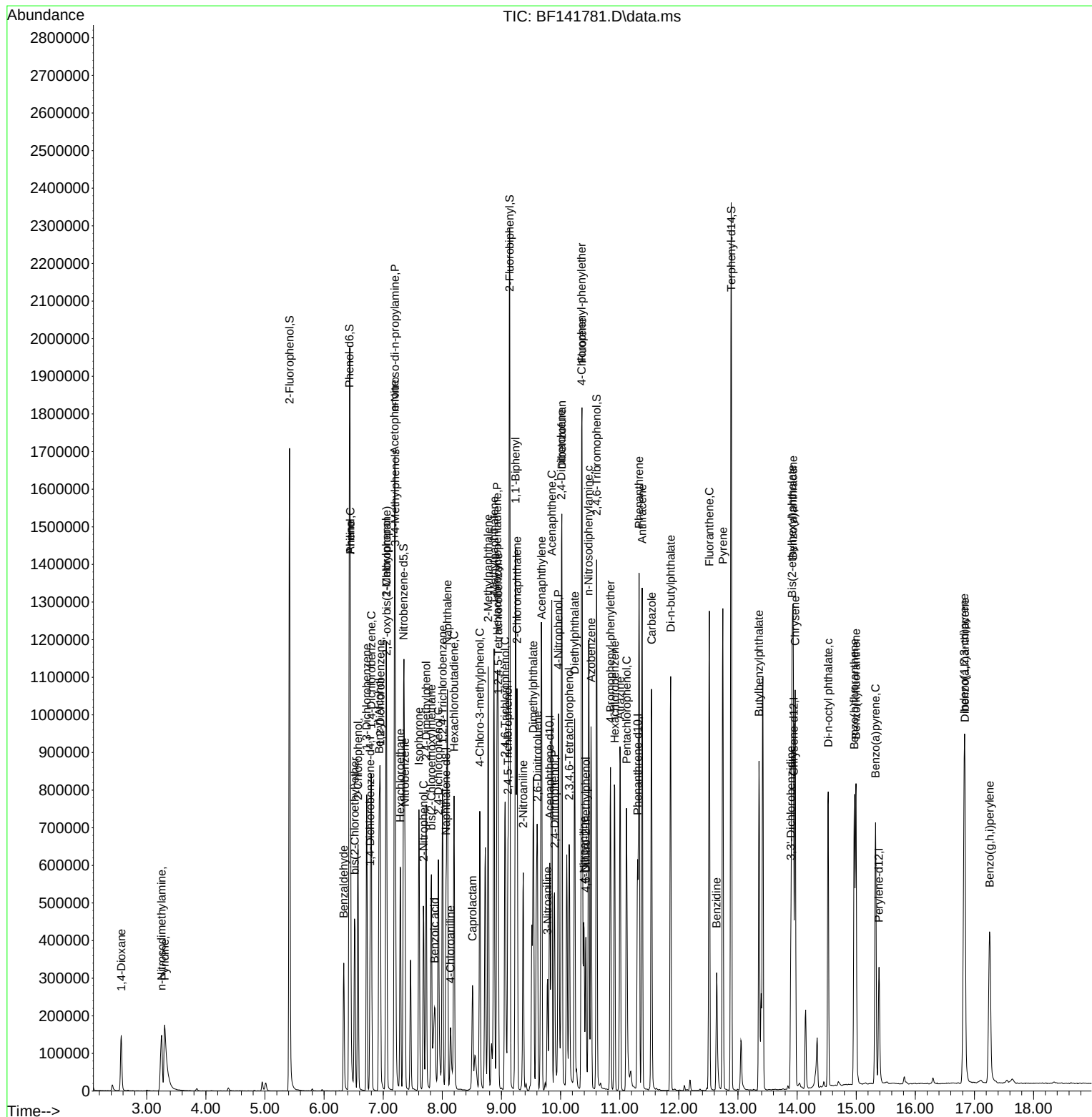
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Data File : BF141781.D
Acq On : 26 Feb 2025 14:24
Operator : RC/JU
Sample : PB166875BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

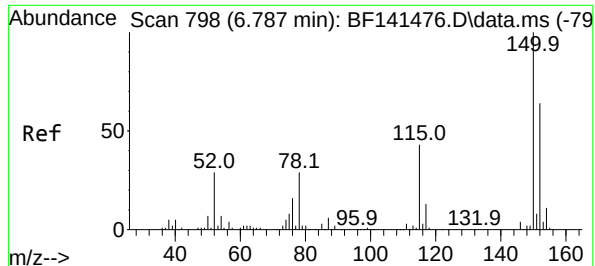
Instrument :
BNA_F
ClientSampleId :
PB166875BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jaqrut Upadhyay 02/27/2025

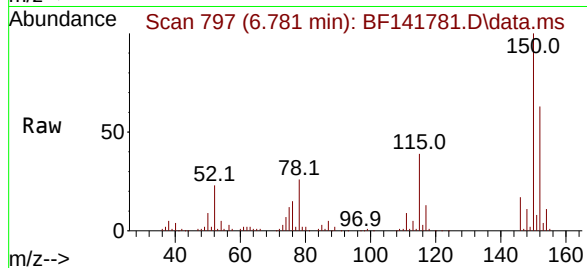
Quant Time: Feb 26 14:49:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

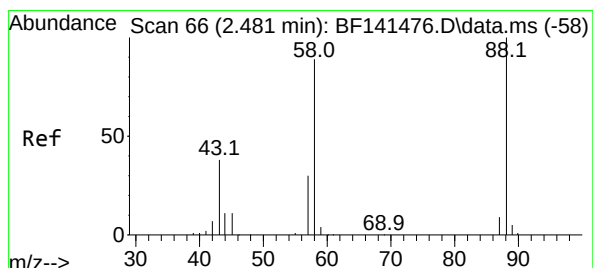
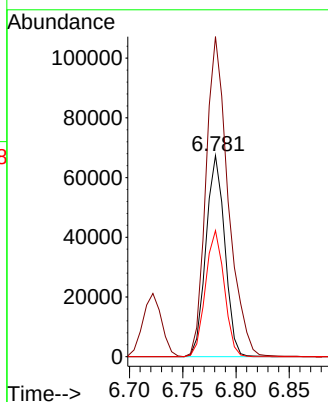
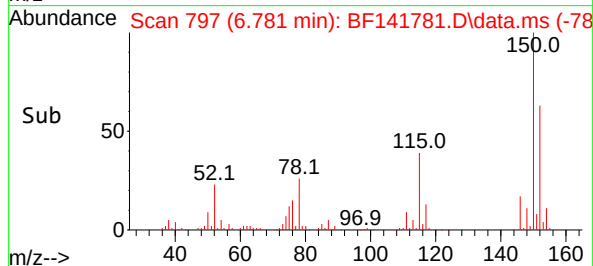
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:152 Resp: 8291
Ion Ratio Lower Upper
152 100
150 159.1 125.0 187.4
115 62.7 53.6 80.4

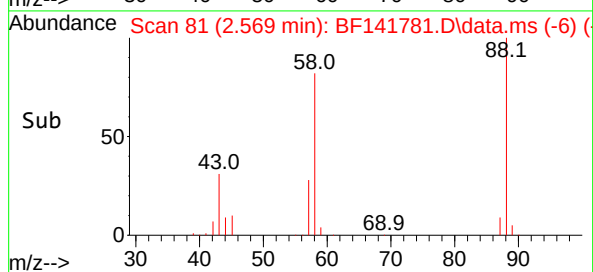
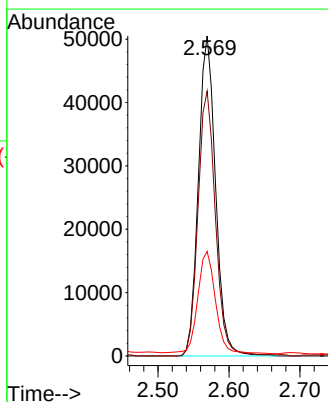
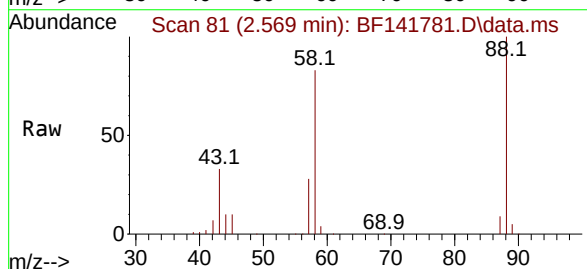
Manual Integrations
APPROVED

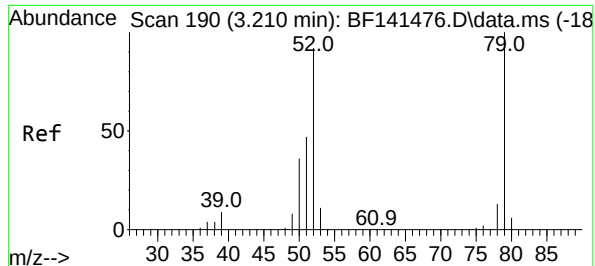
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#2
1,4-Dioxane
Concen: 39.998 ng
RT: 2.569 min Scan# 81
Delta R.T. 0.088 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 88 Resp: 85137
Ion Ratio Lower Upper
88 100
58 84.1 71.1 106.7
43 33.3 30.6 46.0





#3

Pyridine

Concen: 38.080 ng

RT: 3.304 min Scan# 206

Delta R.T. 0.088 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion: 79 Resp: 192879

Ion Ratio Lower Upper

79 100

52 83.2 73.7 110.5

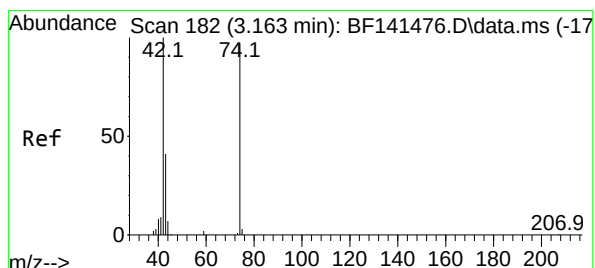
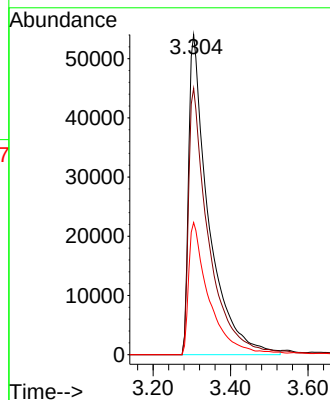
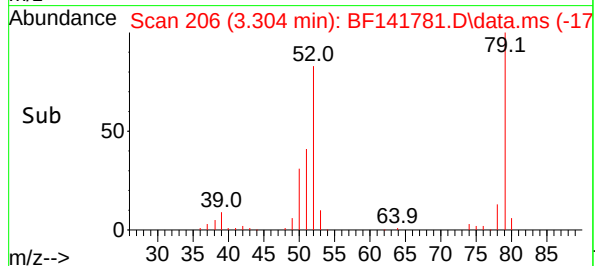
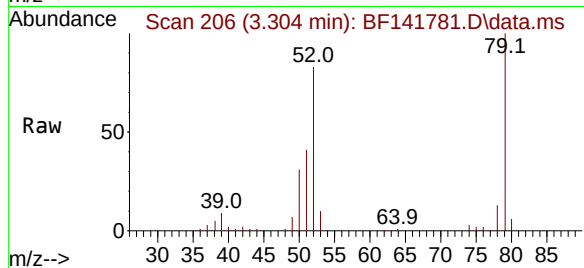
51 41.3 37.5 56.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#4

n-Nitrosodimethylamine

Concen: 33.451 ng

RT: 3.252 min Scan# 197

Delta R.T. 0.065 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

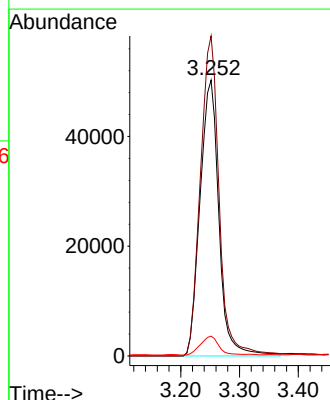
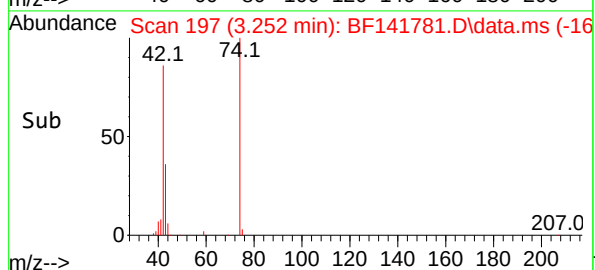
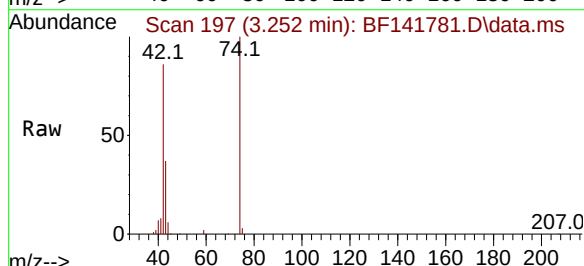
Tgt Ion: 42 Resp: 112190

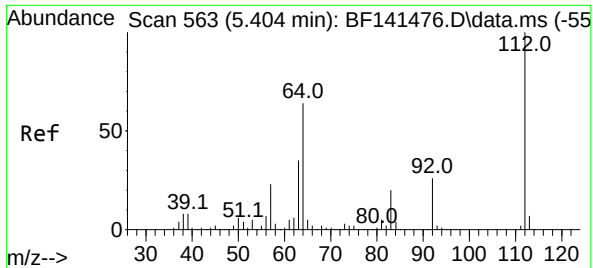
Ion Ratio Lower Upper

42 100

74 116.0 78.0 117.0

44 7.2 5.4 8.2





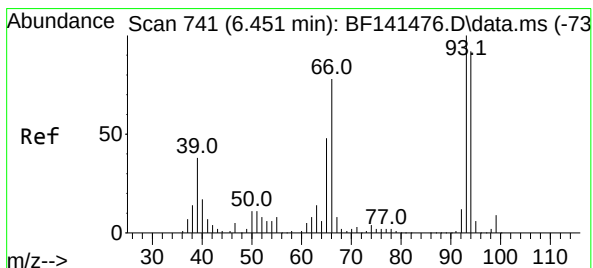
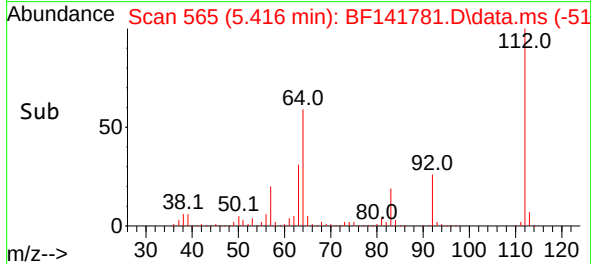
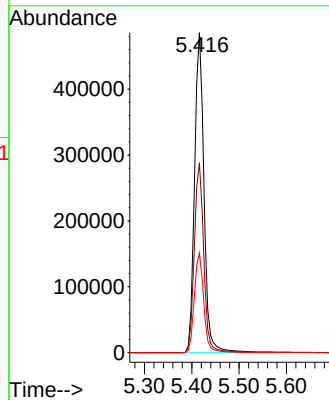
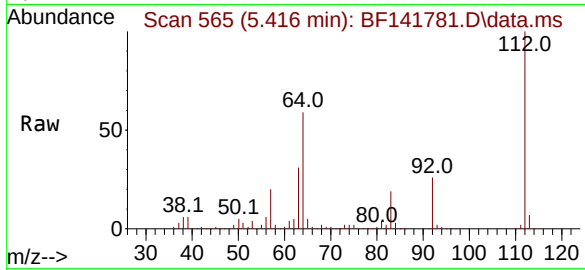
#5
2-Fluorophenol
Concen: 127.297 ng
RT: 5.416 min Scan# 50
Delta R.T. 0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Tgt Ion:112 Resp: 673219
Ion Ratio Lower Upper
112 100
64 59.3 51.1 76.7
63 31.1 28.4 42.6

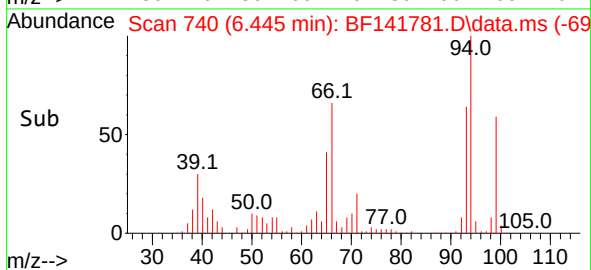
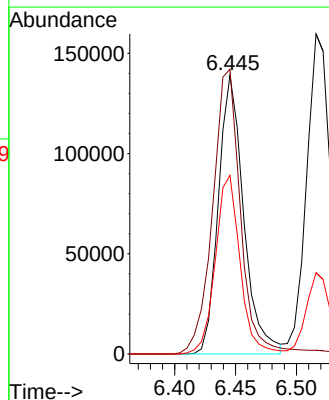
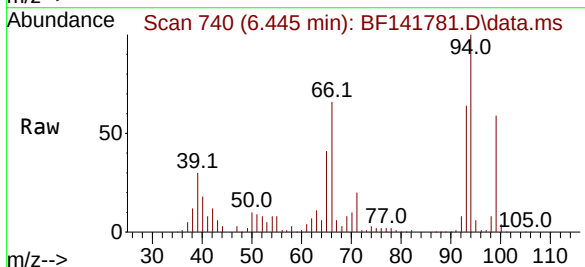
Manual Integrations
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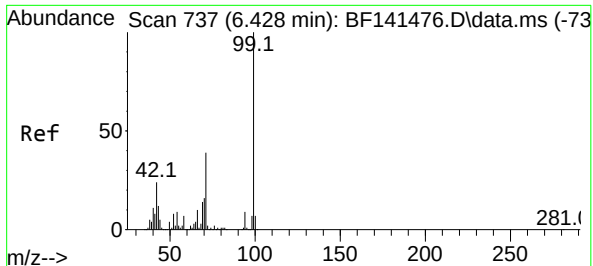
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#6
Aniline
Concen: 32.014 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

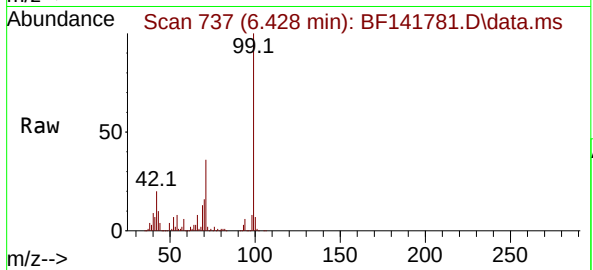
Tgt Ion: 93 Resp: 200731
Ion Ratio Lower Upper
93 100
66 102.2 62.6 94.0#
65 64.1 38.3 57.5#





#7
Phenol-d6
Concen: 120.732 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

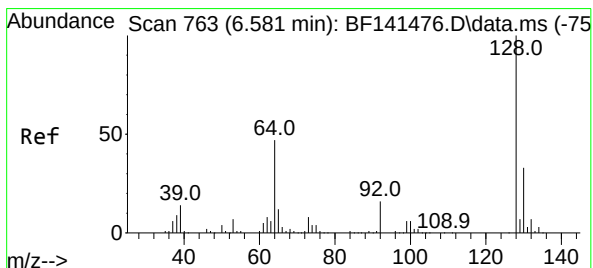
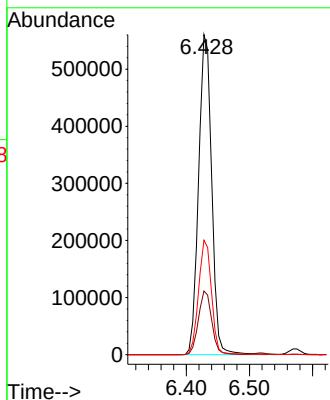
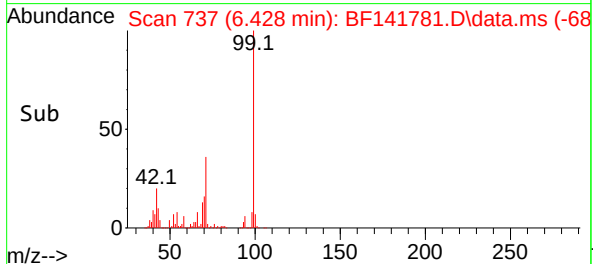
Instrument :
BNA_F
ClientSampleId :
PB166875BS



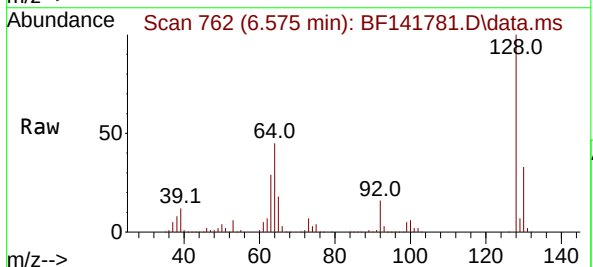
Tgt Ion: 99 Resp: 80700
Ion Ratio Lower Upper
99 100
42 19.9 19.1 28.7
71 35.7 31.1 46.7

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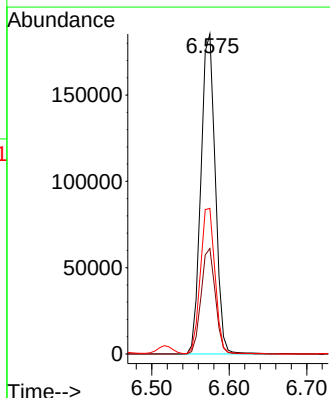
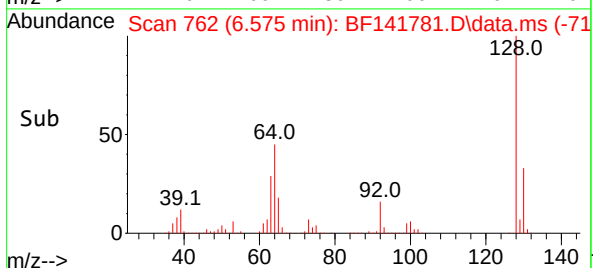
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

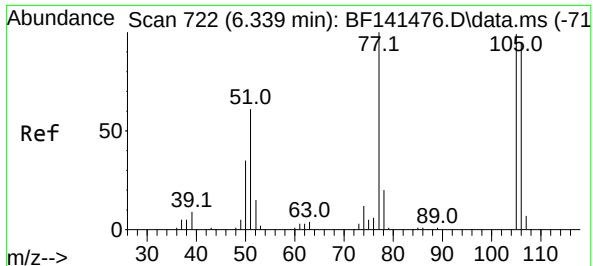


#8
2-Chlorophenol
Concen: 41.904 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24



Tgt Ion:128 Resp: 239459
Ion Ratio Lower Upper
128 100
130 33.0 12.7 52.7
64 45.5 28.3 68.3





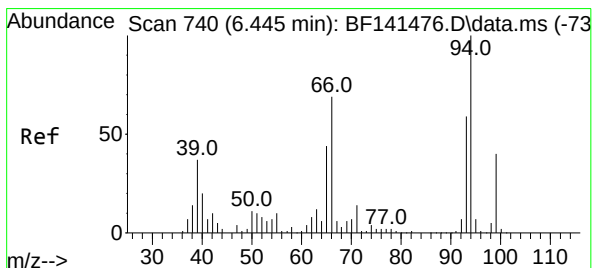
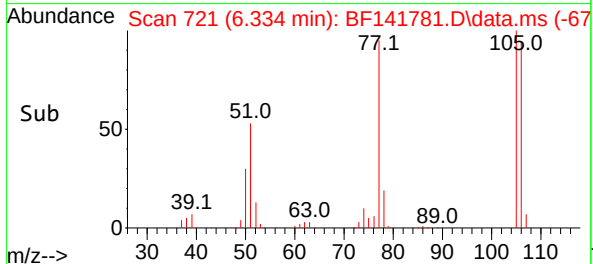
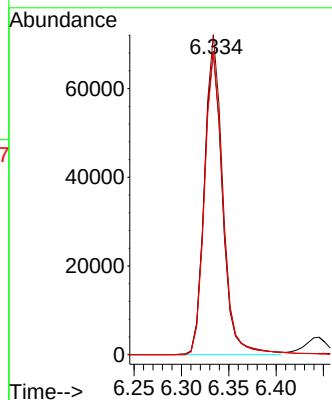
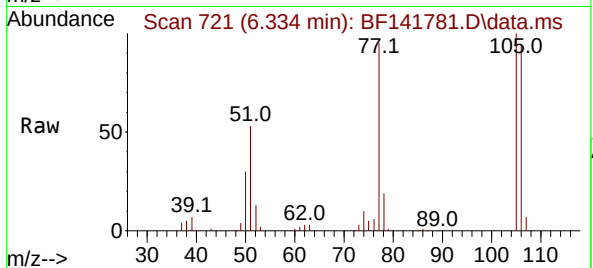
#9
Benzaldehyde
Concen: 25.939 ng
RT: 6.334 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Tgt Ion: 77 Resp: 92138
Ion Ratio Lower Upper
77 100
105 105.5 79.4 119.4
106 99.6 75.1 115.1

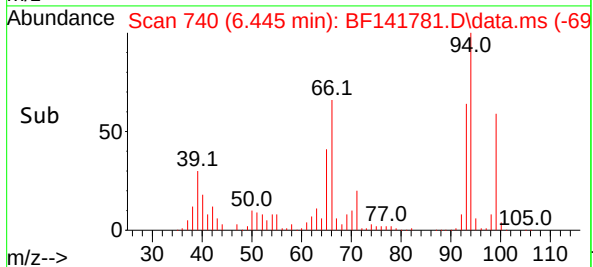
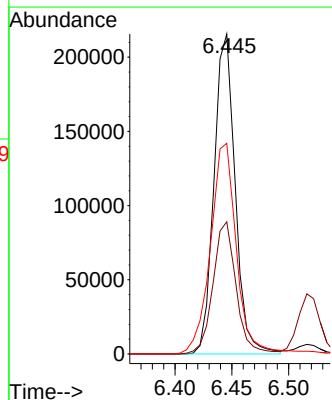
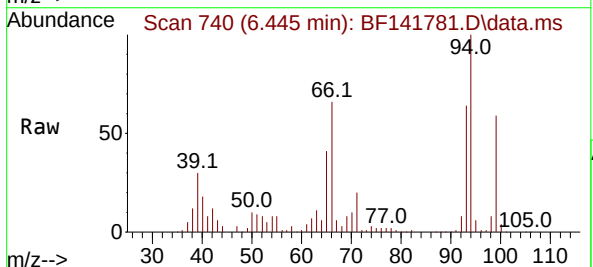
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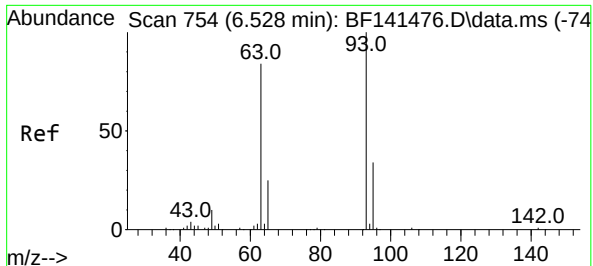
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#10
Phenol
Concen: 40.186 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 94 Resp: 279580
Ion Ratio Lower Upper
94 100
65 41.3 23.7 63.7
66 65.8 49.3 89.3





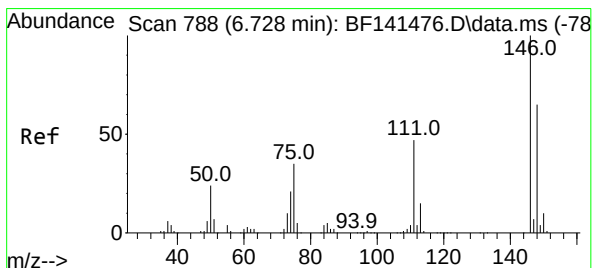
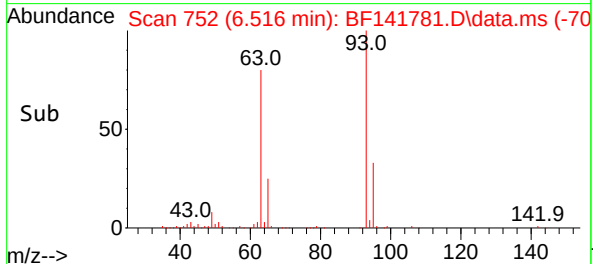
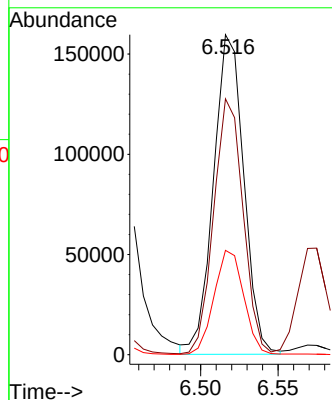
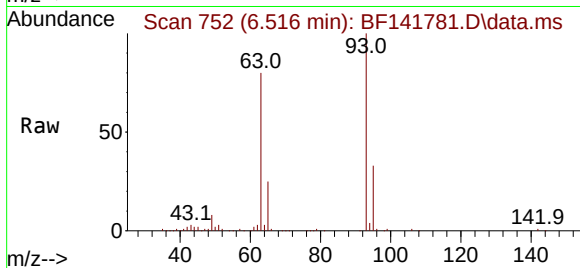
#11
bis(2-Chloroethyl)ether
Concen: 41.589 ng
RT: 6.516 min Scan# 714
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Tgt Ion: 93 Resp: 217324
Ion Ratio Lower Upper
93 100
63 79.9 62.0 102.0
95 32.6 12.6 52.6

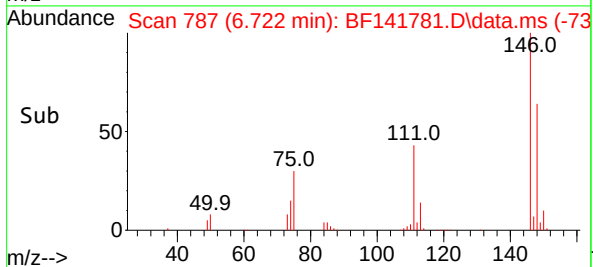
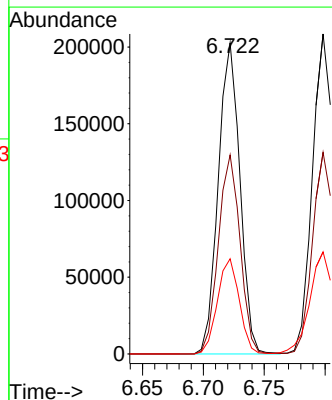
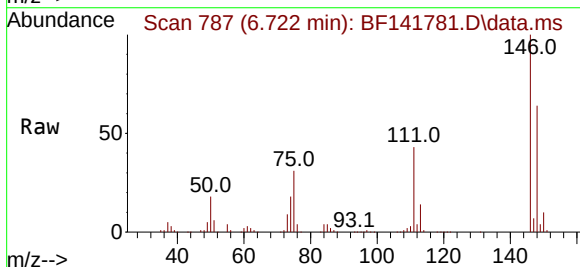
Manual Integrations
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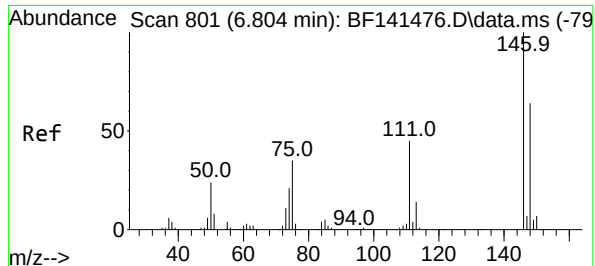
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#12
1,3-Dichlorobenzene
Concen: 41.641 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:146 Resp: 251217
Ion Ratio Lower Upper
146 100
148 64.0 51.9 77.9
75 30.6 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 41.996 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:146 Resp: 25886

Ion Ratio Lower Upper

146 100

148 63.0 50.9 76.3

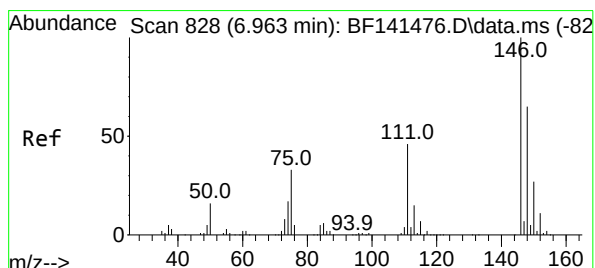
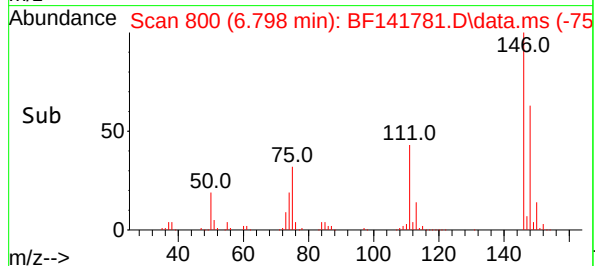
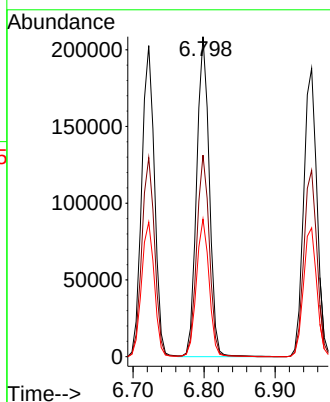
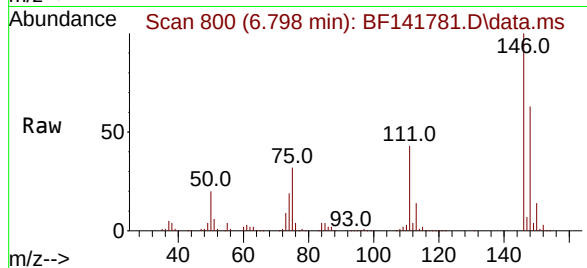
111 43.0 35.9 53.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#14

1,2-Dichlorobenzene

Concen: 42.481 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

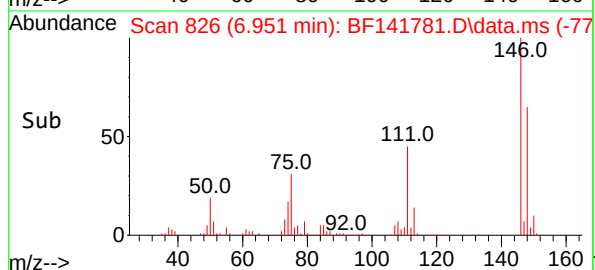
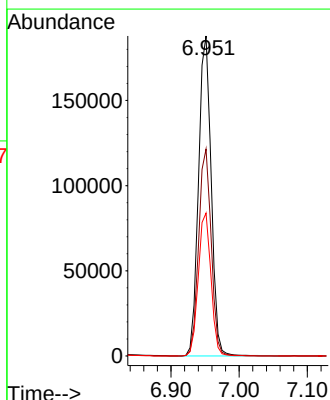
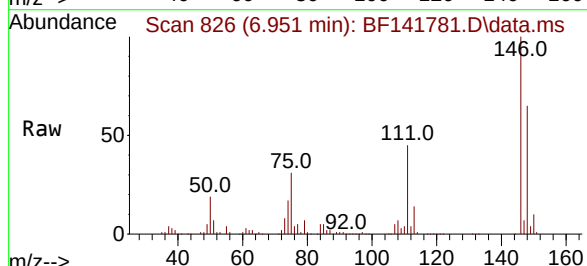
Tgt Ion:146 Resp: 243027

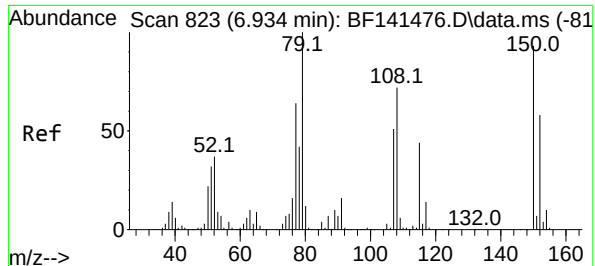
Ion Ratio Lower Upper

146 100

148 64.7 51.8 77.6

111 44.7 37.0 55.4





#15

Benzyl Alcohol

Concen: 39.328 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion: 79 Resp: 201589

Ion Ratio Lower Upper

79 100

108 76.5 57.4 86.2

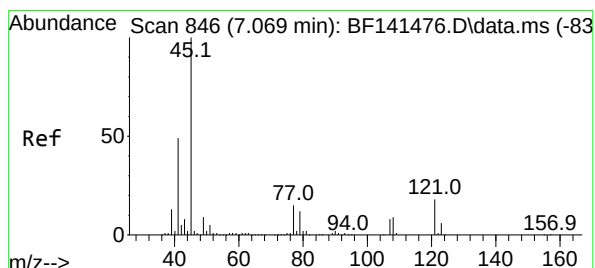
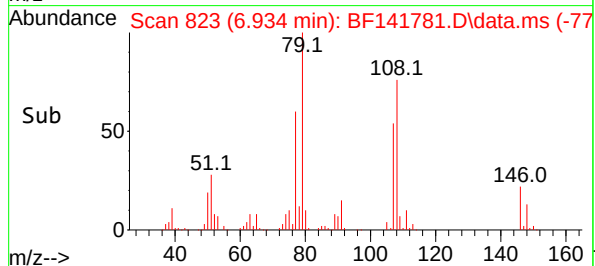
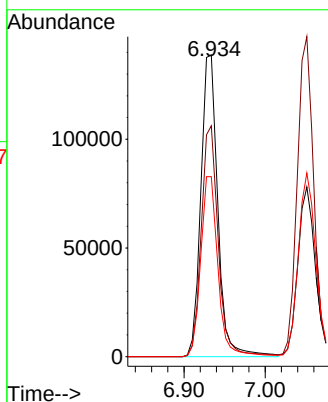
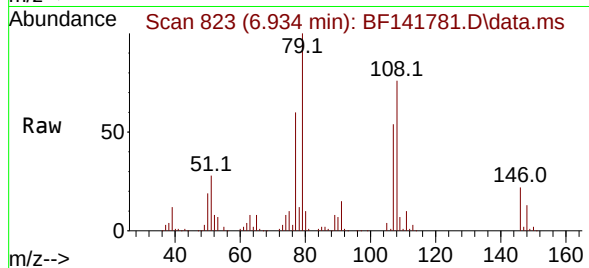
77 59.7 50.9 76.3

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.465 ng

RT: 7.057 min Scan# 844

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

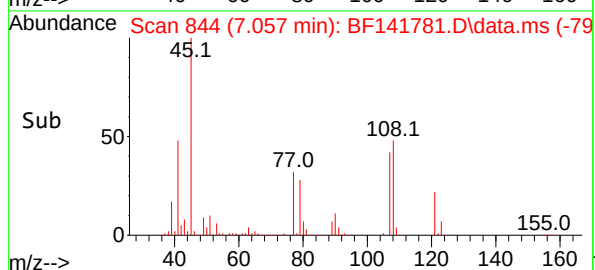
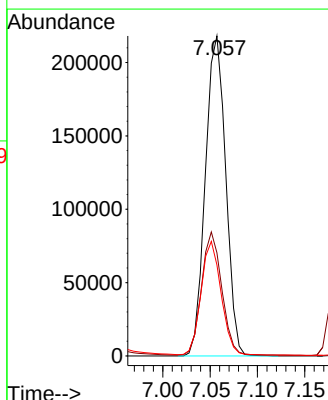
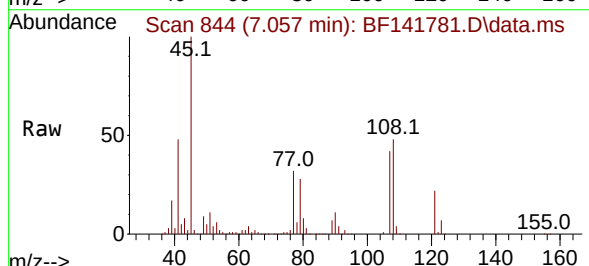
Tgt Ion: 45 Resp: 326181

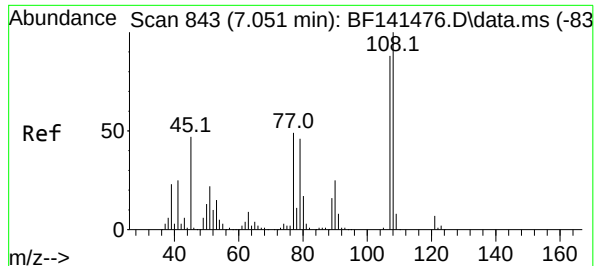
Ion Ratio Lower Upper

45 100

77 32.2 0.0 35.8

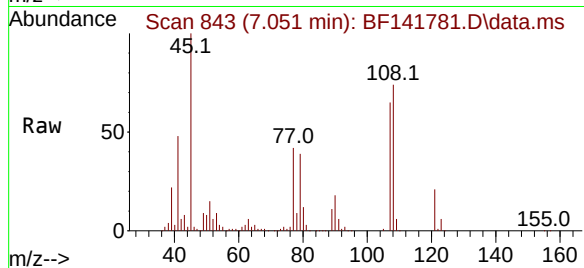
79 28.5 0.0 32.7





#17
2-Methylphenol
Concen: 40.525 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

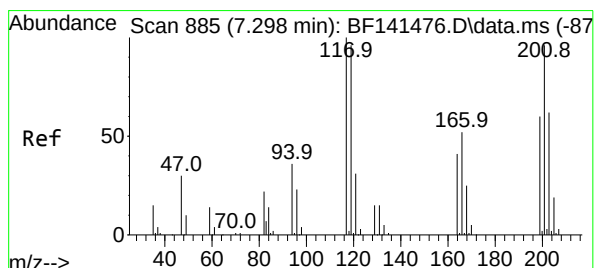
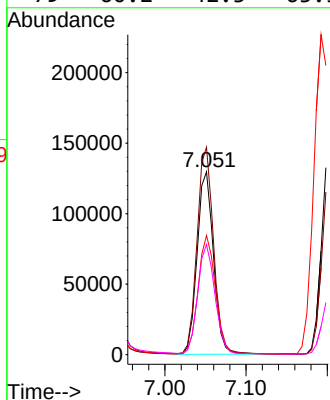
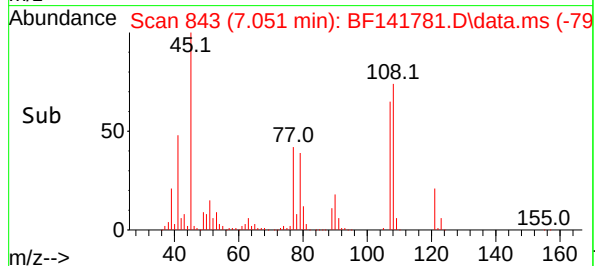
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:107 Resp: 181224
Ion Ratio Lower Upper
107 100
108 113.5 90.6 136.0
77 65.2 44.4 66.6
79 60.2 42.3 63.5

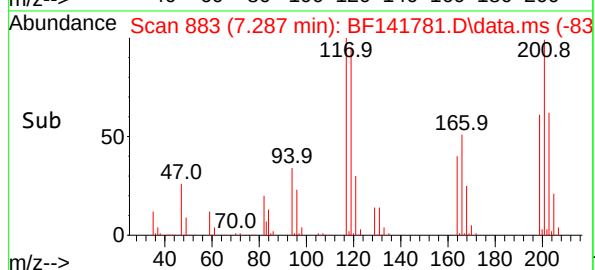
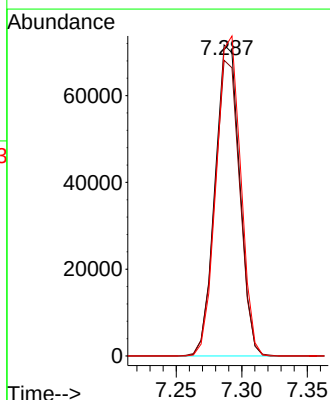
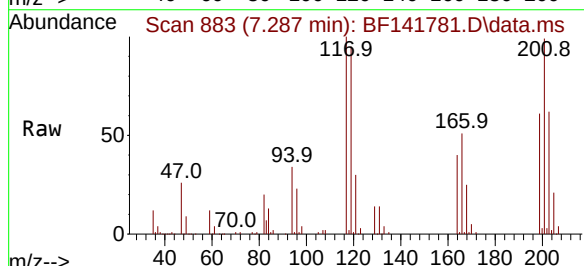
Manual Integrations
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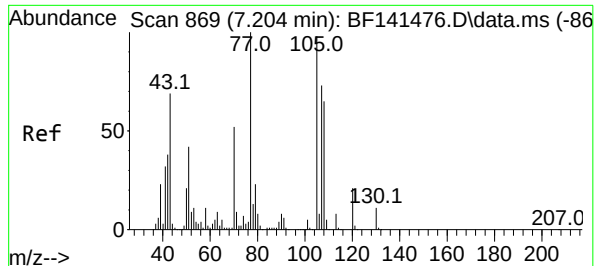
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#18
Hexachloroethane
Concen: 41.040 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:117 Resp: 93620
Ion Ratio Lower Upper
117 100
119 95.0 76.5 114.7
201 98.7 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 40.758 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.018 min

Lab File: BF141781.D

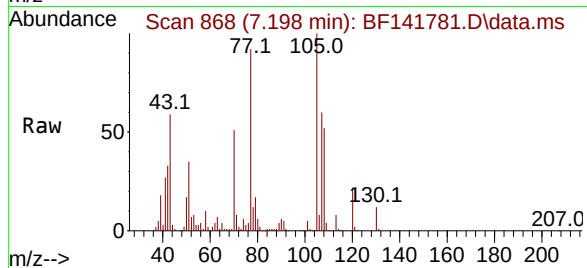
Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS



Tgt Ion: 70 Resp: 16296

Ion Ratio Lower Upper

70 100

42 64.2 57.4 86.2

101 10.1 8.0 12.0

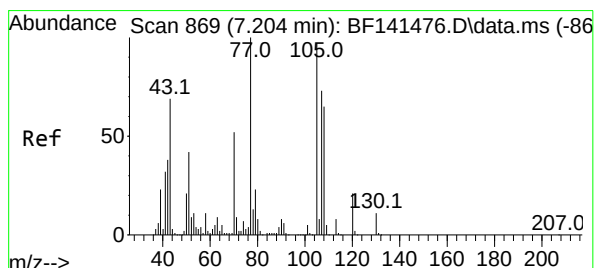
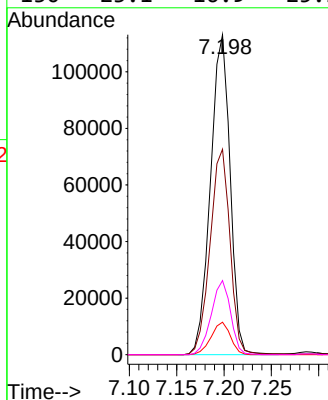
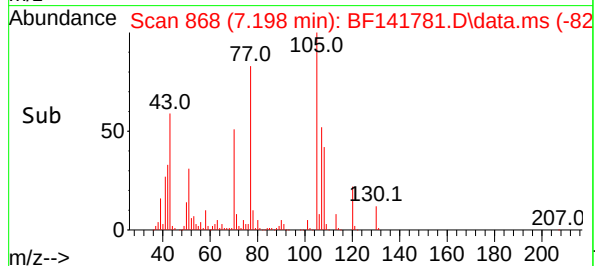
130 23.1 16.9 25.3

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Supervised By :Jagrut Upadhyay 02/27/2025



#20

3+4-Methylphenols

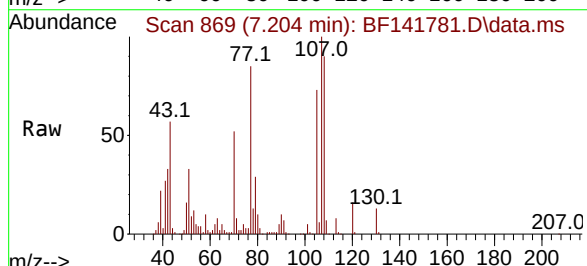
Concen: 42.643 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24



Tgt Ion:107 Resp: 242346

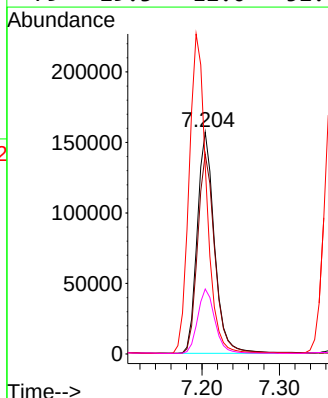
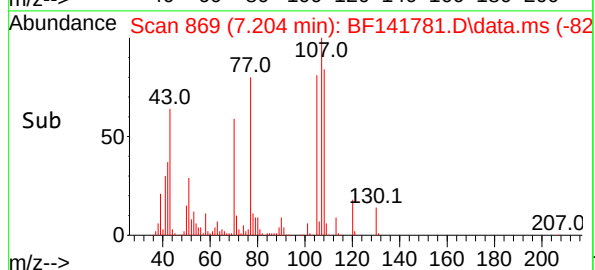
Ion Ratio Lower Upper

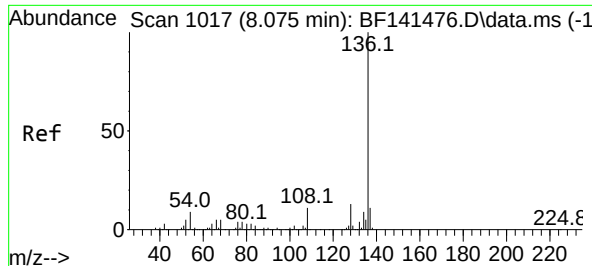
107 100

108 90.1 68.5 108.5

77 84.8 116.5 156.5

79 29.3 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1017

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:136 Resp: 32394

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.4 7.2 10.8

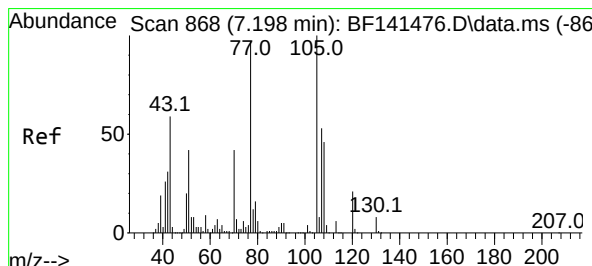
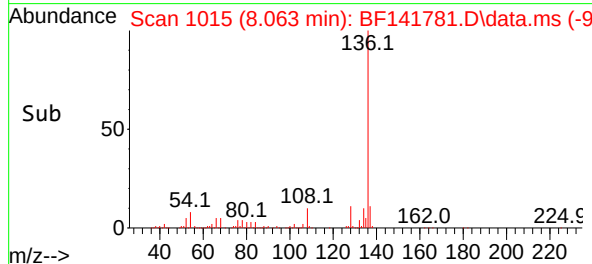
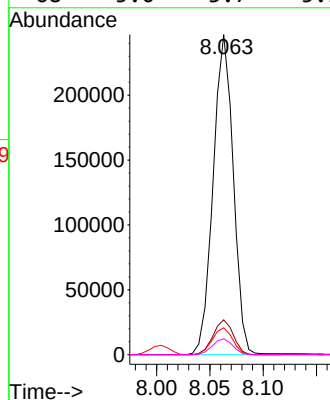
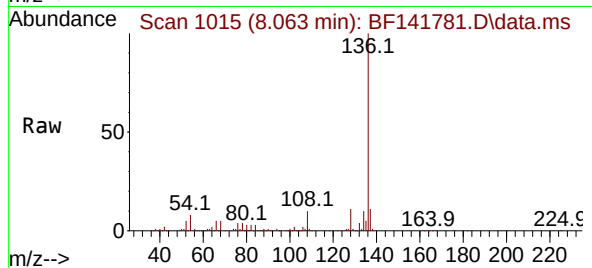
68 5.0 3.7 5.5

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#22

Acetophenone

Concen: 45.553 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Tgt Ion:105 Resp: 367081

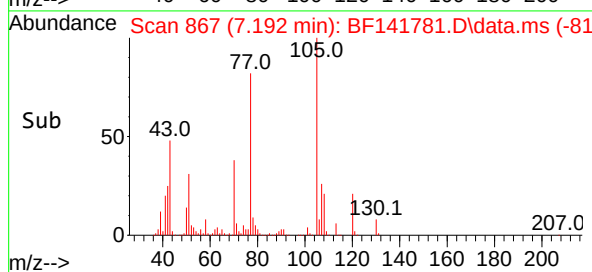
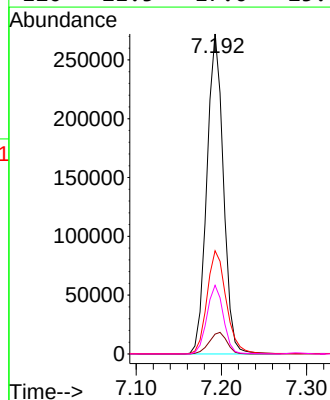
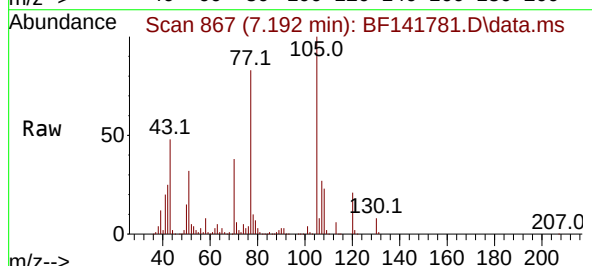
Ion Ratio Lower Upper

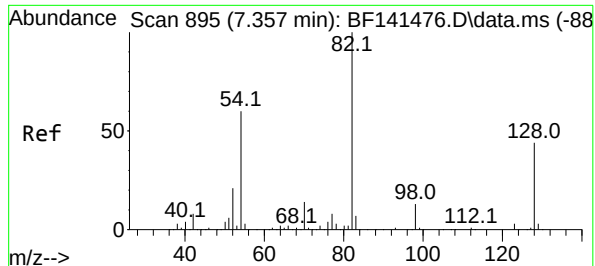
105 100

71 6.2 5.7 8.5

51 32.3 33.7 50.5#

120 21.5 17.0 25.6





#23

Nitrobenzene-d5

Concen: 84.489 ng

RT: 7.345 min Scan# 895

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion: 82 Resp: 524750

Ion Ratio Lower Upper

82 100

128 44.2 34.8 52.2

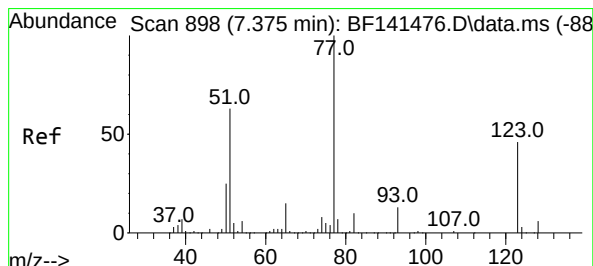
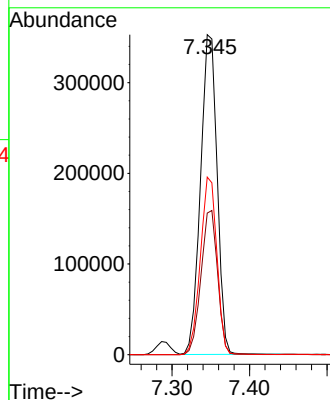
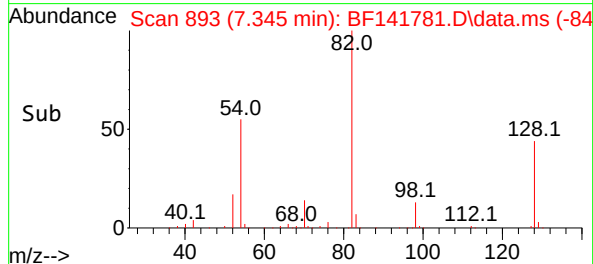
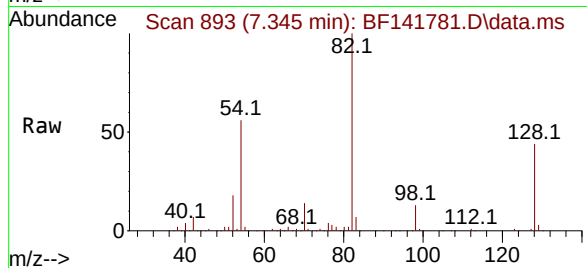
54 55.5 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#24

Nitrobenzene

Concen: 39.918 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

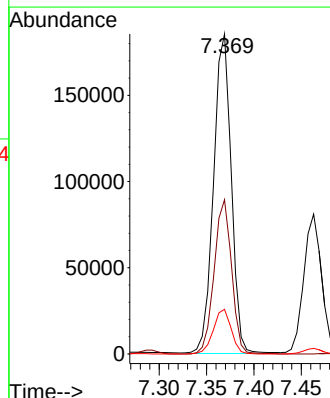
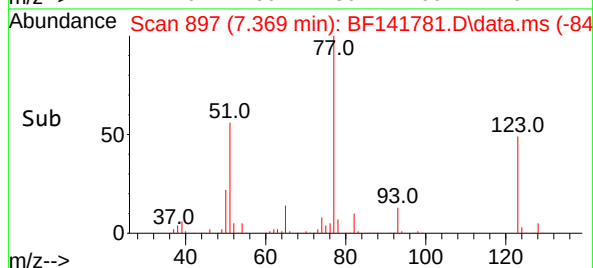
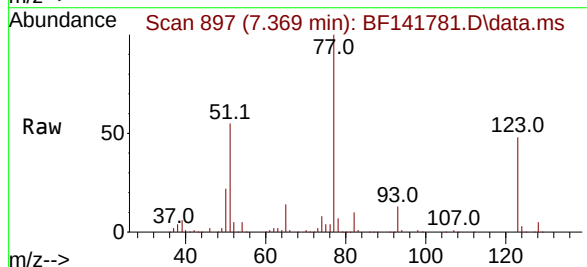
Tgt Ion: 77 Resp: 241755

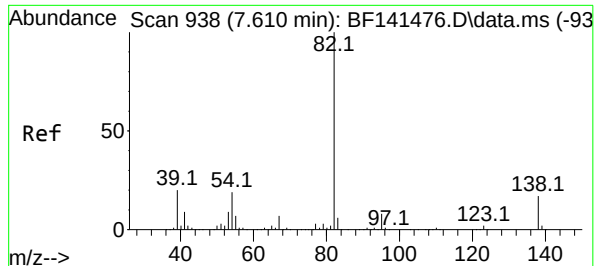
Ion Ratio Lower Upper

77 100

123 48.2 36.9 55.3

65 13.9 11.9 17.9





#25

Isophorone

Concen: 43.854 ng

RT: 7.604 min Scan# 91

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion: 82 Resp: 43429

Ion Ratio Lower Upper

82 100

95 7.6 6.4 9.6

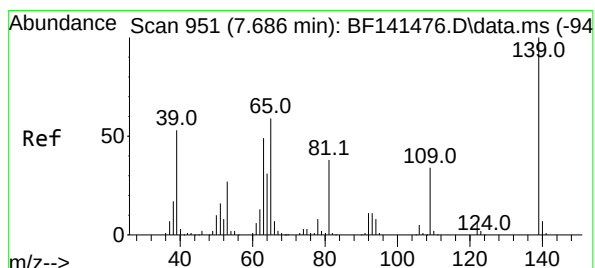
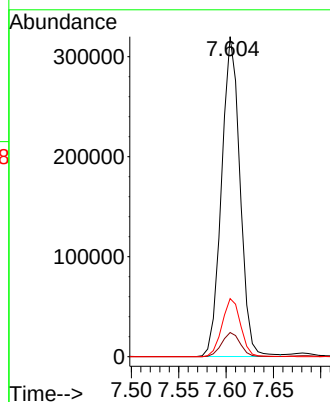
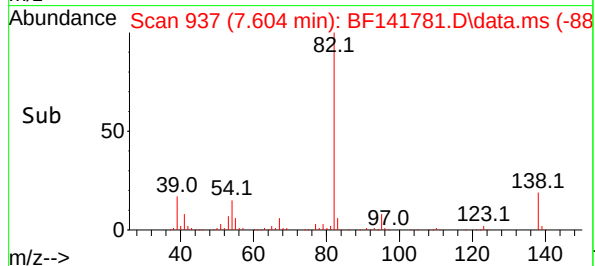
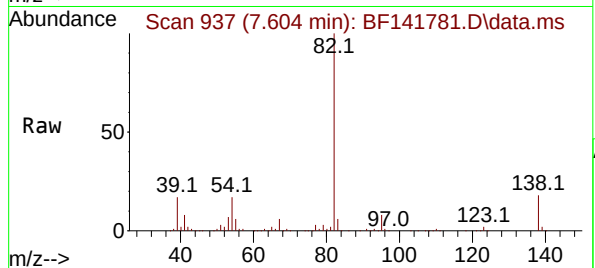
138 18.2 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#26

2-Nitrophenol

Concen: 43.631 ng

RT: 7.681 min Scan# 950

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

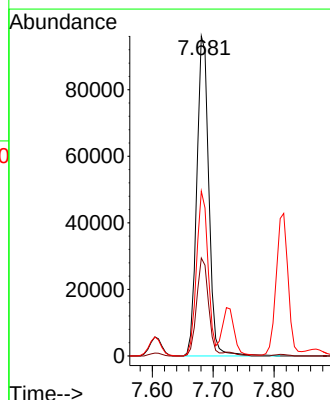
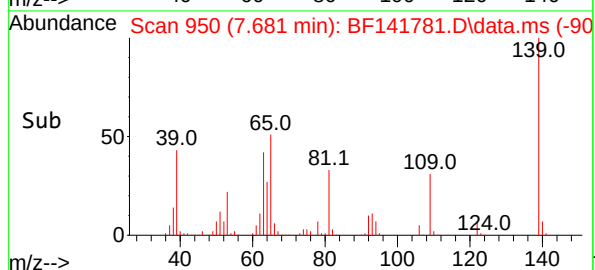
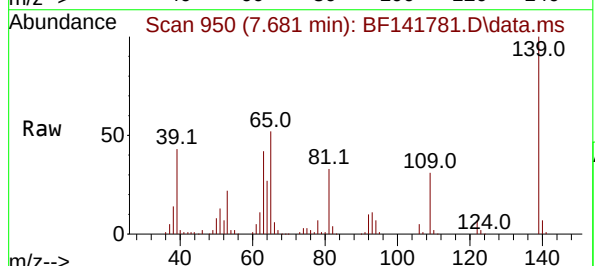
Tgt Ion:139 Resp: 131467

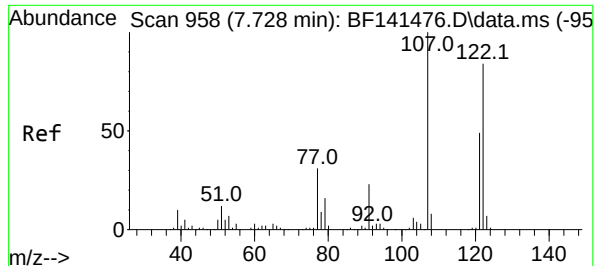
Ion Ratio Lower Upper

139 100

109 30.6 27.0 40.6

65 51.5 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 54.678 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

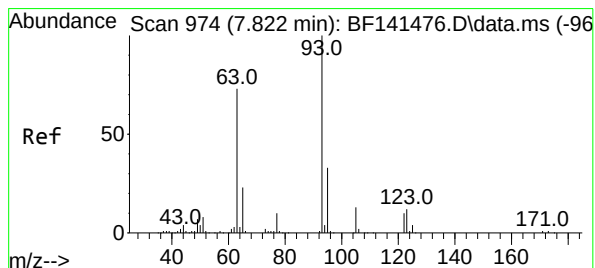
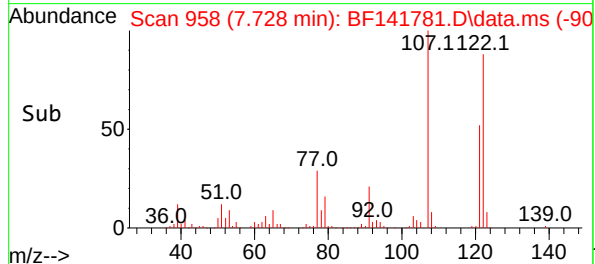
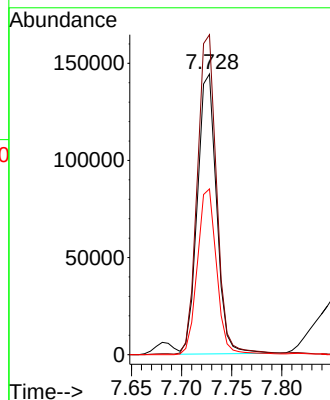
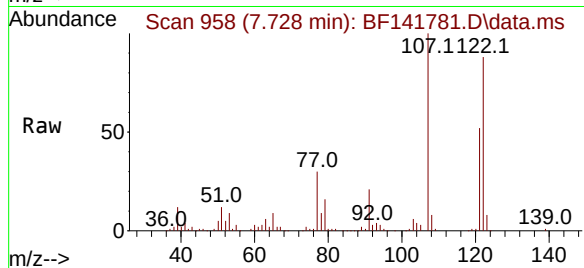
Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:	122	Resp:	19246
Ion	Ratio	Lower	Upper
122	100		
107	114.0	94.3	141.5
121	59.1	46.0	69.0

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

#28

bis(2-Chloroethoxy)methane

Concen: 42.541 ng

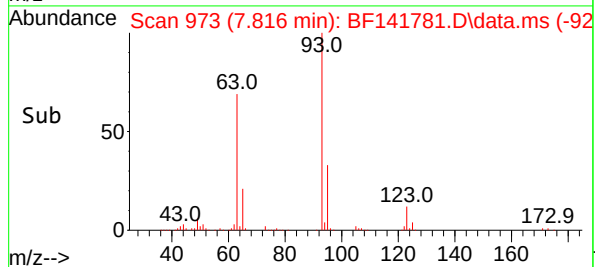
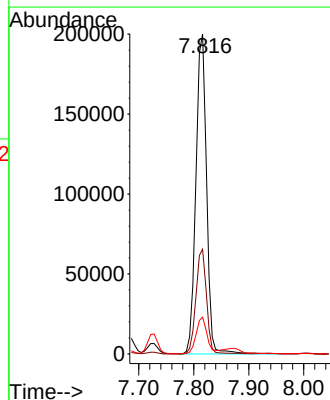
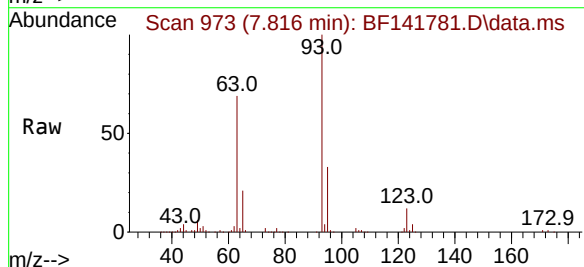
RT: 7.816 min Scan# 973

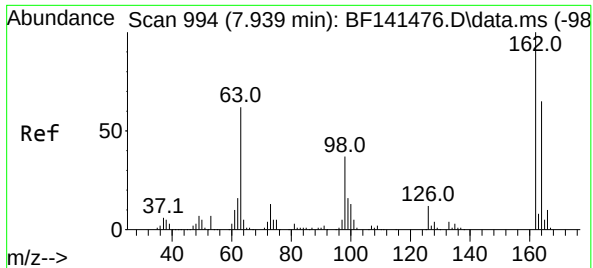
Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Tgt Ion:	93	Resp:	269950
Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.1	39.1
123	11.5	9.5	14.3





#29

2,4-Dichlorophenol

Concen: 42.637 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:162 Resp: 20278

Ion Ratio Lower Upper

162 100

164 64.5 44.6 84.6

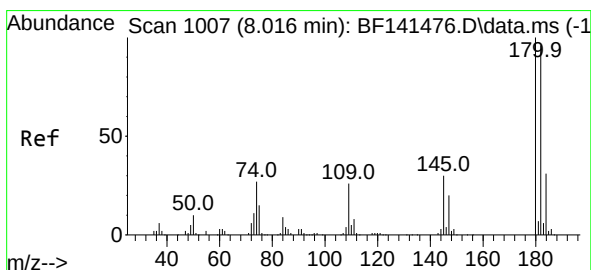
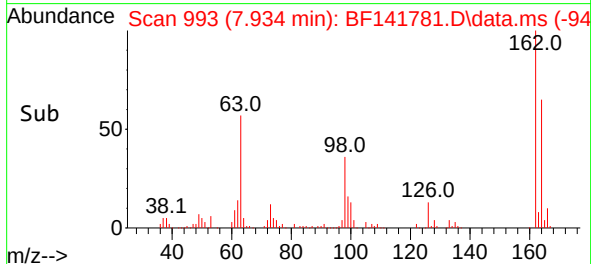
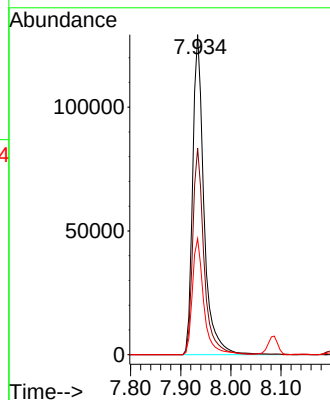
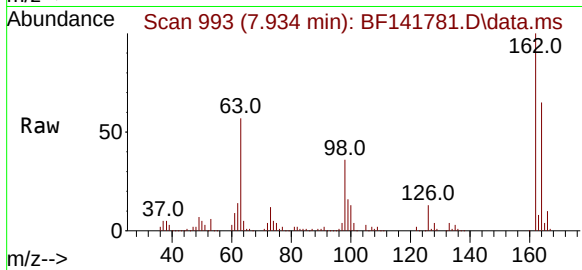
98 36.3 17.2 57.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#30

1,2,4-Trichlorobenzene

Concen: 42.015 ng

RT: 8.004 min Scan# 1005

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

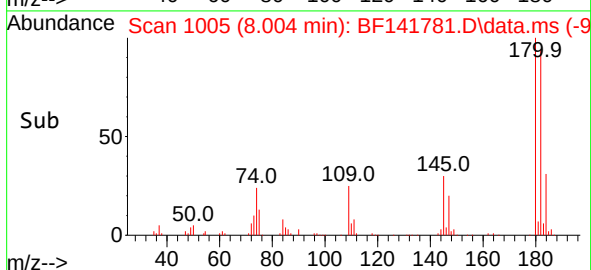
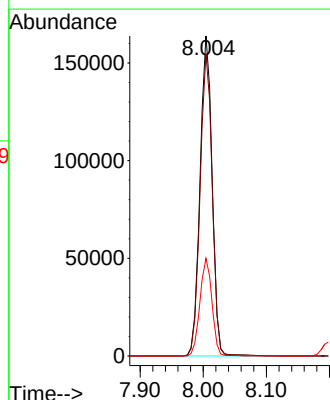
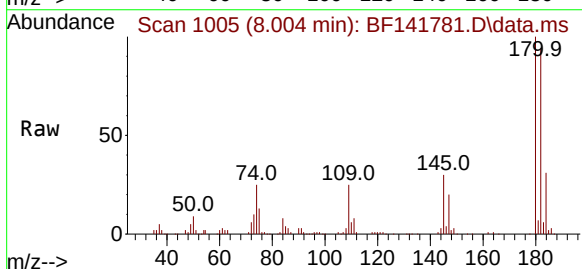
Tgt Ion:180 Resp: 217604

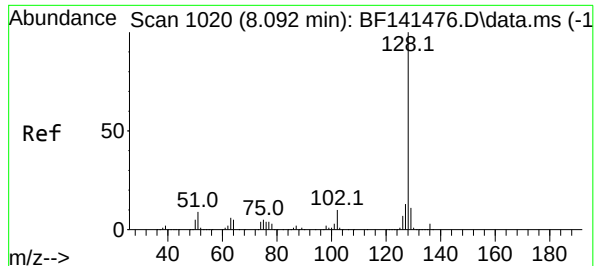
Ion Ratio Lower Upper

180 100

182 94.4 76.8 115.2

145 30.5 24.2 36.4





#31

Naphthalene

Concen: 40.582 ng

RT: 8.087 min Scan# 1019

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:128 Resp: 68432

Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

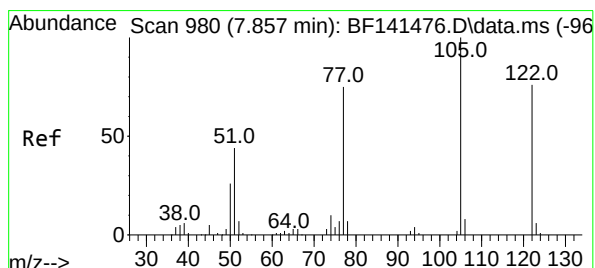
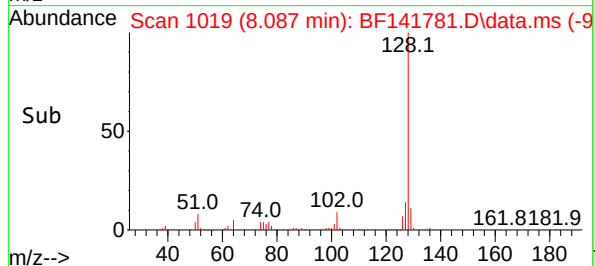
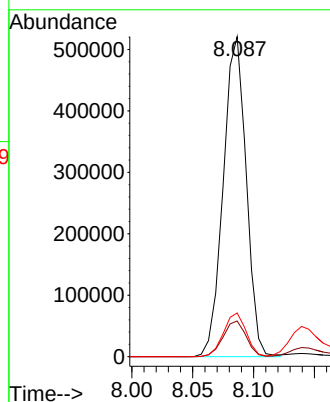
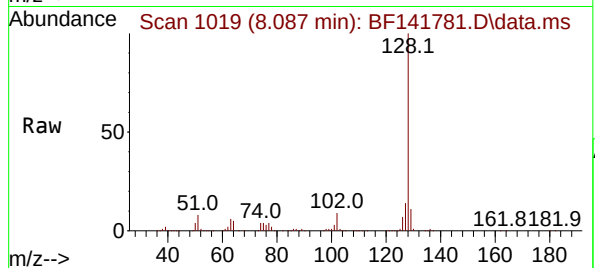
127 13.6 10.7 16.1

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#32

Benzoic acid

Concen: 35.492 ng

RT: 7.869 min Scan# 982

Delta R.T. -0.023 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

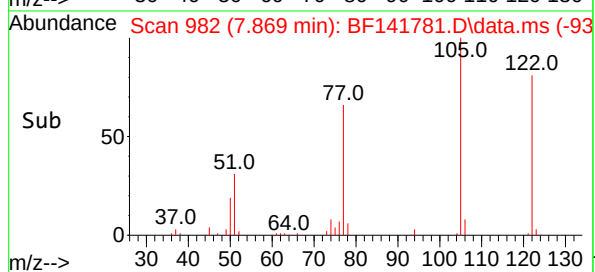
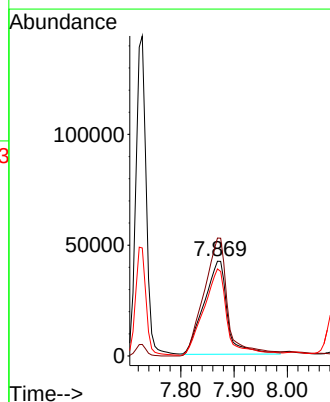
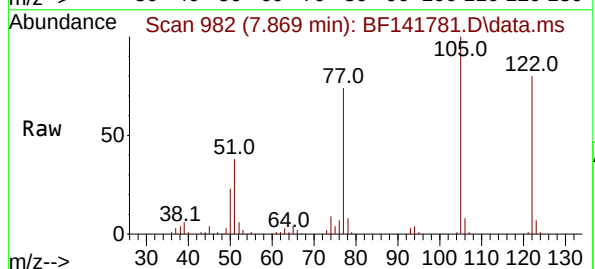
Tgt Ion:122 Resp: 129768

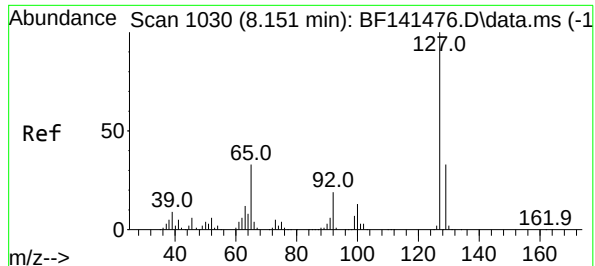
Ion Ratio Lower Upper

122 100

105 124.6 106.5 146.5

77 92.0 76.3 116.3





#33

4-Chloroaniline

Concen: 17.825 ng

RT: 8.139 min Scan# 1030

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:127 Resp: 10494

Ion Ratio Lower Upper

127 100

129 30.3 26.5 39.7

65 30.1 26.4 39.6

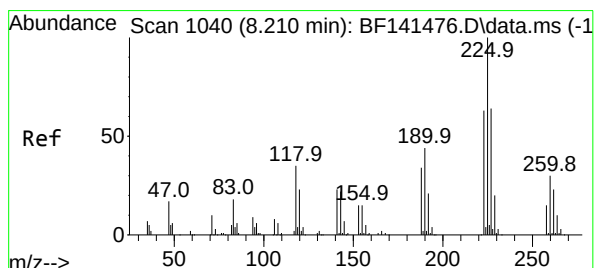
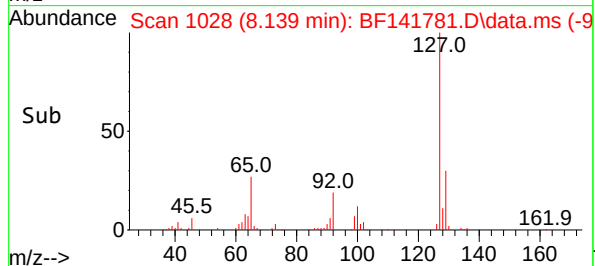
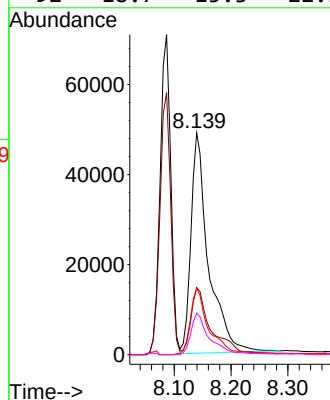
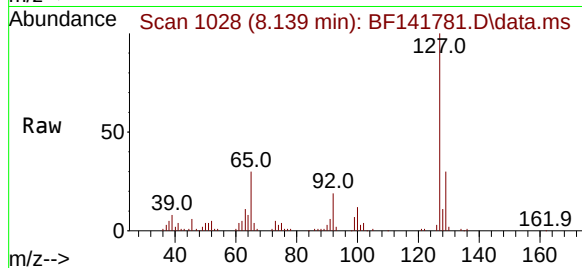
92 18.7 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#34

Hexachlorobutadiene

Concen: 42.591 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

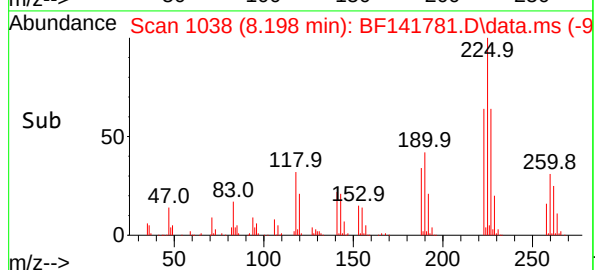
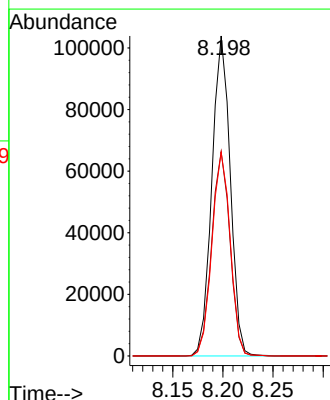
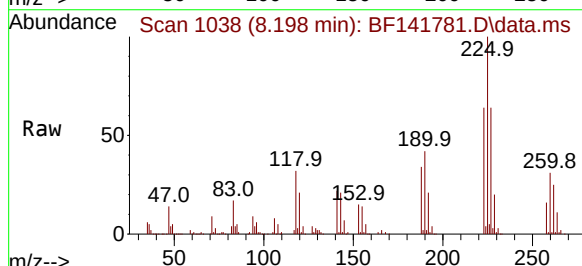
Tgt Ion:225 Resp: 132425

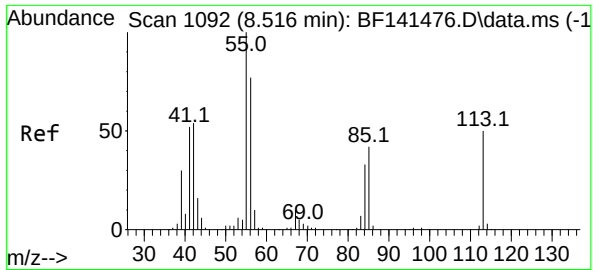
Ion Ratio Lower Upper

225 100

223 63.8 50.1 75.1

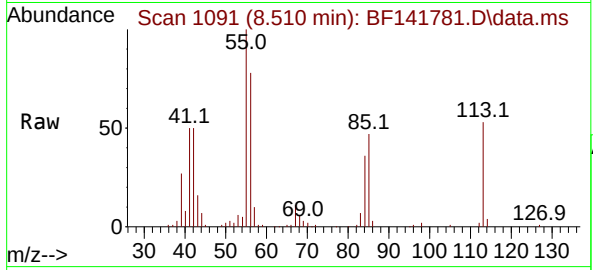
227 63.6 51.0 76.6





#35
Caprolactam
Concen: 47.043 ng m
RT: 8.510 min Scan# 1092
Delta R.T. -0.035 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

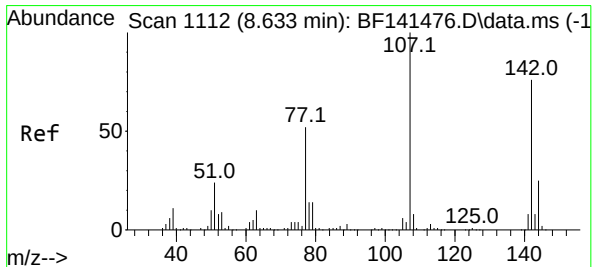
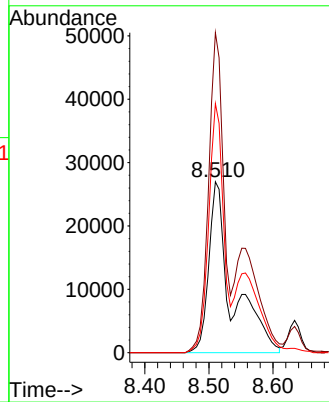
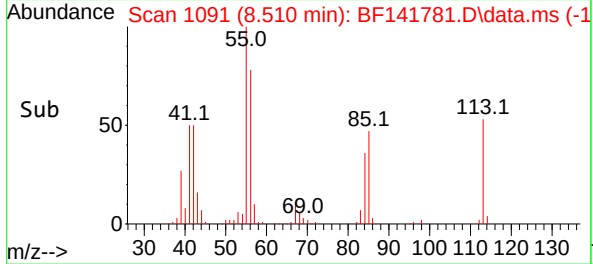
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:113 Resp: 6812
Ion Ratio Lower Upper
113 100
55 187.2 180.8 220.8
56 145.7 133.6 173.6

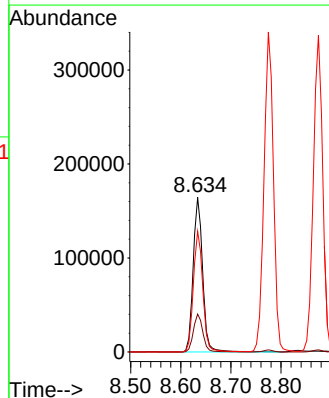
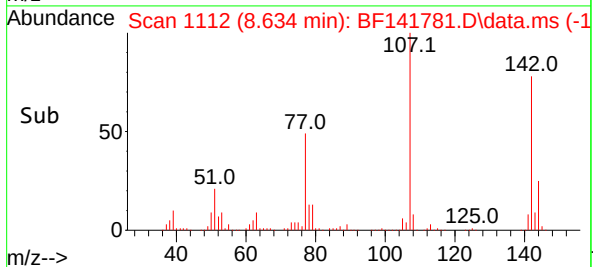
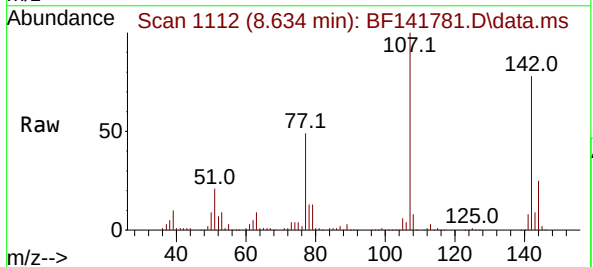
Manual Integrations
APPROVED

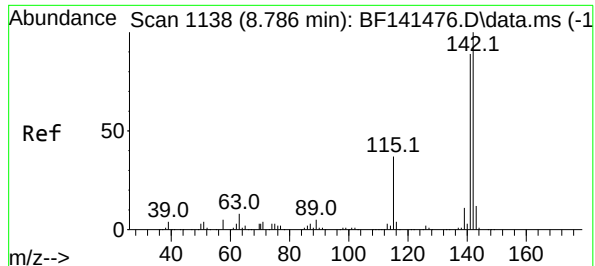
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#36
4-Chloro-3-methylphenol
Concen: 40.986 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:107 Resp: 215925
Ion Ratio Lower Upper
107 100
144 24.5 19.7 29.5
142 78.0 60.8 91.2





#37
2-Methylnaphthalene
Concen: 40.528 ng
RT: 8.775 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

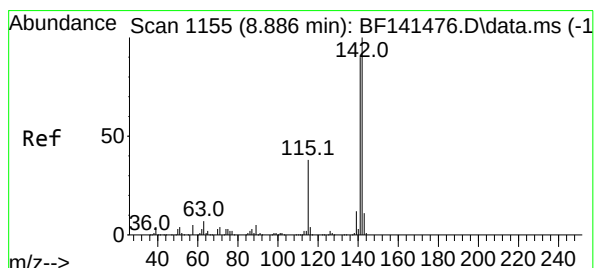
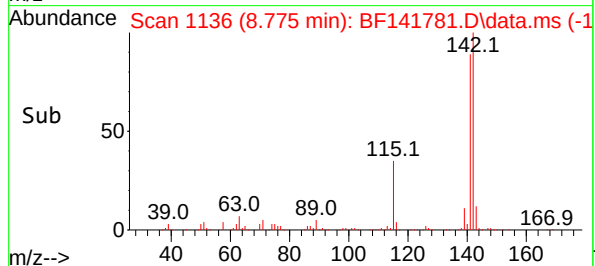
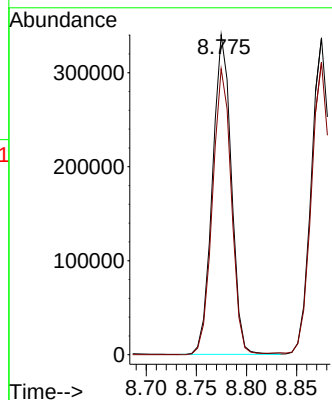
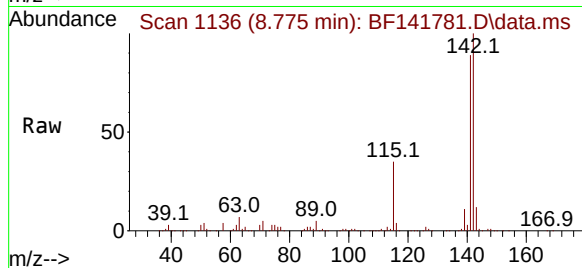
PB166875BS

Tgt Ion:142 Resp: 444714
Ion Ratio Lower Upper
142 100
141 89.3 71.2 106.8

Manual Integrations

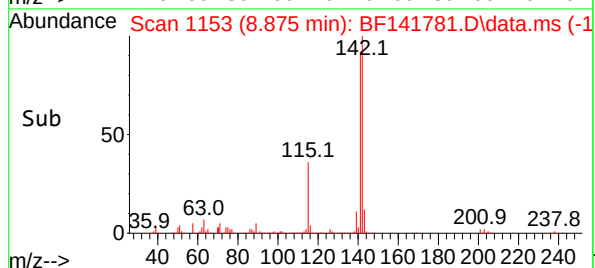
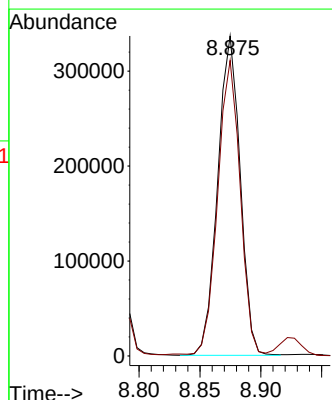
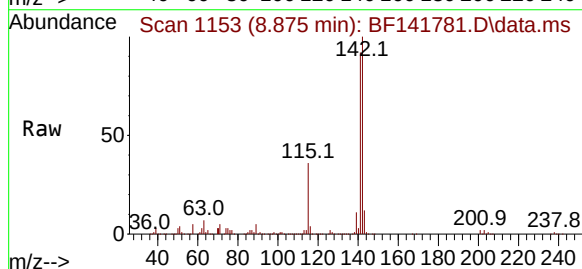
APPROVED

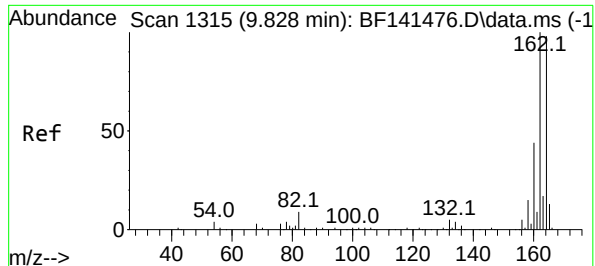
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#38
1-Methylnaphthalene
Concen: 40.696 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:142 Resp: 432503
Ion Ratio Lower Upper
142 100
141 92.3 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1165

Delta R.T. -0.018 min

Lab File: BF141781.D

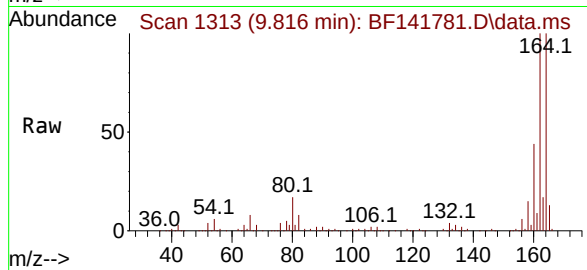
Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS



Tgt Ion:164 Resp: 18226

Ion Ratio Lower Upper

164 100

162 99.8 81.3 121.9

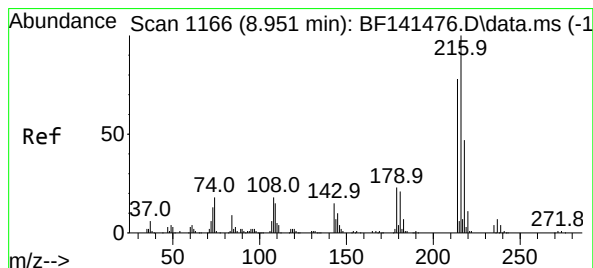
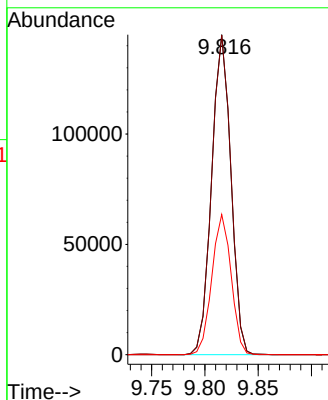
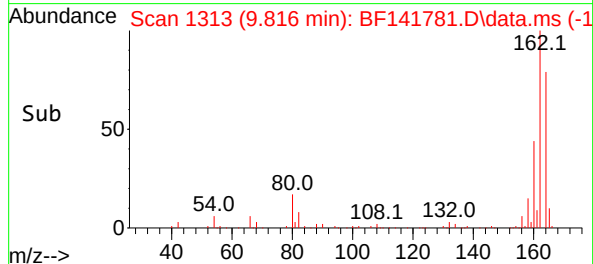
160 43.8 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#40

1,2,4,5-Tetrachlorobenzene

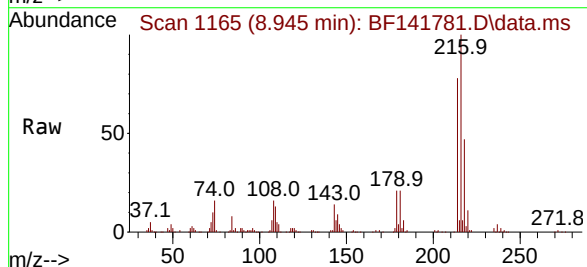
Concen: 46.434 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24



Tgt Ion:216 Resp: 244851

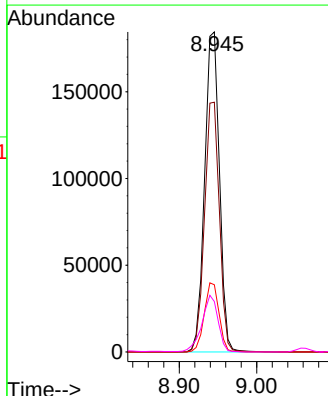
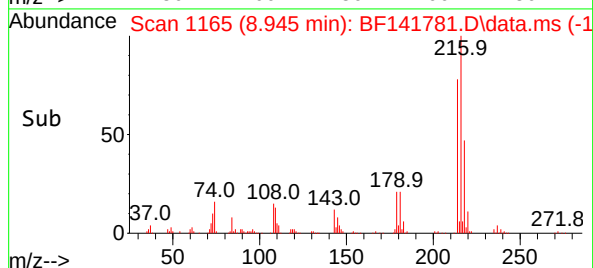
Ion Ratio Lower Upper

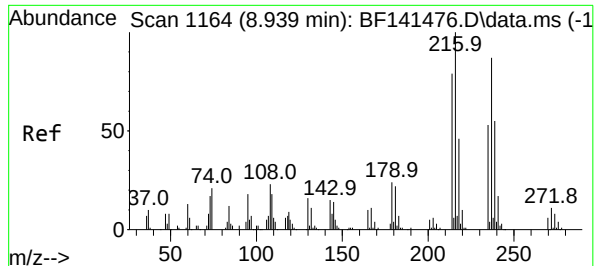
216 100

214 78.3 62.3 93.5

179 21.5 18.0 27.0

108 19.3 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 116.131 ng

RT: 8.928 min Scan# 1162

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:237 Resp: 20368

Ion Ratio Lower Upper

237 100

235 63.6 41.4 81.4

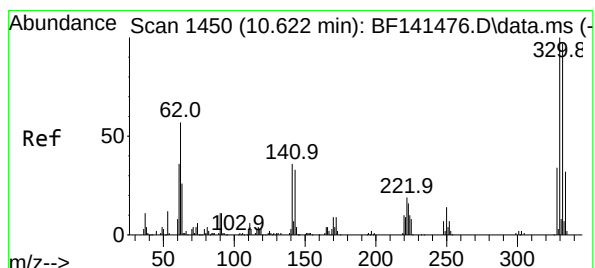
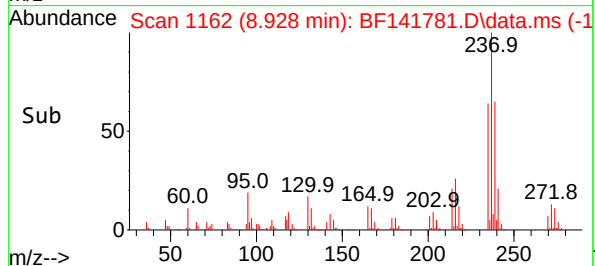
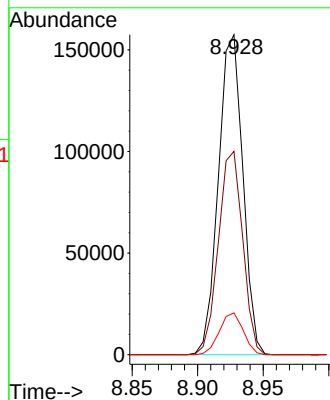
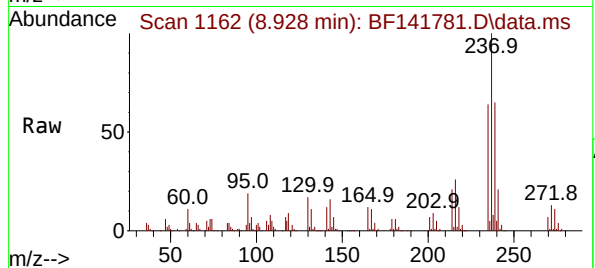
272 13.1 0.0 32.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#42

2,4,6-Tribromophenol

Concen: 129.750 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.017 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

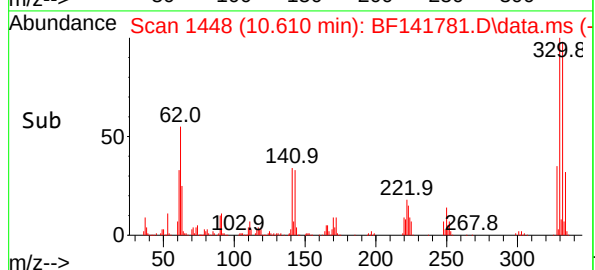
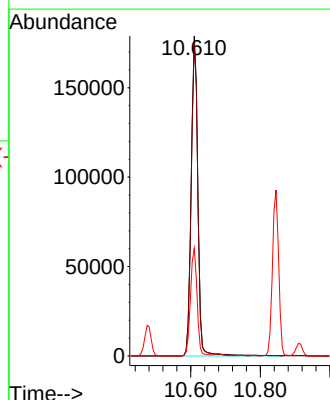
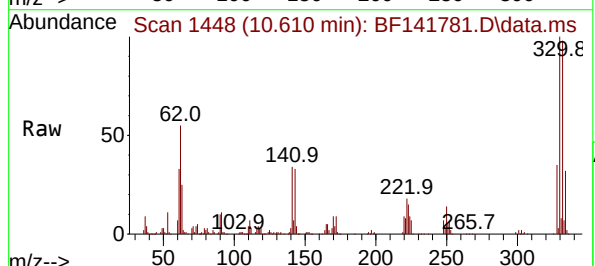
Tgt Ion:330 Resp: 237563

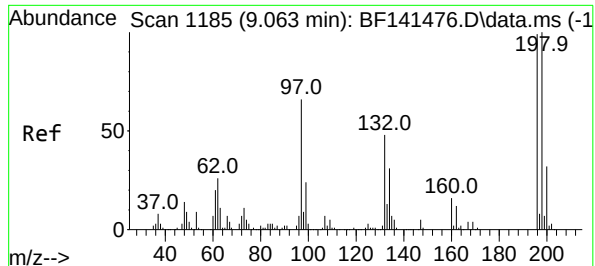
Ion Ratio Lower Upper

330 100

332 97.3 78.5 117.7

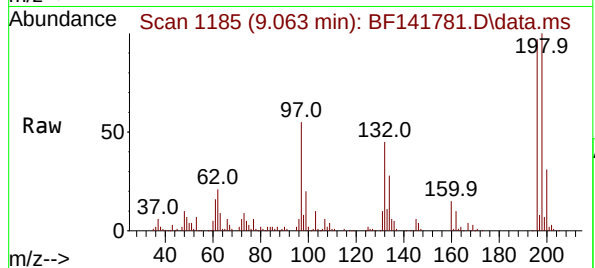
141 33.4 31.0 46.4





#43
2,4,6-Trichlorophenol
Concen: 40.753 ng
RT: 9.063 min Scan# 1185
Delta R.T. -0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

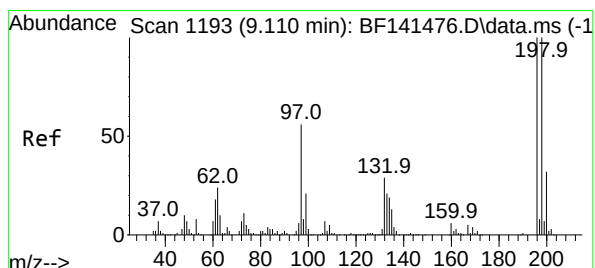
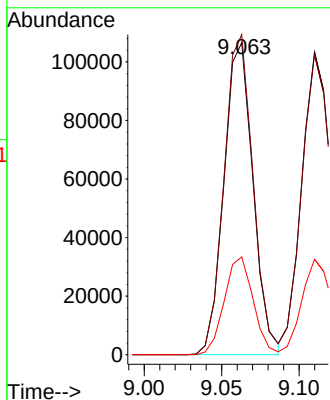
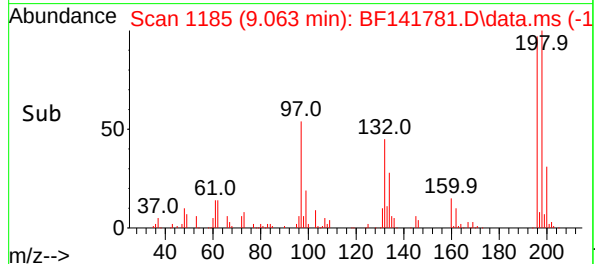
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:196 Resp: 138890
Ion Ratio Lower Upper
196 100
198 102.6 80.6 121.0
200 31.4 25.5 38.3

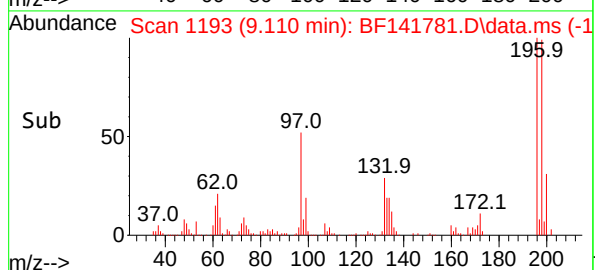
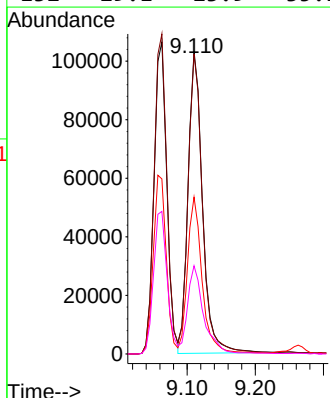
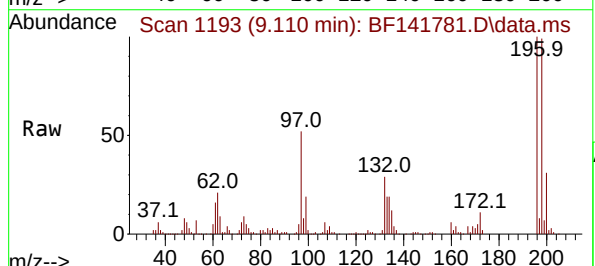
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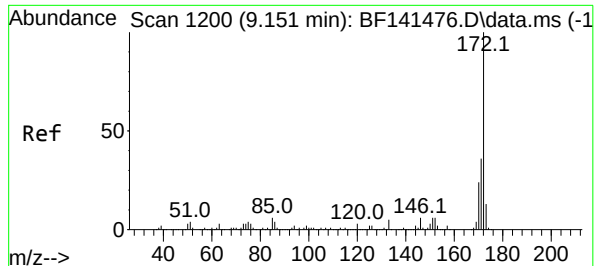
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#44
2,4,5-Trichlorophenol
Concen: 40.927 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:196 Resp: 151169
Ion Ratio Lower Upper
196 100
198 99.1 79.8 119.8
97 51.8 44.8 67.2
132 29.1 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 88.197 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:172 Resp: 104341

Ion Ratio Lower Upper

172 100

171 35.3 28.7 43.1

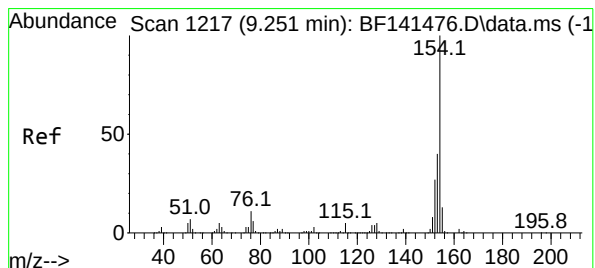
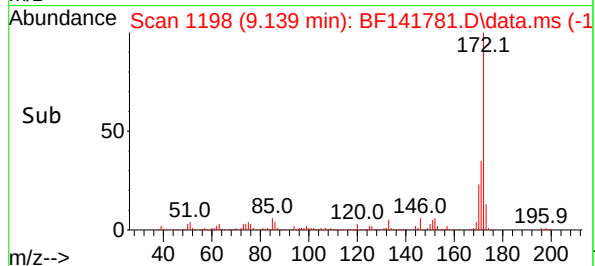
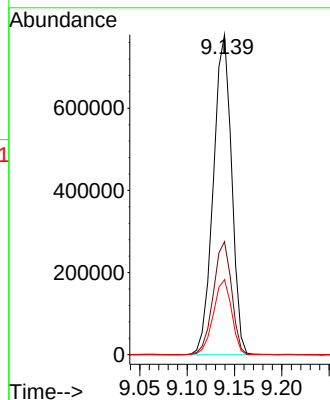
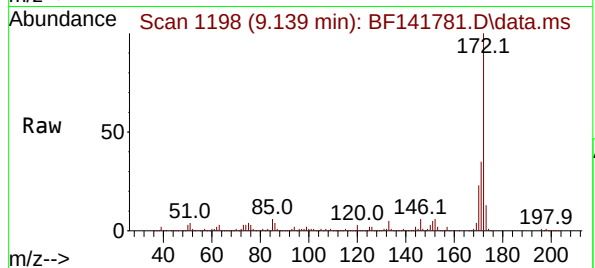
170 23.4 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#46

1,1'-Biphenyl

Concen: 45.716 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

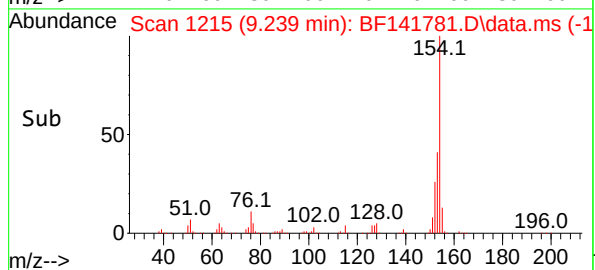
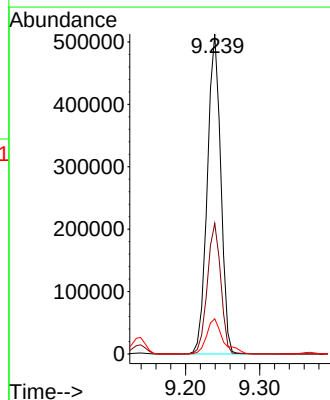
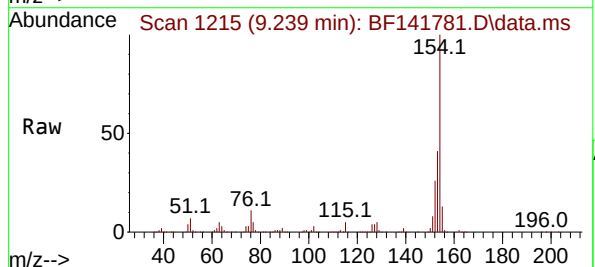
Tgt Ion:154 Resp: 645996

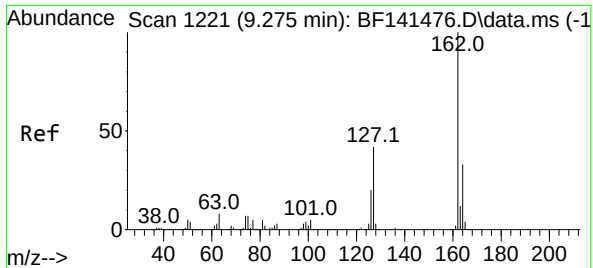
Ion Ratio Lower Upper

154 100

153 40.8 20.4 60.4

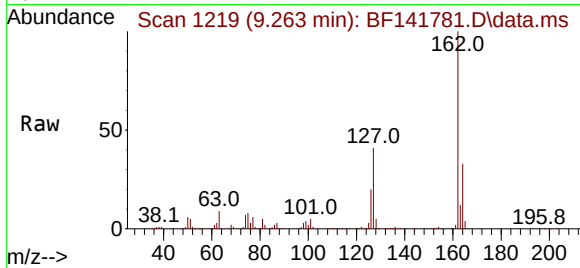
76 11.0 0.0 30.8





#47
2-Chloronaphthalene
Concen: 42.099 ng
RT: 9.263 min Scan# 1219
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

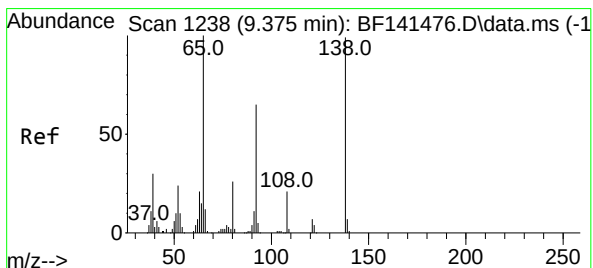
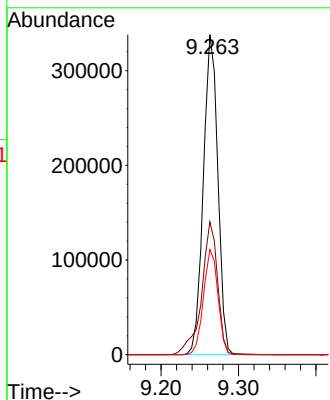
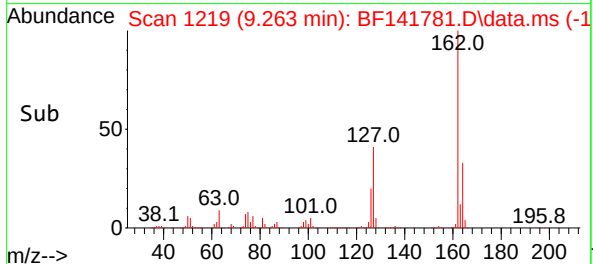
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:162 Resp: 439898
Ion Ratio Lower Upper
162 100
127 41.5 34.1 51.1
164 32.9 26.3 39.5

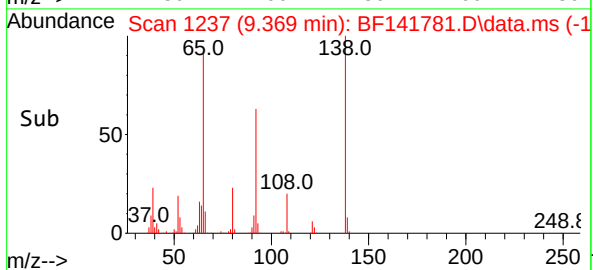
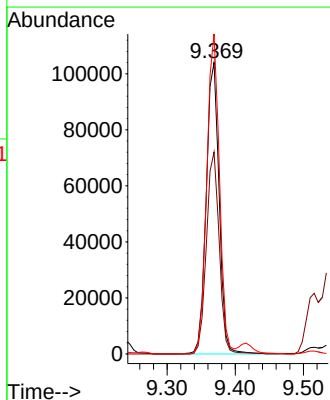
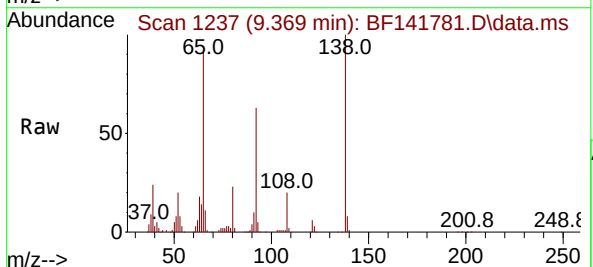
Manual Integrations
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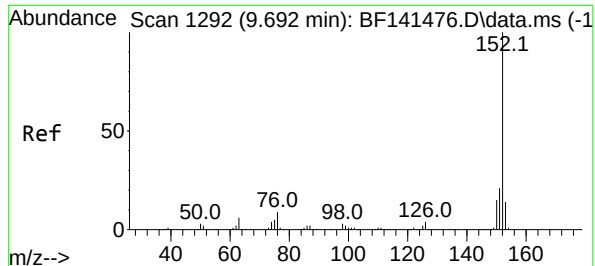
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#48
2-Nitroaniline
Concen: 39.158 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 65 Resp: 137317
Ion Ratio Lower Upper
65 100
92 69.2 52.2 78.2
138 109.8 79.5 119.3





#49

Acenaphthylene

Concen: 43.246 ng

RT: 9.681 min Scan# 1290

Delta R.T. -0.012 min

Lab File: BF141781.D

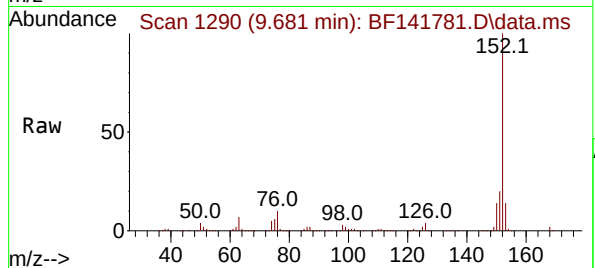
Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS



Tgt Ion:152 Resp: 672129

Ion Ratio Lower Upper

152 100

151 20.1 16.4 24.6

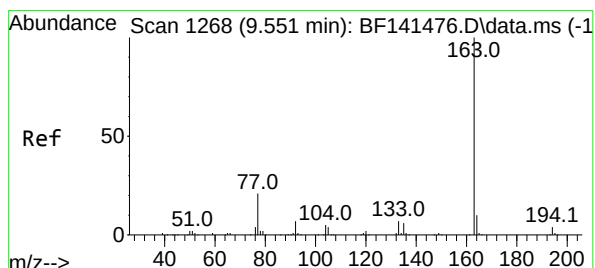
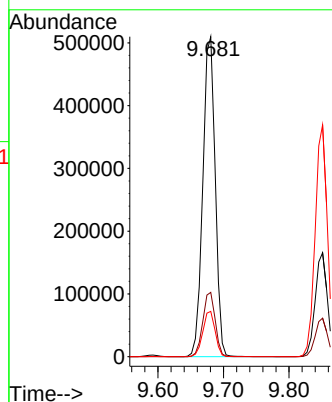
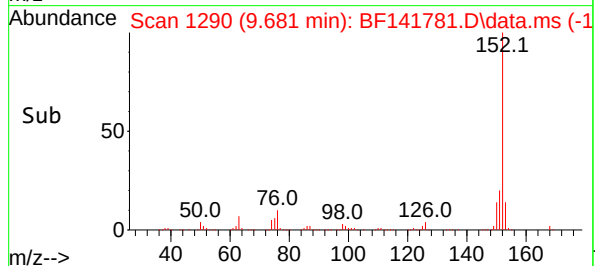
153 14.2 10.9 16.3

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#50

Dimethylphthalate

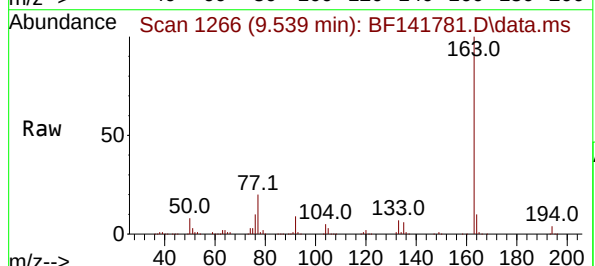
Concen: 42.463 ng

RT: 9.539 min Scan# 1266

Delta R.T. -0.023 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24



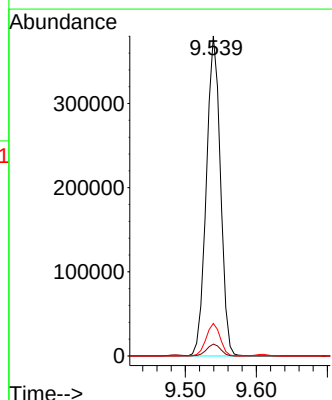
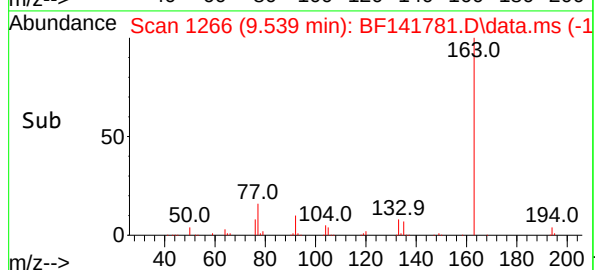
Tgt Ion:163 Resp: 525415

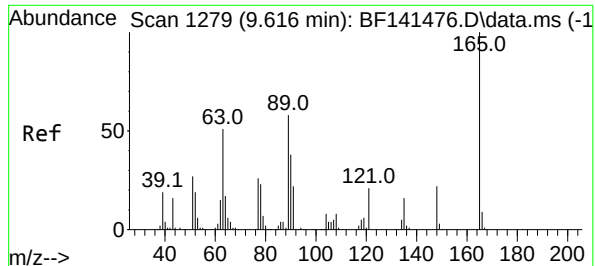
Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.4

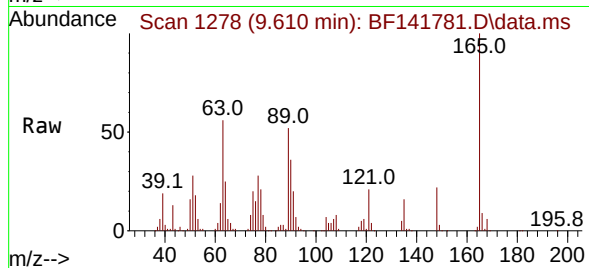
164 10.1 7.9 11.9





#51
2,6-Dinitrotoluene
Concen: 42.928 ng
RT: 9.610 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

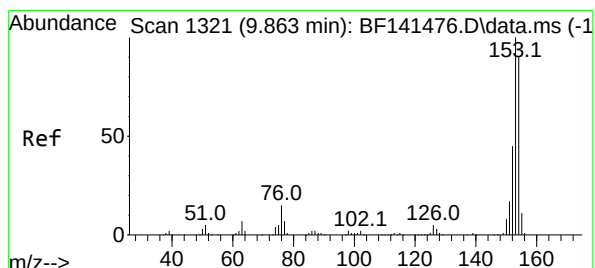
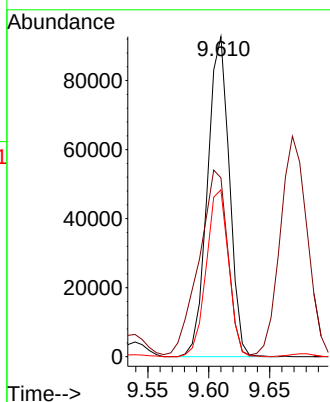
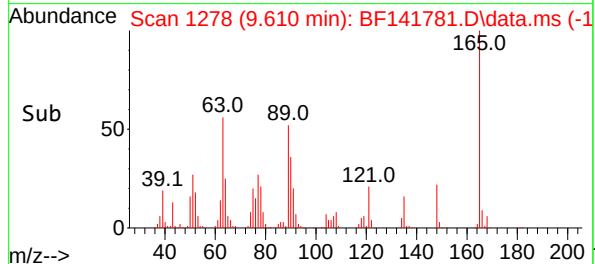
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:165 Resp: 116118
Ion Ratio Lower Upper
165 100
63 55.9 49.4 74.0
89 52.1 46.5 69.7

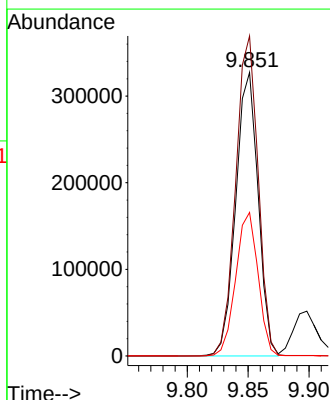
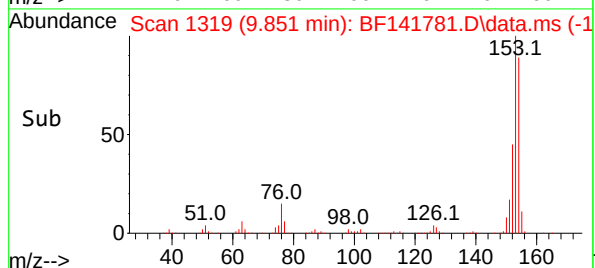
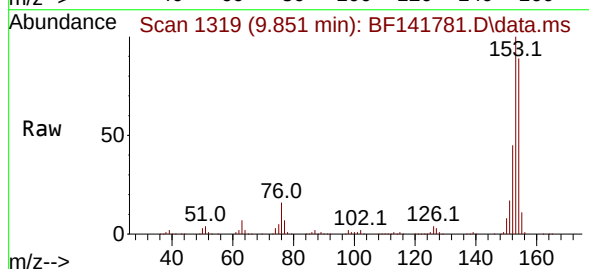
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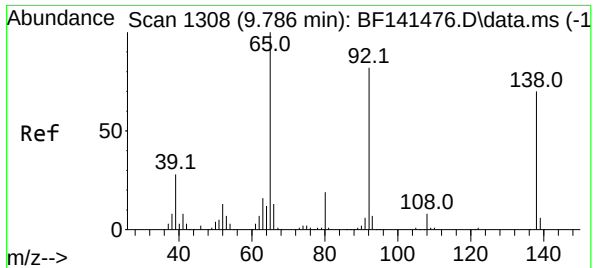
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#52
Acenaphthene
Concen: 40.087 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

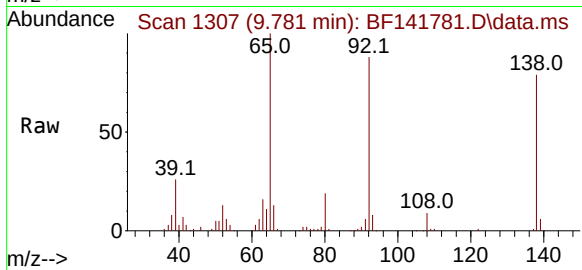
Tgt Ion:154 Resp: 418861
Ion Ratio Lower Upper
154 100
153 112.8 89.2 133.8
152 50.6 39.8 59.8





#53
3-Nitroaniline
Concen: 23.743 ng
RT: 9.781 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

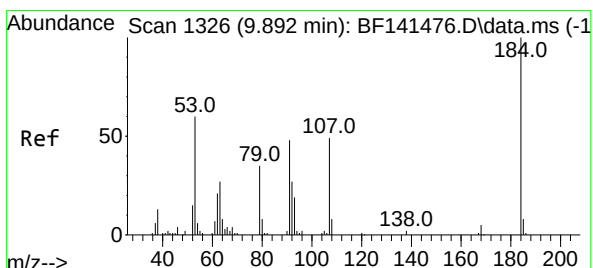
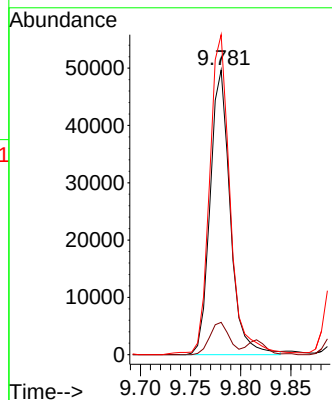
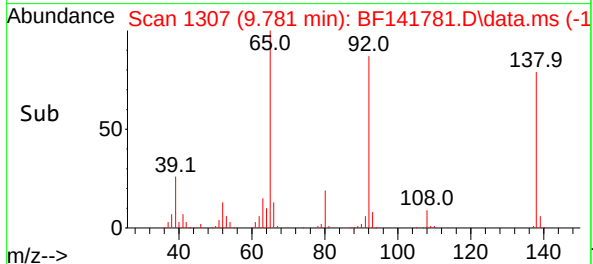
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:138 Resp: 69124
Ion Ratio Lower Upper
138 100
108 11.3 9.0 13.4
92 112.4 93.7 140.5

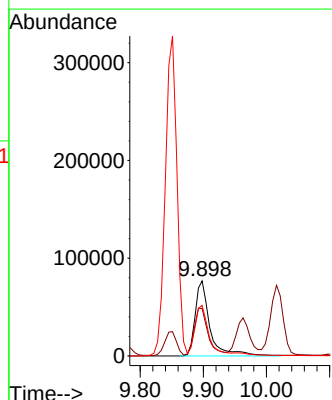
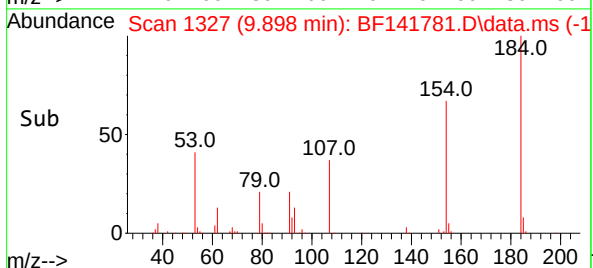
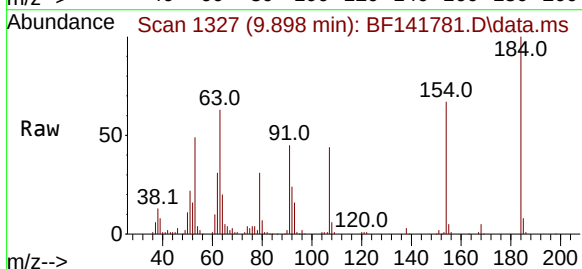
Manual Integrations
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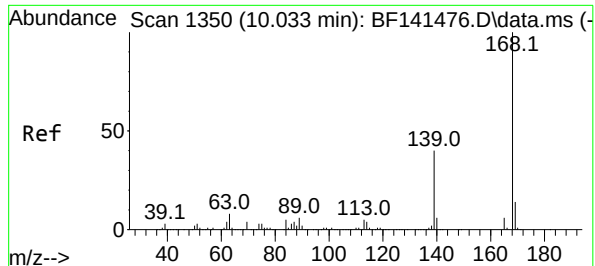
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#54
2,4-Dinitrophenol
Concen: 77.981 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:184 Resp: 125363
Ion Ratio Lower Upper
184 100
63 63.3 61.0 91.6
154 67.4 59.9 89.9





#55

Dibenzenofuran

Concen: 39.587 ng

RT: 10.022 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:168 Resp: 60714

Ion Ratio Lower Upper

168 100

139 39.5 32.7 49.1

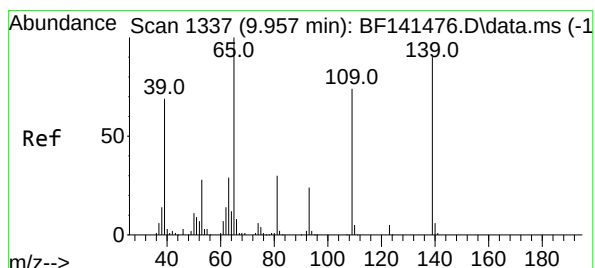
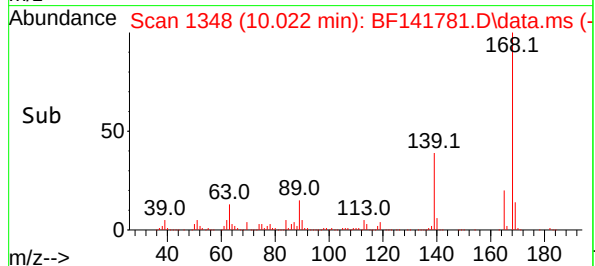
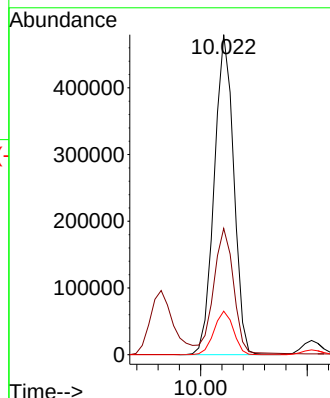
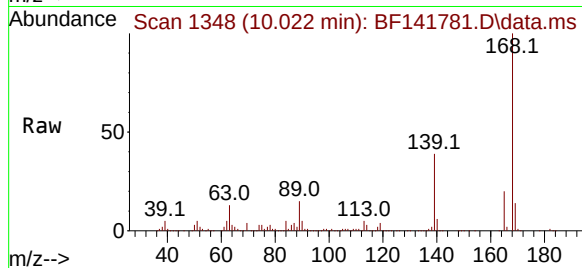
169 13.6 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#56

4-Nitrophenol

Concen: 67.651 ng

RT: 9.963 min Scan# 1338

Delta R.T. -0.006 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

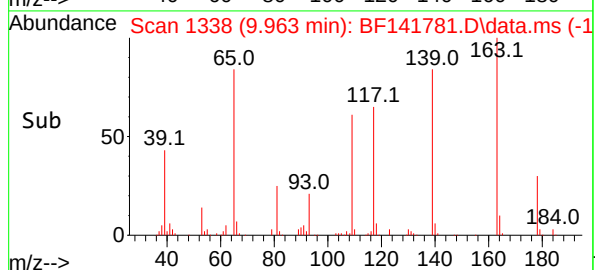
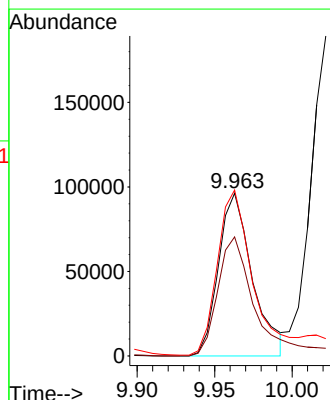
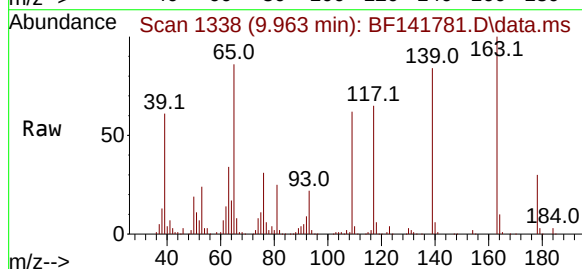
Tgt Ion:139 Resp: 146206

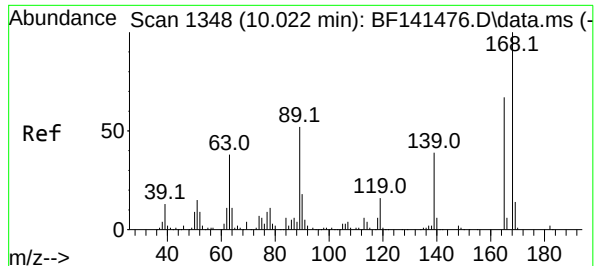
Ion Ratio Lower Upper

139 100

109 73.1 62.0 102.0

65 102.0 91.2 131.2





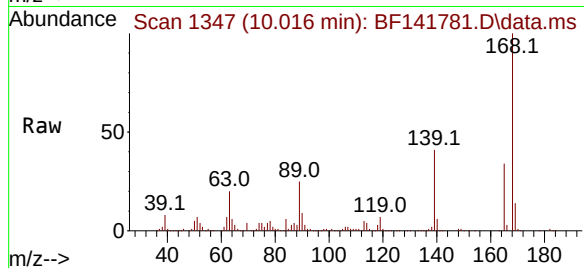
#57
2,4-Dinitrotoluene
Concen: 42.777 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

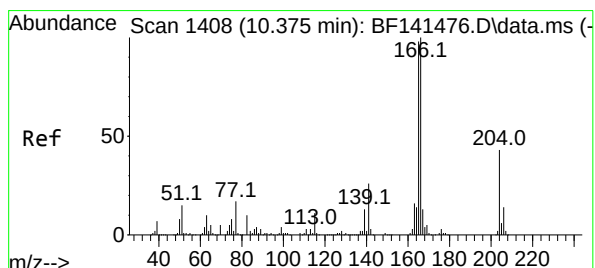
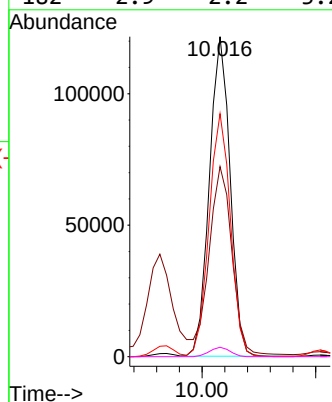
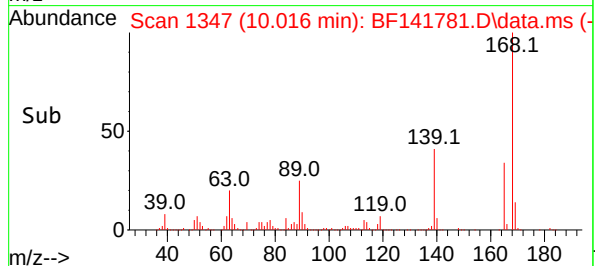


Tgt Ion:165 Resp: 154030
Ion Ratio Lower Upper
165 100
63 59.4 46.4 69.6
89 76.0 61.8 92.6
182 2.9 2.2 3.2

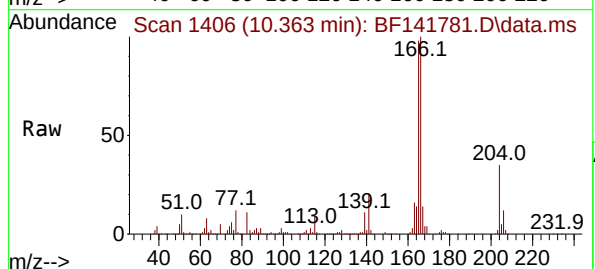
Manual Integrations

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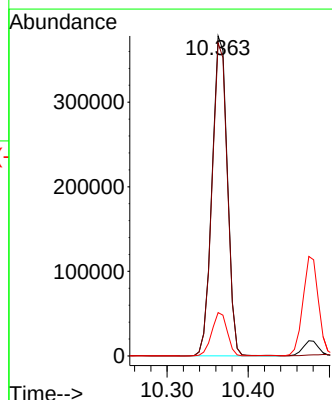
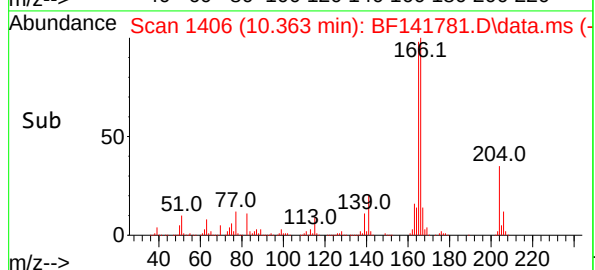
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

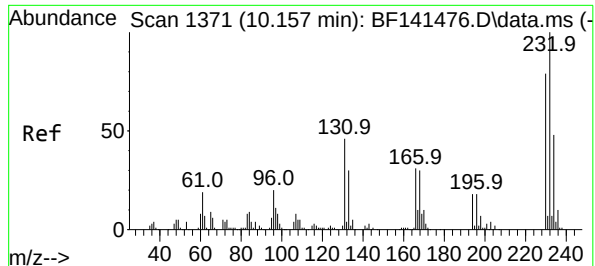


#58
Fluorene
Concen: 41.710 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24



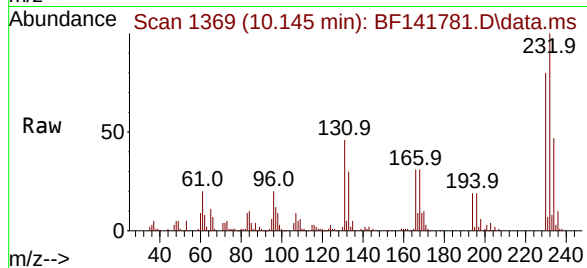
Tgt Ion:166 Resp: 494621
Ion Ratio Lower Upper
166 100
165 97.8 78.2 117.2
167 13.6 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 40.029 ng
RT: 10.145 min Scan# 1369
Delta R.T. -0.017 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

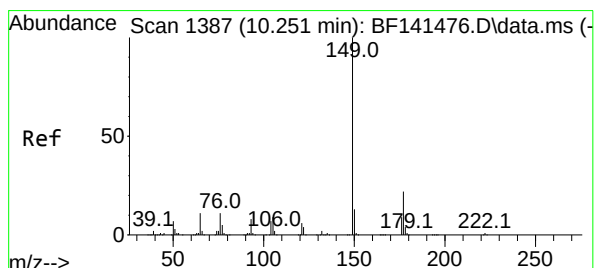
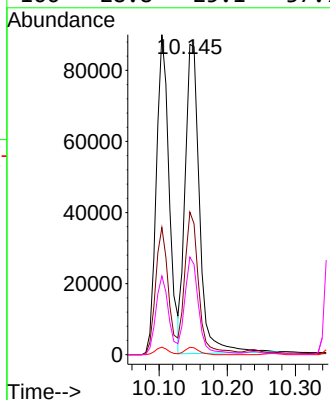
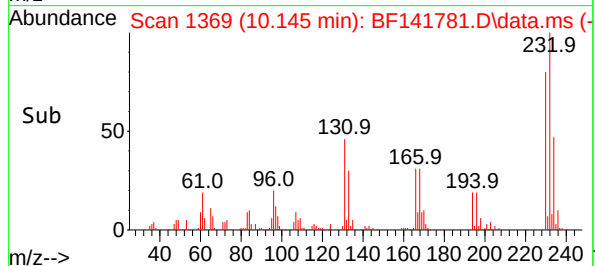
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:232 Resp: 12729
Ion Ratio Lower Upper
232 100
131 44.2 39.2 58.8
130 2.3 2.1 3.1
166 28.8 25.1 37.7

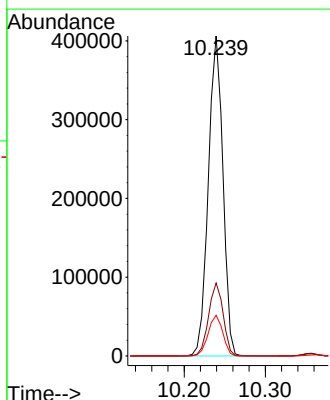
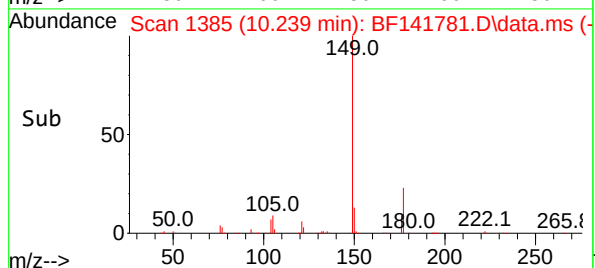
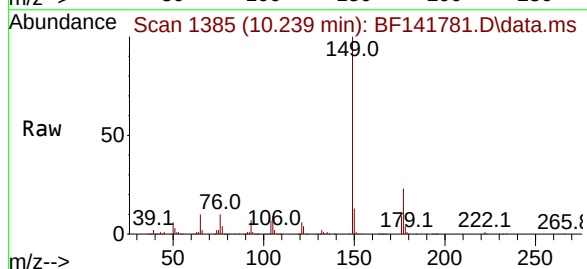
Manual Integrations
APPROVED

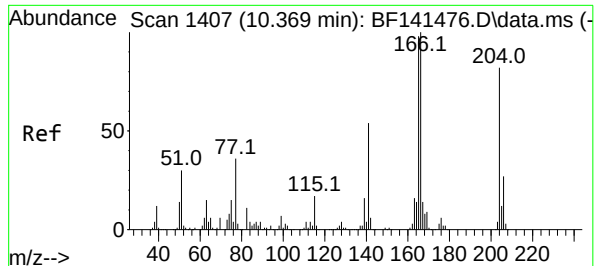
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#60
Diethylphthalate
Concen: 41.565 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

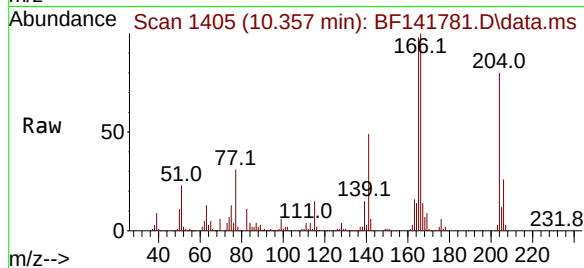
Tgt Ion:149 Resp: 506014
Ion Ratio Lower Upper
149 100
177 22.8 17.8 26.6
150 12.7 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 42.497 ng
RT: 10.357 min Scan# 1407
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

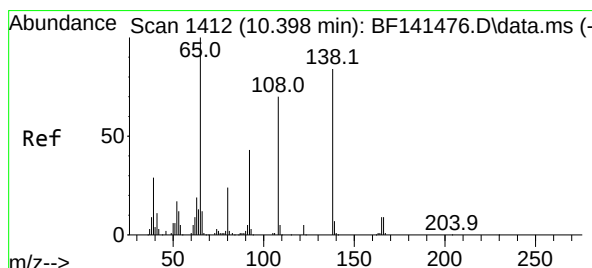
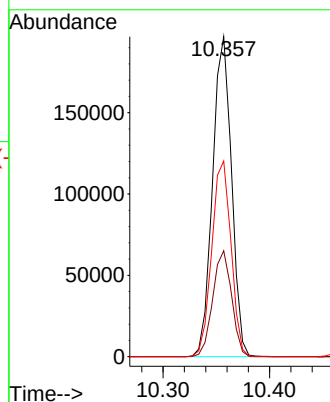
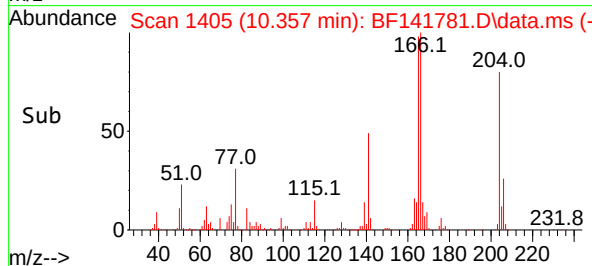
Instrument :
BNA_F
ClientSampleId :
PB166875BS



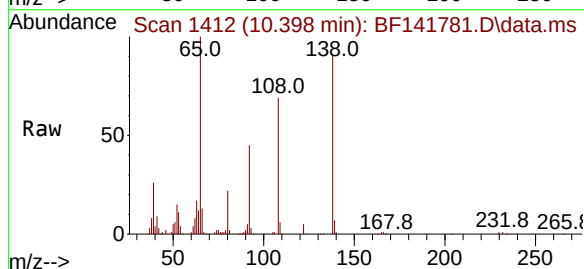
Tgt Ion:204 Resp: 24244
Ion Ratio Lower Upper
204 100
206 33.1 26.6 40.0
141 61.2 51.9 77.9

Manual Integrations
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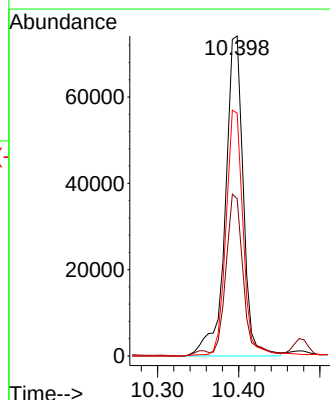
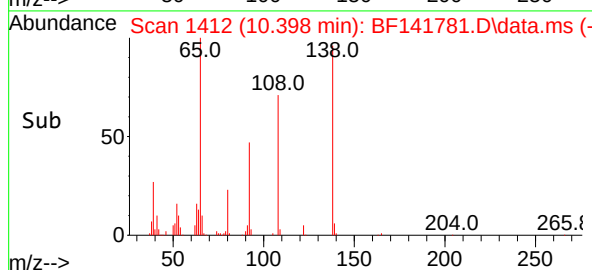
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

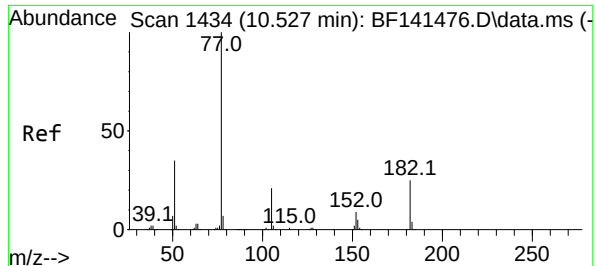


#62
4-Nitroaniline
Concen: 38.626 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24



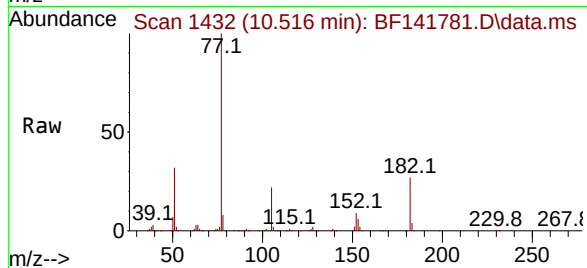
Tgt Ion:138 Resp: 114185
Ion Ratio Lower Upper
138 100
92 49.1 31.3 71.3
108 75.9 63.7 103.7





#63
Azobenzene
Concen: 38.729 ng
RT: 10.516 min Scan# 1434
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

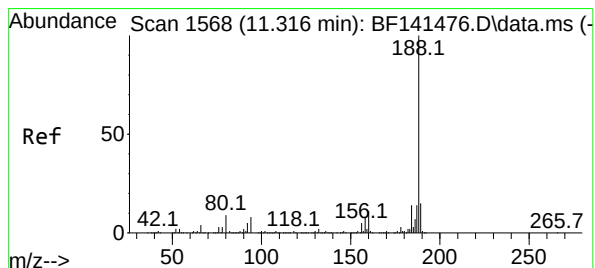
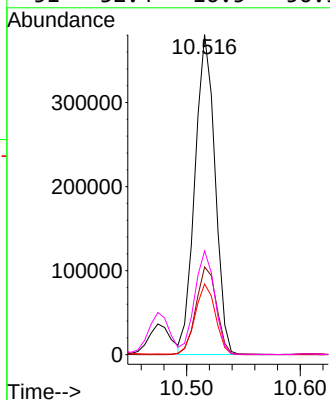
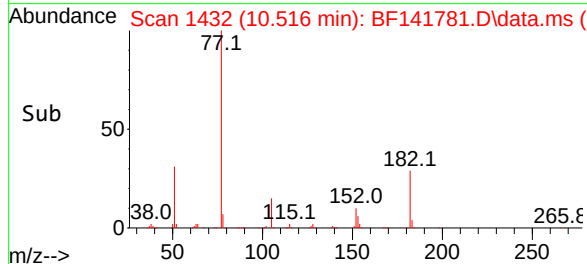
Instrument :
BNA_F
ClientSampleId :
PB166875BS



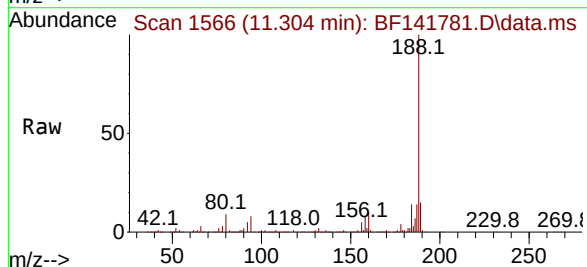
Tgt Ion: 77 Resp: 468720
Ion Ratio Lower Upper
77 100
182 27.4 4.7 44.7
105 22.1 0.4 40.4
51 32.4 16.5 56.5

Manual Integrations
APPROVED

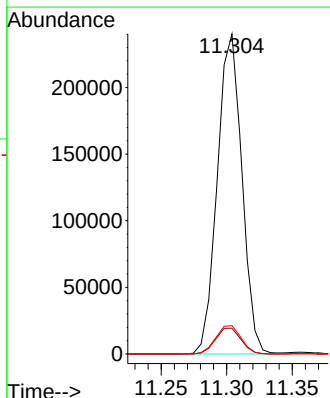
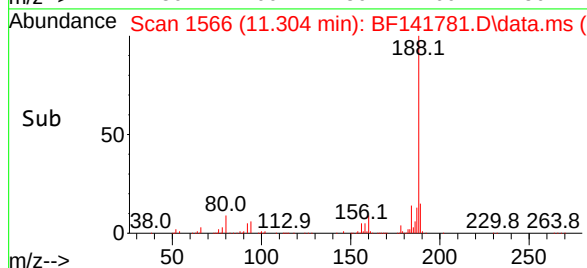
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

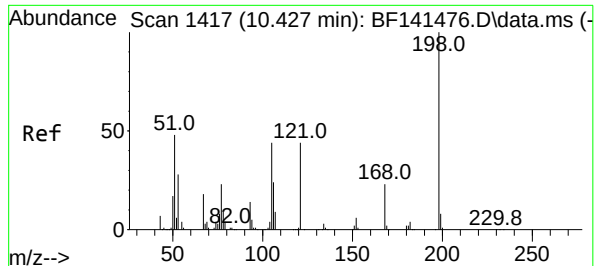


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24



Tgt Ion:188 Resp: 312748
Ion Ratio Lower Upper
188 100
94 8.0 6.6 10.0
80 8.9 7.3 10.9





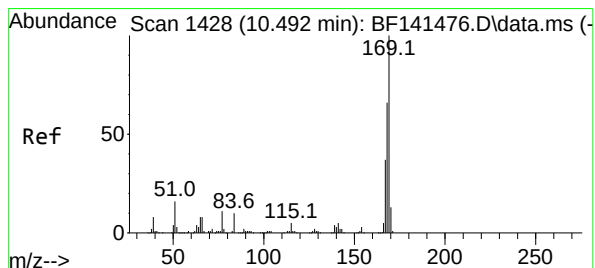
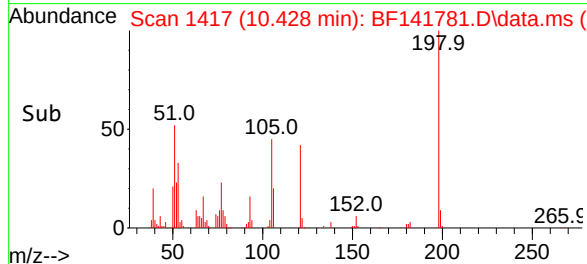
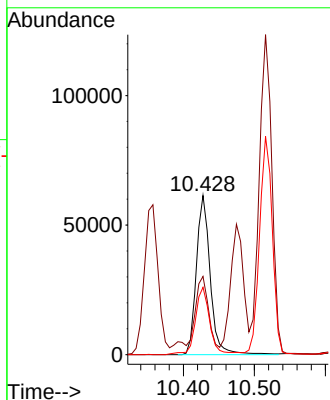
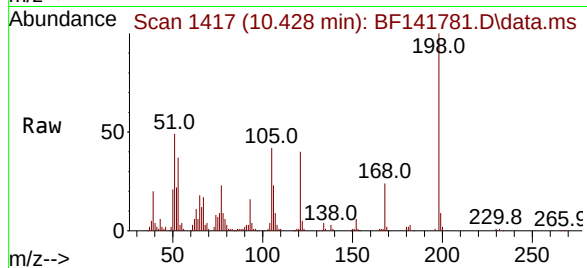
#65
4,6-Dinitro-2-methylphenol
Concen: 38.556 ng
RT: 10.428 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166875BS

Tgt Ion:198 Resp: 83764
Ion Ratio Lower Upper
198 100
51 49.1 37.4 77.4
105 42.3 25.2 65.2

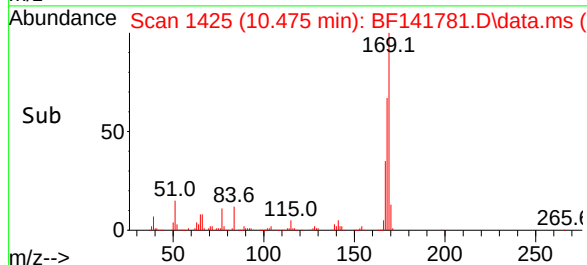
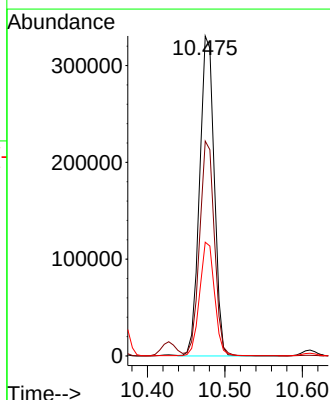
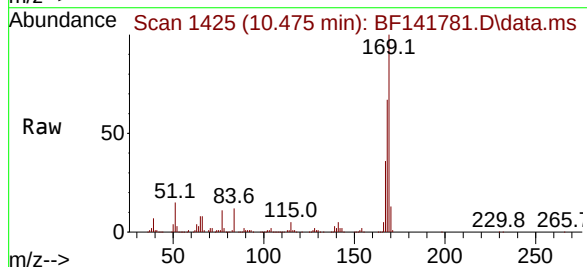
Manual Integrations
APPROVED

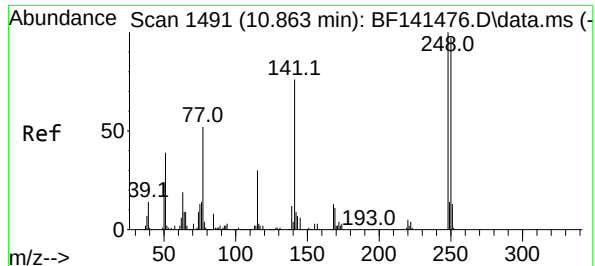
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#66
n-Nitrosodiphenylamine
Concen: 43.299 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

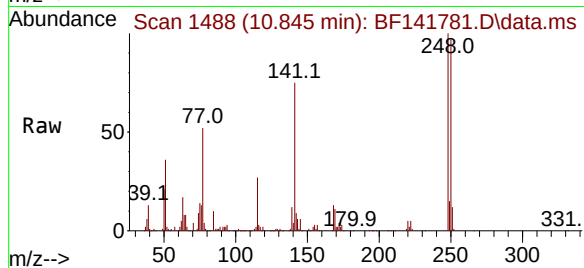
Tgt Ion:169 Resp: 433486
Ion Ratio Lower Upper
169 100
168 67.2 53.3 79.9
167 35.6 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 43.214 ng
RT: 10.845 min Scan# 1488
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

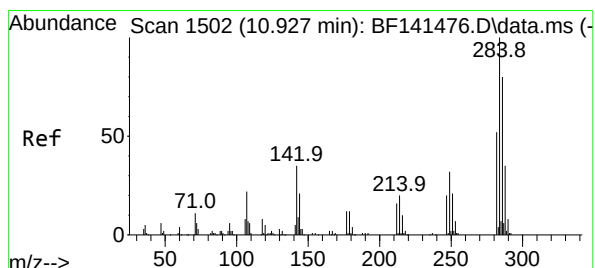
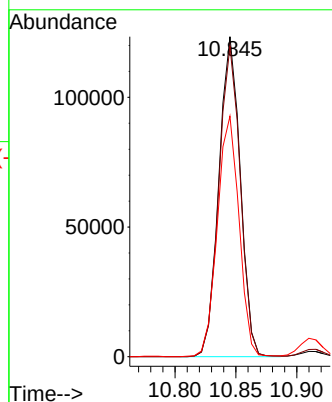
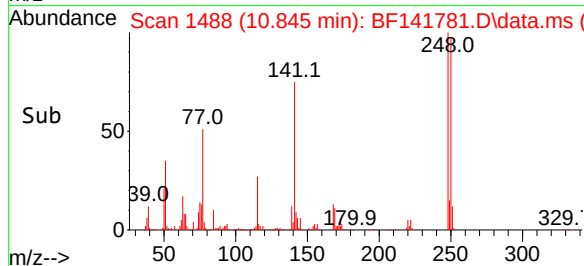
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:248 Resp: 151048
Ion Ratio Lower Upper
248 100
250 97.0 77.8 116.6
141 75.2 60.6 90.8

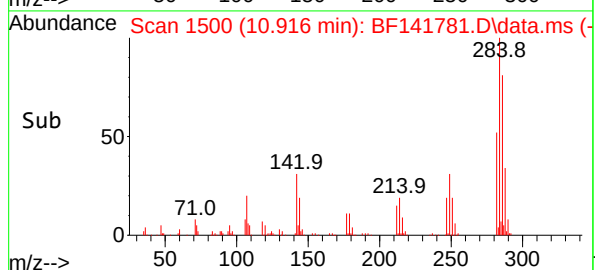
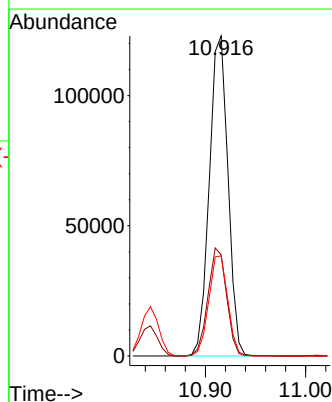
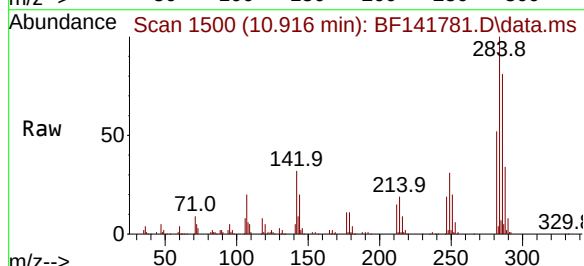
Manual Integrations
APPROVED

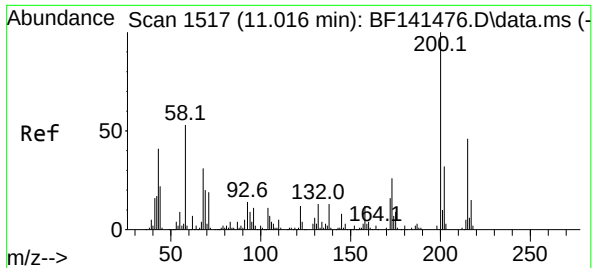
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#68
Hexachlorobenzene
Concen: 44.242 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:284 Resp: 159239
Ion Ratio Lower Upper
284 100
142 31.6 28.0 42.0
249 31.3 25.8 38.8





#69

Atrazine

Concen: 55.593 ng

RT: 11.010 min Scan# 1517

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:200 Resp: 16696

Ion Ratio Lower Upper

200 100

173 25.0 5.9 45.9

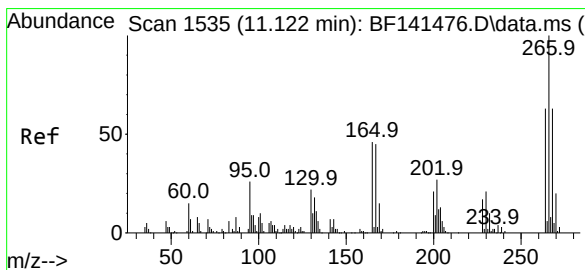
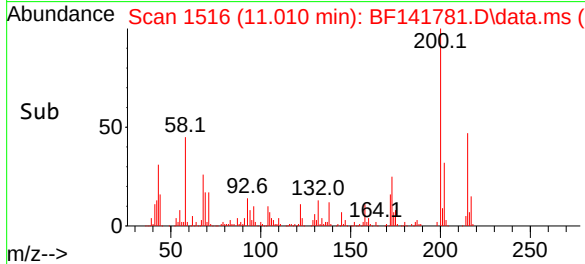
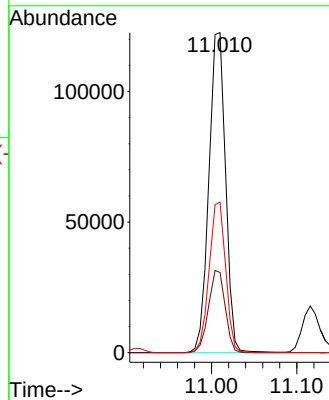
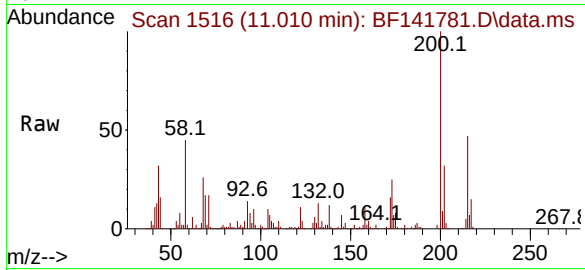
215 47.0 25.9 65.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#70

Pentachlorophenol

Concen: 67.245 ng

RT: 11.116 min Scan# 1534

Delta R.T. -0.012 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

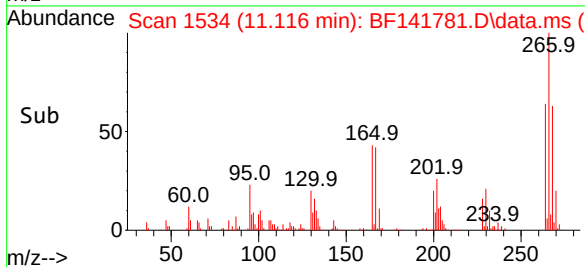
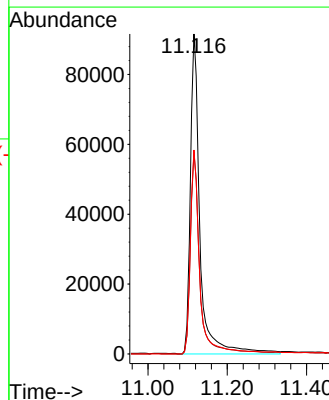
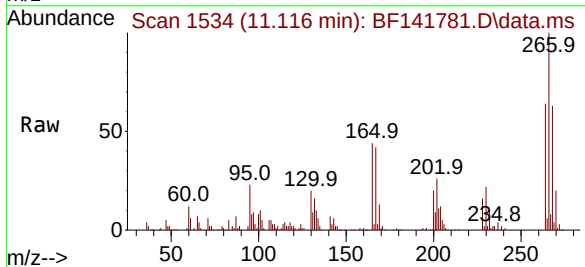
Tgt Ion:266 Resp: 154762

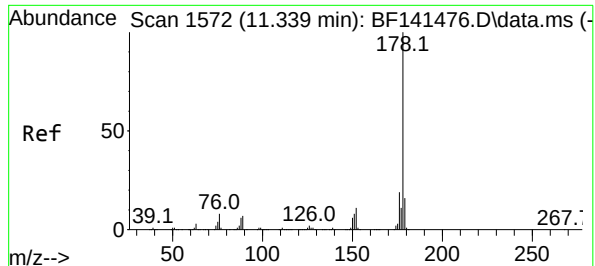
Ion Ratio Lower Upper

266 100

268 63.0 50.1 75.1

264 63.7 50.1 75.1





#71

Phenanthrene

Concen: 42.437 ng

RT: 11.327 min Scan# 1572

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:178 Resp: 730560

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

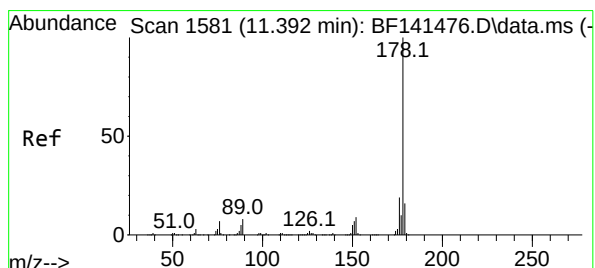
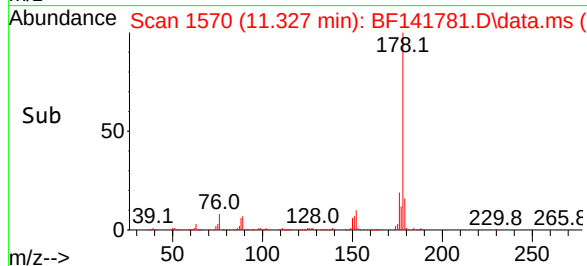
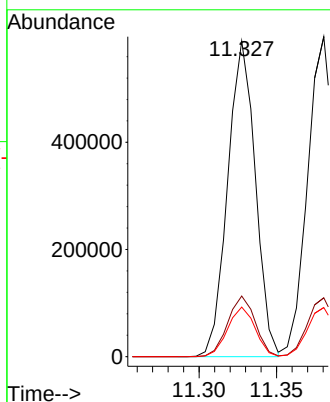
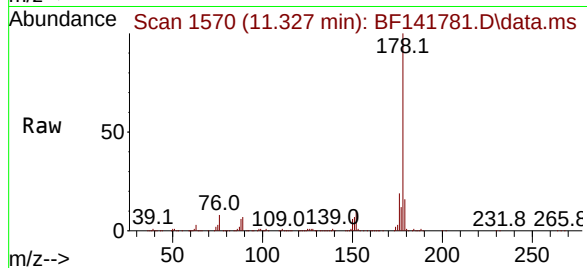
179 15.7 12.4 18.6

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#72

Anthracene

Concen: 43.887 ng

RT: 11.380 min Scan# 1579

Delta R.T. -0.018 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

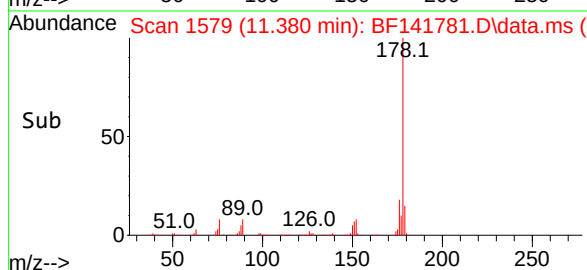
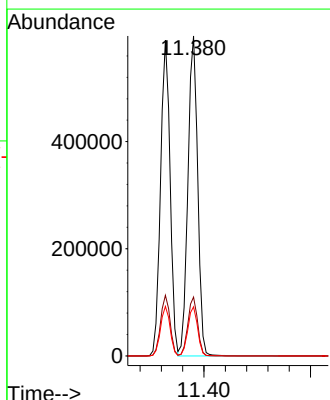
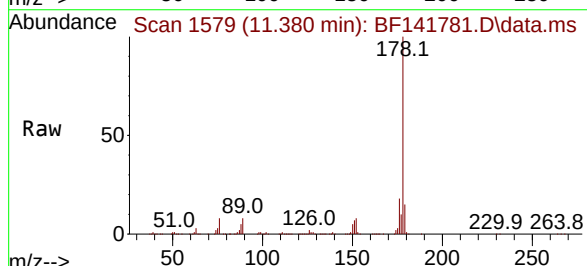
Tgt Ion:178 Resp: 759498

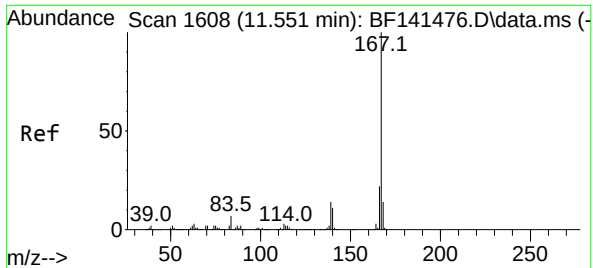
Ion Ratio Lower Upper

178 100

176 18.4 14.8 22.2

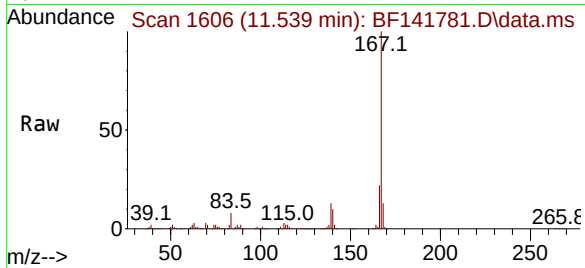
179 15.4 12.4 18.6





#73
Carbazole
Concen: 41.505 ng
RT: 11.539 min Scan# 1606
Delta R.T. -0.012 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

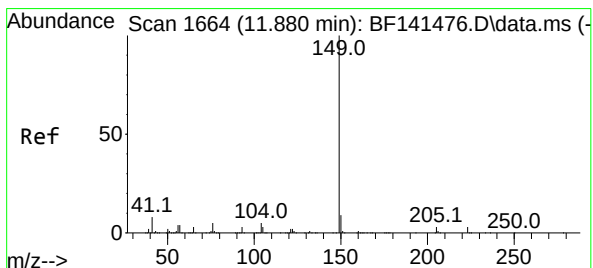
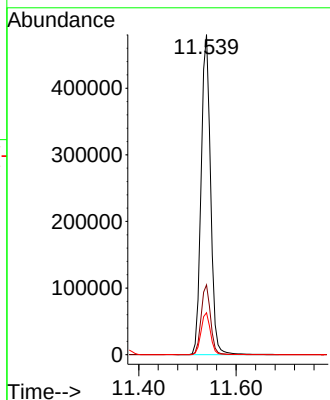
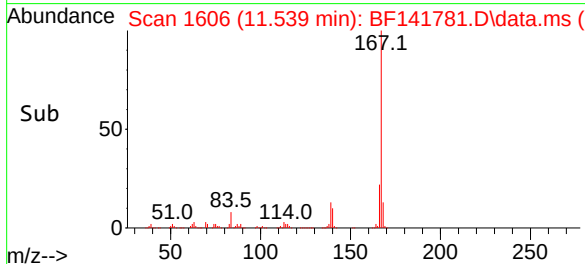
Instrument :
BNA_F
ClientSampleId :
PB166875BS



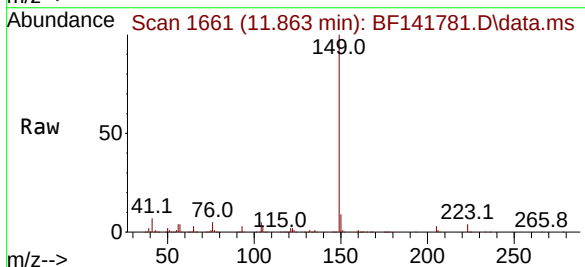
Tgt Ion:167 Resp: 646297
Ion Ratio Lower Upper
167 100
166 21.8 17.4 26.2
139 13.1 10.9 16.3

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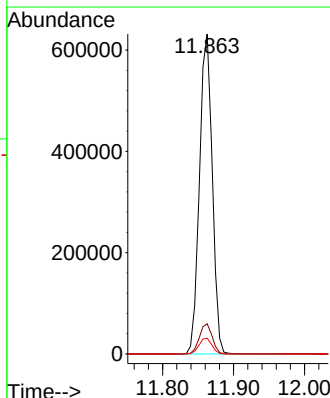
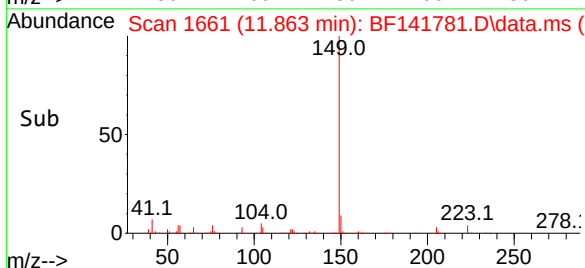
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

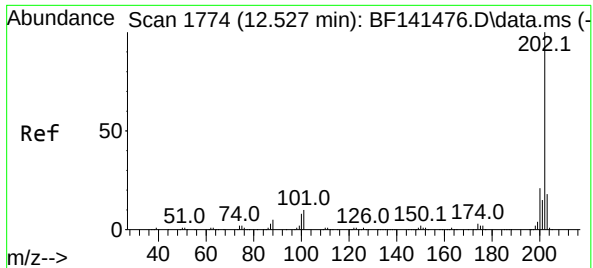


#74
Di-n-butylphthalate
Concen: 44.122 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24



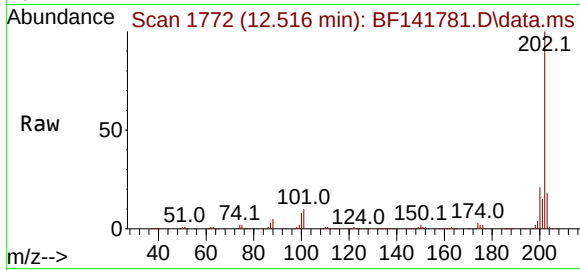
Tgt Ion:149 Resp: 793310
Ion Ratio Lower Upper
149 100
150 9.4 7.4 11.0
104 4.9 4.2 6.2





#75
Fluoranthene
Concen: 41.225 ng
RT: 12.516 min Scan# 1774
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

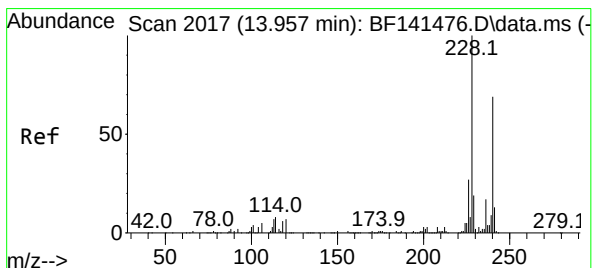
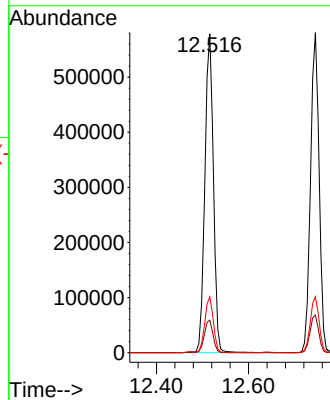
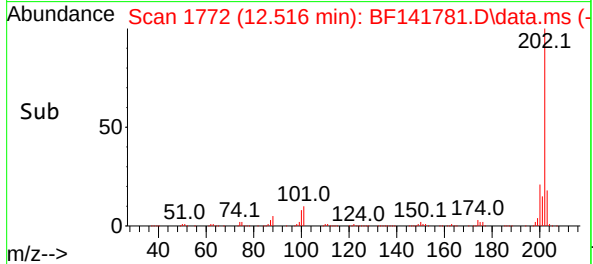
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:202 Resp: 752428
Ion Ratio Lower Upper
202 100
101 10.2 0.0 30.2
203 17.5 0.0 37.6

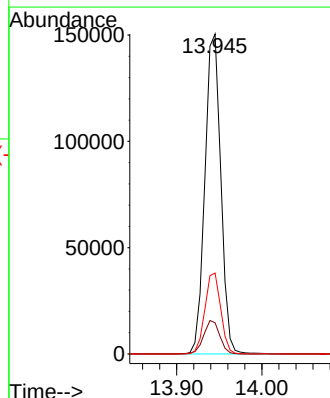
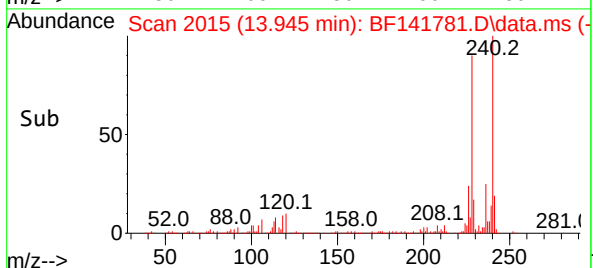
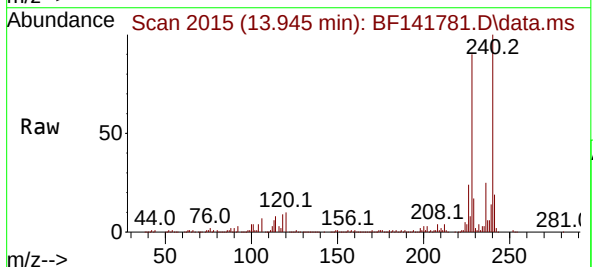
Manual Integrations
APPROVED

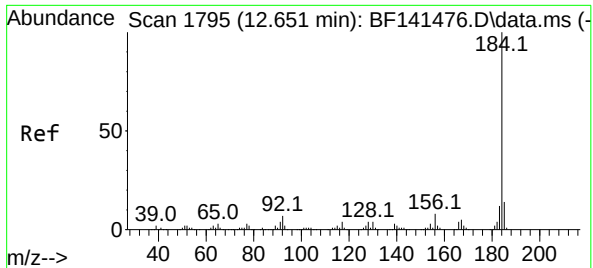
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

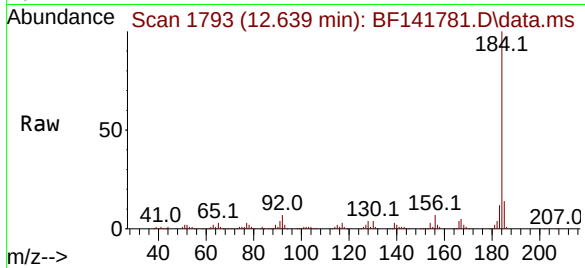
Tgt Ion:240 Resp: 195301
Ion Ratio Lower Upper
240 100
120 9.8 8.0 12.0
236 25.3 19.8 29.8





#77
Benzidine
Concen: 48.330 ng
RT: 12.639 min Scan# 1793
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

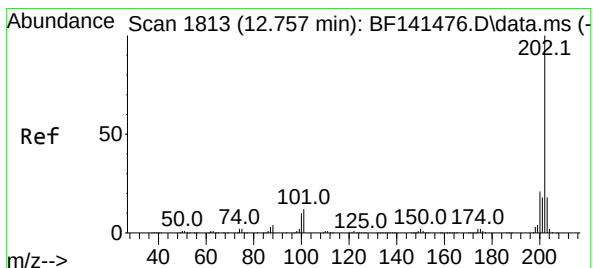
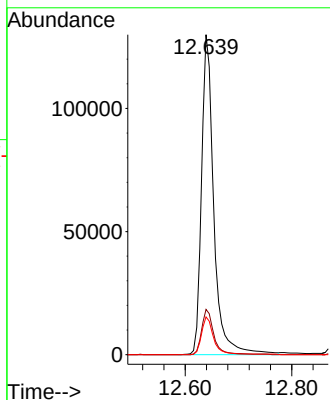
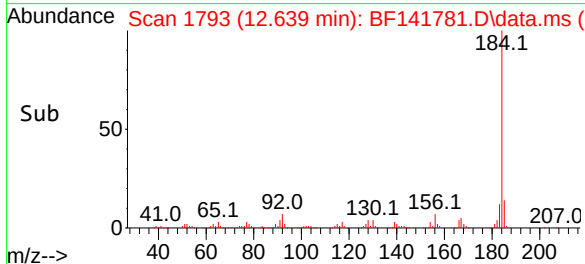
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:184 Resp: 20816
Ion Ratio Lower Upper
184 100
185 14.1 11.3 16.9
183 11.8 9.3 13.9

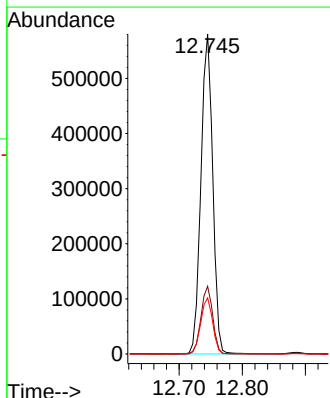
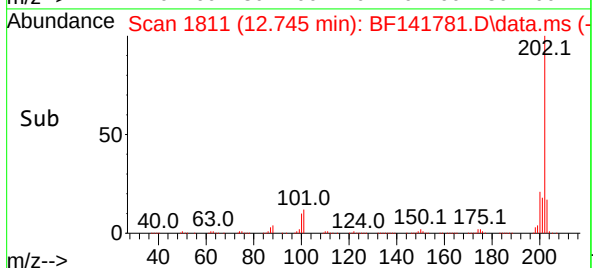
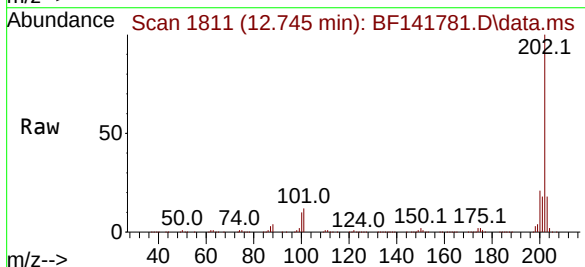
Manual Integrations
APPROVED

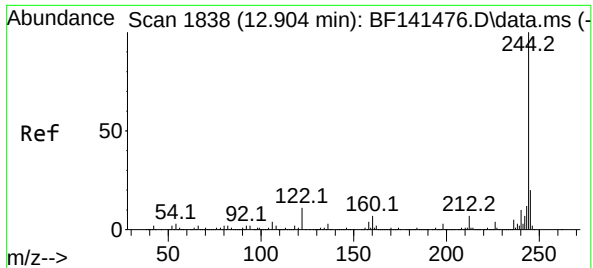
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#78
Pyrene
Concen: 45.106 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

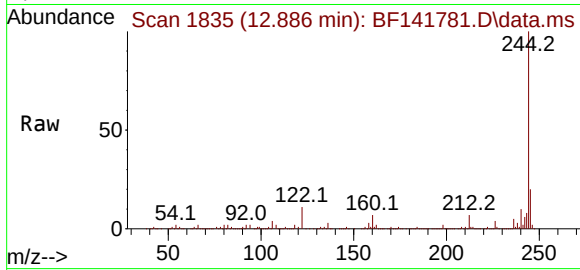
Tgt Ion:202 Resp: 749905
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.5 14.3 21.5





#79
Terphenyl-d14
Concen: 102.210 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

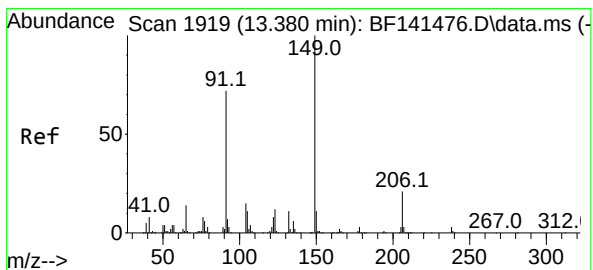
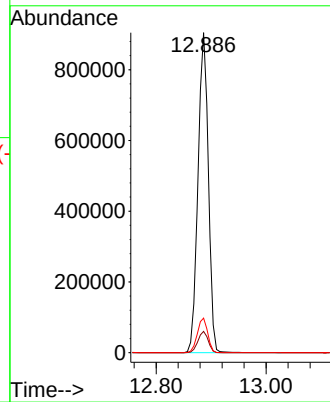
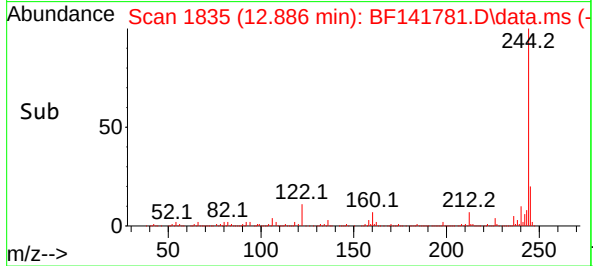
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:244 Resp: 118244
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 10.8 8.4 12.6

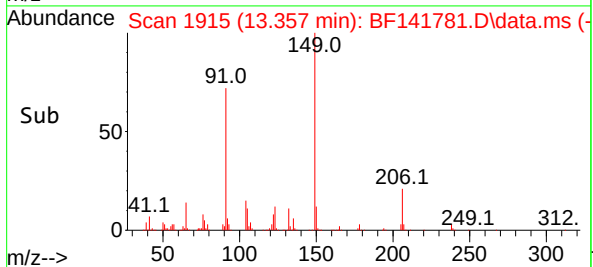
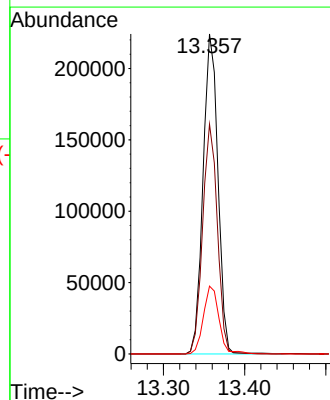
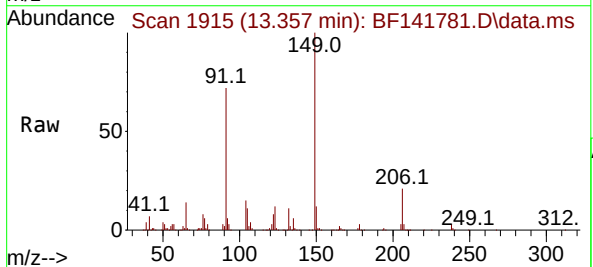
Manual Integrations
APPROVED

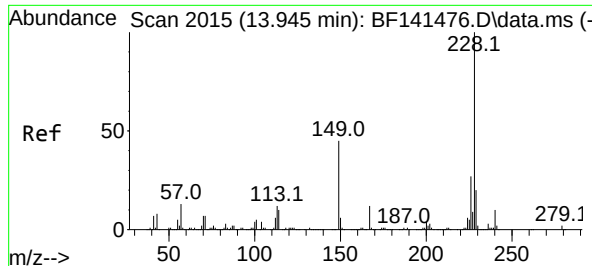
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#80
Butylbenzylphthalate
Concen: 49.557 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

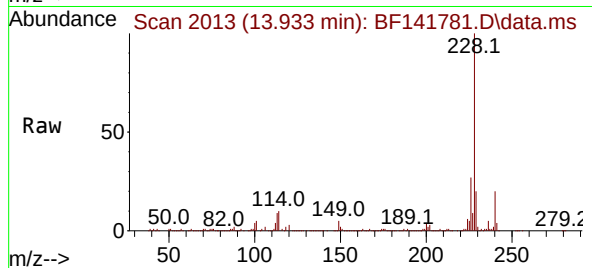
Tgt Ion:149 Resp: 285374
Ion Ratio Lower Upper
149 100
91 71.8 57.8 86.8
206 21.2 16.7 25.1





#81
Benzo(a)anthracene
Concen: 44.187 ng
RT: 13.933 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

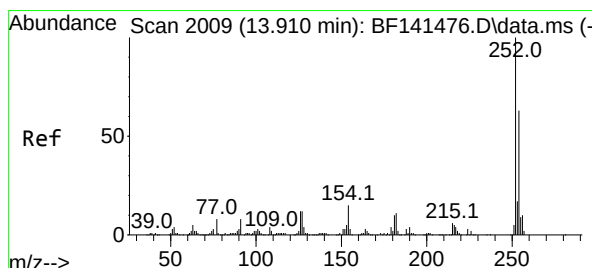
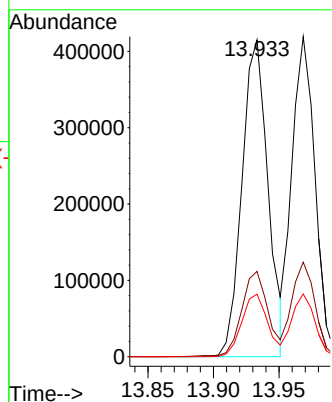
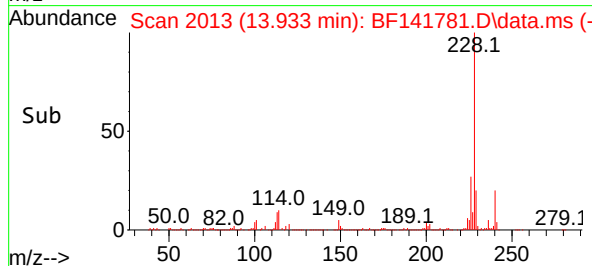
Instrument :
BNA_F
ClientSampleId :
PB166875BS



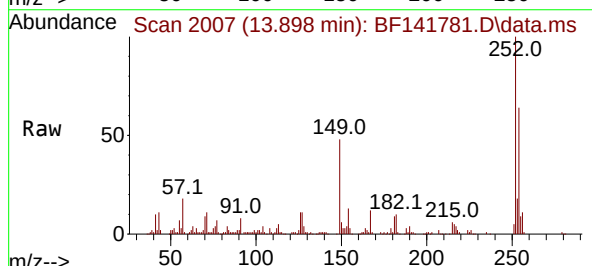
Tgt Ion:228 Resp: 573650
Ion Ratio Lower Upper
228 100
226 26.9 21.8 32.8
229 19.8 15.8 23.6

Manual Integrations
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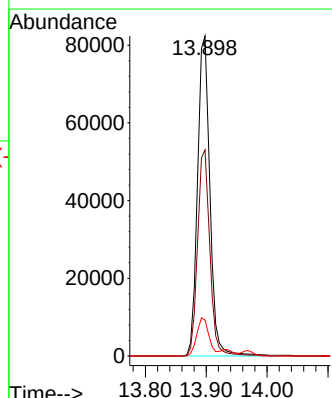
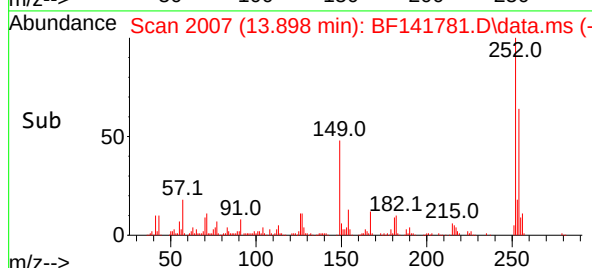
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

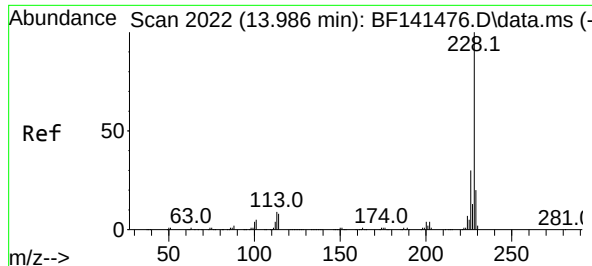


#82
3,3'-Dichlorobenzidine
Concen: 31.359 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24



Tgt Ion:252 Resp: 116620
Ion Ratio Lower Upper
252 100
254 64.4 50.6 76.0
126 11.2 9.3 13.9





#83

Chrysene

Concen: 42.944 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.023 min

Lab File: BF141781.D

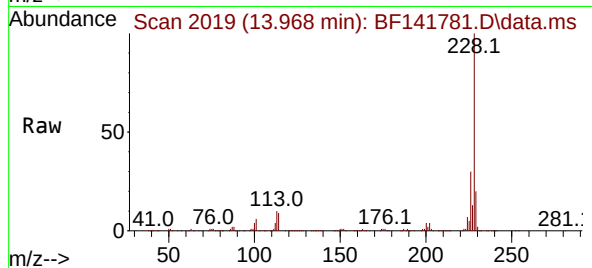
Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS



Tgt Ion:228 Resp: 51477

Ion Ratio Lower Upper

228 100

226 29.5 24.0 36.0

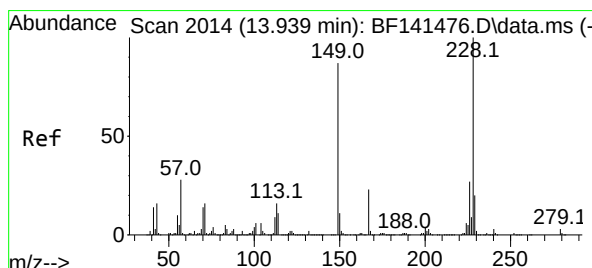
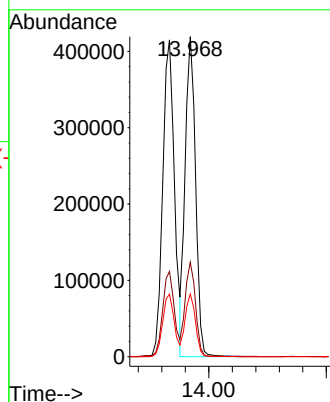
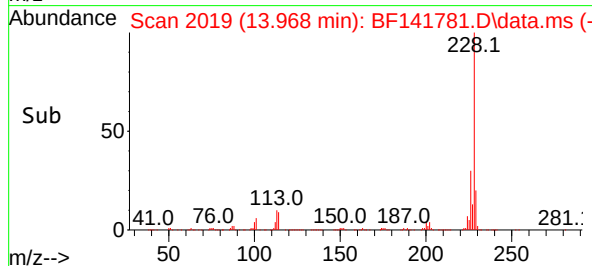
229 19.6 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 56.515 ng

RT: 13.916 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

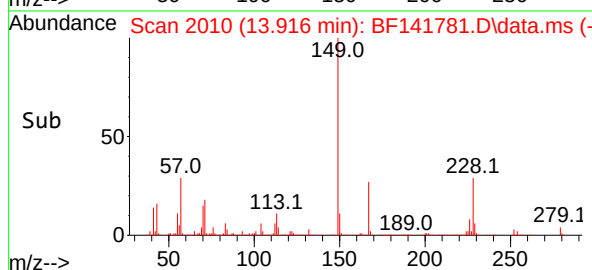
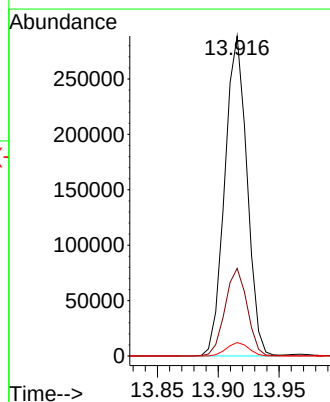
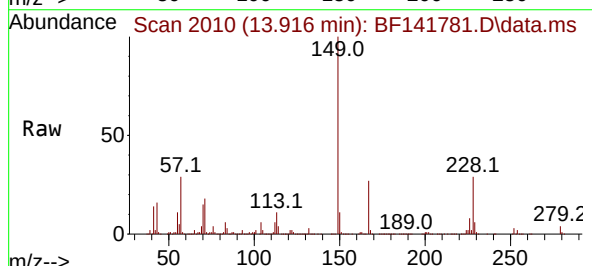
Tgt Ion:149 Resp: 367049

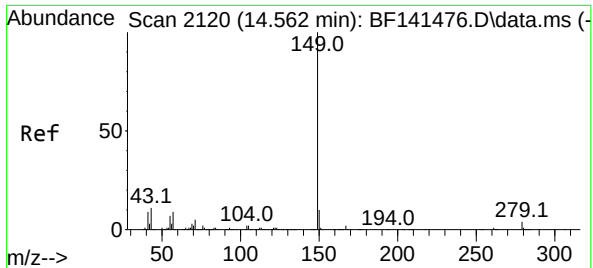
Ion Ratio Lower Upper

149 100

167 27.4 21.4 32.0

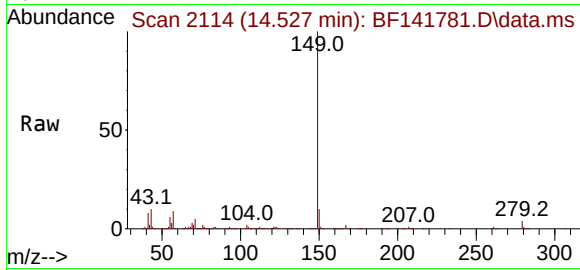
279 4.2 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 57.595 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

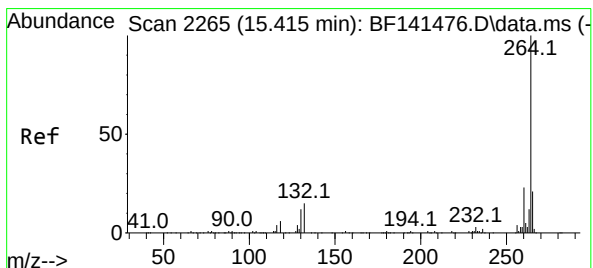
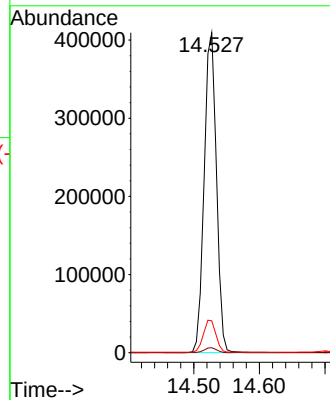
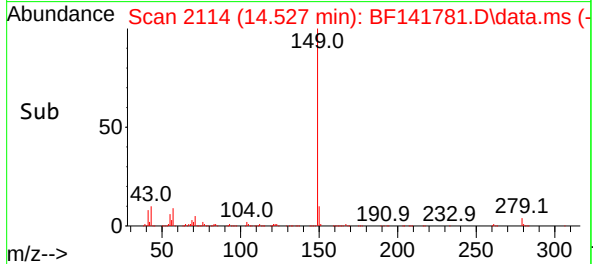
Instrument :
BNA_F
ClientSampleId :
PB166875BS



Tgt Ion:149 Resp: 533634
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 10.2 9.5 14.3

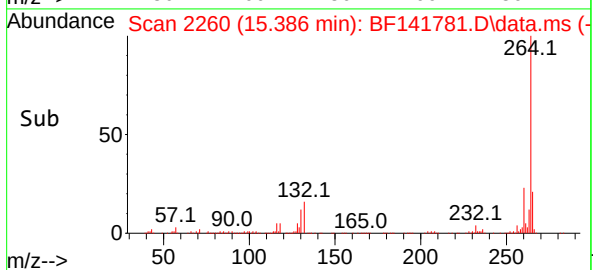
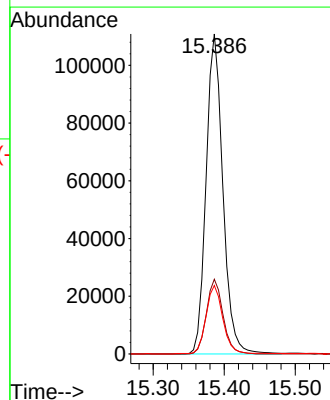
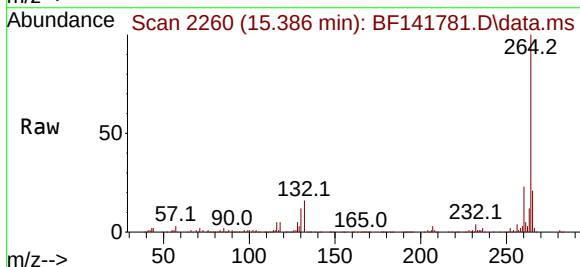
Manual Integrations
APPROVED

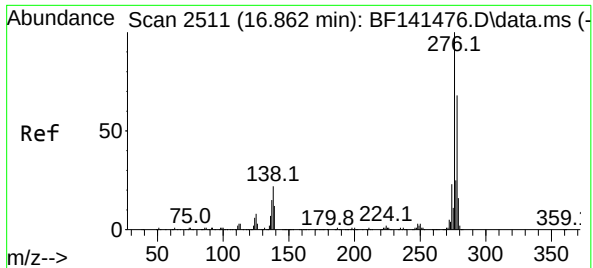
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141781.D
Acq: 26 Feb 2025 14:24

Tgt Ion:264 Resp: 182516
Ion Ratio Lower Upper
264 100
260 23.3 18.6 28.0
265 21.4 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 46.682 ng

RT: 16.827 min Scan# 2189

Delta R.T. -0.047 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:276 Resp: 526450

Ion Ratio Lower Upper

276 100

138 23.3 18.0 27.0

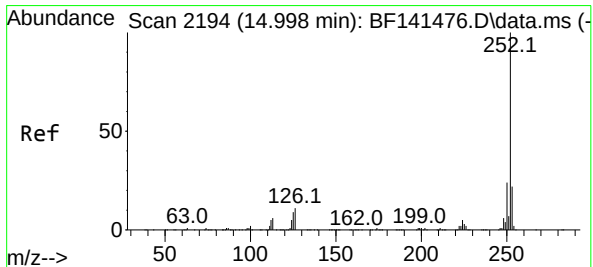
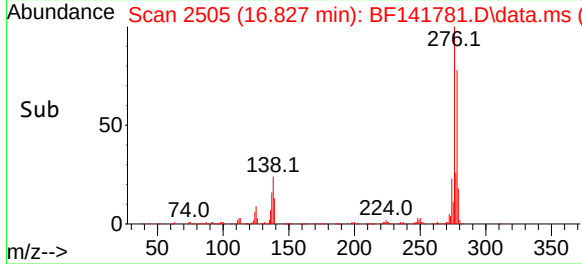
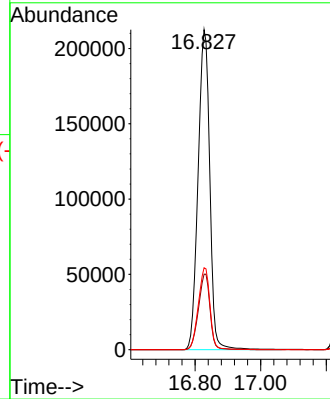
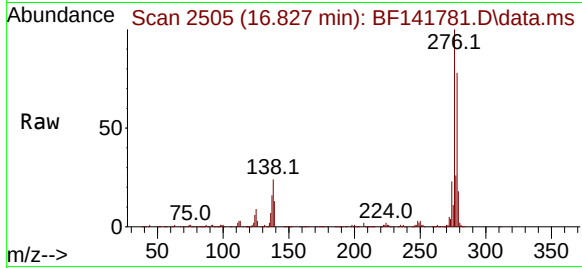
277 25.4 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#88

Benzo(b)fluoranthene

Concen: 37.542 ng

RT: 14.968 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

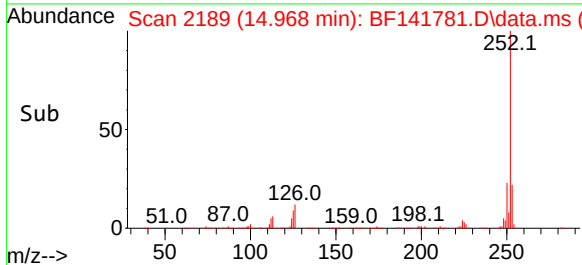
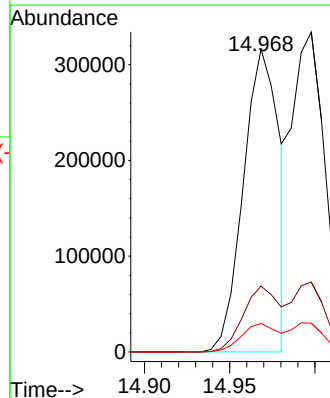
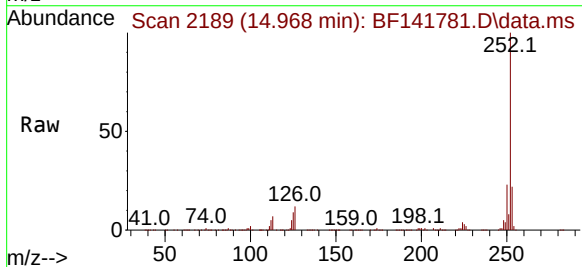
Tgt Ion:252 Resp: 460075

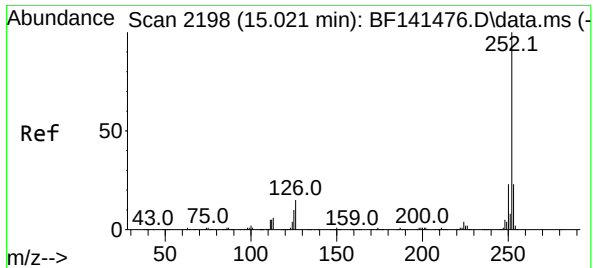
Ion Ratio Lower Upper

252 100

253 21.7 17.5 26.3

125 9.4 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 43.793 ng

RT: 14.998 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:252 Resp: 45828

Ion Ratio Lower Upper

252 100

253 21.8 18.0 27.0

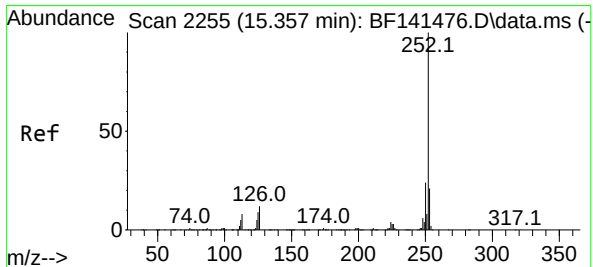
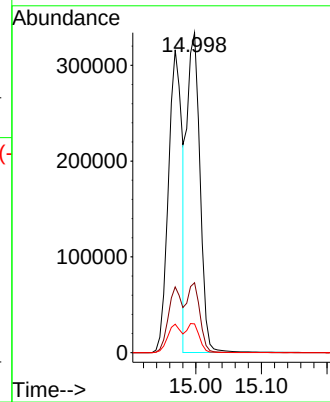
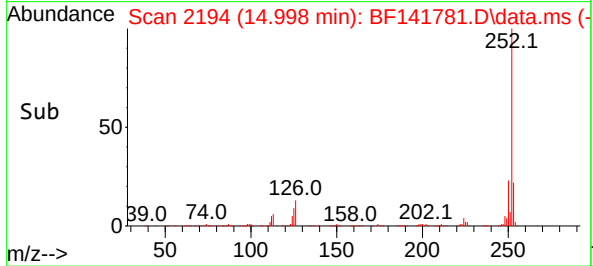
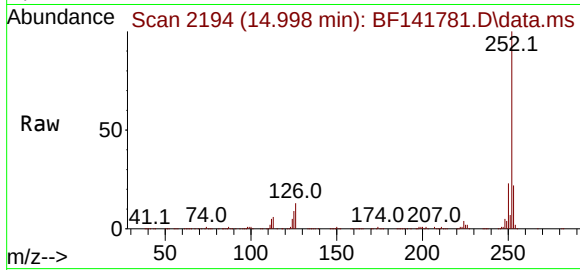
125 9.0 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#90

Benzo(a)pyrene

Concen: 44.313 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

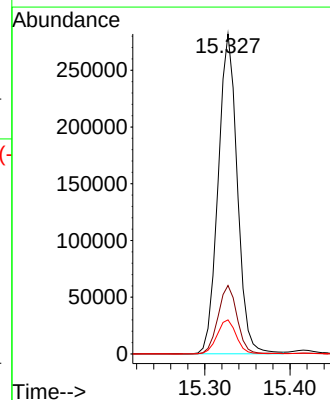
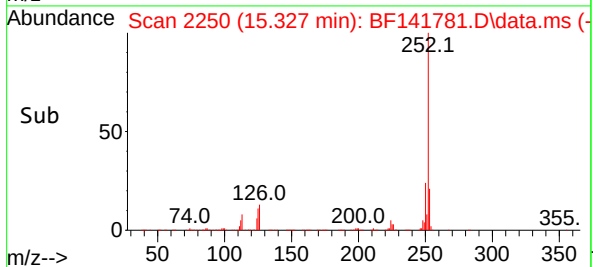
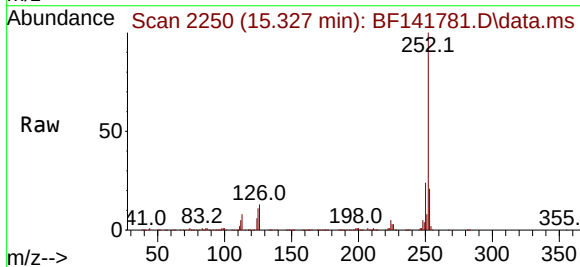
Tgt Ion:252 Resp: 439422

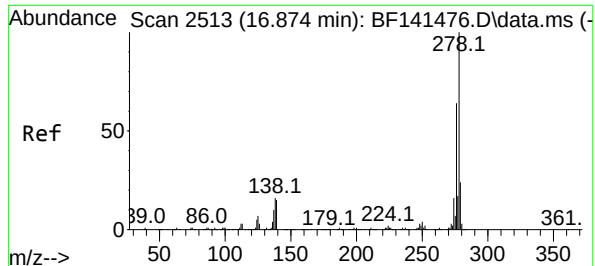
Ion Ratio Lower Upper

252 100

253 21.4 17.1 25.7

125 10.7 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 46.704 ng

RT: 16.839 min Scan# 2507

Delta R.T. -0.053 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166875BS

Tgt Ion:278 Resp: 426778

Ion Ratio Lower Upper

278 100

139 14.8 11.8 17.6

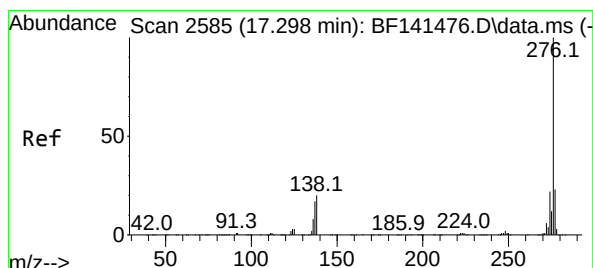
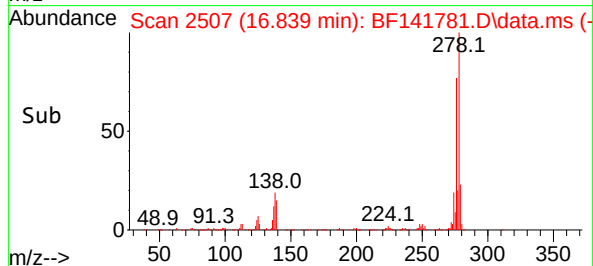
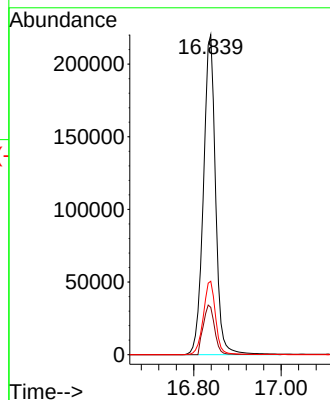
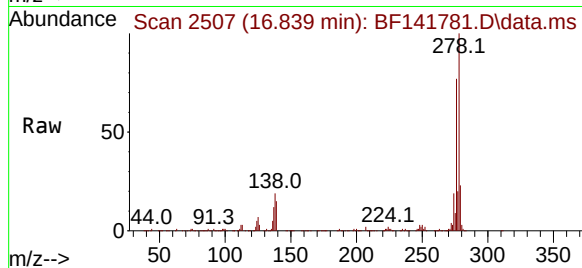
279 23.0 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#92

Benzo(g,h,i)perylene

Concen: 42.294 ng

RT: 17.256 min Scan# 2578

Delta R.T. -0.059 min

Lab File: BF141781.D

Acq: 26 Feb 2025 14:24

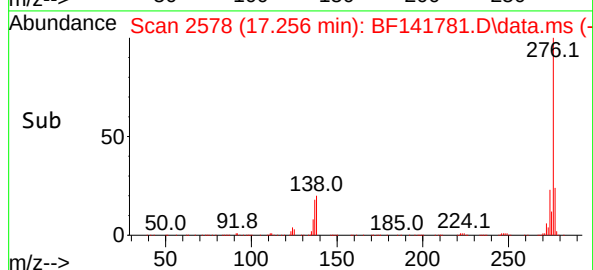
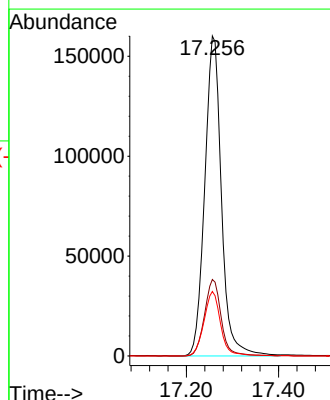
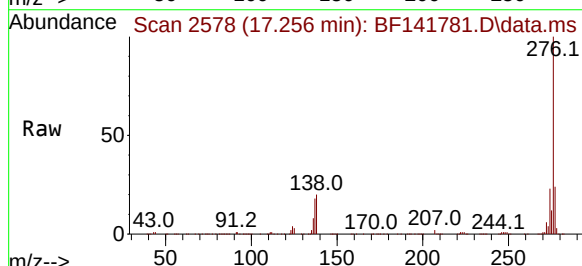
Tgt Ion:276 Resp: 404443

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 20.2 15.9 23.9



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	27.2		4.00	10.0	ug/L
108-95-2	Phenol	42.1		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.7		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	43.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	42.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	37.7		1.40	5.00	ug/L
98-86-2	Acetophenone	46.7		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	45.2		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	41.7		1.50	2.50	ug/L
67-72-1	Hexachloroethane	43.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	40.9		1.30	5.00	ug/L
78-59-1	Isophorone	45.0		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	44.3		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.4		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.1		0.88	5.00	ug/L
91-20-3	Naphthalene	42.4		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.9		1.30	5.00	ug/L
105-60-2	Caprolactam	49.7		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.3		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	42.4		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	42.1		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.6		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	40.5		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	44.6		0.93	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	45.1		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	44.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	25.4		1.40	5.00	ug/L
83-32-9	Acenaphthene	41.9		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	79.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	70.6		2.00	10.0	ug/L
132-64-9	Dibenzofuran	41.4		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	44.8		1.50	5.00	ug/L
84-66-2	Diethylphthalate	43.8		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.4		0.98	5.00	ug/L
86-73-7	Fluorene	43.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	40.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	41.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.1		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	45.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.7		1.10	5.00	ug/L
1912-24-9	Atrazine	58.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	70.3		1.90	10.0	ug/L
85-01-8	Phenanthrene	44.7		0.89	5.00	ug/L
120-12-7	Anthracene	45.3		1.10	5.00	ug/L
86-74-8	Carbazole	43.3		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	47.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	42.8		1.30	5.00	ug/L
129-00-0	Pyrene	46.1		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	51.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	32.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.1		0.94	5.00	ug/L
218-01-9	Chrysene	44.4		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	58.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	59.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.9		1.10	5.00	ug/L

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB166875BSD	SDG No.:	Q1415
Lab Sample ID:	PB166875BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141782.D	1	02/26/25 08:45	02/26/25 14:54	PB166875

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	40.8		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	44.2		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	41.9		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	41.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		15 (10) - 110 (139)	88%	SPK: 150
13127-88-3	Phenol-d6	127		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		30 (49) - 130 (133)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.7		30 (52) - 130 (132)	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	106		30 (48) - 130 (125)	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81000	6.781			
1146-65-2	Naphthalene-d8	322000	8.063			
15067-26-2	Acenaphthene-d10	180000	9.816			
1517-22-2	Phenanthrene-d10	311000	11.304			
1719-03-5	Chrysene-d12	198000	13.945			
1520-96-3	Perylene-d12	176000	15.386			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141782.D
 Acq On : 26 Feb 2025 14:54
 Operator : RC/JU
 Sample : PB166875BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166875BSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 15:16:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	81030	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	321539	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	179613	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	311091	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	197944	20.000	ng	-0.02
86) Perylene-d12	15.386	264	175575	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	681239	131.804	ng	0.00
7) Phenol-d6	6.428	99	828000	126.748	ng	-0.01
23) Nitrobenzene-d5	7.345	82	538517	87.355	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	249647	138.363	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	1069121	91.705	ng	-0.01
79) Terphenyl-d14	12.886	244	1238225	105.602	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.569	88	87106	41.873	ng	94
3) Pyridine	3.304	79	203502	41.110	ng	91
4) n-Nitrosodimethylamine	3.251	42	116448	35.527	ng	87
6) Aniline	6.445	93	205168	33.481	ng	# 73
8) 2-Chlorophenol	6.575	128	245340	43.930	ng	97
9) Benzaldehyde	6.334	77	94366	27.183	ng	96
10) Phenol	6.445	94	286272	42.104	ng	96
11) bis(2-Chloroethyl)ether	6.516	93	223389	43.742	ng	97
12) 1,3-Dichlorobenzene	6.722	146	256355	43.479	ng	97
13) 1,4-Dichlorobenzene	6.798	146	260485	43.241	ng	98
14) 1,2-Dichlorobenzene	6.951	146	250486	44.801	ng	98
15) Benzyl Alcohol	6.934	79	207695	41.460	ng	95
16) 2,2'-oxybis(1-Chloropr...	7.057	45	329491	37.690	ng	59
17) 2-Methylphenol	7.051	107	187380	42.874	ng	94
18) Hexachloroethane	7.286	117	96870	43.451	ng	99
19) n-Nitroso-di-n-propyla...	7.198	70	163097	41.739	ng	93
20) 3+4-Methylphenols	7.204	107	250904	45.173	ng	# 75
22) Acetophenone	7.192	105	373423	46.687	ng	# 90
24) Nitrobenzene	7.369	77	245989	40.921	ng	96
25) Isophorone	7.604	82	442707	45.039	ng	97
26) 2-Nitrophenol	7.681	139	132377	44.262	ng	93
27) 2,4-Dimethylphenol	7.728	122	194997	55.812	ng	98
28) bis(2-Chloroethoxy)met...	7.816	93	279563	44.386	ng	100
29) 2,4-Dichlorophenol	7.933	162	208275	44.120	ng	99
30) 1,2,4-Trichlorobenzene	8.004	180	221560	43.099	ng	99
31) Naphthalene	8.086	128	710062	42.424	ng	99
32) Benzoic acid	7.875	122	135530	37.346	ng	96
33) 4-Chloroaniline	8.139	127	107042	18.318	ng	97
34) Hexachlorobutadiene	8.198	225	135525	43.914	ng	99
35) Caprolactam	8.516	113	71401m	49.677	ng	
36) 4-Chloro-3-methylphenol	8.633	107	220323	42.134	ng	97
37) 2-Methylnaphthalene	8.775	142	449799	41.298	ng	100
38) 1-Methylnaphthalene	8.875	142	442108	41.911	ng	99
40) 1,2,4,5-Tetrachloroben...	8.945	216	245522	47.248	ng	98
41) Hexachlorocyclopentadiene	8.928	237	212260	122.809	ng	99
43) 2,4,6-Trichlorophenol	9.063	196	142519	42.435	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\
 Data File : BF141782.D
 Acq On : 26 Feb 2025 14:54
 Operator : RC/JU
 Sample : PB166875BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166875BSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 15:16:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	153378	42.139	ng	97
46) 1,1'-Biphenyl	9.239	154	666430	47.858	ng	99
47) 2-Chloronaphthalene	9.263	162	448737	43.579	ng	99
48) 2-Nitroaniline	9.369	65	140021	40.518	ng	91
49) Acenaphthylene	9.680	152	691055	45.120	ng	100
50) Dimethylphthalate	9.539	163	543747	44.593	ng	100
51) 2,6-Dinitrotoluene	9.610	165	117944	44.247	ng	94
52) Acenaphthene	9.851	154	431112	41.869	ng	100
53) 3-Nitroaniline	9.780	138	72808	25.378	ng	96
54) 2,4-Dinitrophenol	9.898	184	125185	79.020	ng	87
55) Dibenzofuran	10.022	168	626147	41.429	ng	99
56) 4-Nitrophenol	9.963	139	150379	70.610	ng	92
57) 2,4-Dinitrotoluene	10.016	165	159077	44.829	ng	98
58) Fluorene	10.369	166	506938	43.380	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	129421	41.300	ng	96
60) Diethylphthalate	10.239	149	525621	43.813	ng	100
61) 4-Chlorophenyl-phenyle...	10.357	204	249862	44.444	ng	96
62) 4-Nitroaniline	10.398	138	118787	40.776	ng	95
63) Azobenzene	10.516	77	491005	41.169	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	89627	41.475	ng	91
66) n-Nitrosodiphenylamine	10.480	169	448690	45.057	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	157706	45.359	ng	99
68) Hexachlorobenzene	10.916	284	167133	46.682	ng	96
69) Atrazine	11.010	200	175426	58.720	ng	98
70) Pentachlorophenol	11.116	266	160978	70.319	ng	99
71) Phenanthrene	11.327	178	764907	44.668	ng	100
72) Anthracene	11.380	178	780326	45.331	ng	100
73) Carbazole	11.539	167	670650	43.299	ng	99
74) Di-n-butylphthalate	11.863	149	840484	46.995	ng	99
75) Fluoranthene	12.516	202	776404	42.765	ng	99
77) Benzidine	12.639	184	223888	51.285	ng	99
78) Pyrene	12.745	202	776713	46.095	ng	100
80) Butylbenzylphthalate	13.357	149	300758	51.531	ng	99
81) Benzo(a)anthracene	13.933	228	593077	45.073	ng	99
82) 3,3'-Dichlorobenzidine	13.898	252	123538	32.776	ng	98
83) Chrysene	13.968	228	539566	44.411	ng	99
84) Bis(2-ethylhexyl)phtha...	13.915	149	386733	58.750	ng	99
85) Di-n-octyl phthalate	14.527	149	559396	59.569	ng	96
87) Indeno(1,2,3-cd)pyrene	16.833	276	532126	49.050	ng	99
88) Benzo(b)fluoranthene	14.968	252	529780	44.938	ng	99
89) Benzo(k)fluoranthene	14.998	252	410854	40.813	ng	98
90) Benzo(a)pyrene	15.327	252	451285	47.308	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	433447	49.309	ng	99
92) Benzo(g,h,i)perylene	17.262	276	406962	44.240	ng	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

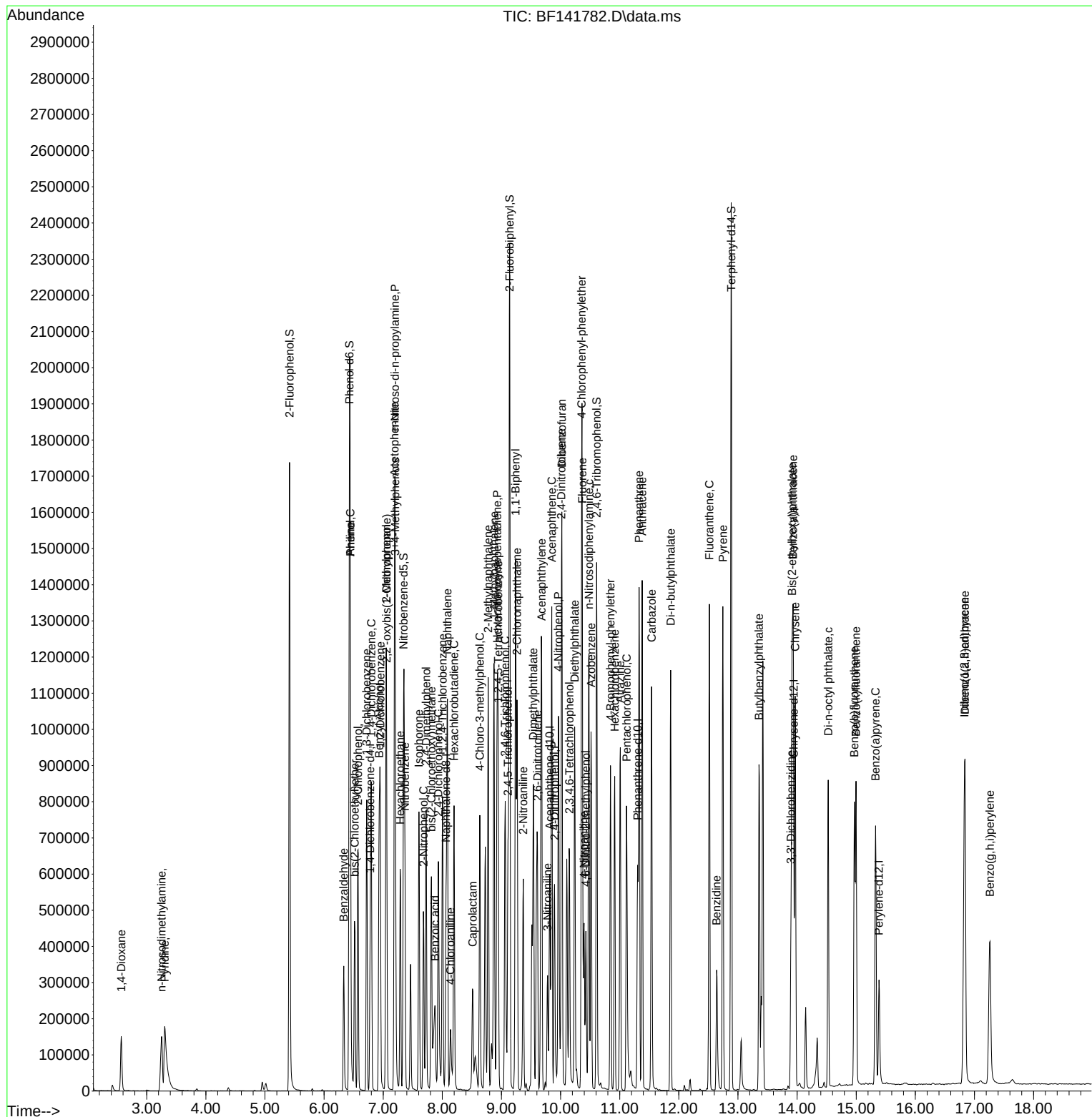
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Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022625\  
Data File : BF141782.D  
Acq On    : 26 Feb 2025  14:54  
Operator  : RC/JU  
Sample    : PB166875BSD  
Misc      :  
ALS Vial  : 9    Sample Multiplier: 1
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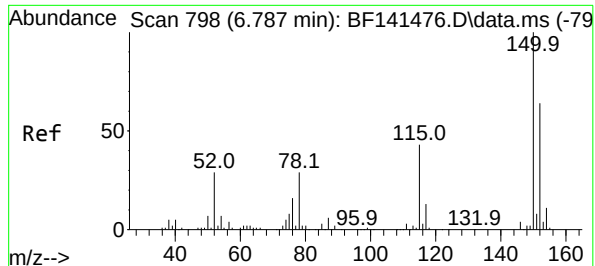
Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

Quant Time: Feb 26 15:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration





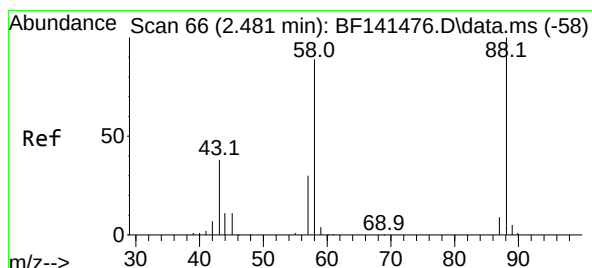
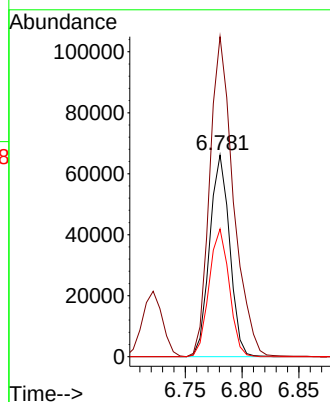
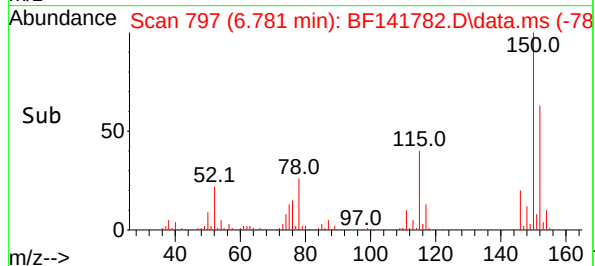
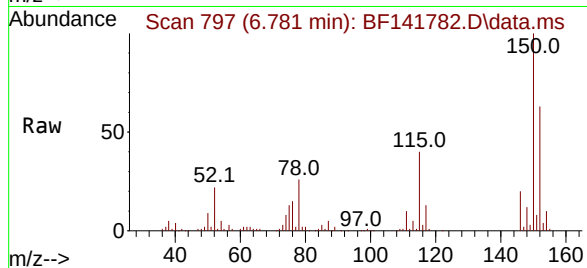
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Tgt Ion:152 Resp: 81030
Ion Ratio Lower Upper
152 100
150 158.7 125.0 187.4
115 63.3 53.6 80.4

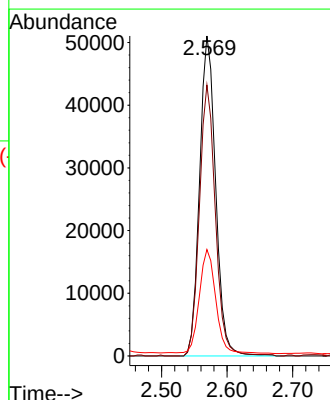
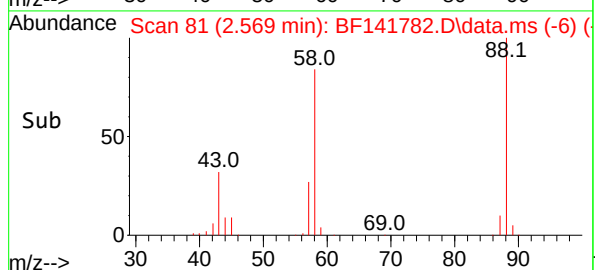
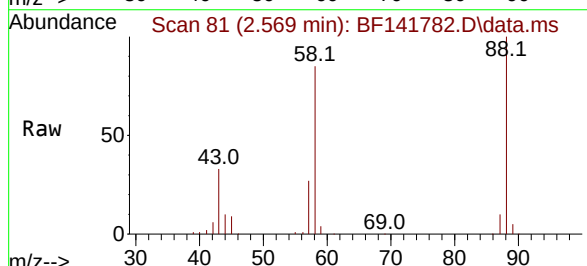
Manual Integrations
APPROVED

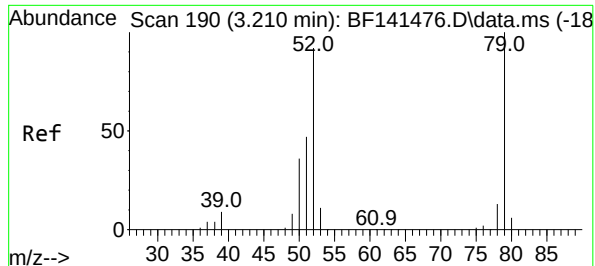
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#2
1,4-Dioxane
Concen: 41.873 ng
RT: 2.569 min Scan# 81
Delta R.T. 0.088 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

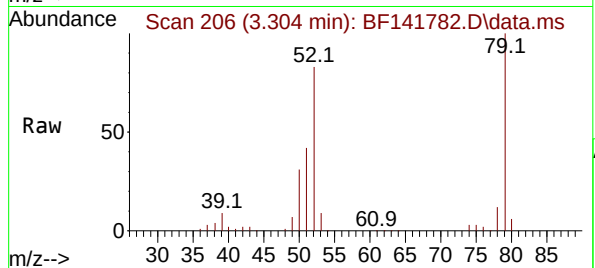
Tgt Ion: 88 Resp: 87106
Ion Ratio Lower Upper
88 100
58 84.6 71.1 106.7
43 33.4 30.6 46.0





#3
Pyridine
Concen: 41.110 ng
RT: 3.304 min Scan# 206
Delta R.T. 0.088 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

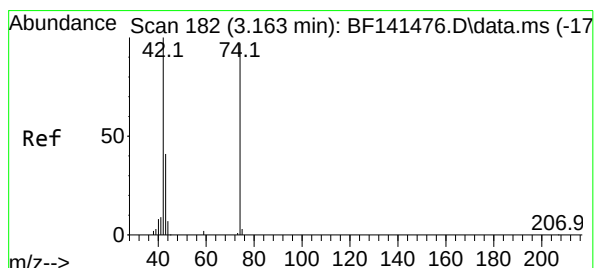
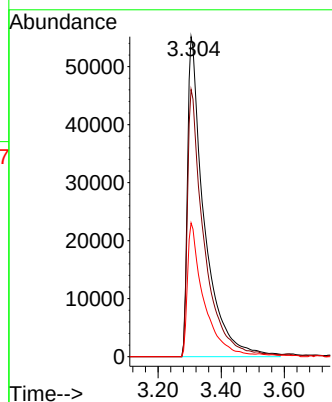
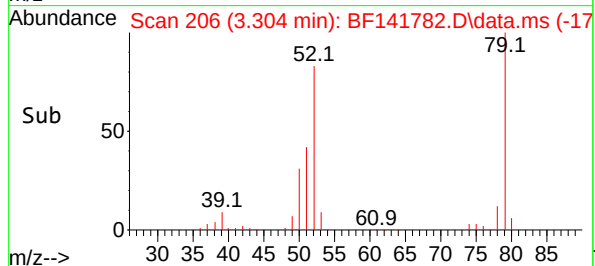
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion: 79 Resp: 20350
Ion Ratio Lower Upper
79 100
52 83.5 73.7 110.5
51 41.8 37.5 56.3

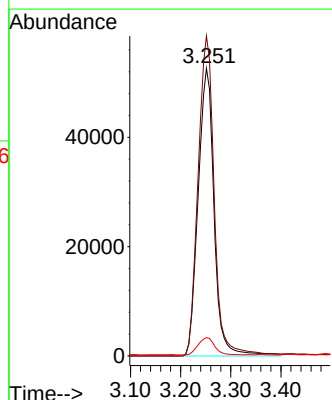
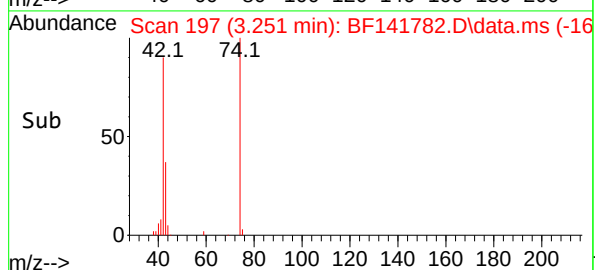
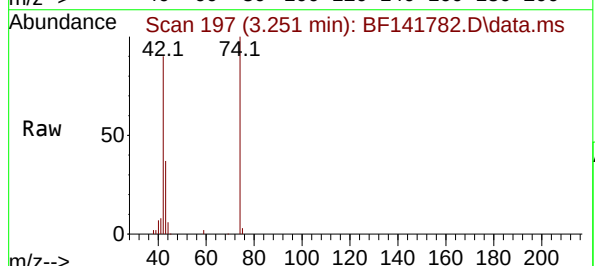
Manual Integrations
APPROVED

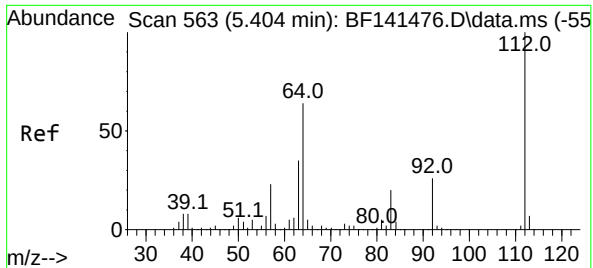
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#4
n-Nitrosodimethylamine
Concen: 35.527 ng
RT: 3.251 min Scan# 197
Delta R.T. 0.065 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

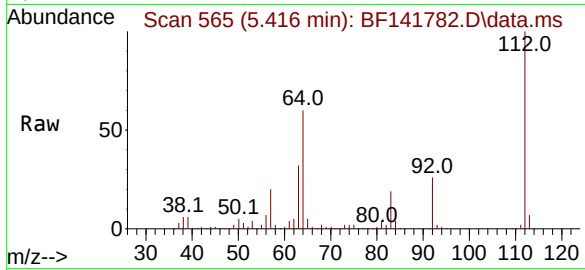
Tgt Ion: 42 Resp: 116448
Ion Ratio Lower Upper
42 100
74 111.2 78.0 117.0
44 6.4 5.4 8.2





#5
2-Fluorophenol
Concen: 131.804 ng
RT: 5.416 min Scan# 50
Delta R.T. 0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

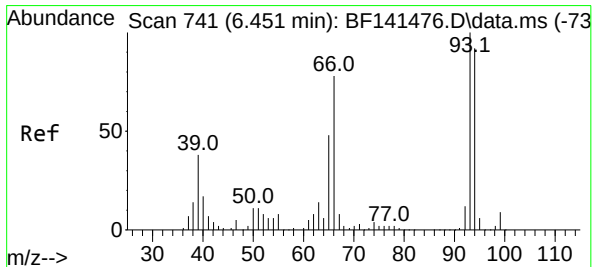
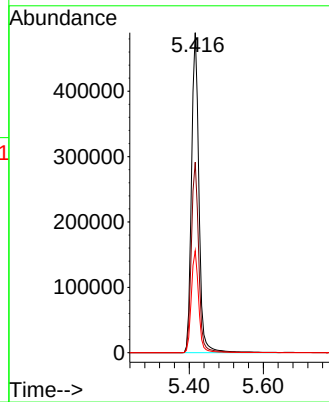
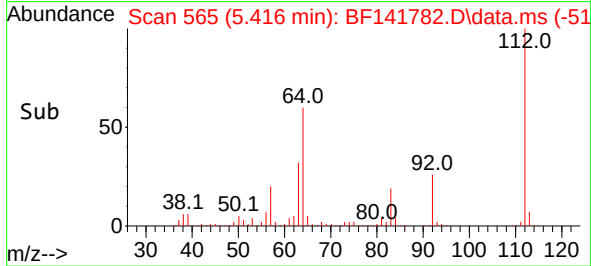
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:112 Resp: 681239
Ion Ratio Lower Upper
112 100
64 59.5 51.1 76.7
63 31.9 28.4 42.6

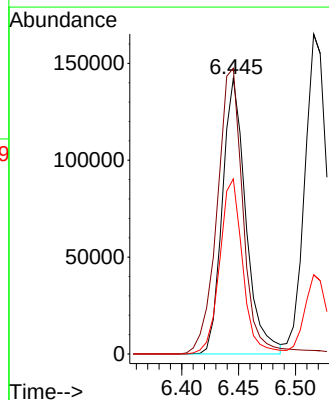
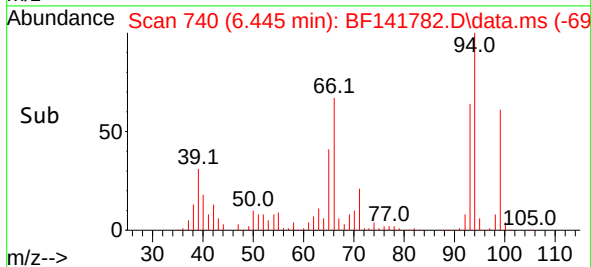
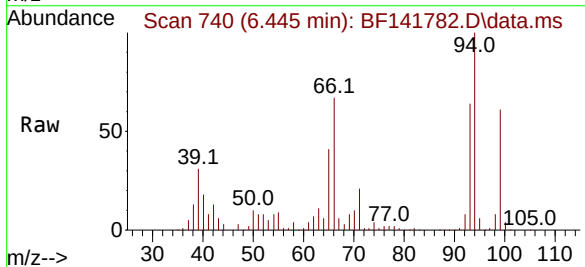
Manual Integrations
APPROVED

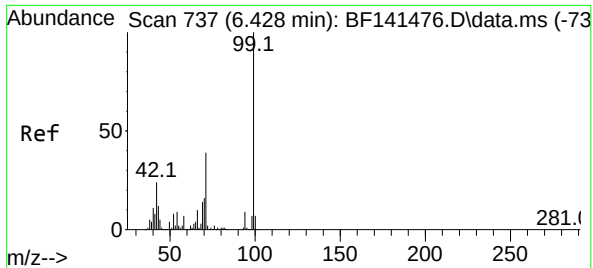
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#6
Aniline
Concen: 33.481 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

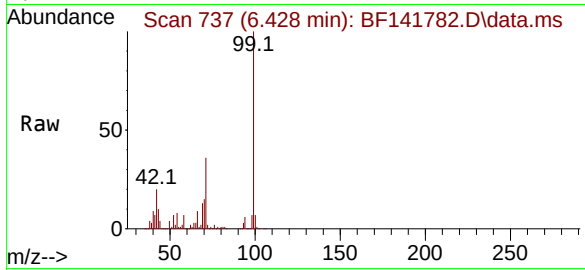
Tgt Ion: 93 Resp: 205168
Ion Ratio Lower Upper
93 100
66 103.7 62.6 94.0#
65 63.5 38.3 57.5#





#7
Phenol-d6
Concen: 126.748 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

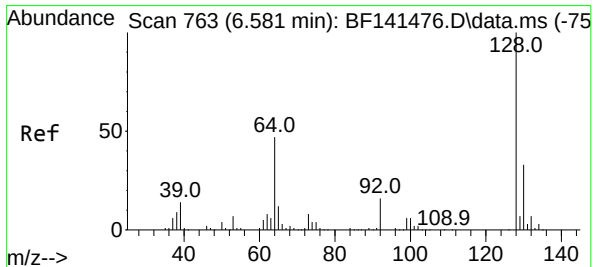
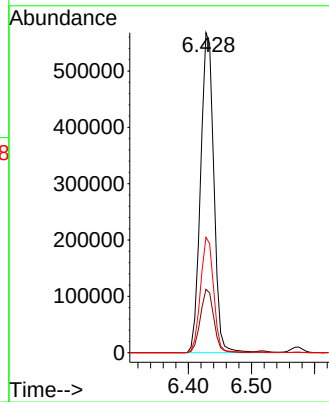
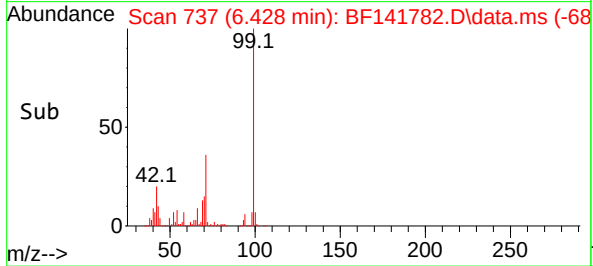
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion: 99 Resp: 828000
Ion Ratio Lower Upper
99 100
42 19.8 19.1 28.7
71 36.1 31.1 46.7

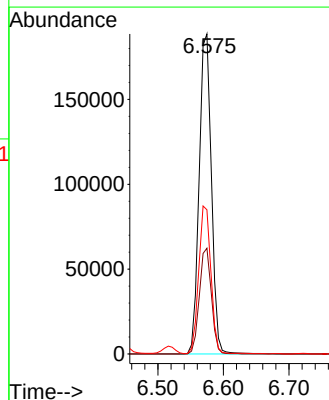
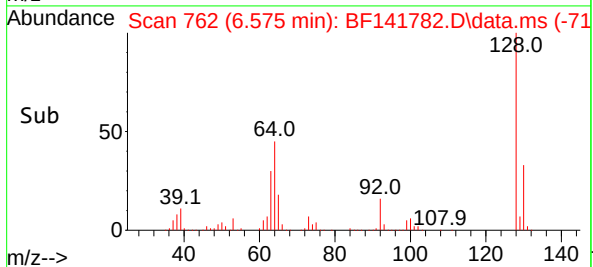
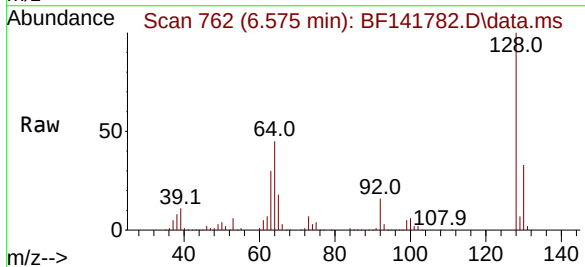
Manual Integrations
APPROVED

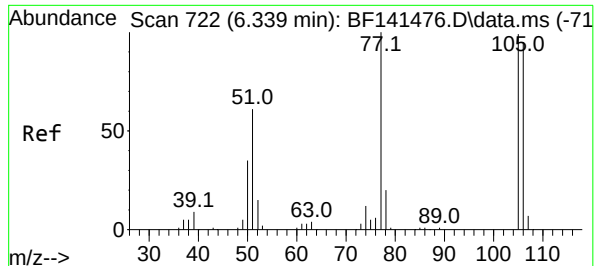
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#8
2-Chlorophenol
Concen: 43.930 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion:128 Resp: 245340
Ion Ratio Lower Upper
128 100
130 33.0 12.7 52.7
64 45.0 28.3 68.3





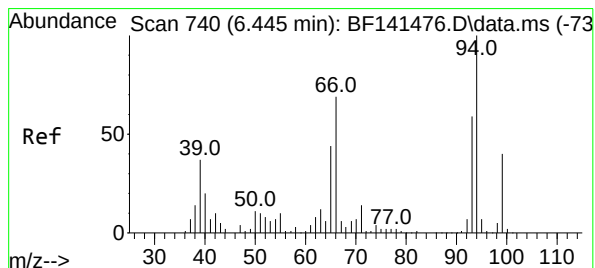
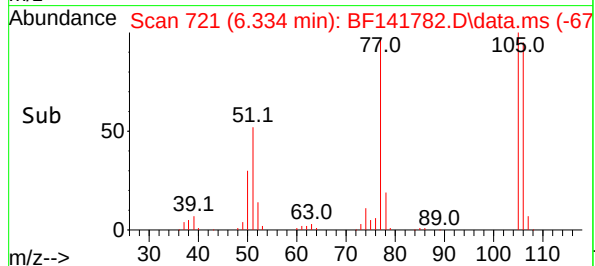
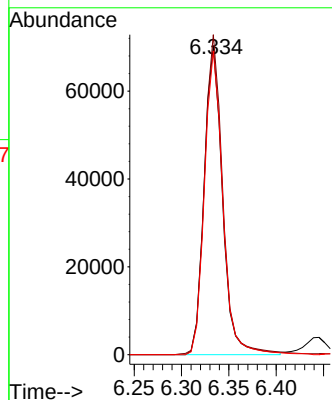
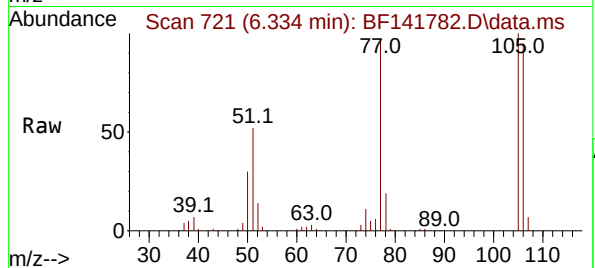
#9
Benzaldehyde
Concen: 27.183 ng
RT: 6.334 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Tgt Ion: 77 Resp: 94360
Ion Ratio Lower Upper
77 100
105 103.5 79.4 119.4
106 98.3 75.1 115.1

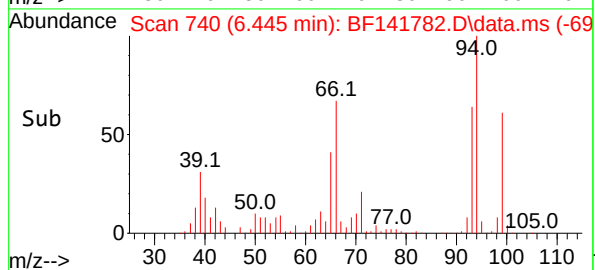
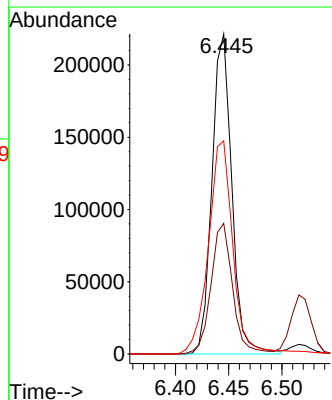
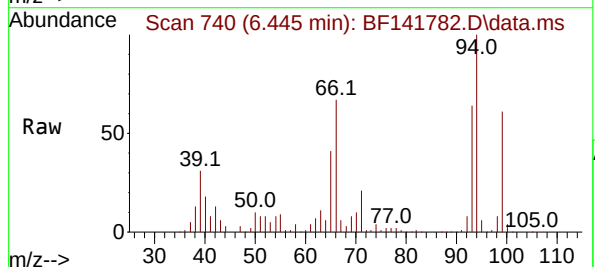
Manual Integrations
APPROVED

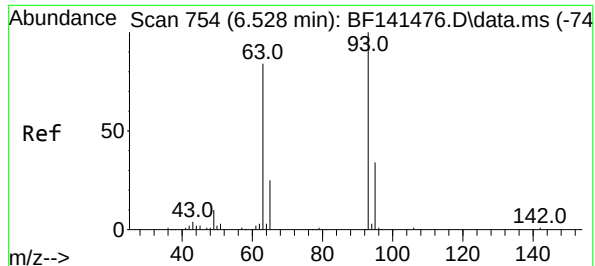
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#10
Phenol
Concen: 42.104 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion: 94 Resp: 286272
Ion Ratio Lower Upper
94 100
65 40.8 23.7 63.7
66 66.6 49.3 89.3





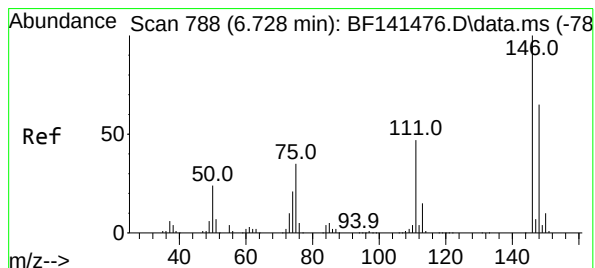
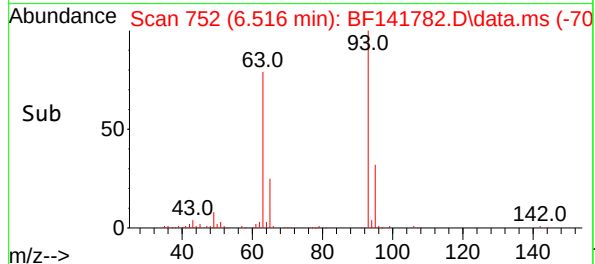
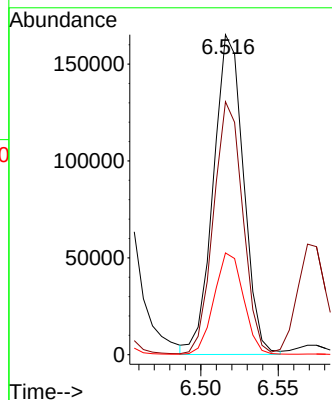
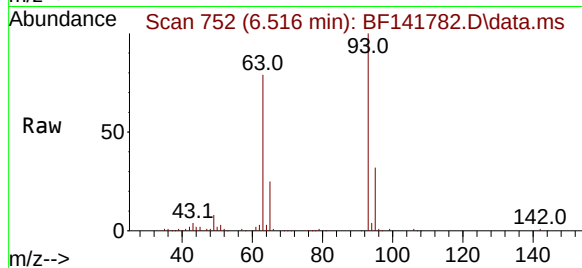
#11
bis(2-Chloroethyl)ether
Concen: 43.742 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Tgt Ion: 93 Resp: 223389
Ion Ratio Lower Upper
93 100
63 79.1 62.0 102.0
95 31.8 12.6 52.6

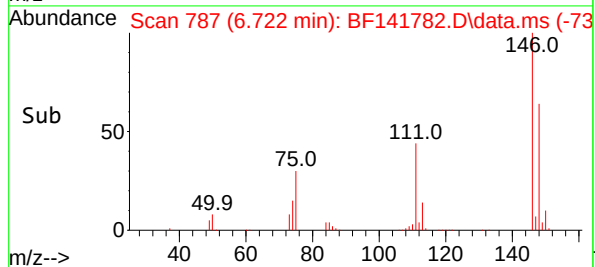
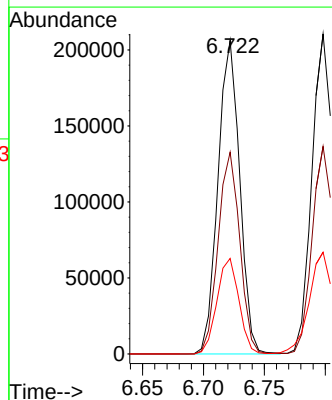
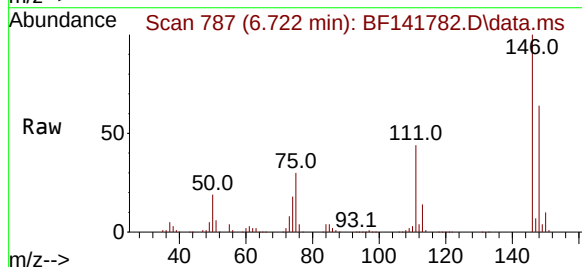
Manual Integrations
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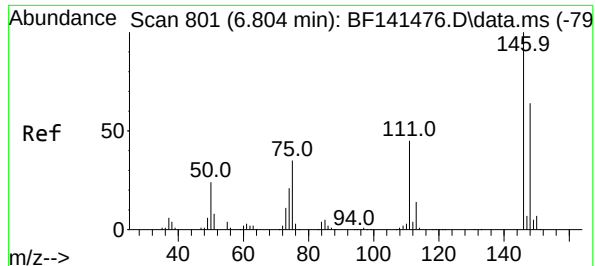
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#12
1,3-Dichlorobenzene
Concen: 43.479 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion:146 Resp: 256355
Ion Ratio Lower Upper
146 100
148 64.3 51.9 77.9
75 30.4 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 43.241 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:146 Resp: 260485

Ion Ratio Lower Upper

146 100

148 64.8 50.9 76.3

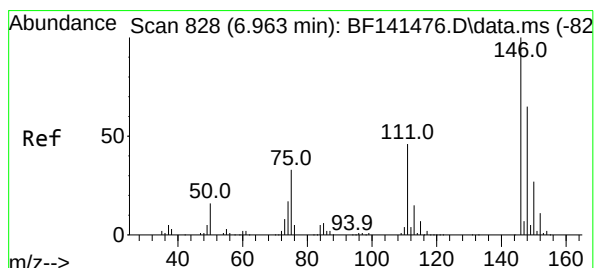
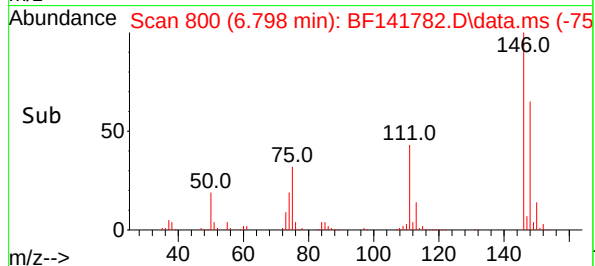
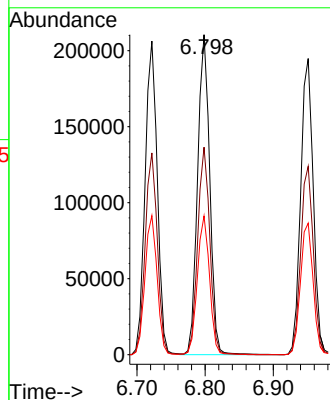
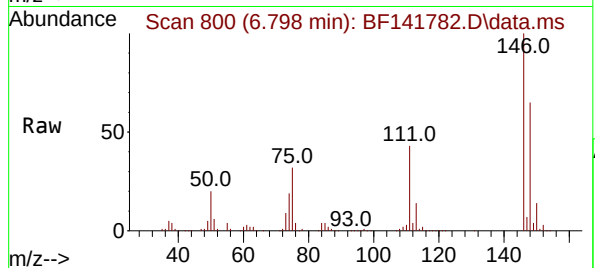
111 43.4 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#14

1,2-Dichlorobenzene

Concen: 44.801 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

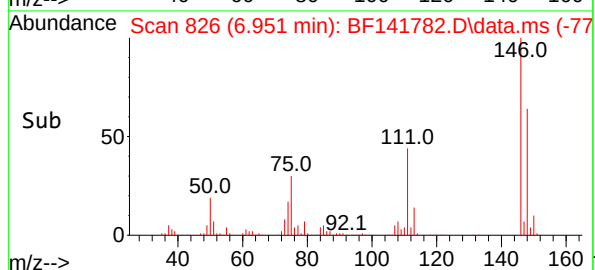
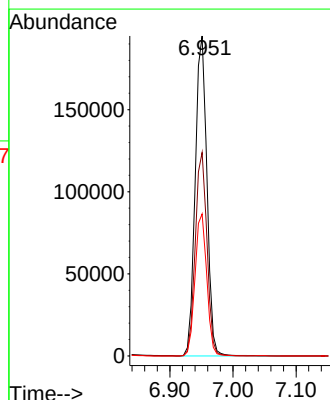
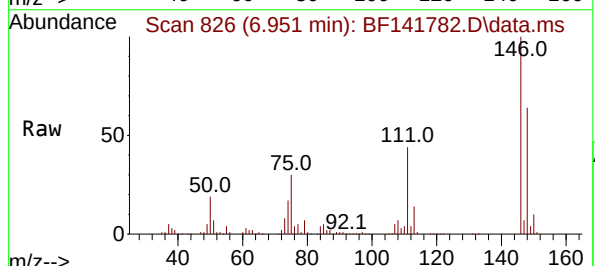
Tgt Ion:146 Resp: 250486

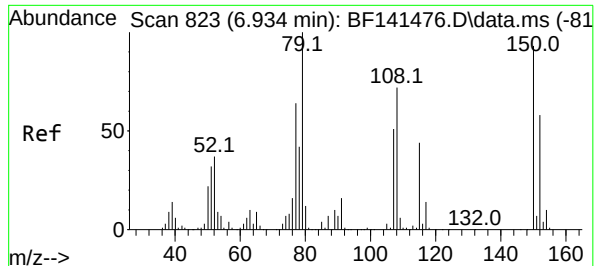
Ion Ratio Lower Upper

146 100

148 63.6 51.8 77.6

111 44.4 37.0 55.4





#15

Benzyl Alcohol

Concen: 41.460 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion: 79 Resp: 20769

Ion Ratio Lower Upper

79 100

108 76.9 57.4 86.2

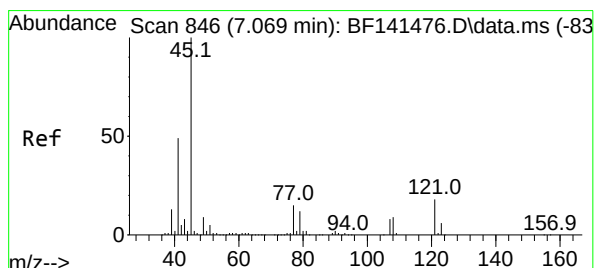
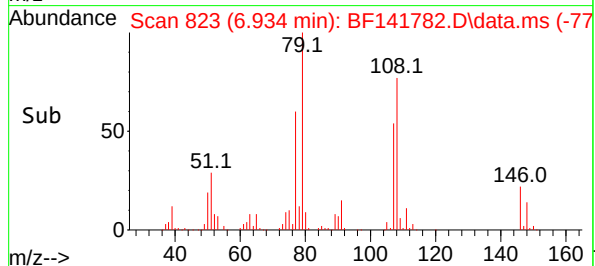
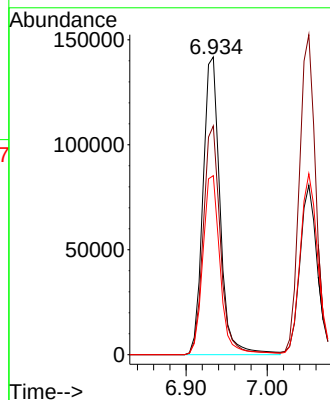
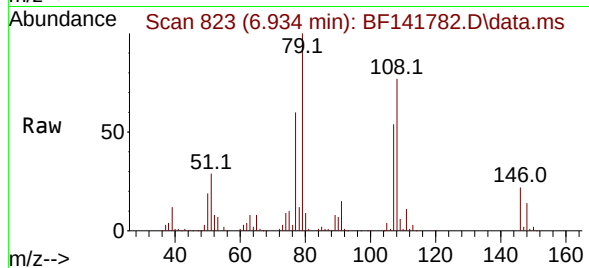
77 60.2 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 37.690 ng

RT: 7.057 min Scan# 844

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

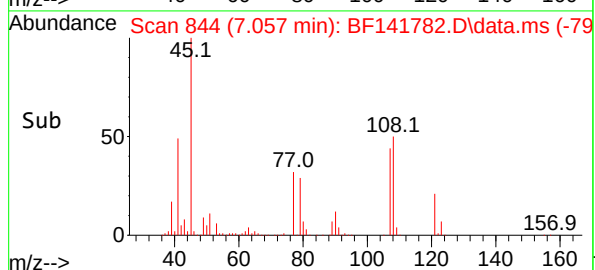
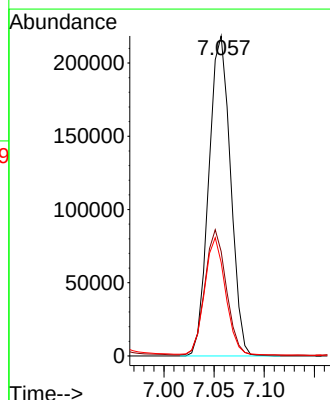
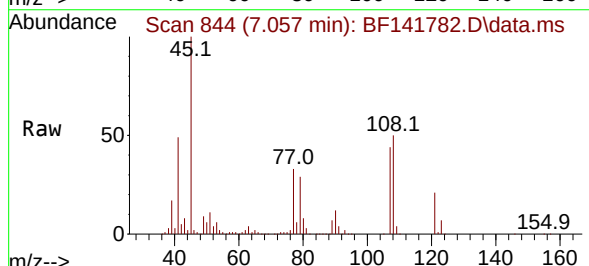
Tgt Ion: 45 Resp: 329491

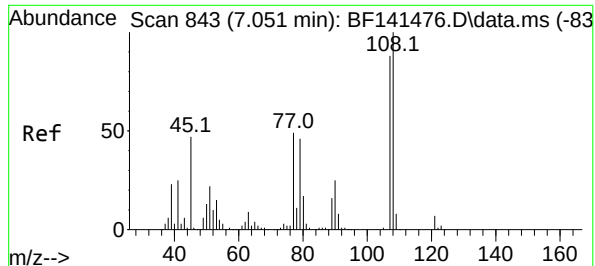
Ion Ratio Lower Upper

45 100

77 32.6 0.0 35.8

79 29.3 0.0 32.7





#17

2-Methylphenol

Concen: 42.874 ng

RT: 7.051 min Scan# 843

Delta R.T. -0.006 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:107 Resp: 187380

Ion Ratio Lower Upper

107 100

108 114.2 90.6 136.0

77 64.6 44.4 66.6

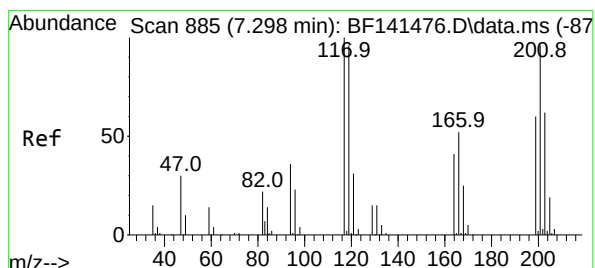
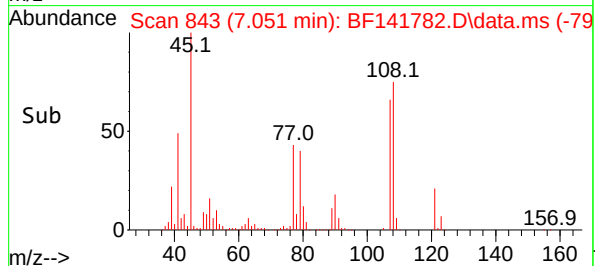
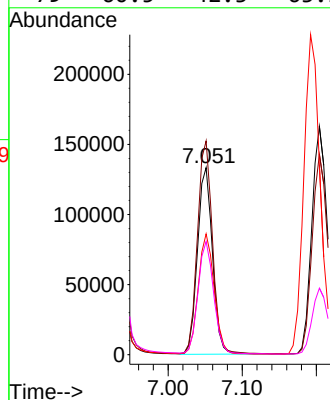
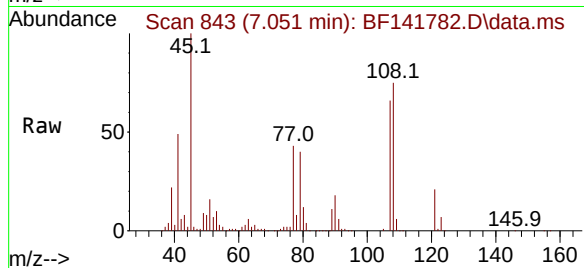
79 60.5 42.3 63.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#18

Hexachloroethane

Concen: 43.451 ng

RT: 7.286 min Scan# 883

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

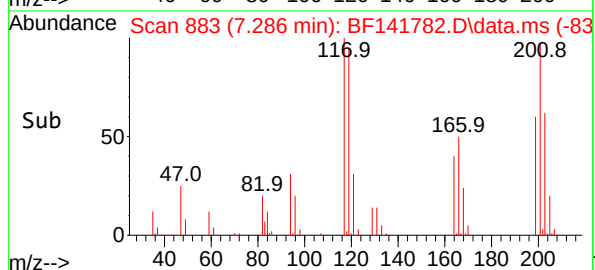
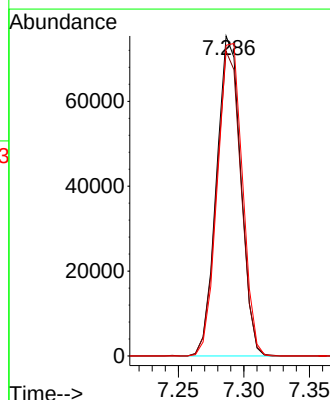
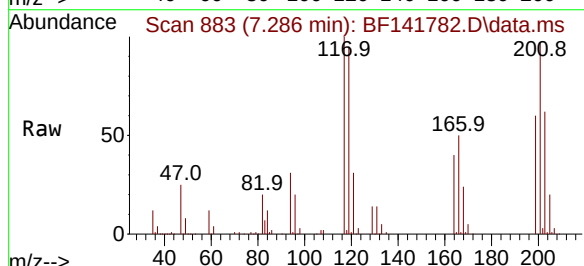
Tgt Ion:117 Resp: 96870

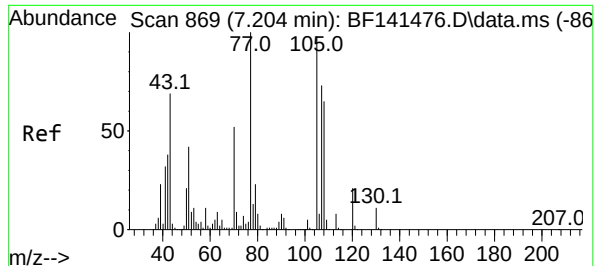
Ion Ratio Lower Upper

117 100

119 95.2 76.5 114.7

201 97.1 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 41.739 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.018 min

Lab File: BF141782.D

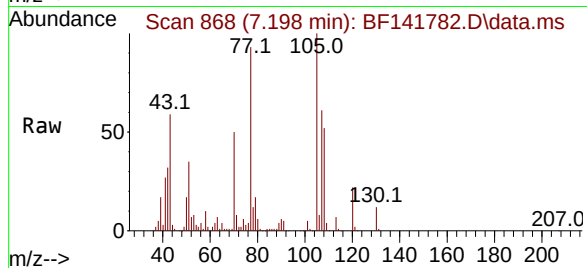
Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD



Tgt Ion: 70 Resp: 16309

Ion Ratio Lower Upper

70 100

42 64.2 57.4 86.2

101 10.6 8.0 12.0

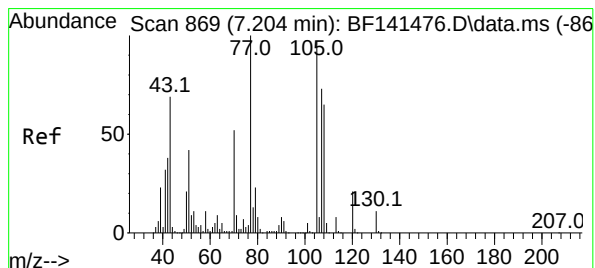
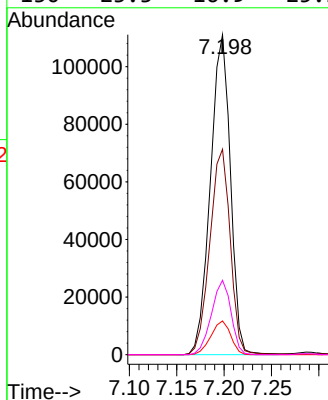
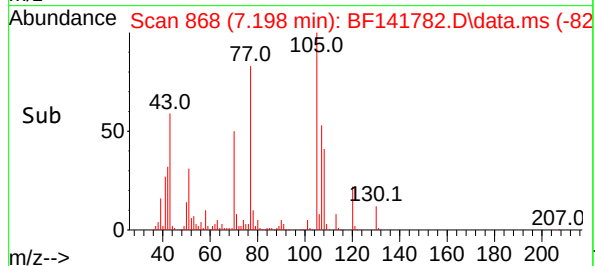
130 23.3 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#20

3+4-Methylphenols

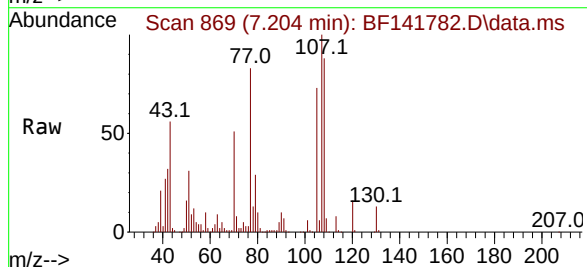
Concen: 45.173 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54



Tgt Ion:107 Resp: 250904

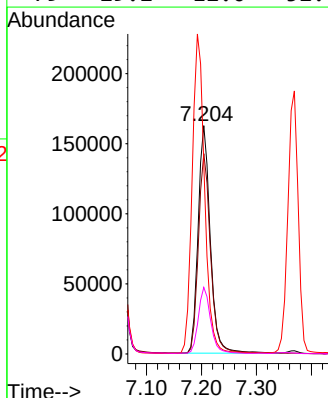
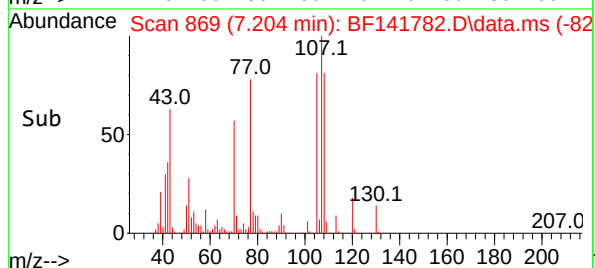
Ion Ratio Lower Upper

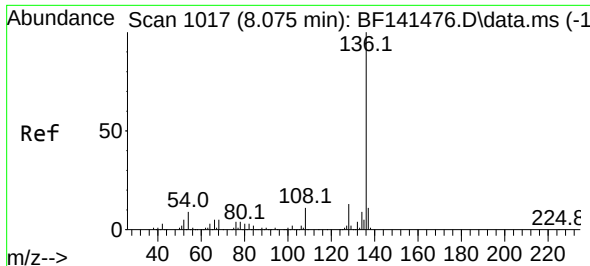
107 100

108 87.7 68.5 108.5

77 83.1 116.5 156.5

79 29.2 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF141782.D

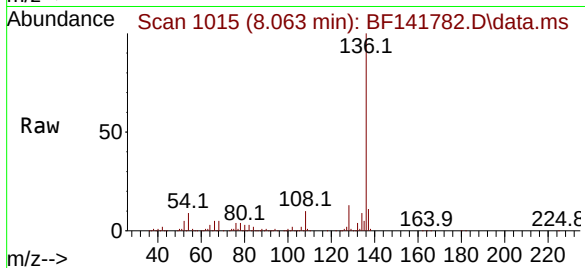
Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD



Tgt Ion:136 Resp: 321539

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.6 7.2 10.8

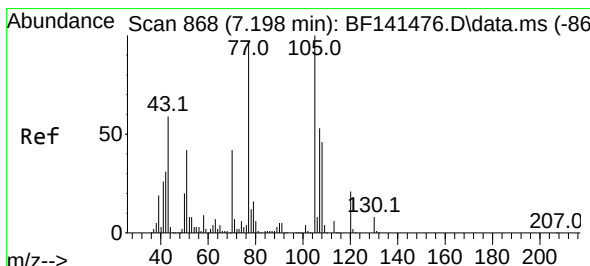
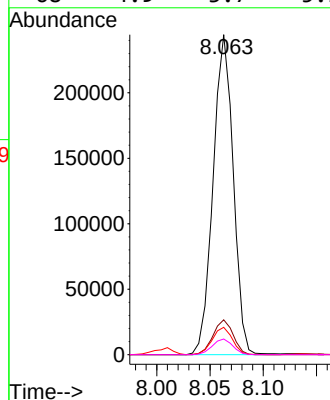
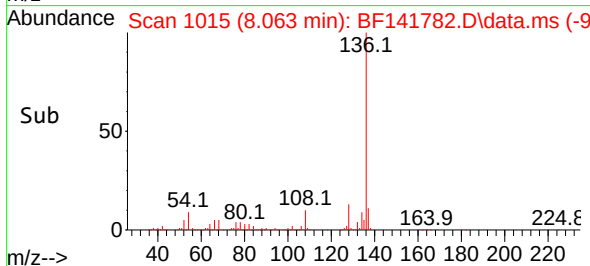
68 4.9 3.7 5.5

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#22

Acetophenone

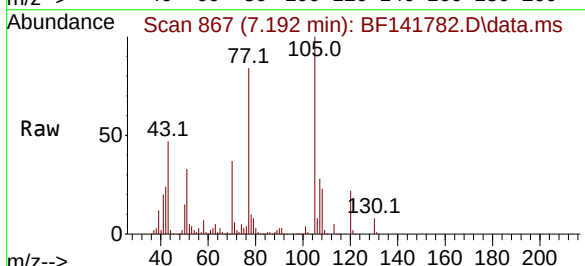
Concen: 46.687 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54



Tgt Ion:105 Resp: 373423

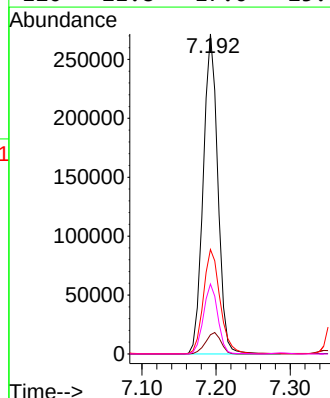
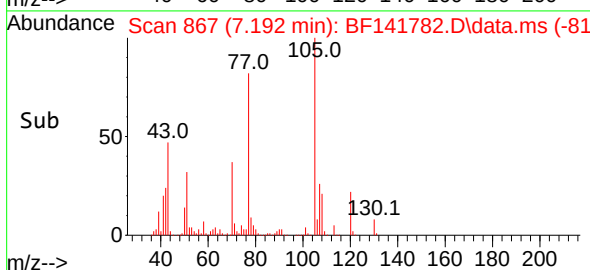
Ion Ratio Lower Upper

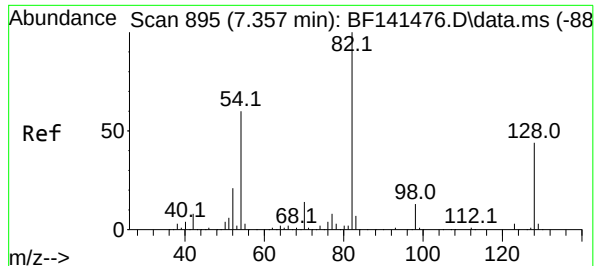
105 100

71 6.0 5.7 8.5

51 32.7 33.7 50.5#

120 21.8 17.0 25.6





#23

Nitrobenzene-d5

Concen: 87.355 ng

RT: 7.345 min Scan# 895

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion: 82 Resp: 53851

Ion Ratio Lower Upper

82 100

128 44.3 34.8 52.2

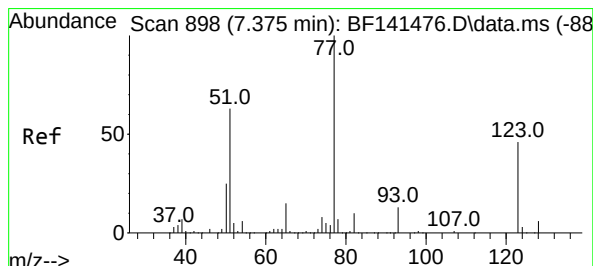
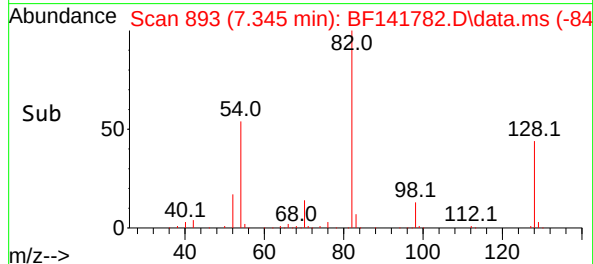
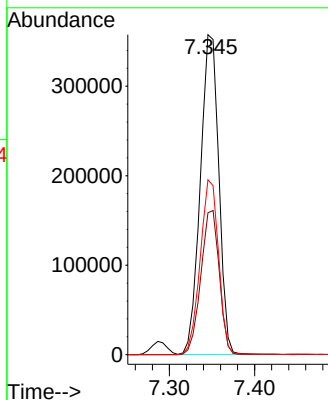
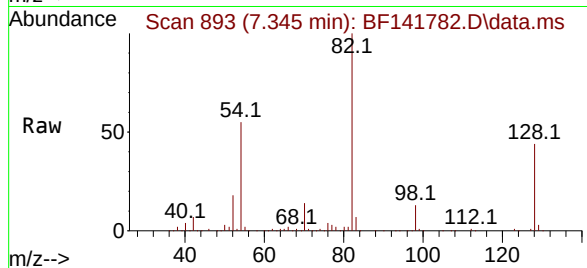
54 54.7 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#24

Nitrobenzene

Concen: 40.921 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

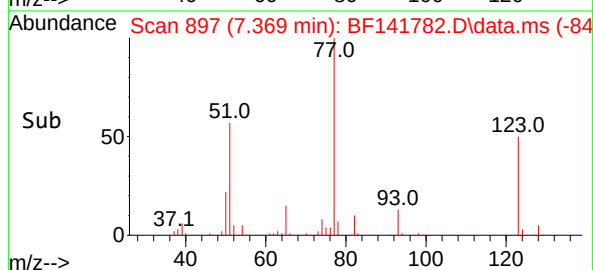
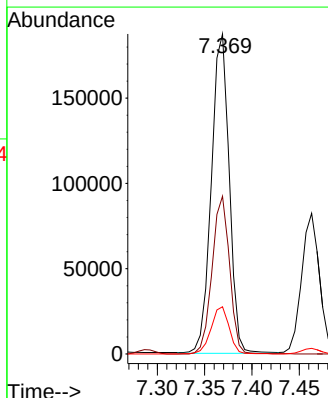
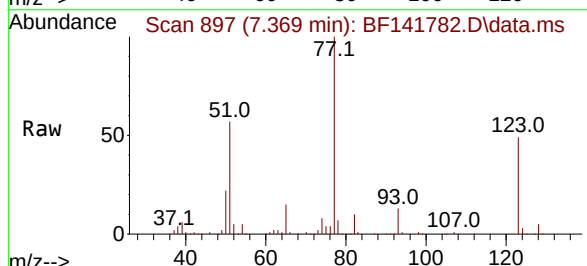
Tgt Ion: 77 Resp: 245989

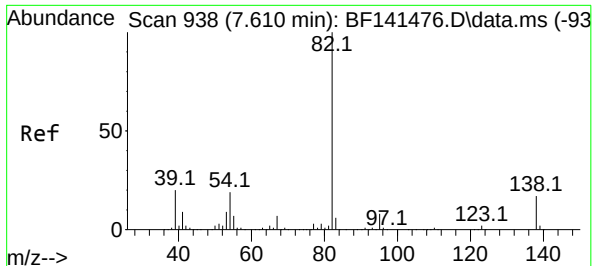
Ion Ratio Lower Upper

77 100

123 49.3 36.9 55.3

65 14.8 11.9 17.9





#25

Isophorone

Concen: 45.039 ng

RT: 7.604 min Scan# 91

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion: 82 Resp: 44270

Ion Ratio Lower Upper

82 100

95 7.6 6.4 9.6

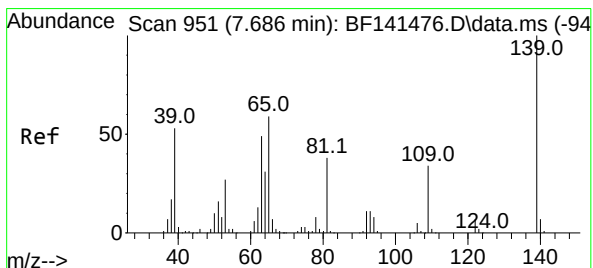
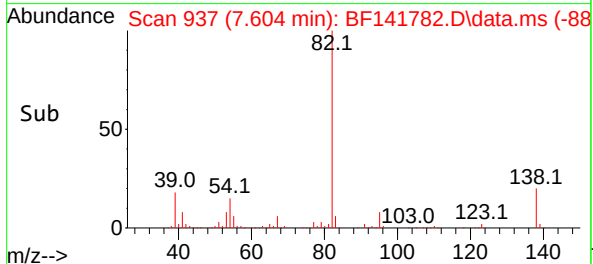
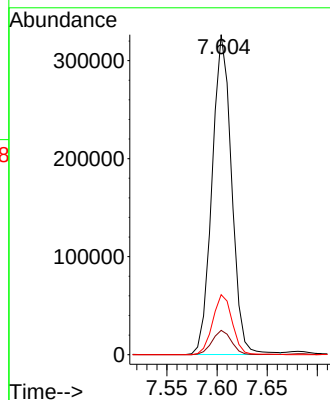
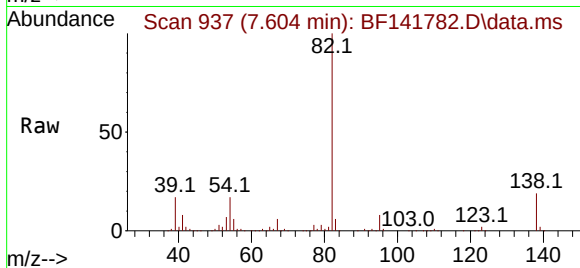
138 18.8 13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#26

2-Nitrophenol

Concen: 44.262 ng

RT: 7.681 min Scan# 950

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

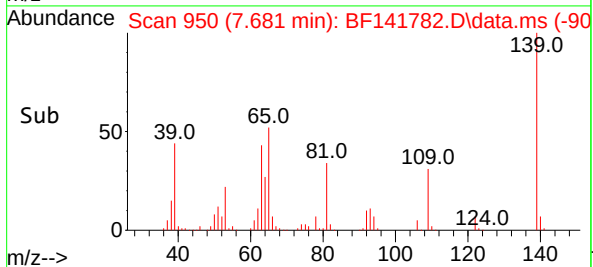
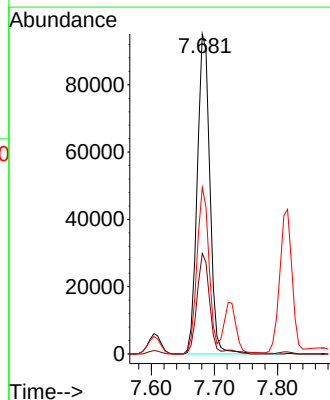
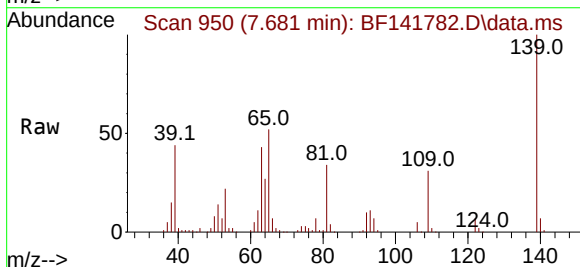
Tgt Ion:139 Resp: 132377

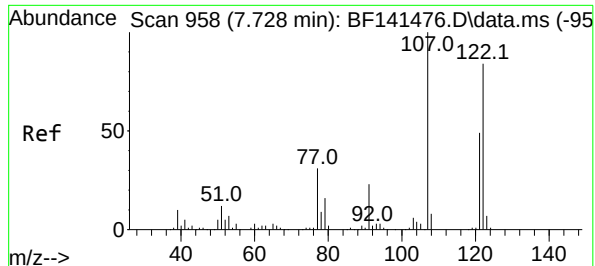
Ion Ratio Lower Upper

139 100

109 31.4 27.0 40.6

65 52.1 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 55.812 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

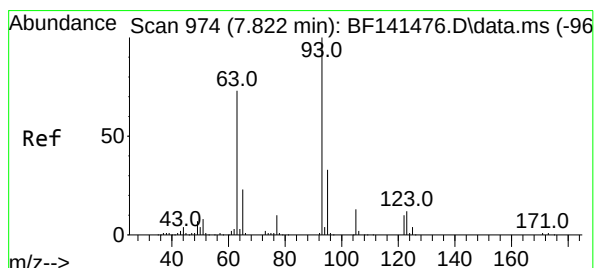
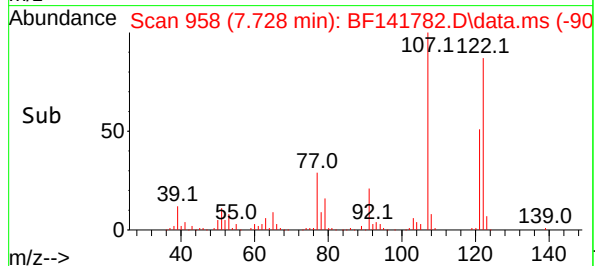
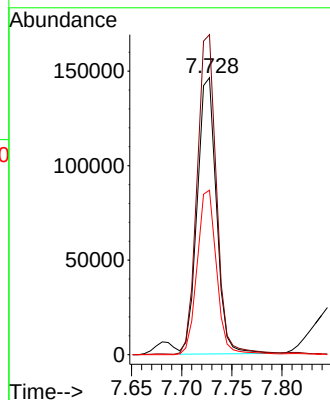
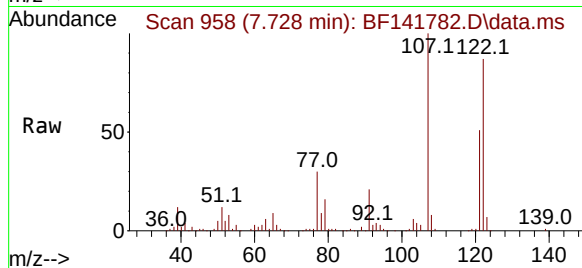
PB166875BSD

Tgt Ion:122 Resp: 19499

Ion	Ratio	Lower	Upper
122	100		
107	115.6	94.3	141.5
121	59.4	46.0	69.0

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#28

bis(2-Chloroethoxy)methane

Concen: 44.386 ng

RT: 7.816 min Scan# 973

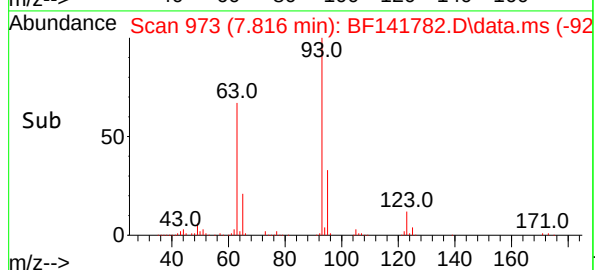
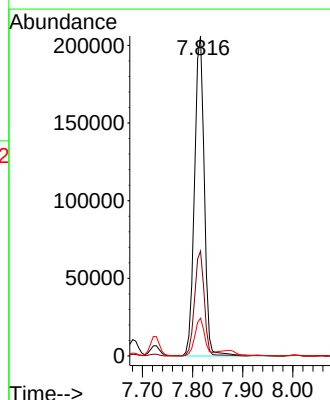
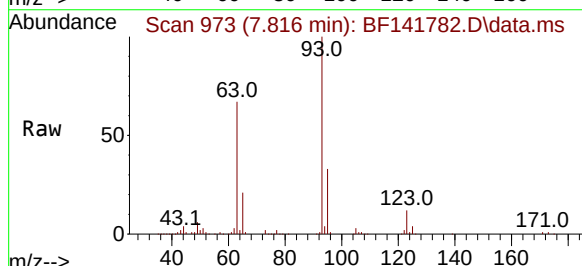
Delta R.T. -0.012 min

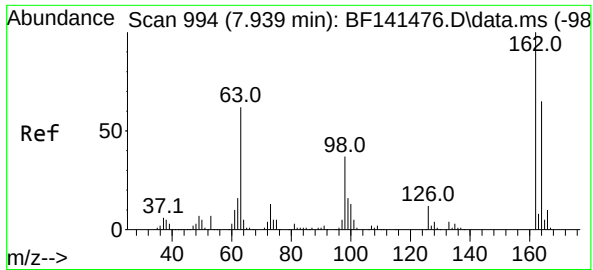
Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Tgt Ion: 93 Resp: 279563

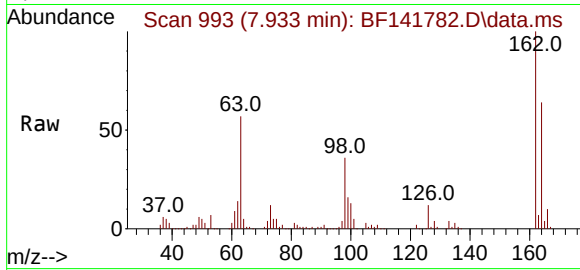
Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.1	39.1
123	11.8	9.5	14.3





#29
2,4-Dichlorophenol
Concen: 44.120 ng
RT: 7.933 min Scan# 994
Delta R.T. -0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

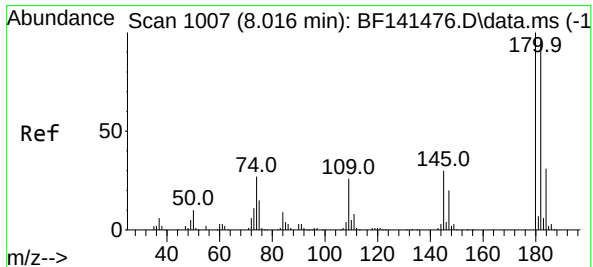
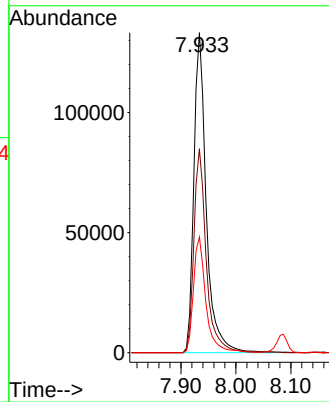
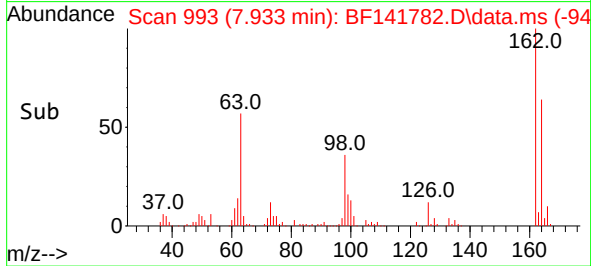
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:162 Resp: 208275
Ion Ratio Lower Upper
162 100
164 63.7 44.6 84.6
98 36.1 17.2 57.2

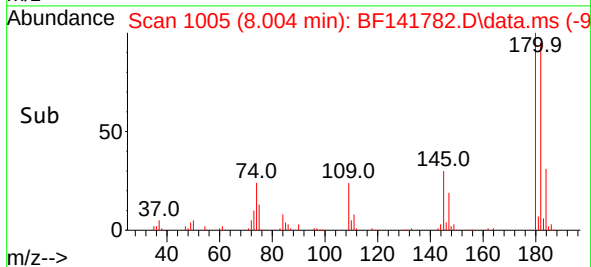
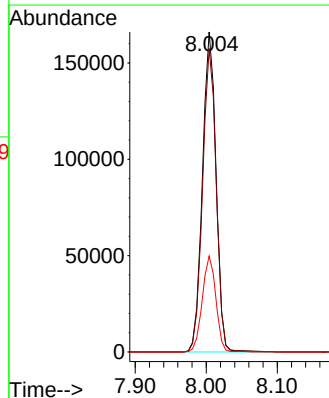
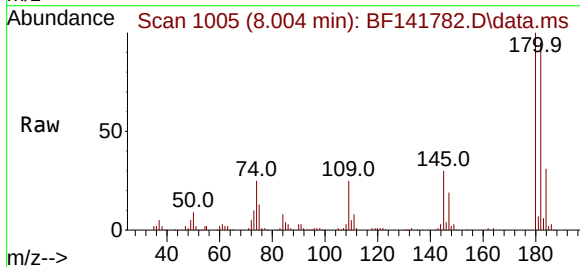
Manual Integrations
APPROVED

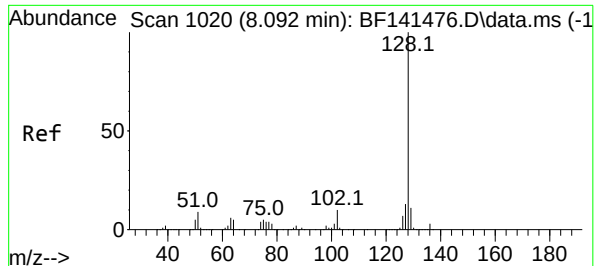
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#30
1,2,4-Trichlorobenzene
Concen: 43.099 ng
RT: 8.004 min Scan# 1005
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion:180 Resp: 221560
Ion Ratio Lower Upper
180 100
182 94.9 76.8 115.2
145 30.0 24.2 36.4





#31

Naphthalene

Concen: 42.424 ng

RT: 8.086 min Scan# 1020

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:128 Resp: 71006

Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

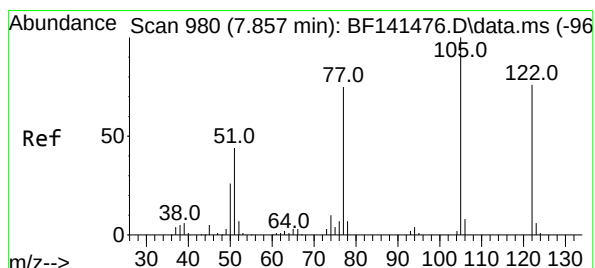
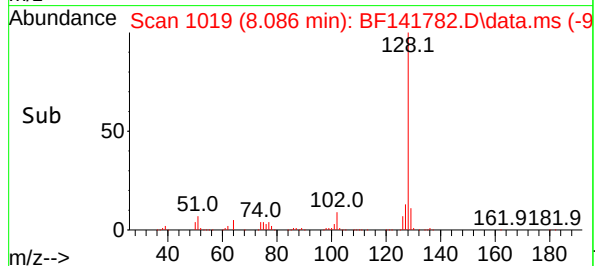
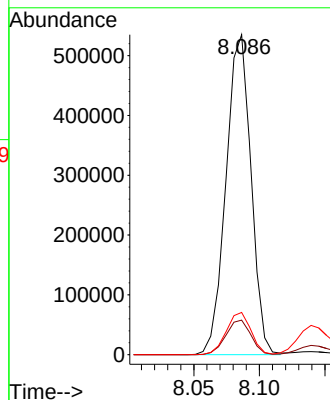
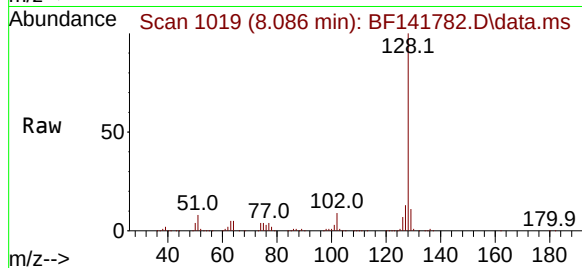
127 13.2 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#32

Benzoic acid

Concen: 37.346 ng

RT: 7.875 min Scan# 983

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

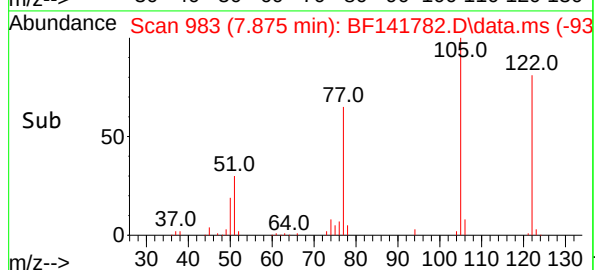
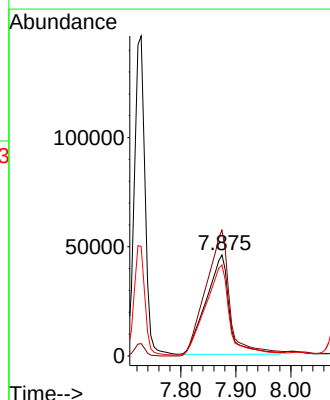
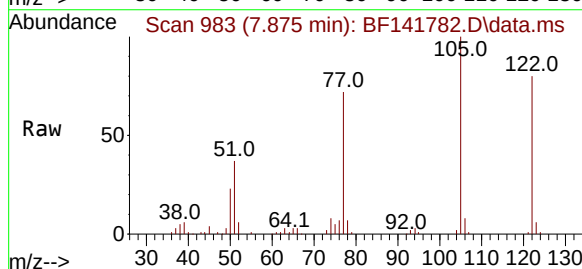
Tgt Ion:122 Resp: 135530

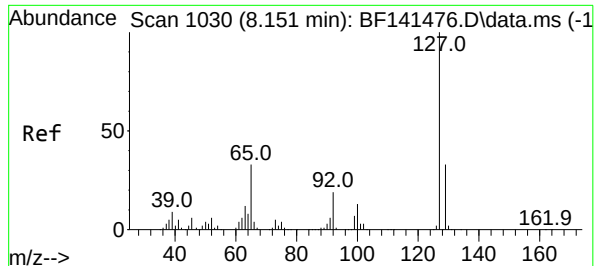
Ion Ratio Lower Upper

122 100

105 124.6 106.5 146.5

77 90.3 76.3 116.3





#33

4-Chloroaniline

Concen: 18.318 ng

RT: 8.139 min Scan# 1030

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:127 Resp: 10704

Ion Ratio Lower Upper

127 100

129 31.5 26.5 39.7

65 30.2 26.4 39.6

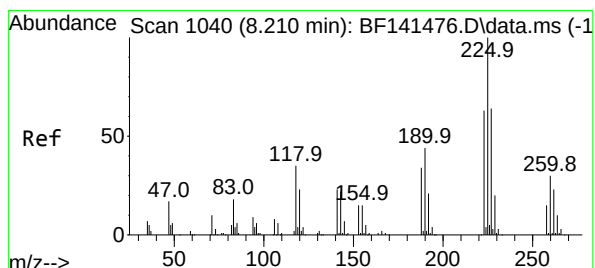
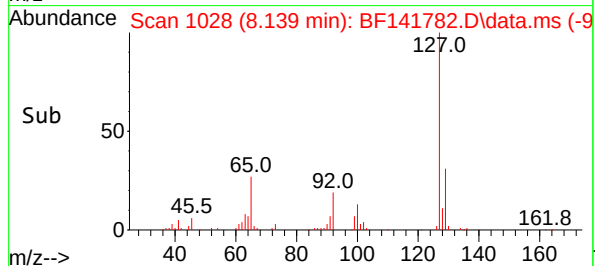
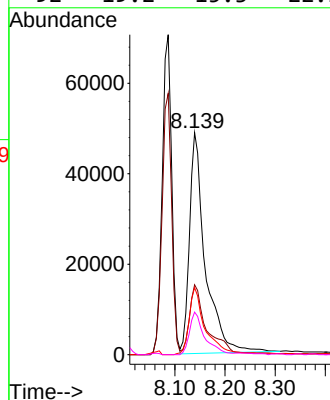
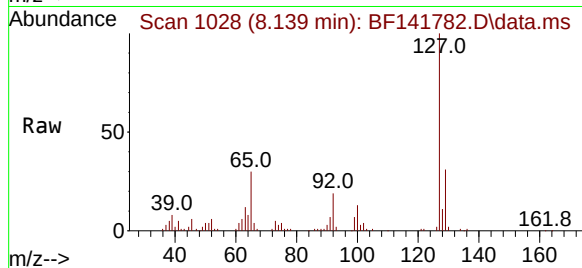
92 19.2 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#34

Hexachlorobutadiene

Concen: 43.914 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

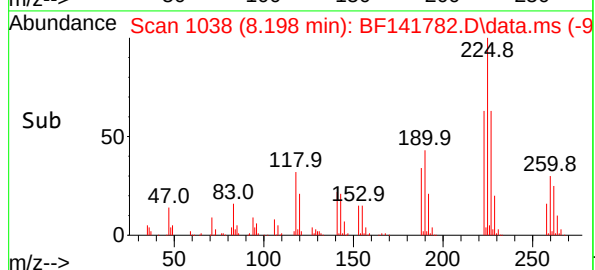
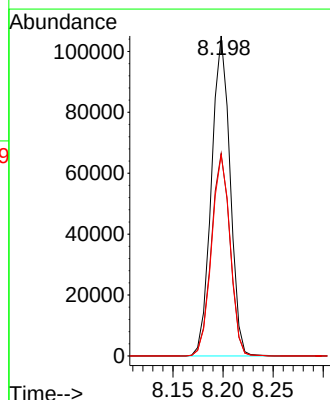
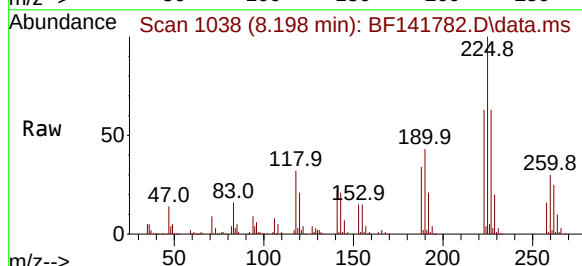
Tgt Ion:225 Resp: 135525

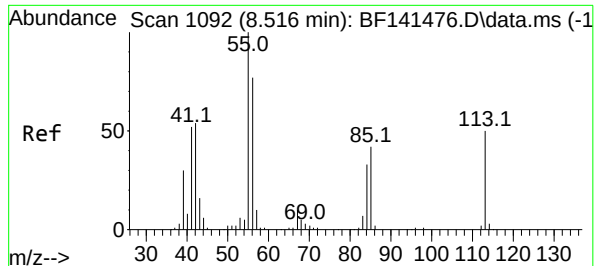
Ion Ratio Lower Upper

225 100

223 63.3 50.1 75.1

227 62.8 51.0 76.6





#35

Caprolactam

Concen: 49.677 ng m

RT: 8.516 min Scan# 1092

Delta R.T. -0.029 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:113 Resp: 7140

Ion Ratio Lower Upper

113 100

55 177.3 180.8 220.8

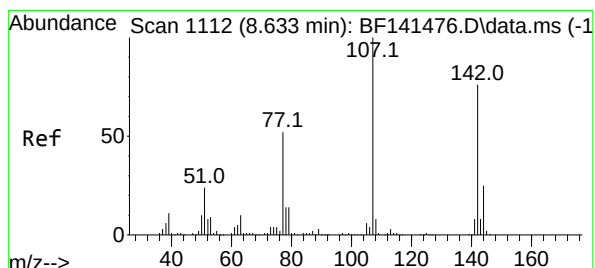
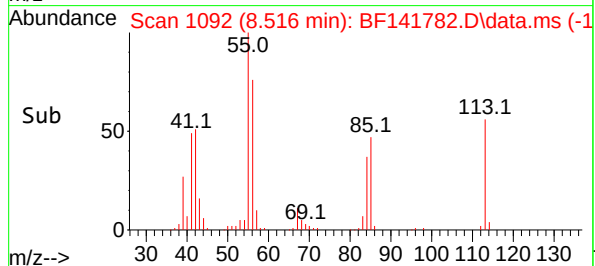
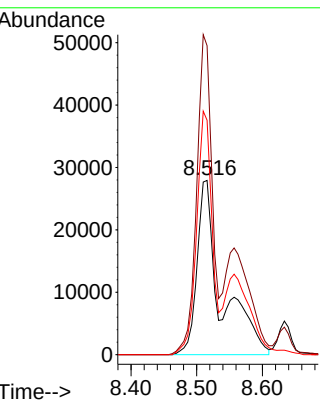
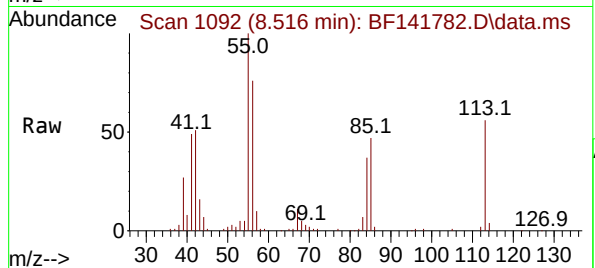
56 134.5 133.6 173.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#36

4-Chloro-3-methylphenol

Concen: 42.134 ng

RT: 8.633 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

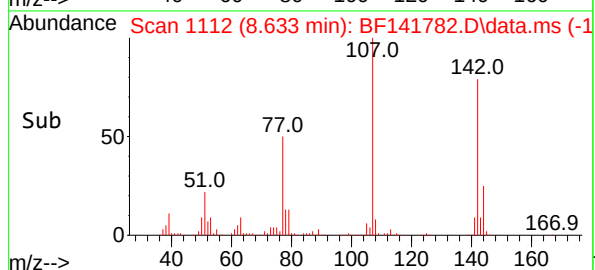
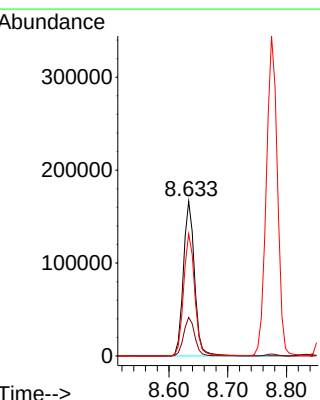
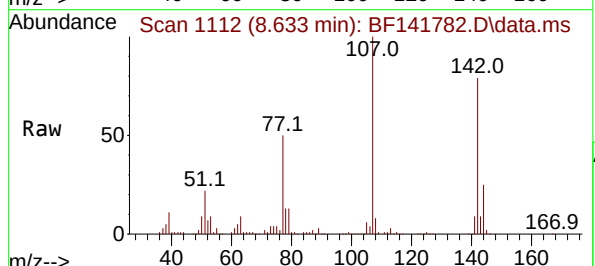
Tgt Ion:107 Resp: 220323

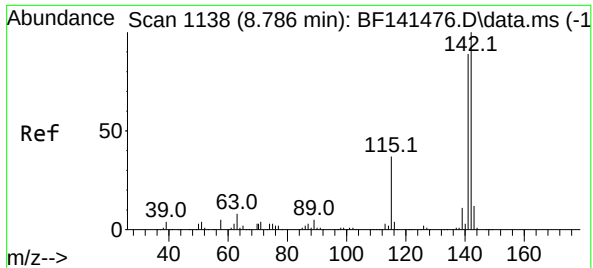
Ion Ratio Lower Upper

107 100

144 24.9 19.7 29.5

142 78.9 60.8 91.2





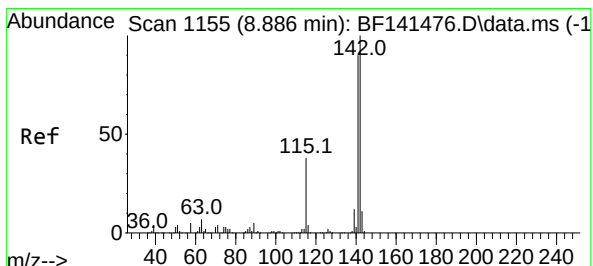
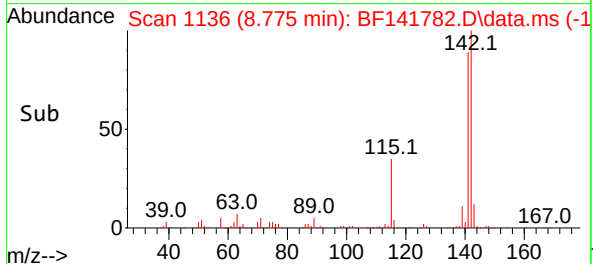
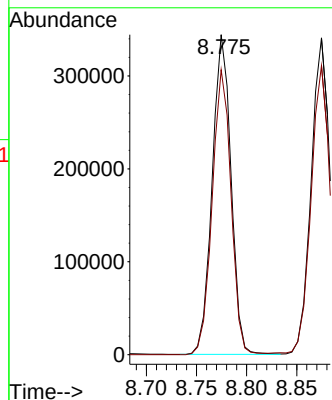
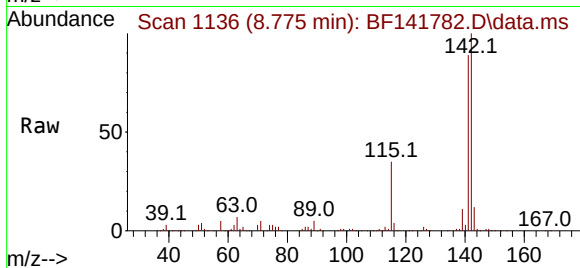
#37
2-Methylnaphthalene
Concen: 41.298 ng
RT: 8.775 min Scan# 1136
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Tgt Ion:142 Resp: 449799
Ion Ratio Lower Upper
142 100
141 89.1 71.2 106.8

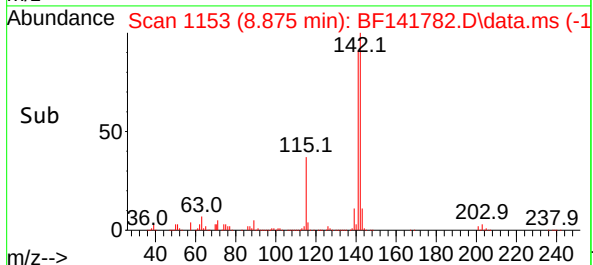
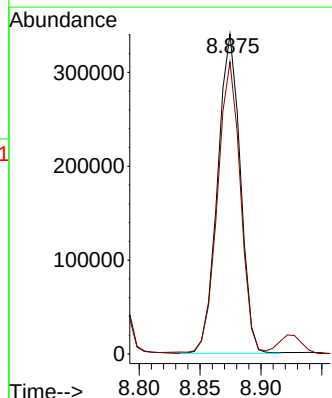
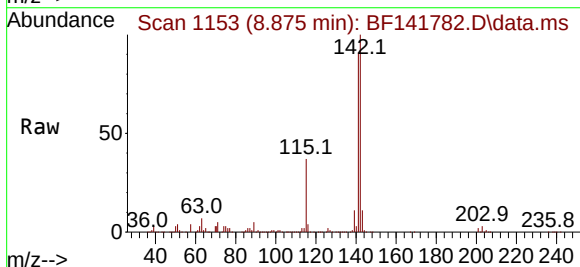
Manual Integrations
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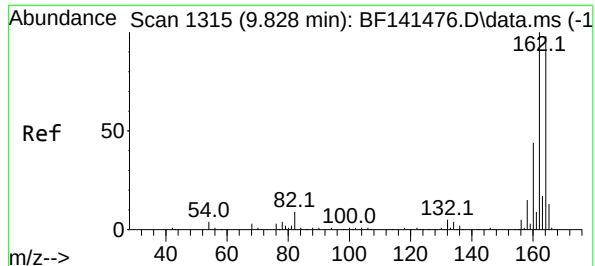
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#38
1-Methylnaphthalene
Concen: 41.911 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion:142 Resp: 442108
Ion Ratio Lower Upper
142 100
141 91.3 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1165

Delta R.T. -0.018 min

Lab File: BF141782.D

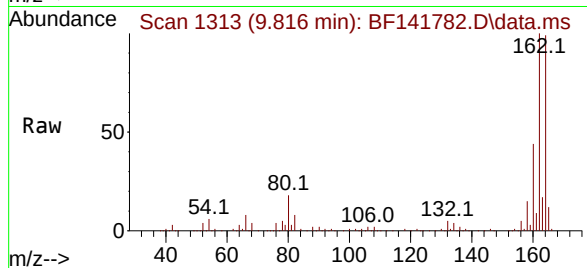
Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD



Tgt Ion:164 Resp: 17961

Ion Ratio Lower Upper

164 100

162 101.1 81.3 121.9

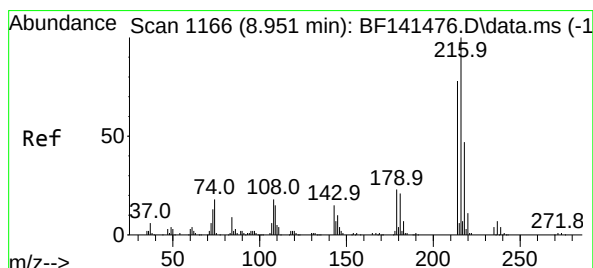
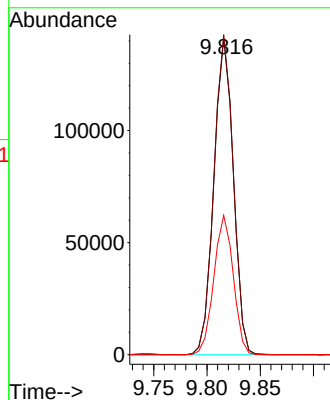
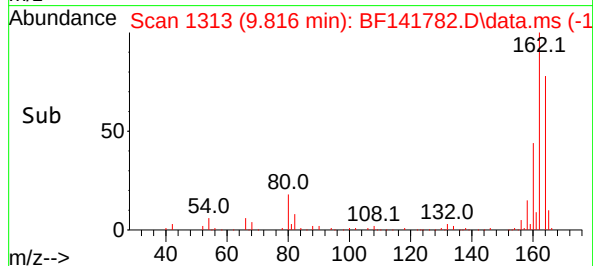
160 44.0 35.9 53.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#40

1,2,4,5-Tetrachlorobenzene

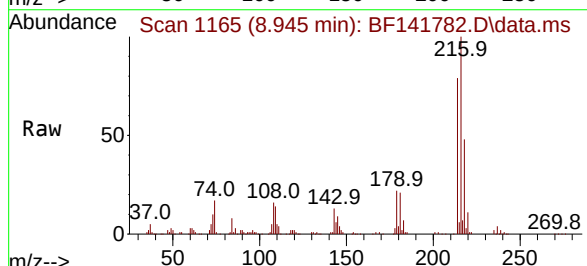
Concen: 47.248 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54



Tgt Ion:216 Resp: 245522

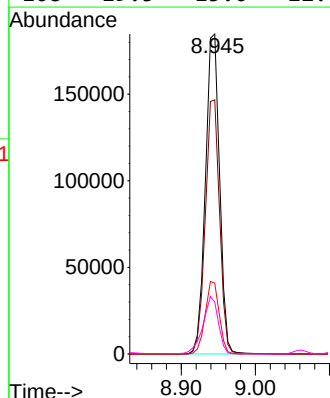
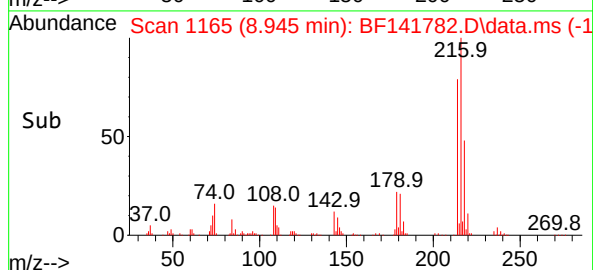
Ion Ratio Lower Upper

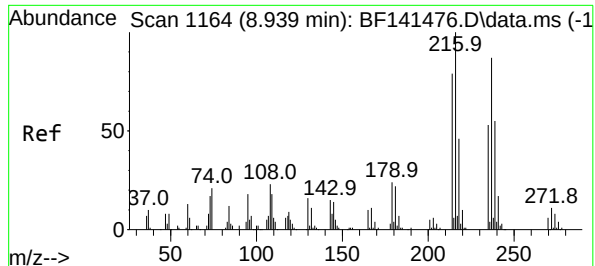
216 100

214 79.8 62.3 93.5

179 22.5 18.0 27.0

108 19.5 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 122.809 ng

RT: 8.928 min Scan# 1162

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:237 Resp: 212260

Ion Ratio Lower Upper

237 100

235 61.9 41.4 81.4

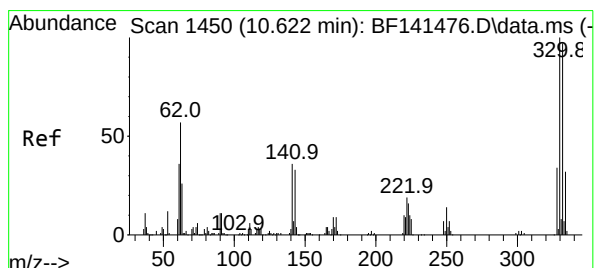
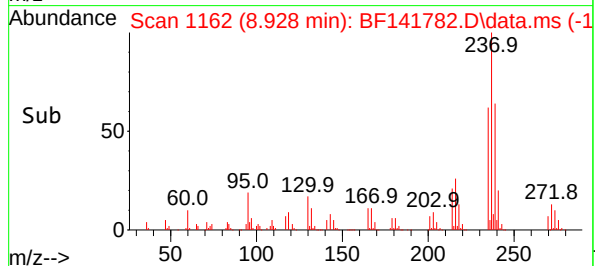
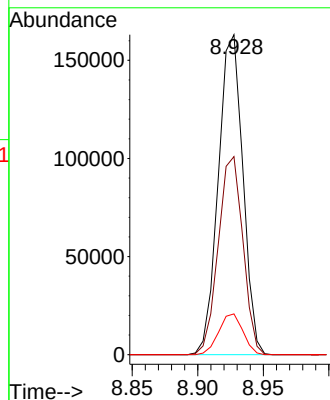
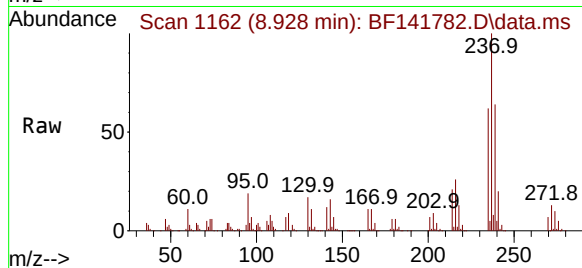
272 12.8 0.0 32.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#42

2,4,6-Tribromophenol

Concen: 138.363 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

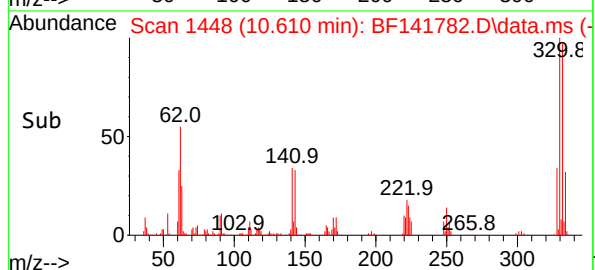
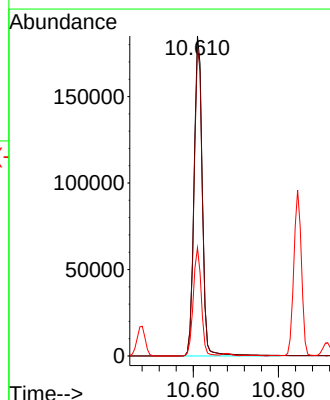
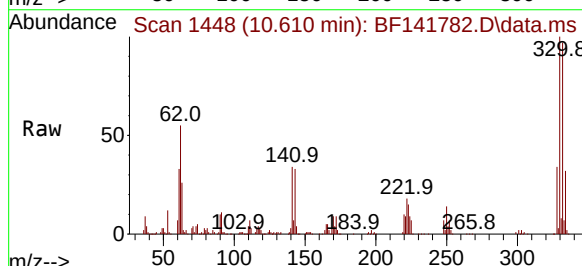
Tgt Ion:330 Resp: 249647

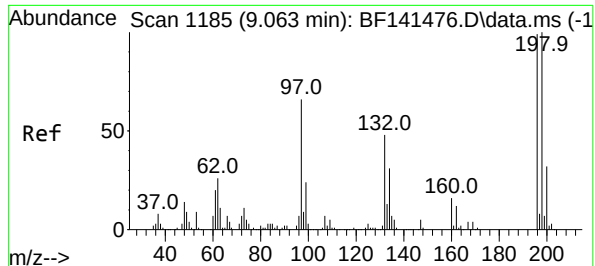
Ion Ratio Lower Upper

330 100

332 97.0 78.5 117.7

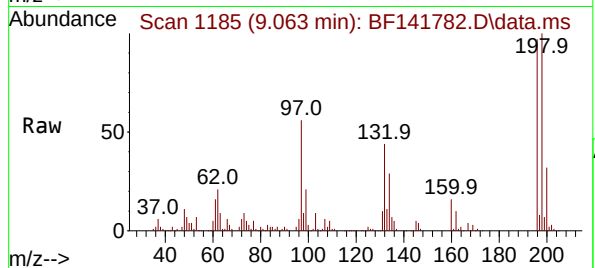
141 32.8 31.0 46.4





#43
2,4,6-Trichlorophenol
Concen: 42.435 ng
RT: 9.063 min Scan# 1185
Delta R.T. -0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

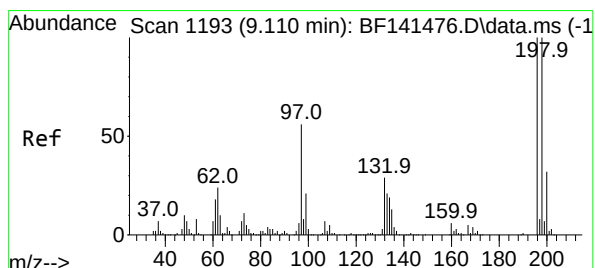
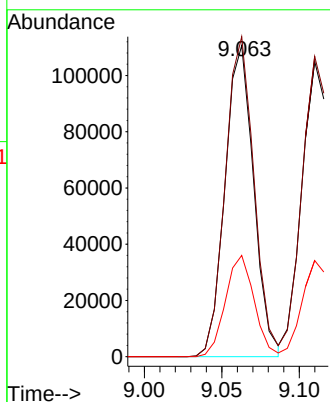
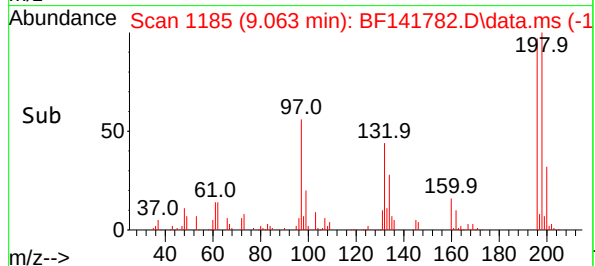
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:196 Resp: 142519
Ion Ratio Lower Upper
196 100
198 102.8 80.6 121.0
200 32.6 25.5 38.3

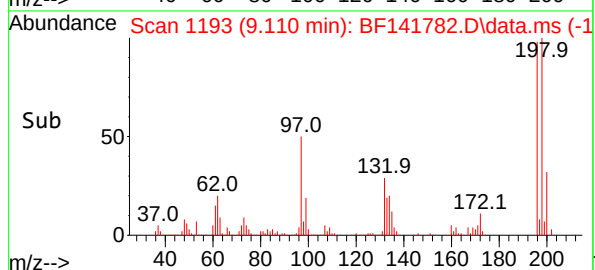
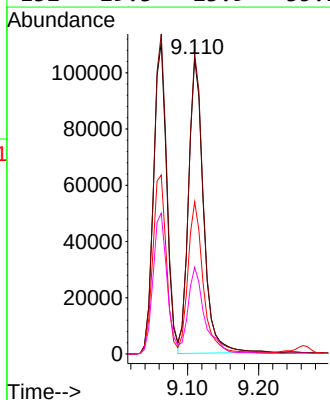
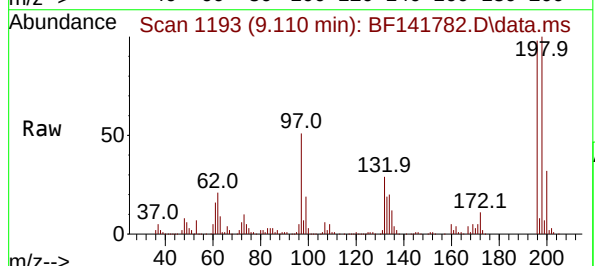
Manual Integrations
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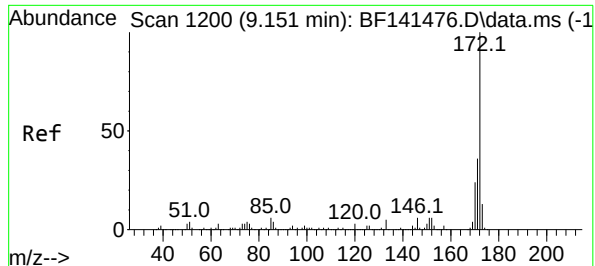
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#44
2,4,5-Trichlorophenol
Concen: 42.139 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion:196 Resp: 153378
Ion Ratio Lower Upper
196 100
198 101.6 79.8 119.8
97 51.5 44.8 67.2
132 29.3 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 91.705 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:172 Resp: 106912

Ion Ratio Lower Upper

172 100

171 35.6 28.7 43.1

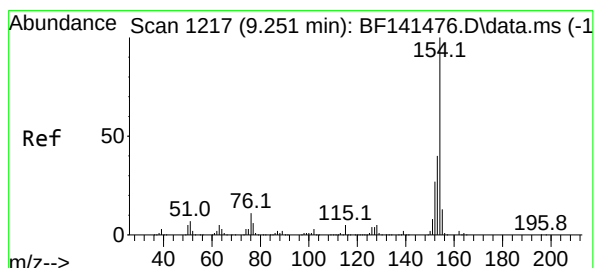
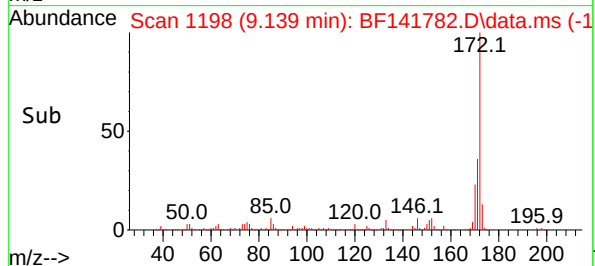
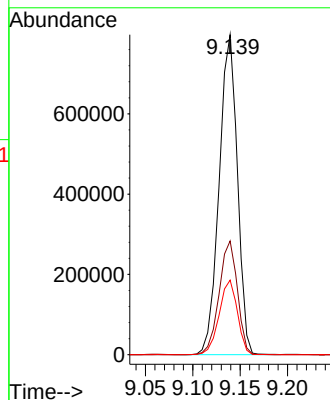
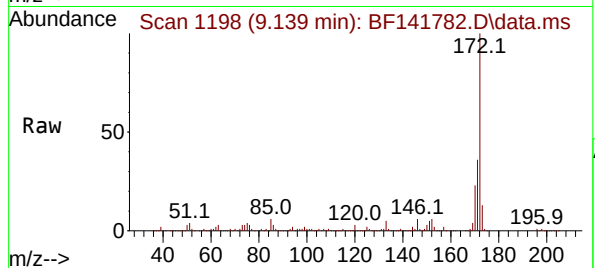
170 23.3 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#46

1,1'-Biphenyl

Concen: 47.858 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

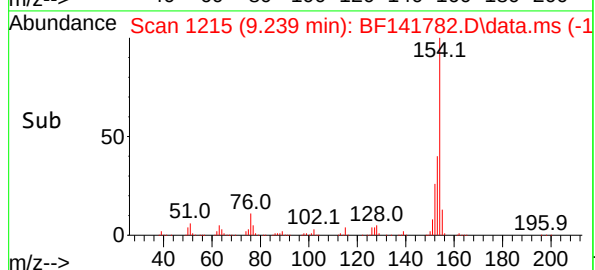
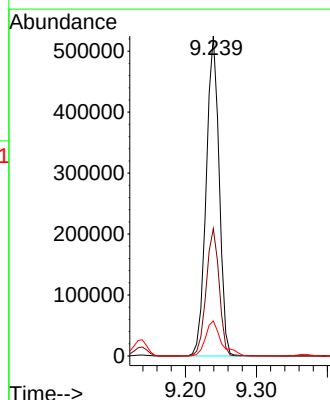
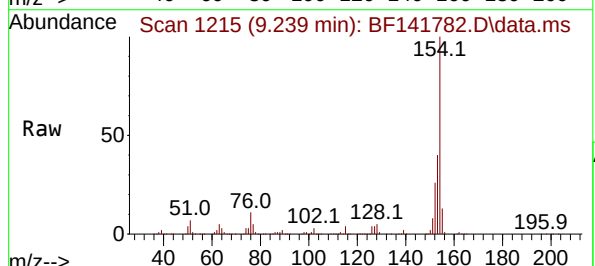
Tgt Ion:154 Resp: 666430

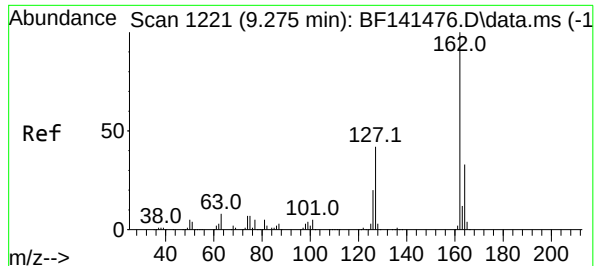
Ion Ratio Lower Upper

154 100

153 39.8 20.4 60.4

76 11.0 0.0 30.8





#47

2-Chloronaphthalene

Concen: 43.579 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:162 Resp: 44873

Ion Ratio Lower Upper

162 100

127 41.8 34.1 51.1

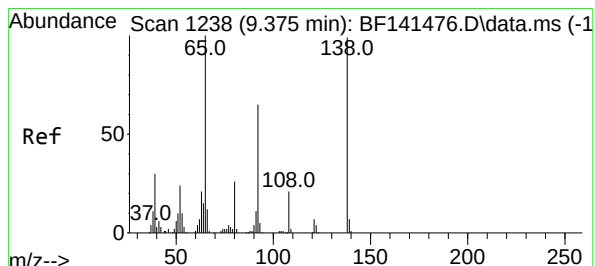
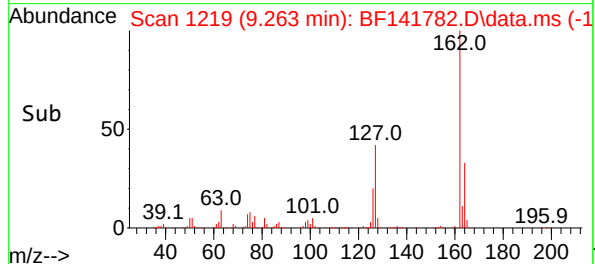
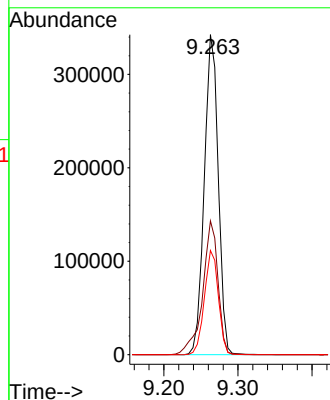
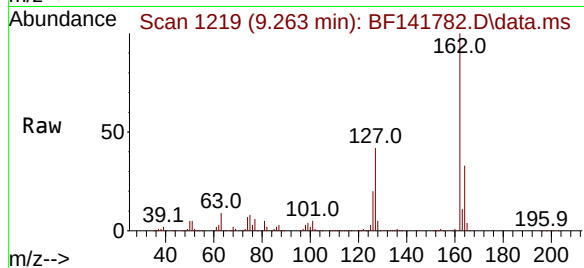
164 32.6 26.3 39.5

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#48

2-Nitroaniline

Concen: 40.518 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

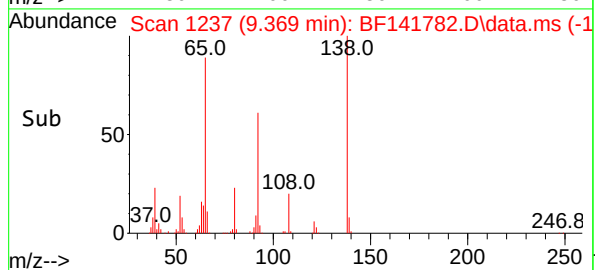
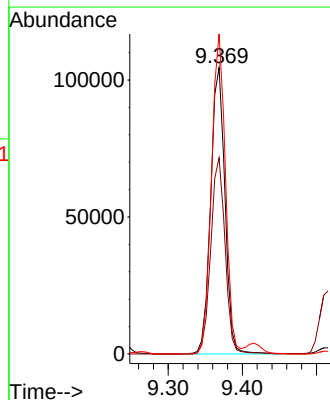
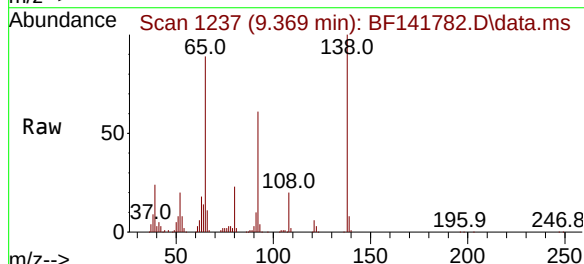
Tgt Ion: 65 Resp: 140021

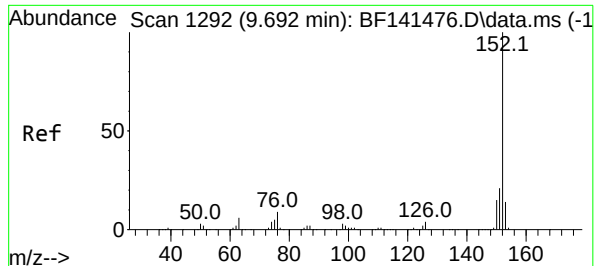
Ion Ratio Lower Upper

65 100

92 68.5 52.2 78.2

138 111.8 79.5 119.3





#49

Acenaphthylene

Concen: 45.120 ng

RT: 9.680 min Scan# 1290

Delta R.T. -0.012 min

Lab File: BF141782.D

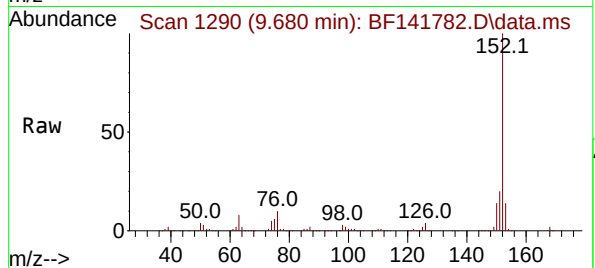
Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

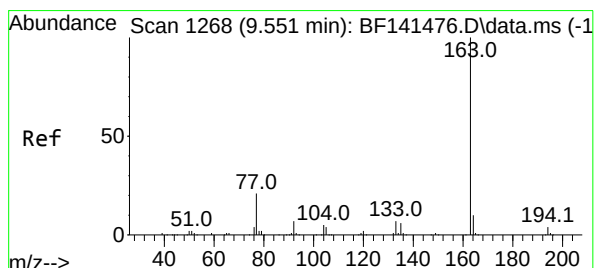
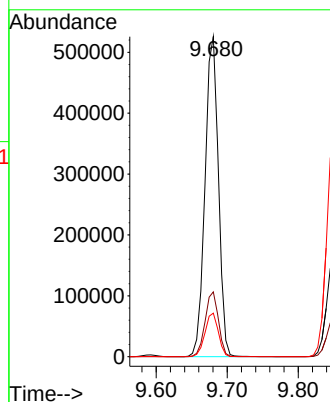
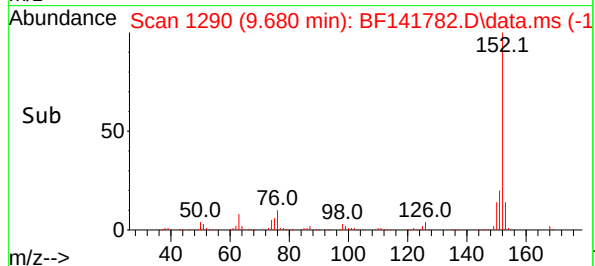


Tgt Ion:152	Resp: 69105
Ion Ratio	Lower Upper
152	100
151	20.2 16.4 24.6
153	13.6 10.9 16.3

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#50

Dimethylphthalate

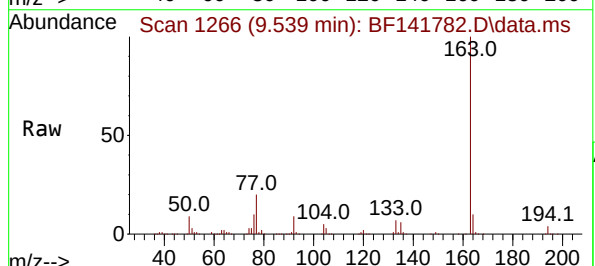
Concen: 44.593 ng

RT: 9.539 min Scan# 1266

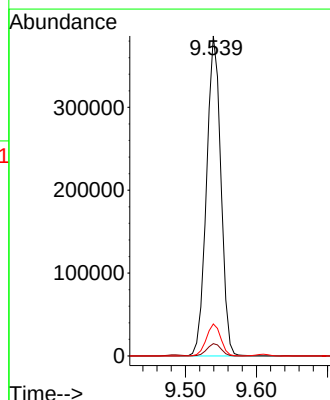
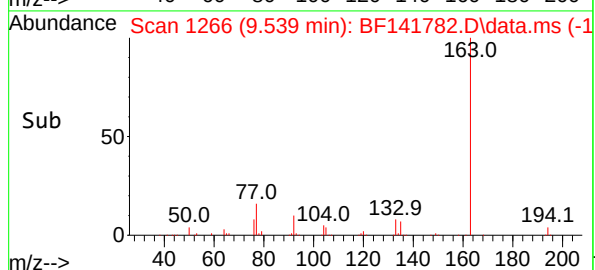
Delta R.T. -0.024 min

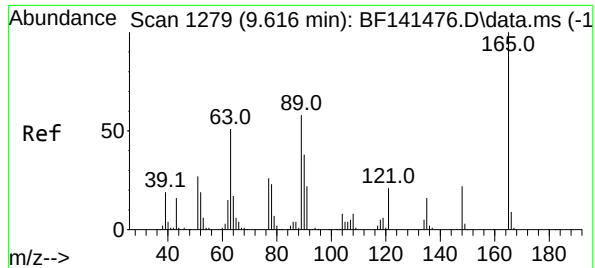
Lab File: BF141782.D

Acq: 26 Feb 2025 14:54



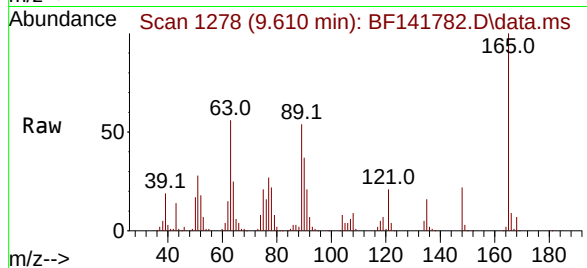
Tgt Ion:163	Resp: 543747
Ion Ratio	Lower Upper
163	100
194	3.8 3.0 4.4
164	10.0 7.9 11.9





#51
2,6-Dinitrotoluene
Concen: 44.247 ng
RT: 9.610 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

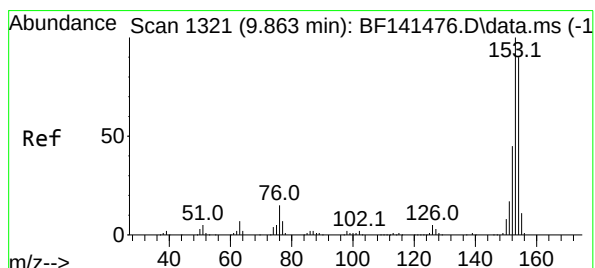
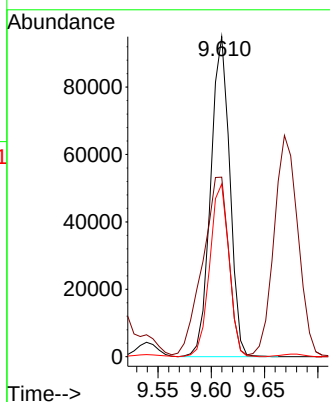
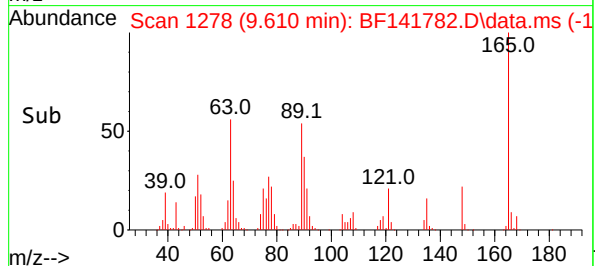
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



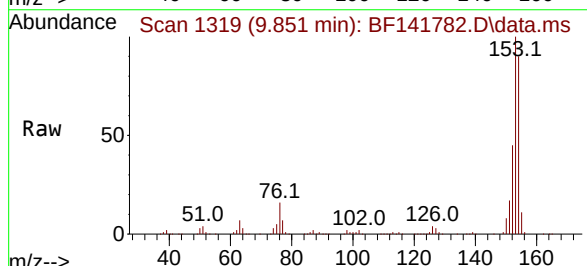
Tgt Ion:165 Resp: 117944
Ion Ratio Lower Upper
165 100
63 56.1 49.4 74.0
89 54.0 46.5 69.7

Manual Integrations
APPROVED

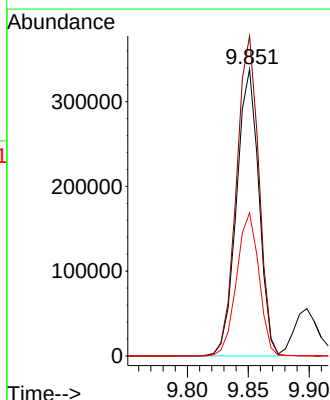
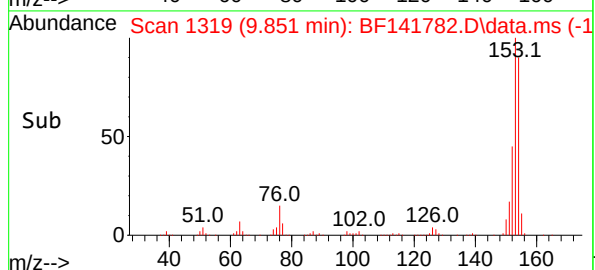
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

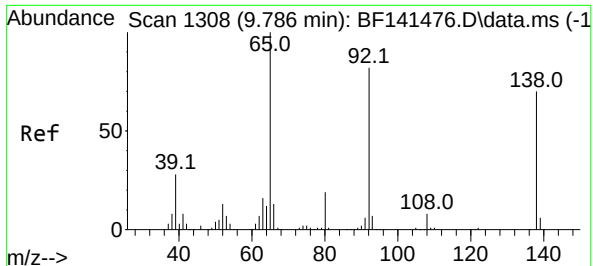


#52
Acenaphthene
Concen: 41.869 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54



Tgt Ion:154 Resp: 431112
Ion Ratio Lower Upper
154 100
153 111.6 89.2 133.8
152 49.9 39.8 59.8





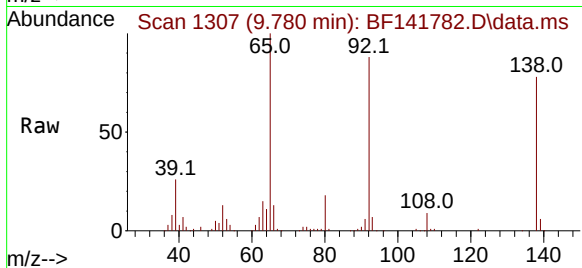
#53
3-Nitroaniline
Concen: 25.378 ng
RT: 9.780 min Scan# 1308
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

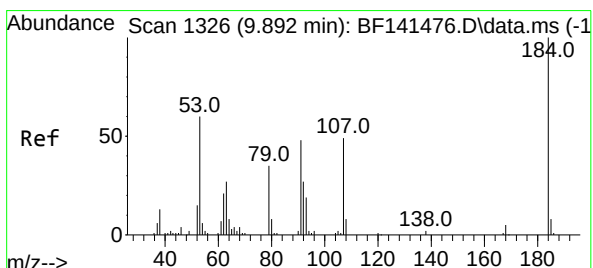
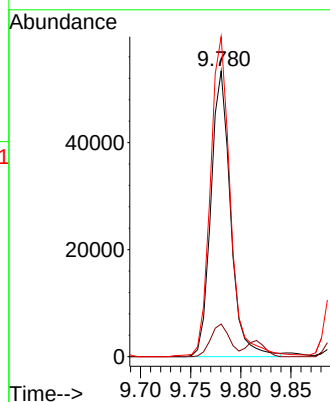
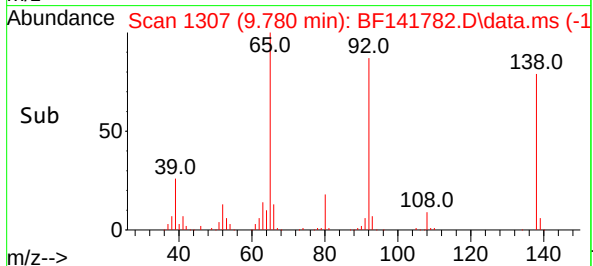


Tgt Ion:138 Resp: 72808
Ion Ratio Lower Upper
138 100
108 11.4 9.0 13.4
92 112.0 93.7 140.5

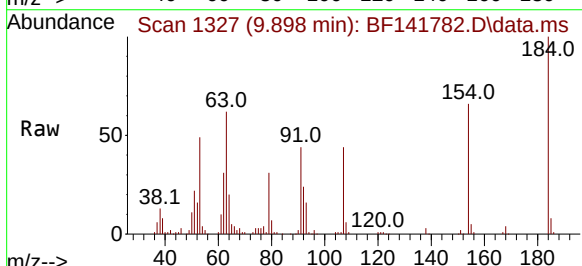
Manual Integrations

APPROVED

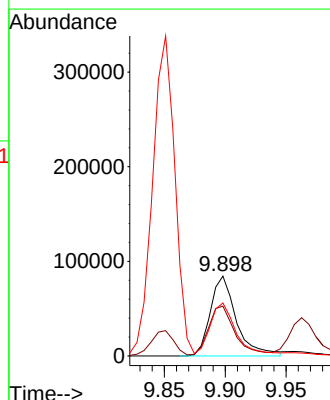
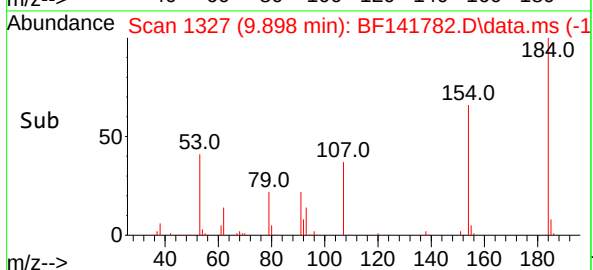
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

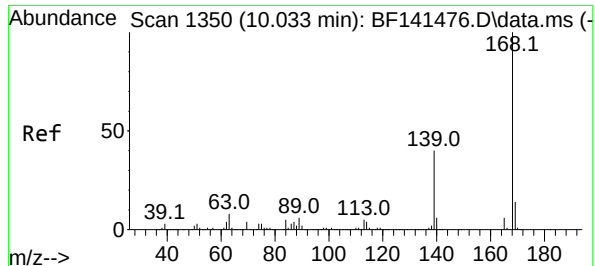


#54
2,4-Dinitrophenol
Concen: 79.020 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54



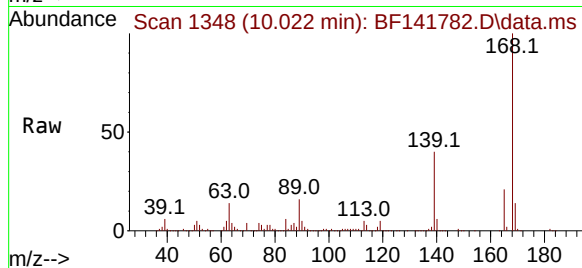
Tgt Ion:184 Resp: 125185
Ion Ratio Lower Upper
184 100
63 62.3 61.0 91.6
154 66.4 59.9 89.9





#55
Dibenzenofuran
Concen: 41.429 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

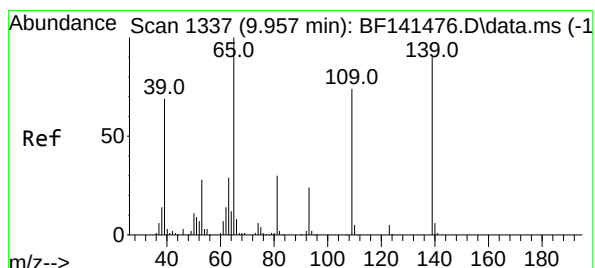
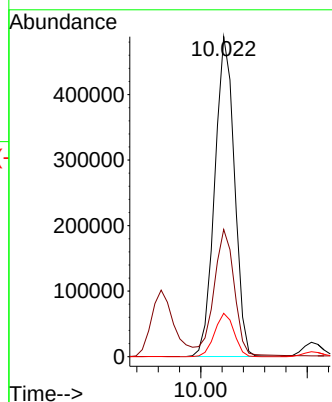
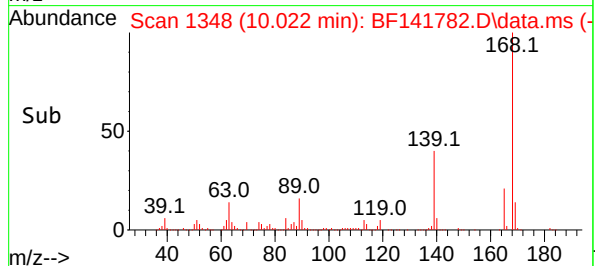
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:168 Resp: 62614
Ion Ratio Lower Upper
168 100
139 39.7 32.7 49.1
169 13.6 10.8 16.2

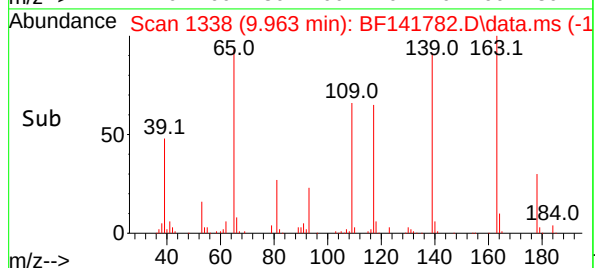
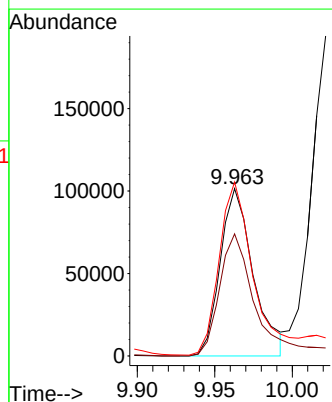
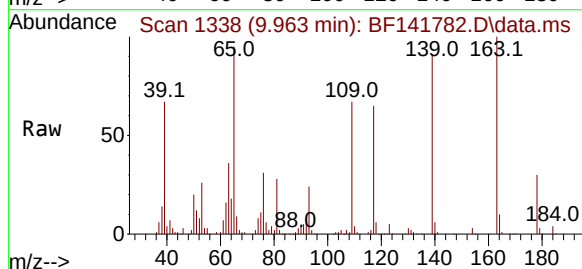
Manual Integrations
APPROVED

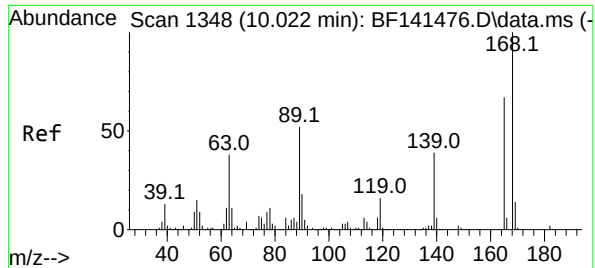
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#56
4-Nitrophenol
Concen: 70.610 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

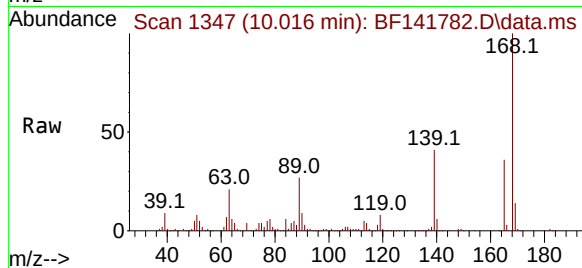
Tgt Ion:139 Resp: 150379
Ion Ratio Lower Upper
139 100
109 72.9 62.0 102.0
65 103.9 91.2 131.2





#57
2,4-Dinitrotoluene
Concen: 44.829 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

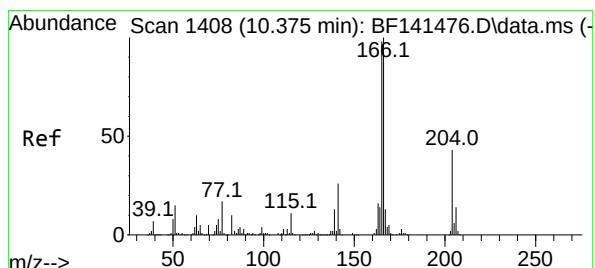
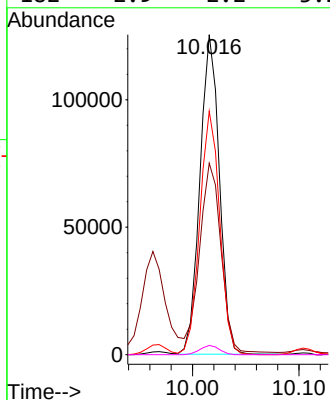
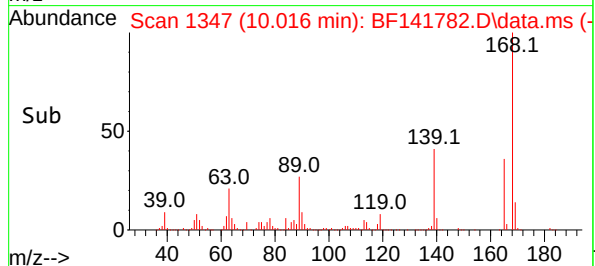
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:165 Resp: 15907
Ion Ratio Lower Upper
165 100
63 59.9 46.4 69.6
89 76.1 61.8 92.6
182 2.9 2.2 3.2

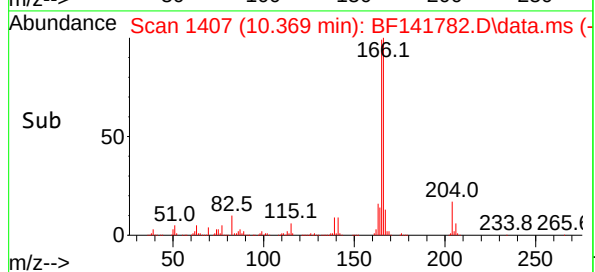
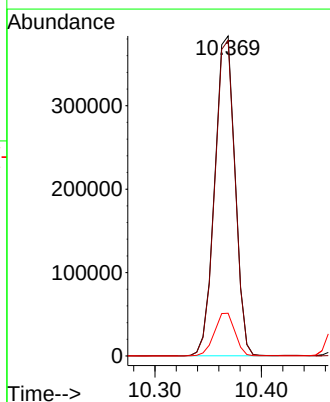
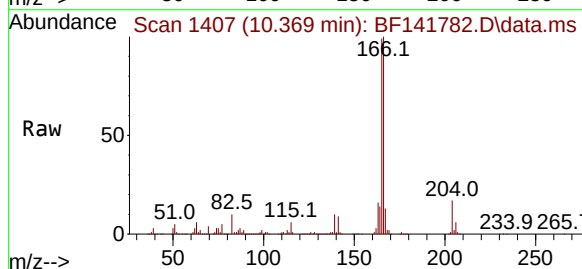
Manual Integrations
APPROVED

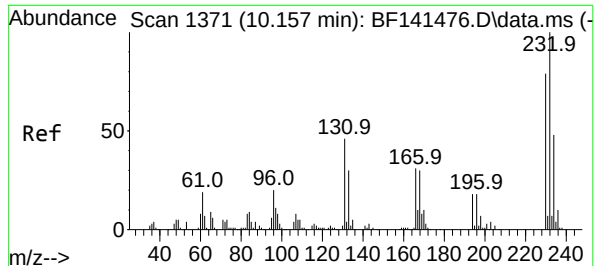
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#58
Fluorene
Concen: 43.380 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

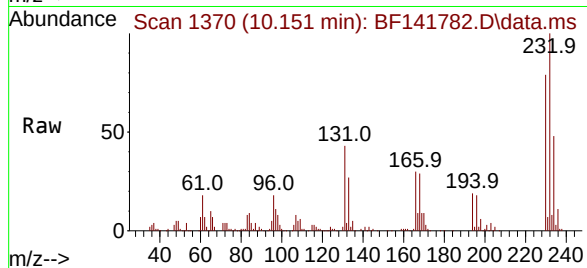
Tgt Ion:166 Resp: 506938
Ion Ratio Lower Upper
166 100
165 98.6 78.2 117.2
167 13.4 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 41.300 ng
RT: 10.151 min Scan# 1371
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

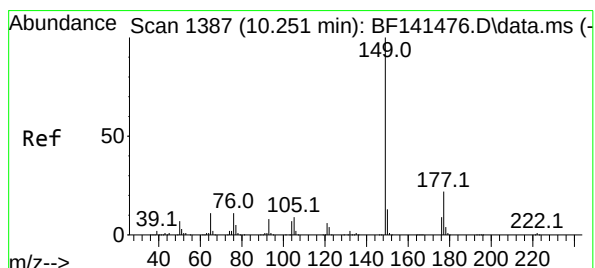
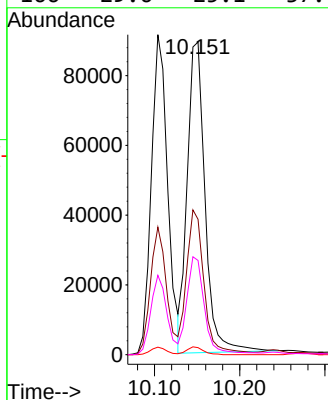
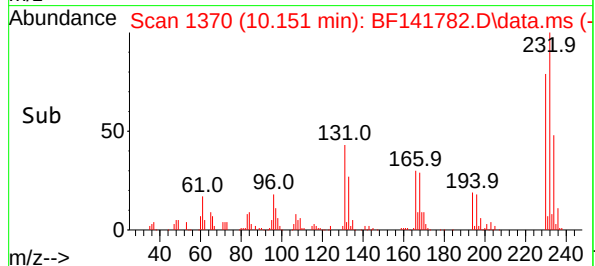
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:232 Resp: 12942
Ion Ratio Lower Upper
232 100
131 45.3 39.2 58.8
130 2.4 2.1 3.1
166 29.6 25.1 37.7

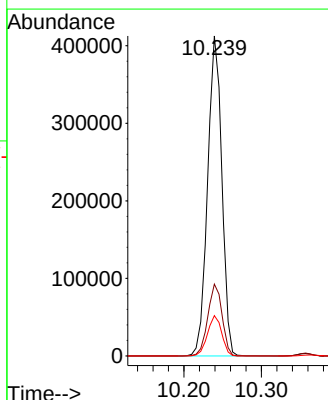
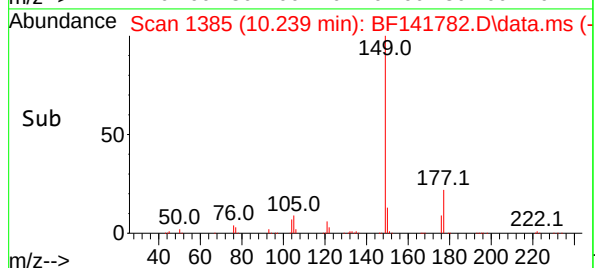
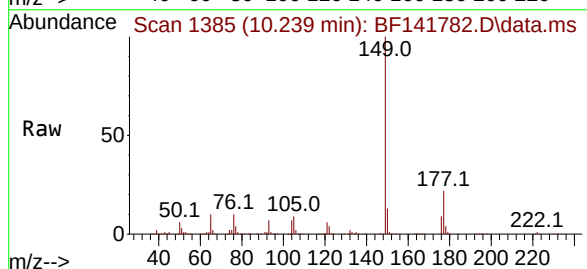
Manual Integrations
APPROVED

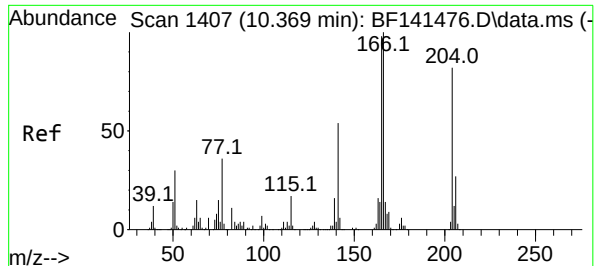
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#60
Diethylphthalate
Concen: 43.813 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

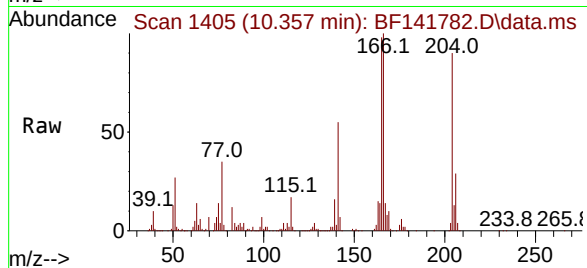
Tgt Ion:149 Resp: 525621
Ion Ratio Lower Upper
149 100
177 22.4 17.8 26.6
150 12.6 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 44.444 ng
RT: 10.357 min Scan# 1405
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

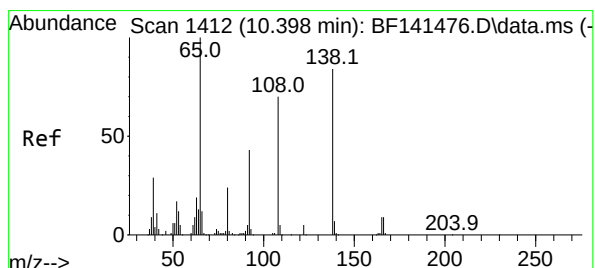
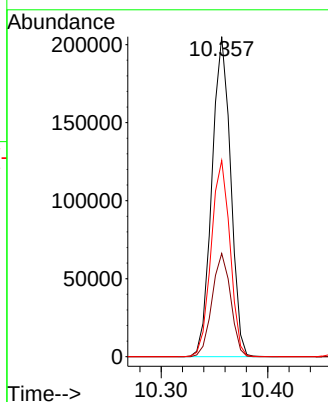
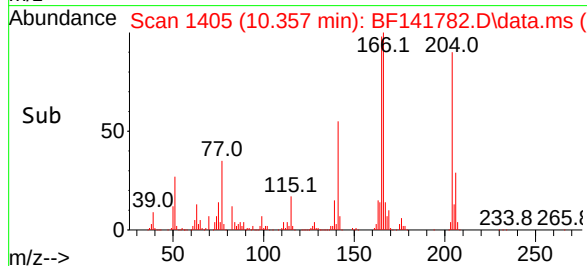
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:204 Resp: 249862
Ion Ratio Lower Upper
204 100
206 32.2 26.6 40.0
141 61.3 51.9 77.9

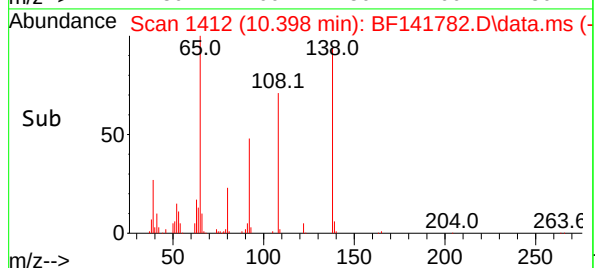
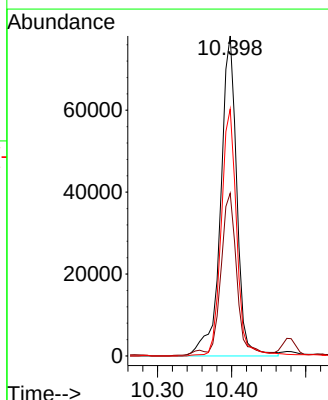
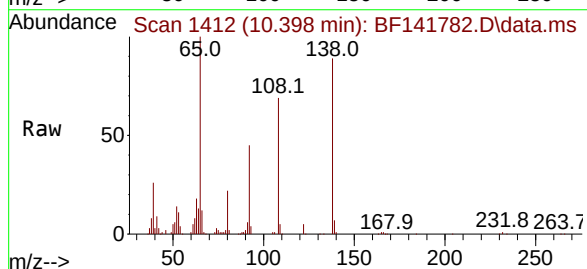
Manual Integrations
APPROVED

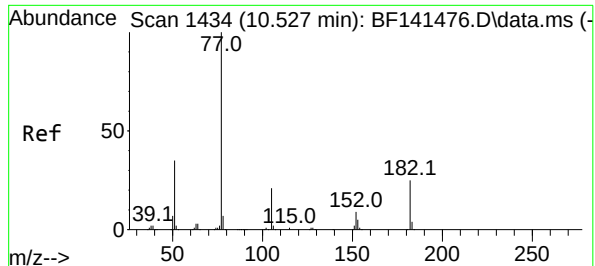
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#62
4-Nitroaniline
Concen: 40.776 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

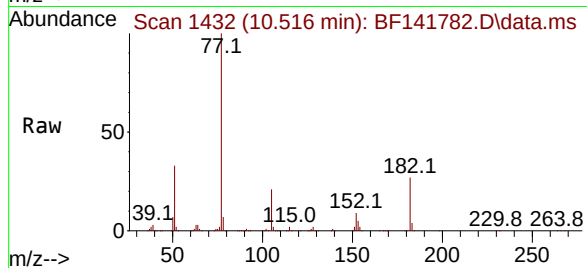
Tgt Ion:138 Resp: 118787
Ion Ratio Lower Upper
138 100
92 50.9 31.3 71.3
108 77.2 63.7 103.7





#63
Azobenzene
Concen: 41.169 ng
RT: 10.516 min Scan# 1434
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

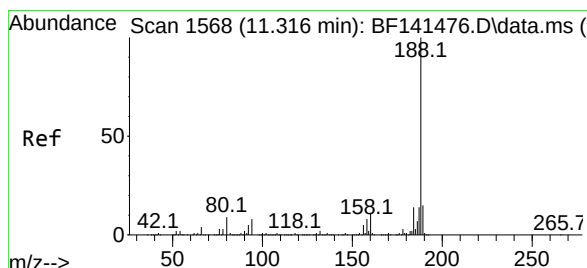
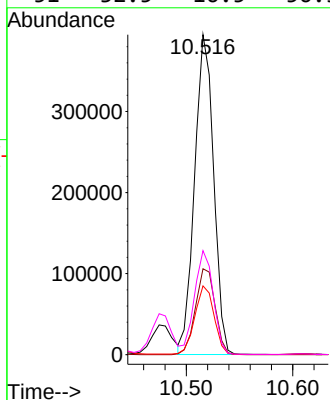
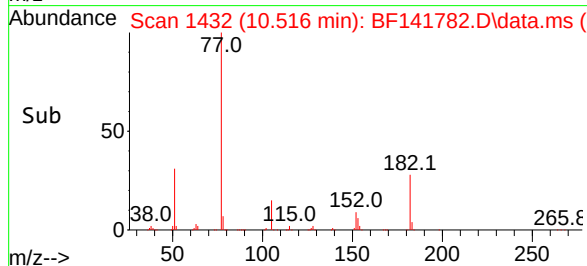
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



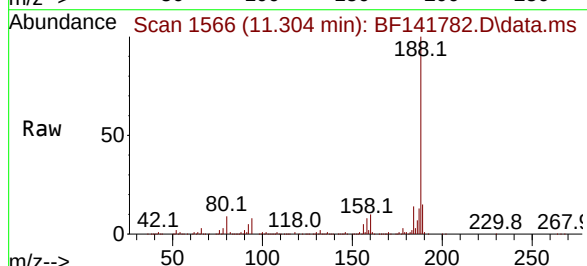
Tgt Ion: 77 Resp: 491009
Ion Ratio Lower Upper
77 100
182 26.9 4.7 44.7
105 21.5 0.4 40.4
51 32.5 16.5 56.5

Manual Integrations
APPROVED

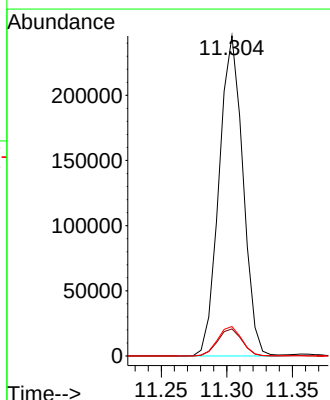
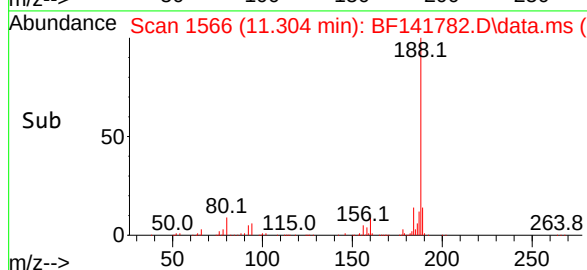
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

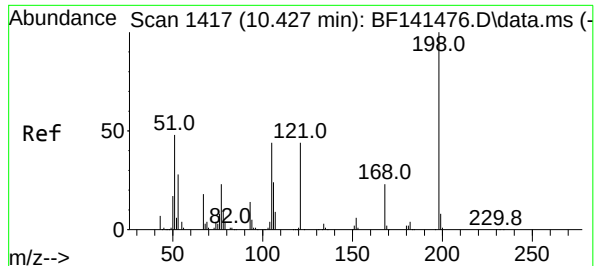


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54



Tgt Ion:188 Resp: 311091
Ion Ratio Lower Upper
188 100
94 8.5 6.6 10.0
80 9.2 7.3 10.9





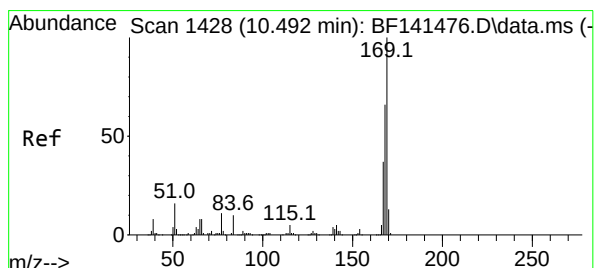
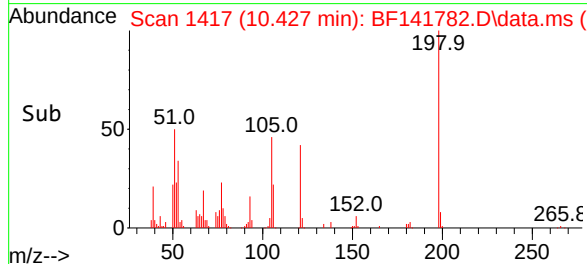
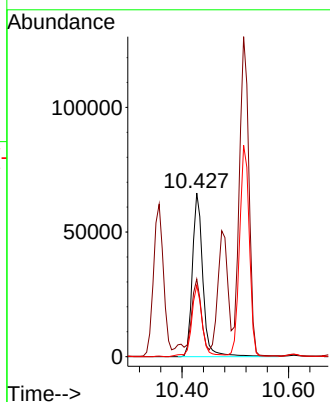
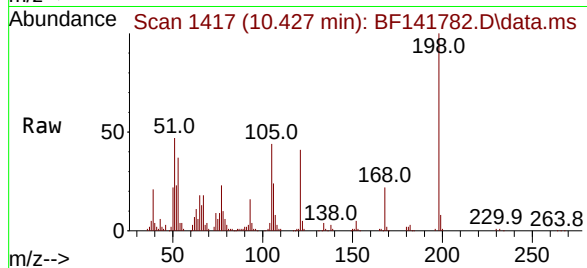
#65
4,6-Dinitro-2-methylphenol
Concen: 41.475 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Tgt Ion:198 Resp: 8962
Ion Ratio Lower Upper
198 100
51 47.4 37.4 77.4
105 43.5 25.2 65.2

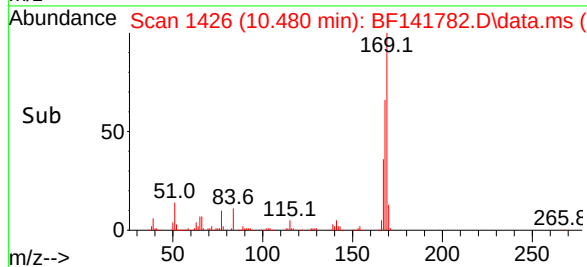
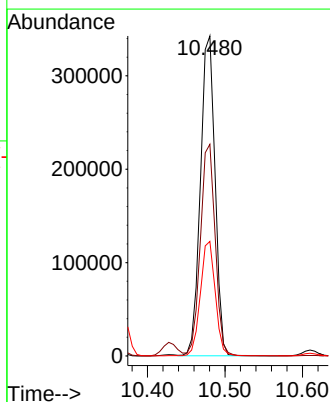
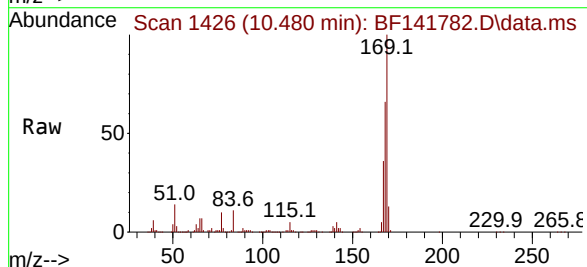
Manual Integrations
APPROVED

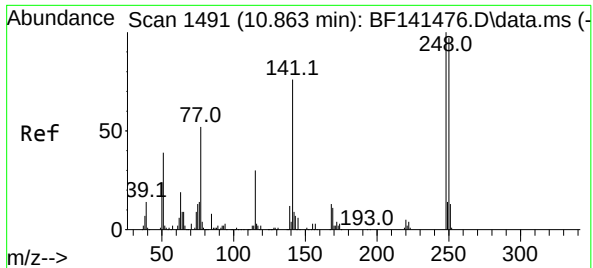
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#66
n-Nitrosodiphenylamine
Concen: 45.057 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

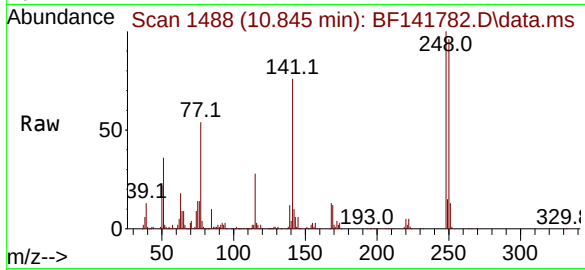
Tgt Ion:169 Resp: 448690
Ion Ratio Lower Upper
169 100
168 66.1 53.3 79.9
167 35.8 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 45.359 ng
RT: 10.845 min Scan# 1491
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

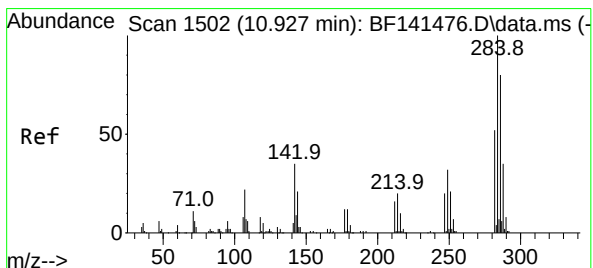
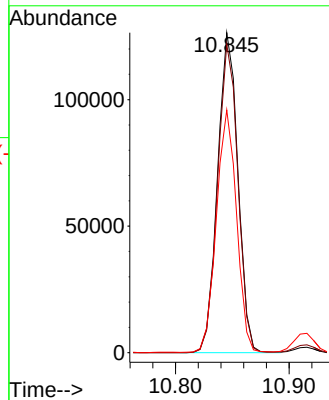
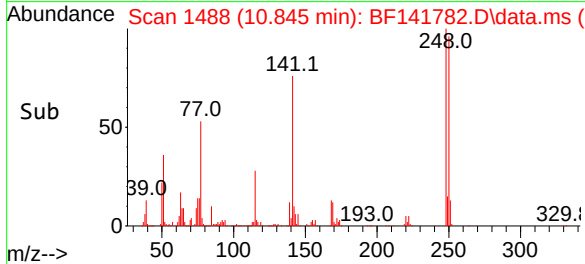
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:248 Resp: 157700
Ion Ratio Lower Upper
248 100
250 96.4 77.8 116.6
141 75.9 60.6 90.8

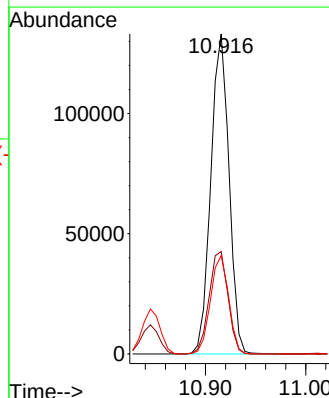
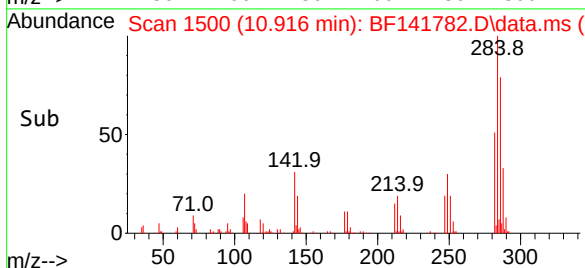
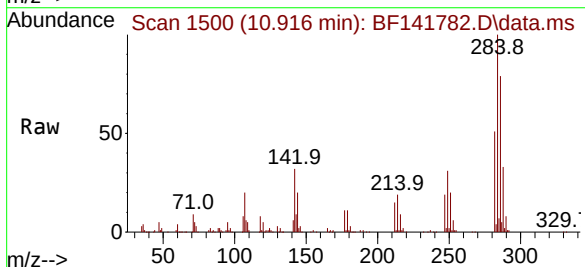
Manual Integrations
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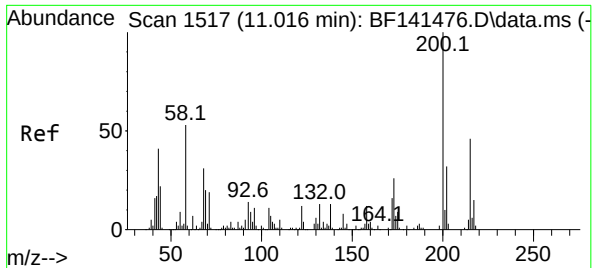
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#68
Hexachlorobenzene
Concen: 46.682 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Tgt Ion:284 Resp: 167133
Ion Ratio Lower Upper
284 100
142 32.0 28.0 42.0
249 30.7 25.8 38.8





#69

Atrazine

Concen: 58.720 ng

RT: 11.010 min Scan# 1517

Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

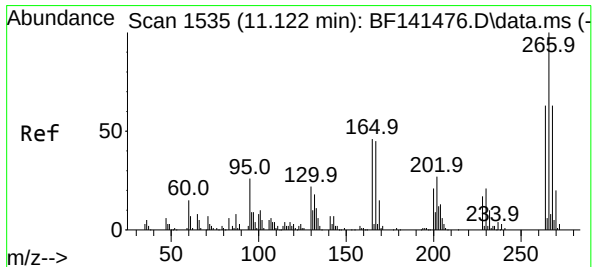
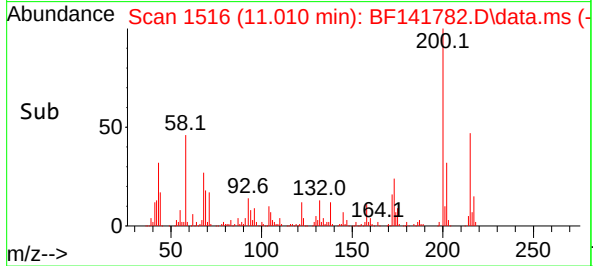
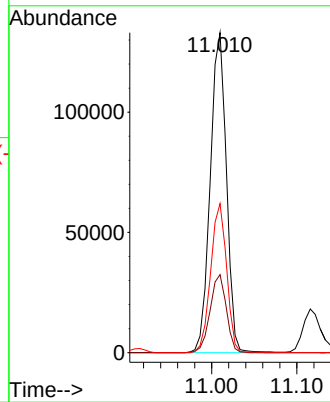
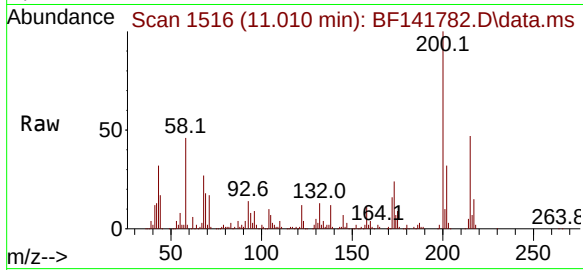
PB166875BSD

Tgt Ion:	200	Resp:	175420
Ion Ratio	Lower	Upper	
200	100		
173	24.4	5.9	45.9
215	46.6	25.9	65.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#70

Pentachlorophenol

Concen: 70.319 ng

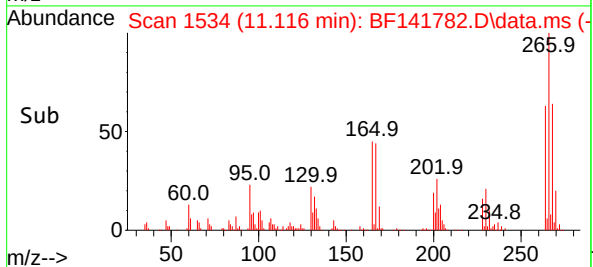
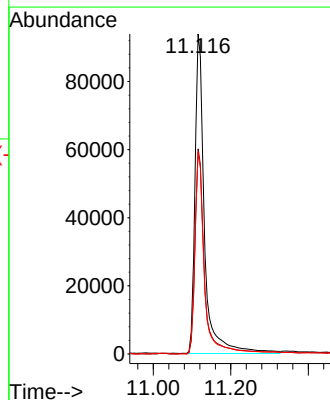
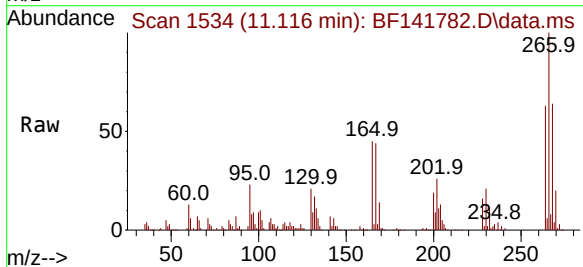
RT: 11.116 min Scan# 1534

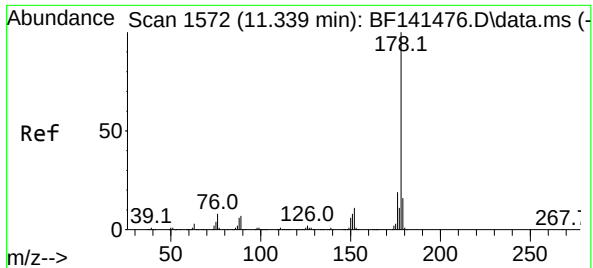
Delta R.T. -0.012 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Tgt Ion:	266	Resp:	160978
Ion Ratio	Lower	Upper	
266	100		
268	64.1	50.1	75.1
264	63.1	50.1	75.1





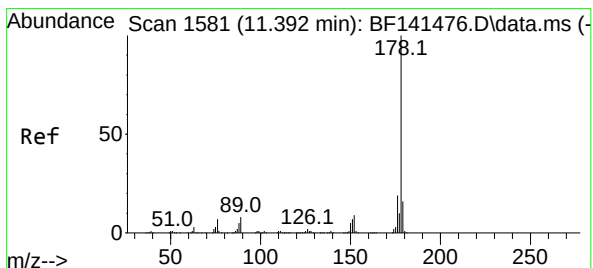
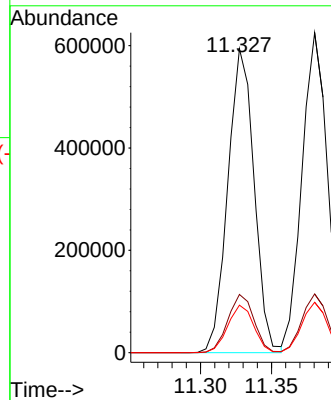
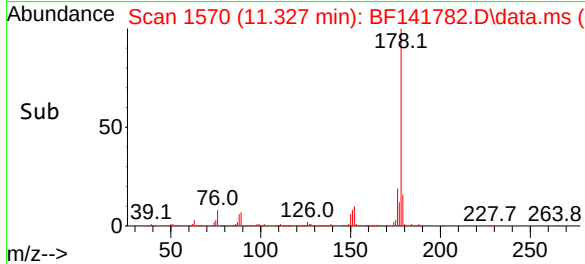
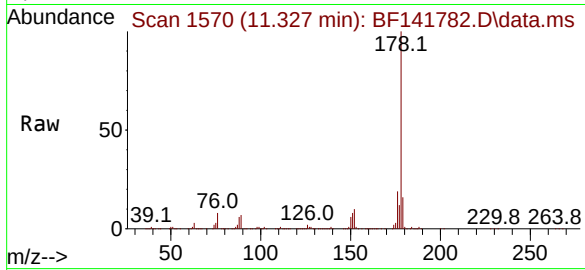
#71
Phenanthrene
Concen: 44.668 ng
RT: 11.327 min Scan# 1572
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

Instrument :
BNA_F
ClientSampleId :
PB166875BSD

Tgt Ion:178 Resp: 76490
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.6 12.4 18.6

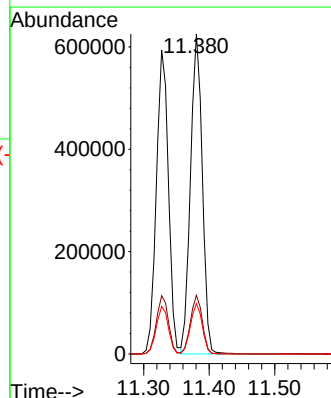
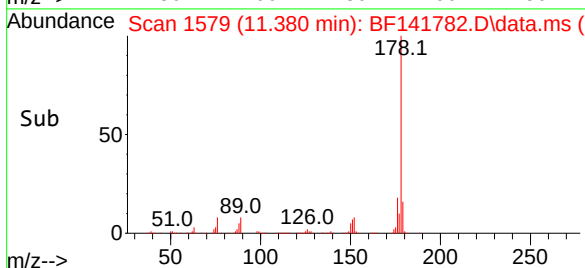
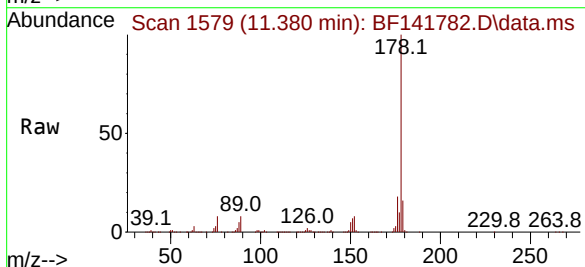
Manual Integrations
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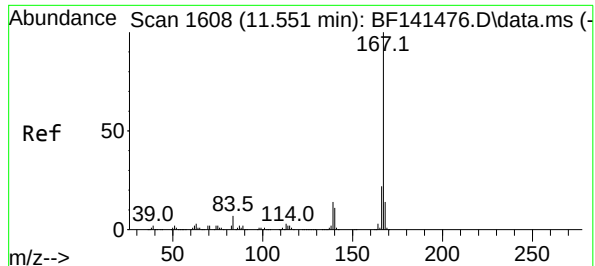
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#72
Anthracene
Concen: 45.331 ng
RT: 11.380 min Scan# 1579
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

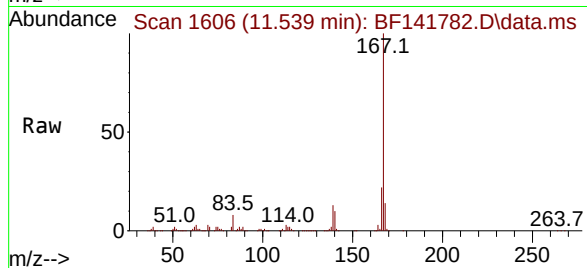
Tgt Ion:178 Resp: 780326
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 15.8 12.4 18.6





#73
 Carbazole
 Concen: 43.299 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141782.D
 Acq: 26 Feb 2025 14:54

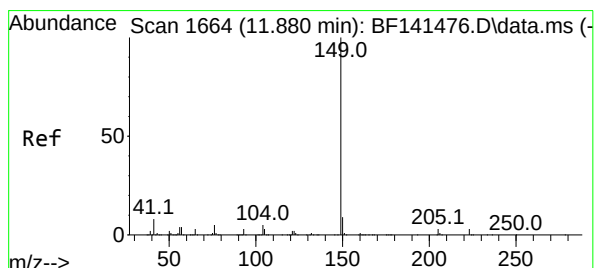
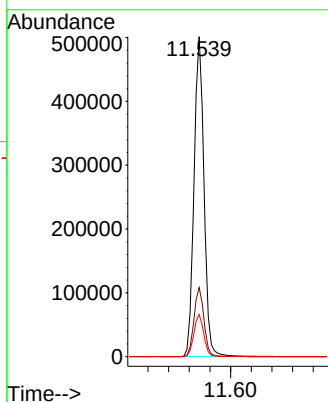
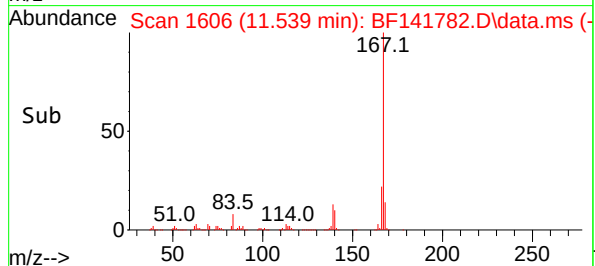
Instrument :
 BNA_F
 ClientSampleId :
 PB166875BSD



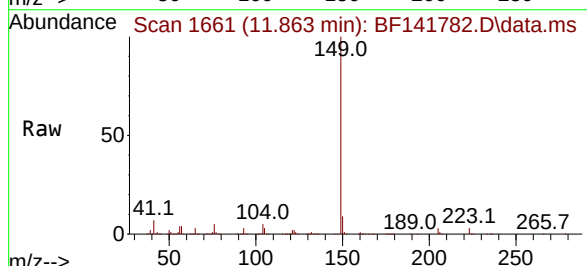
Tgt Ion:167 Resp: 670650
 Ion Ratio Lower Upper
 167 100
 166 21.6 17.4 26.2
 139 13.1 10.9 16.3

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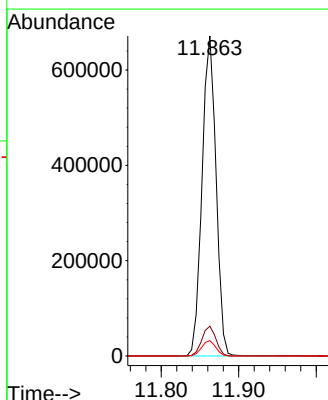
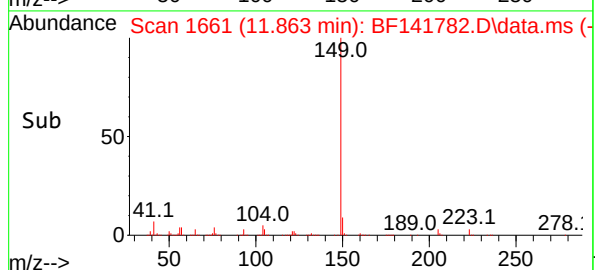
Reviewed By :Anahy Claudio 02/27/2025
 Supervised By :Jagrut Upadhyay 02/27/2025

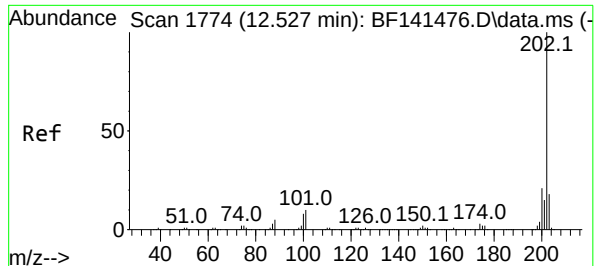


#74
 Di-n-butylphthalate
 Concen: 46.995 ng
 RT: 11.863 min Scan# 1661
 Delta R.T. -0.018 min
 Lab File: BF141782.D
 Acq: 26 Feb 2025 14:54



Tgt Ion:149 Resp: 840484
 Ion Ratio Lower Upper
 149 100
 150 9.3 7.4 11.0
 104 4.8 4.2 6.2





#75

Fluoranthene

Concen: 42.765 ng

RT: 12.516 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:202 Resp: 776404

Ion Ratio Lower Upper

202 100

101 10.6 0.0 30.2

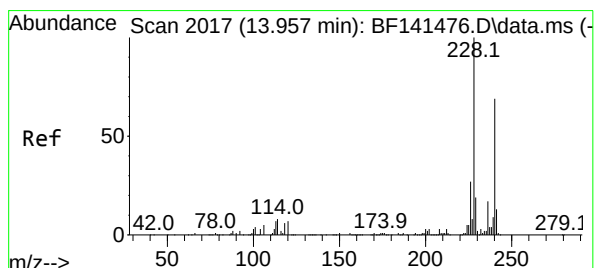
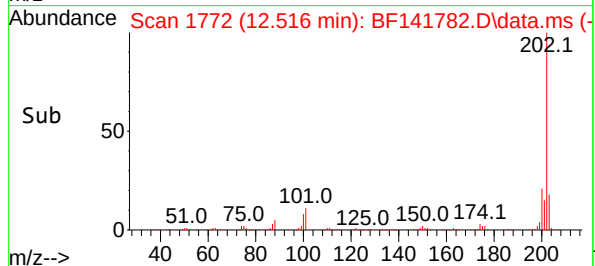
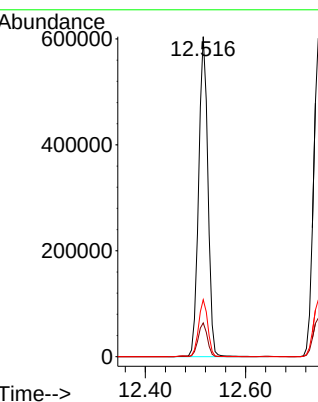
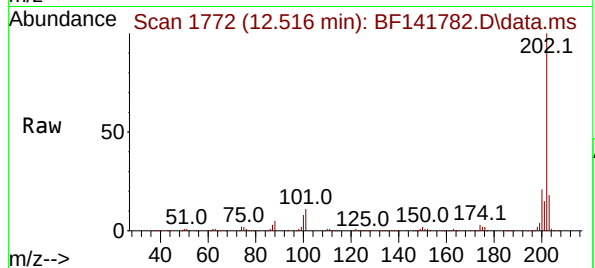
203 17.8 0.0 37.6

Manual Integrations

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Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 2015

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

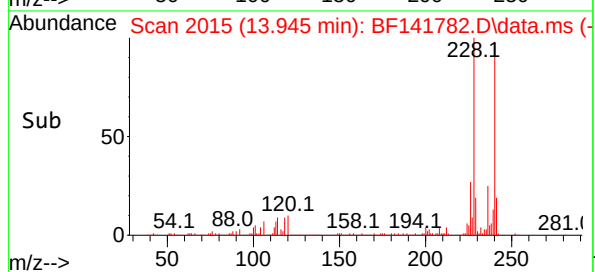
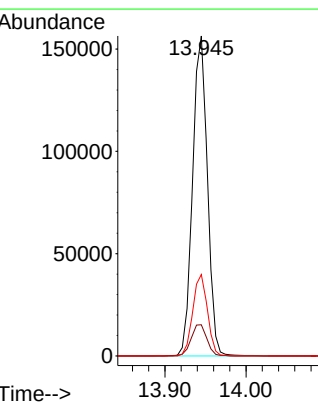
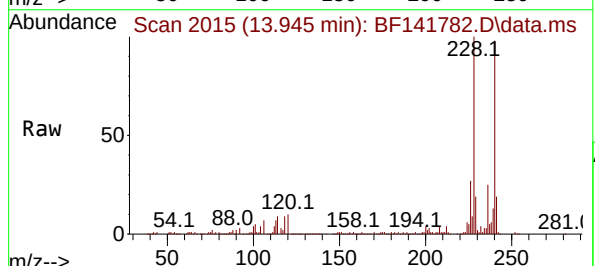
Tgt Ion:240 Resp: 197944

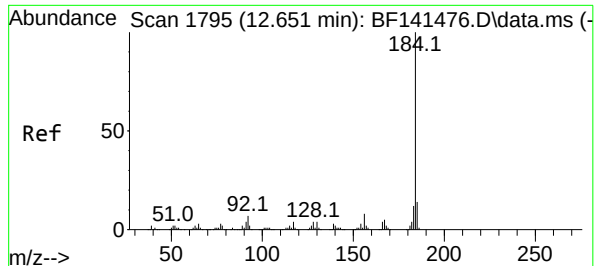
Ion Ratio Lower Upper

240 100

120 9.8 8.0 12.0

236 25.5 19.8 29.8





#77

Benzidine

Concen: 51.285 ng

RT: 12.639 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:184 Resp: 22388

Ion Ratio Lower Upper

184 100

185 14.7 11.3 16.9

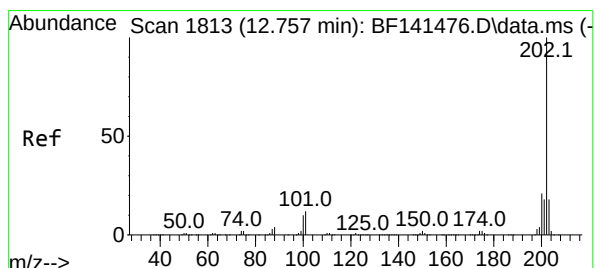
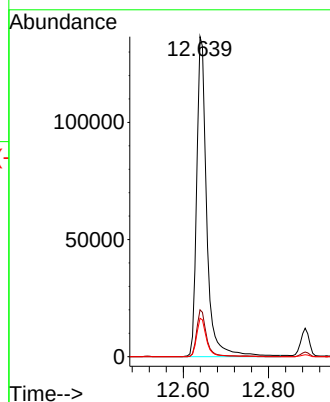
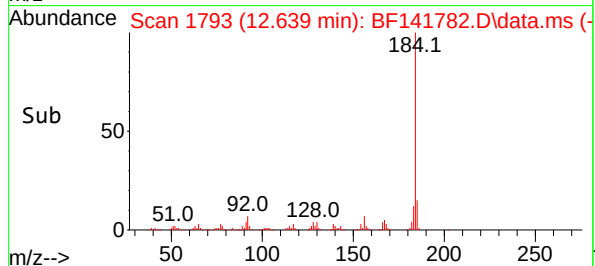
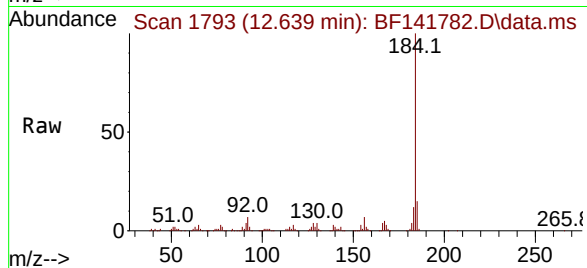
183 12.0 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#78

Pyrene

Concen: 46.095 ng

RT: 12.745 min Scan# 1811

Delta R.T. -0.018 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

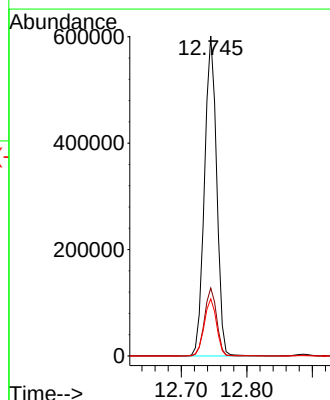
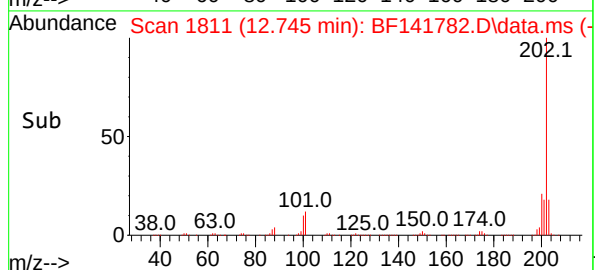
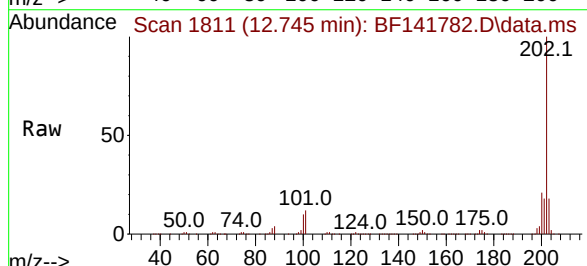
Tgt Ion:202 Resp: 776713

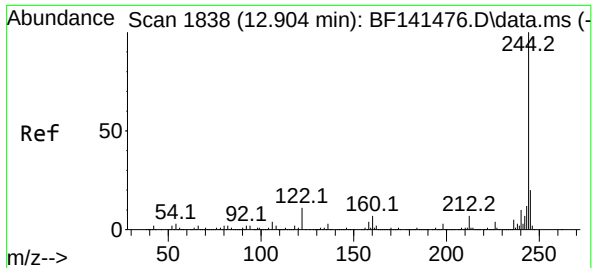
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.4

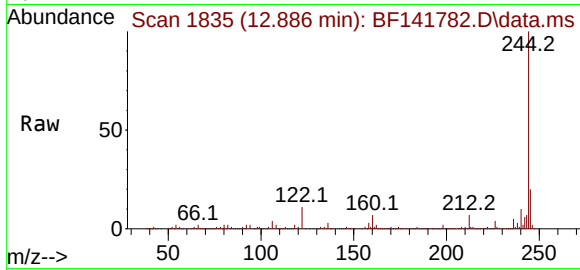
203 17.8 14.3 21.5





#79
Terphenyl-d14
Concen: 105.602 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

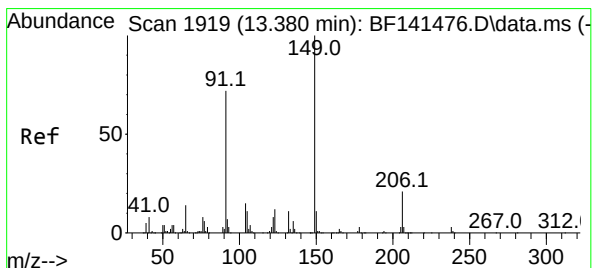
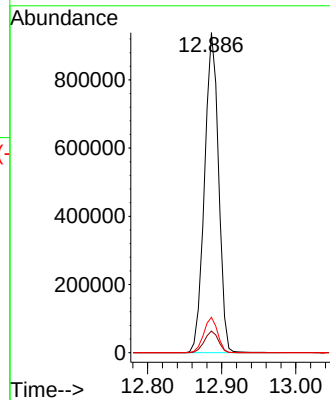
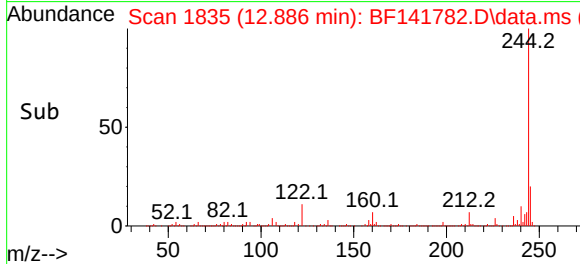
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



Tgt Ion:244 Resp: 1238225
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 11.0 8.4 12.6

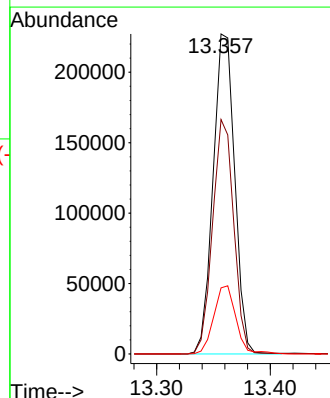
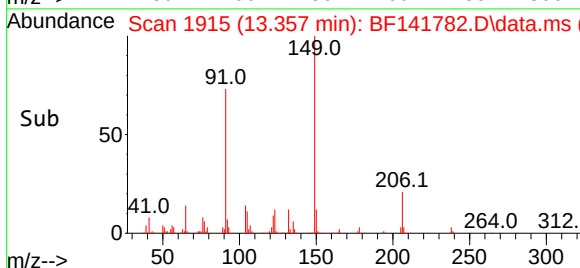
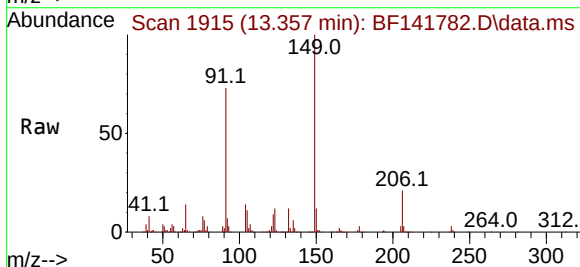
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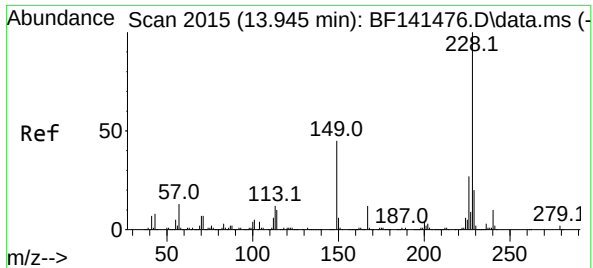
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025



#80
Butylbenzylphthalate
Concen: 51.531 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.024 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

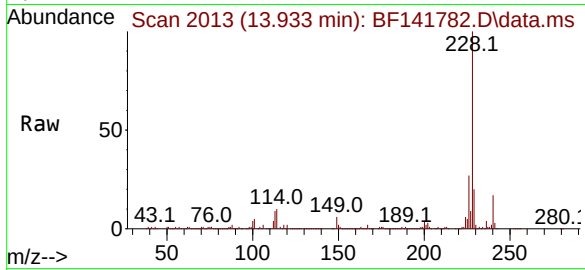
Tgt Ion:149 Resp: 300758
Ion Ratio Lower Upper
149 100
91 73.3 57.8 86.8
206 20.7 16.7 25.1





#81
Benzo(a)anthracene
Concen: 45.073 ng
RT: 13.933 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

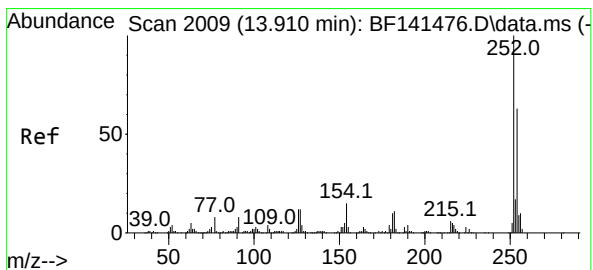
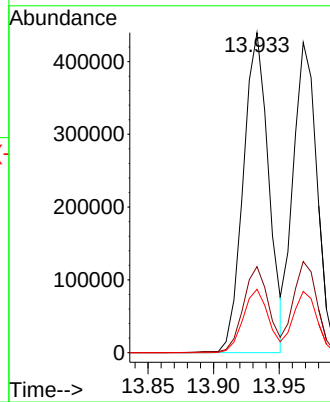
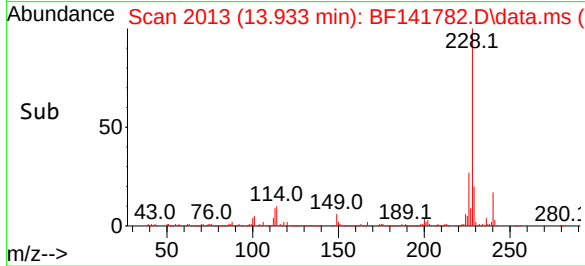
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



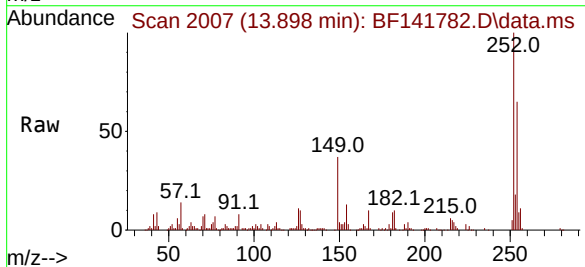
Tgt Ion:228 Resp: 593072
Ion Ratio Lower Upper
228 100
226 26.9 21.8 32.8
229 19.8 15.8 23.6

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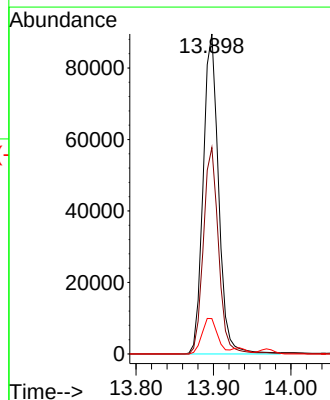
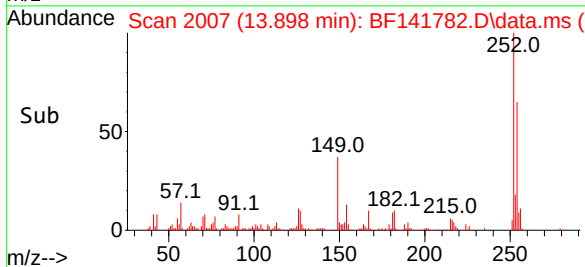
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

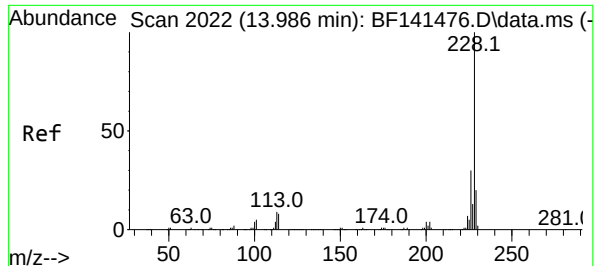


#82
3,3'-Dichlorobenzidine
Concen: 32.776 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.018 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54



Tgt Ion:252 Resp: 123538
Ion Ratio Lower Upper
252 100
254 64.5 50.6 76.0
126 11.0 9.3 13.9





#83

Chrysene

Concen: 44.411 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.023 min

Lab File: BF141782.D

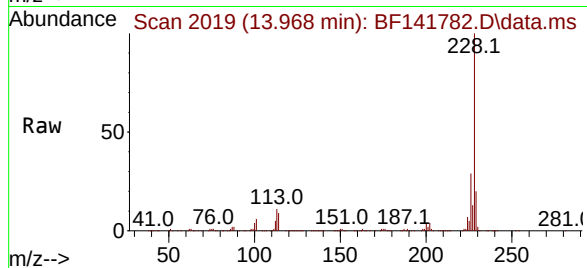
Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD



Tgt Ion:228 Resp: 539560

Ion Ratio Lower Upper

228 100

226 29.4 24.0 36.0

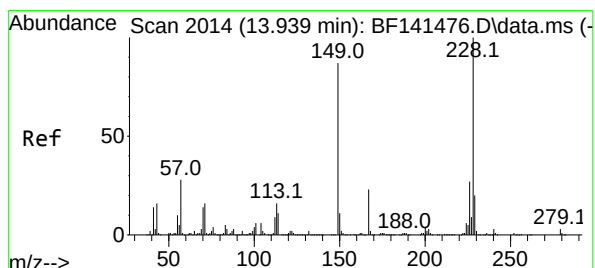
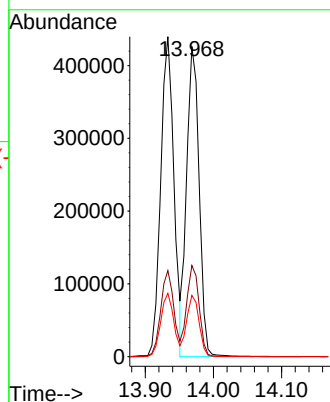
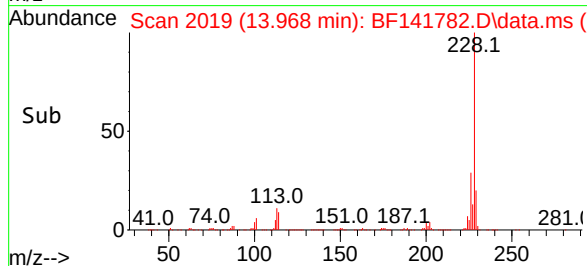
229 19.8 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#84

Bis(2-ethylhexyl)phthalate

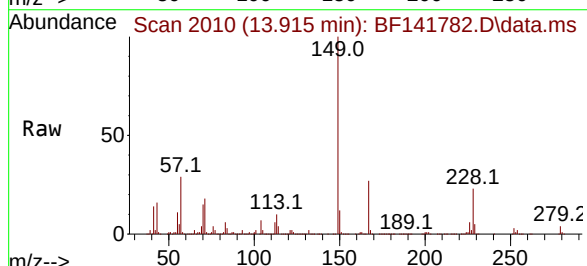
Concen: 58.750 ng

RT: 13.915 min Scan# 2010

Delta R.T. -0.024 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54



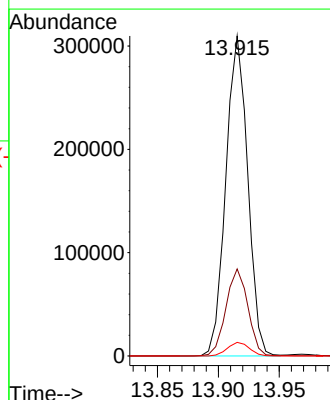
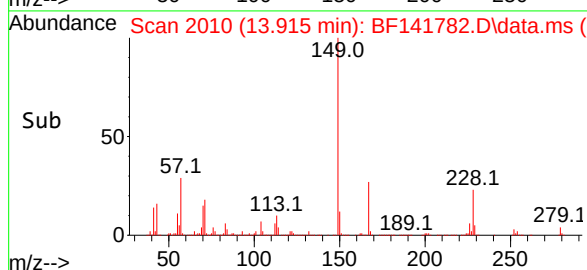
Tgt Ion:149 Resp: 386733

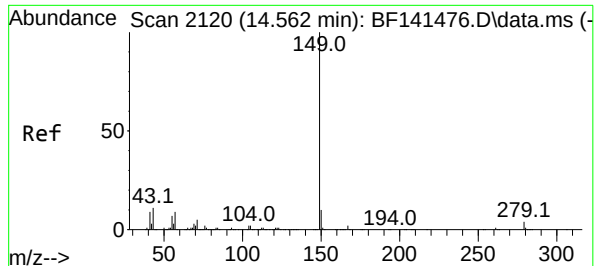
Ion Ratio Lower Upper

149 100

167 27.2 21.4 32.0

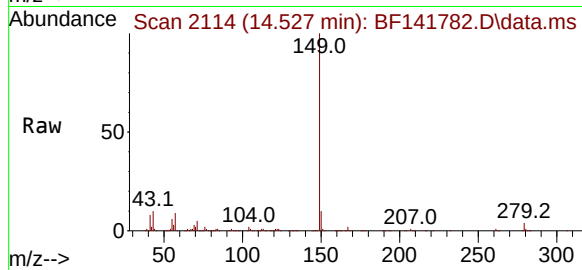
279 4.2 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 59.569 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54

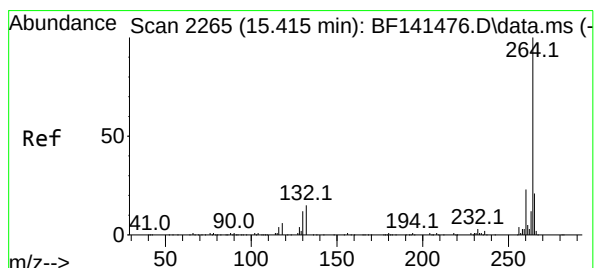
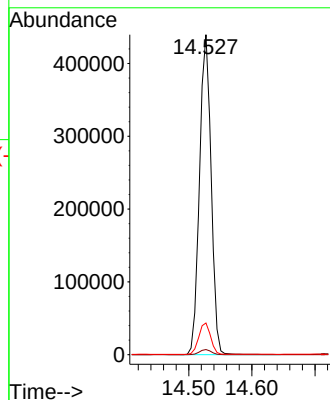
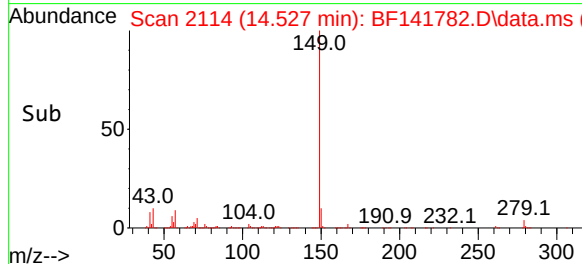
Instrument :
BNA_F
ClientSampleId :
PB166875BSD



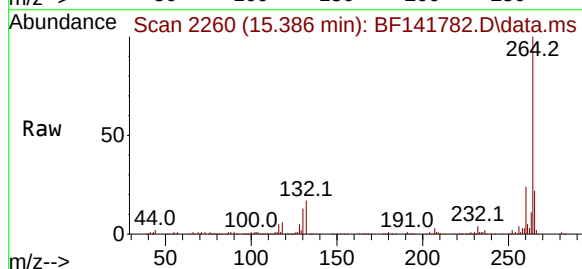
Tgt Ion:149 Resp: 559390
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 10.0 9.5 14.3

Manual Integrations
APPROVED

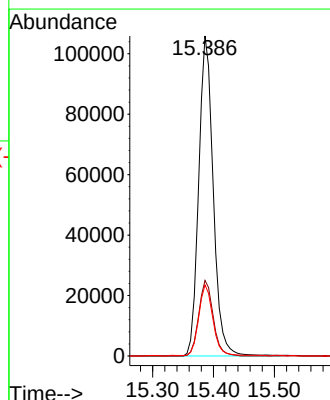
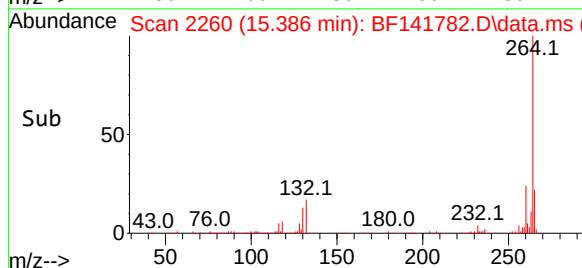
Reviewed By :Anahy Claudio 02/27/2025
Supervised By :Jagrut Upadhyay 02/27/2025

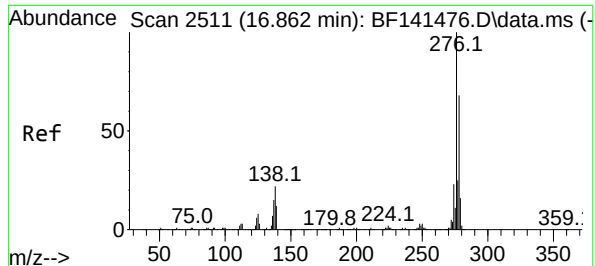


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141782.D
Acq: 26 Feb 2025 14:54



Tgt Ion:264 Resp: 175575
Ion Ratio Lower Upper
264 100
260 23.6 18.6 28.0
265 22.2 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 49.050 ng

RT: 16.833 min Scan# 2189

Delta R.T. -0.041 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:276 Resp: 532120

Ion Ratio Lower Upper

276 100

138 23.3 18.0 27.0

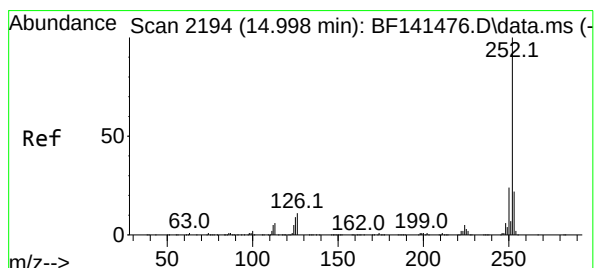
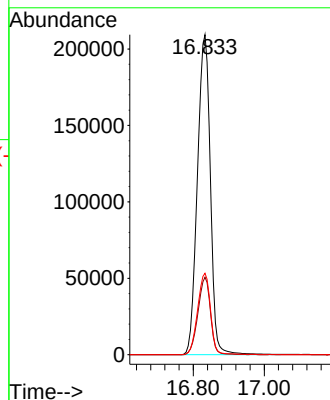
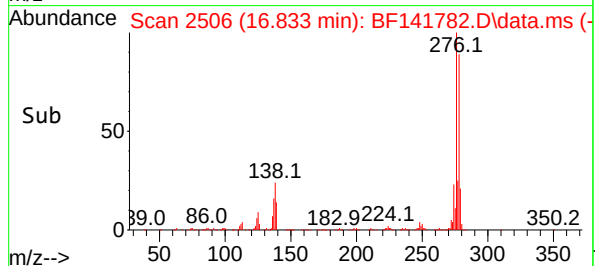
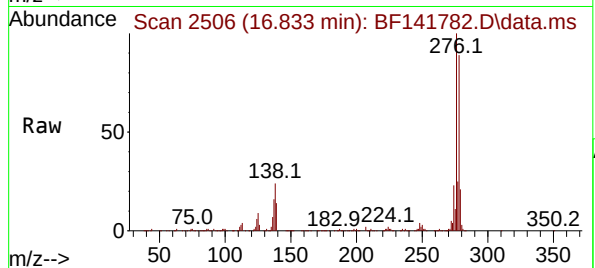
277 25.3 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#88

Benzo(b)fluoranthene

Concen: 44.938 ng

RT: 14.968 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

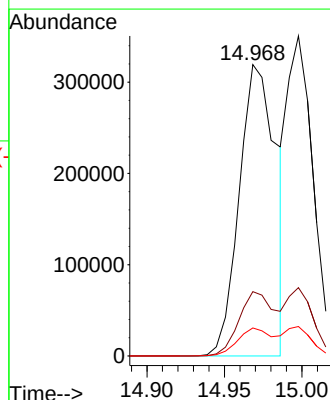
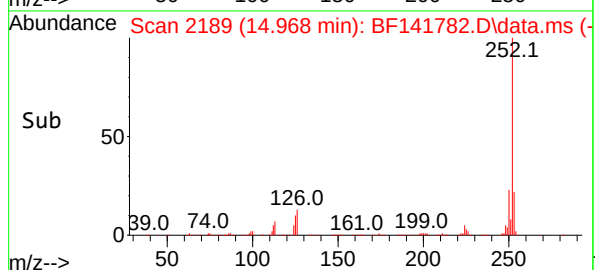
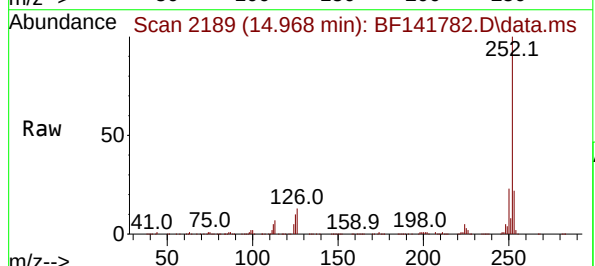
Tgt Ion:252 Resp: 529780

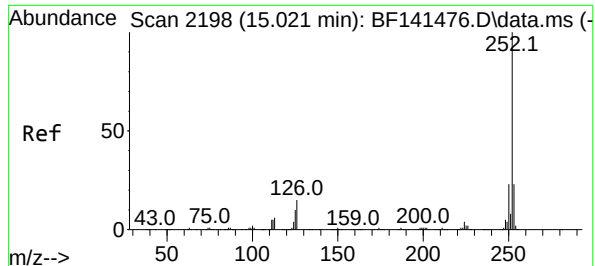
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 9.6 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 40.813 ng

RT: 14.998 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:252 Resp: 410854

Ion Ratio Lower Upper

252 100

253 21.4 18.0 27.0

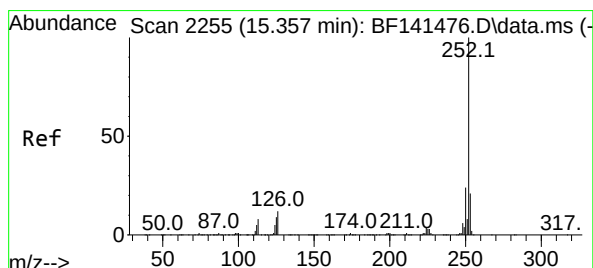
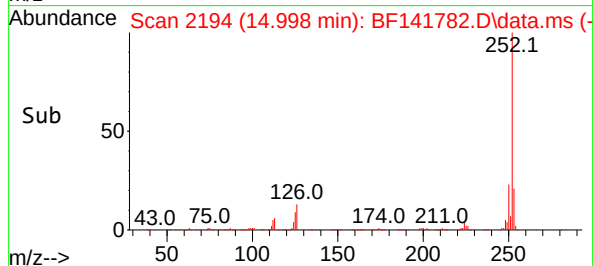
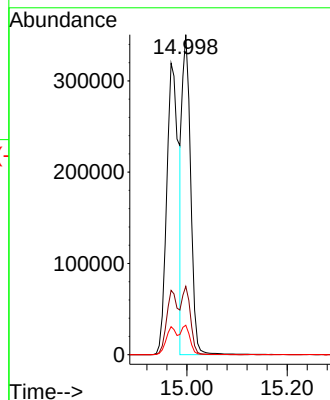
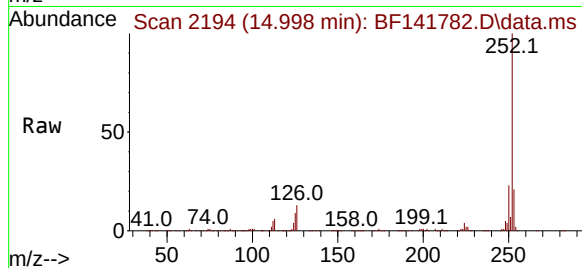
125 9.2 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#90

Benzo(a)pyrene

Concen: 47.308 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

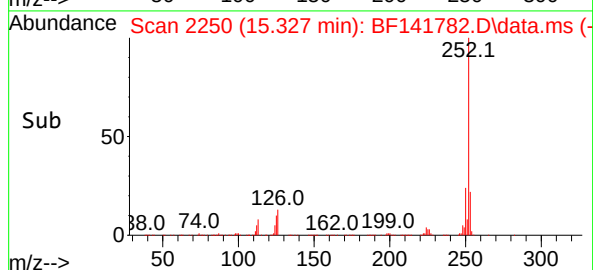
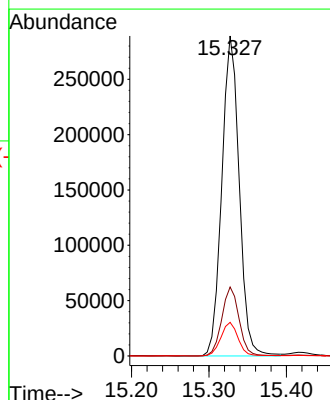
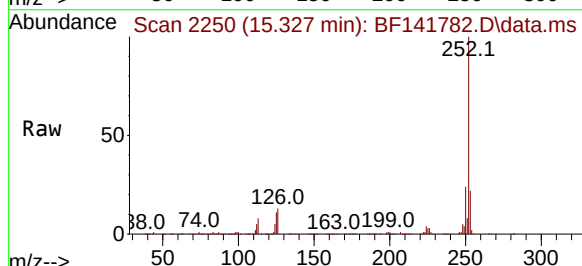
Tgt Ion:252 Resp: 451285

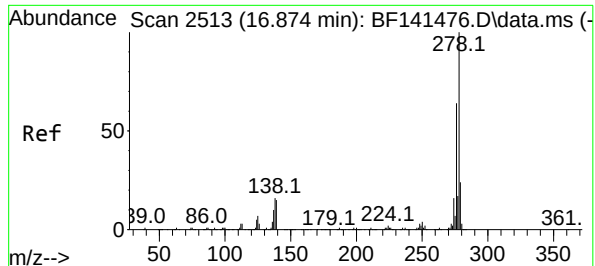
Ion Ratio Lower Upper

252 100

253 21.5 17.1 25.7

125 10.5 7.4 11.2





#91

Dibenzo(a,h)anthracene

Concen: 49.309 ng

RT: 16.839 min Scan# 2507

Delta R.T. -0.053 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

Instrument :

BNA_F

ClientSampleId :

PB166875BSD

Tgt Ion:278 Resp: 43344

Ion Ratio Lower Upper

278 100

139 15.1 11.8 17.6

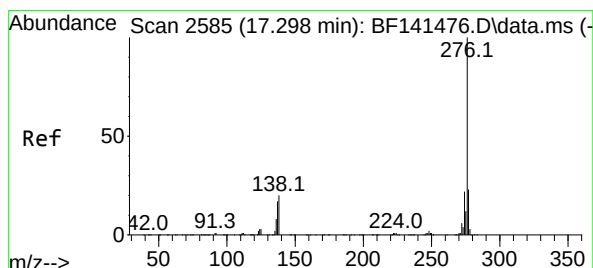
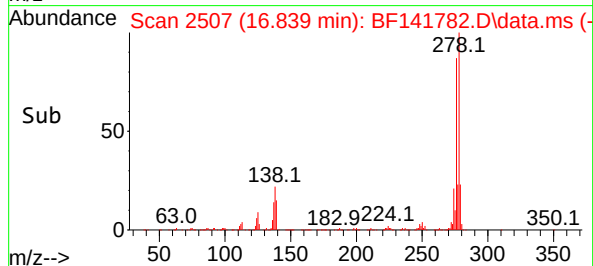
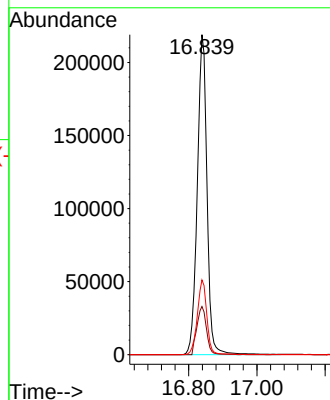
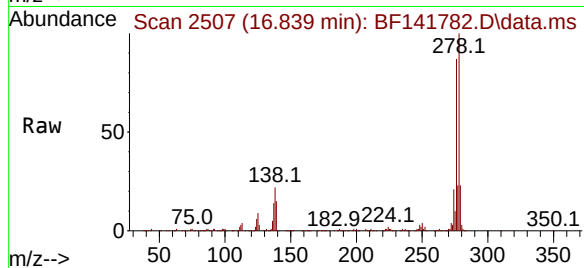
279 23.4 19.1 28.7

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/27/2025

Supervised By :Jagrut Upadhyay 02/27/2025



#92

Benzo(g,h,i)perylene

Concen: 44.240 ng

RT: 17.262 min Scan# 2579

Delta R.T. -0.053 min

Lab File: BF141782.D

Acq: 26 Feb 2025 14:54

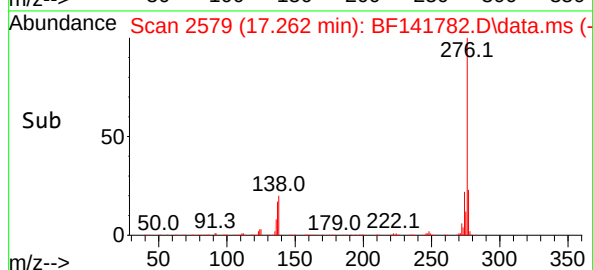
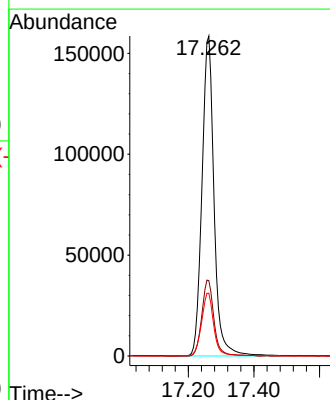
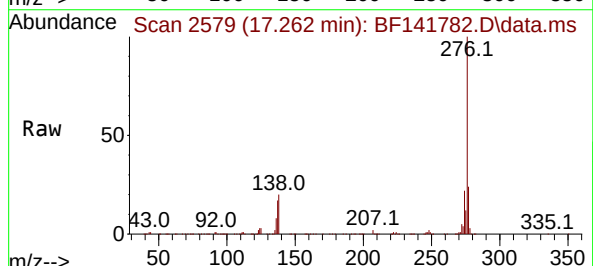
Tgt Ion:276 Resp: 406962

Ion Ratio Lower Upper

276 100

277 23.5 18.6 28.0

138 19.6 15.9 23.9



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1300		260	470	ug/Kg
108-95-2	Phenol	2100		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2100		120	240	ug/Kg
95-57-8	2-Chlorophenol	2100		120	240	ug/Kg
95-48-7	2-Methylphenol	2100		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		130	240	ug/Kg
98-86-2	Acetophenone	2200		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2000		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2100		120	240	ug/Kg
98-95-3	Nitrobenzene	2000		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2700		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2100		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2000		120	240	ug/Kg
106-47-8	4-Chloroaniline	850		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2100		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6200	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2300		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2100		120	240	ug/Kg
88-74-4	2-Nitroaniline	2000		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1300		130	240	ug/Kg
83-32-9	Acenaphthene	2000		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	3000		340	470	ug/Kg
100-02-7	4-Nitrophenol	3700		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2200		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2200		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2200		120	240	ug/Kg
1912-24-9	Atrazine	2700		130	240	ug/Kg
87-86-5	Pentachlorophenol	3200		110	470	ug/Kg
85-01-8	Phenanthrene	2100		120	240	ug/Kg
120-12-7	Anthracene	2200		120	240	ug/Kg
86-74-8	Carbazole	2100		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2100		120	240	ug/Kg
206-44-0	Fluoranthene	2000		120	240	ug/Kg
129-00-0	Pyrene	2200		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1700		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2200		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2600		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	2800		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		120	240	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1415
Lab Sample ID:	Q1421-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141762.D	1	02/25/25 09:30	02/25/25 14:07	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1900		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2200		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2400		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2400		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2300		120	240	ug/Kg
123-91-1	1,4-Dioxane	2100		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	100		30 (18) - 130 (112)	67%	SPK: 150
13127-88-3	Phenol-d6	98.8		30 (15) - 130 (107)	66%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.3		30 (18) - 130 (107)	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.2		30 (20) - 130 (109)	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.2		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	74.9		30 (10) - 130 (105)	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	88800	6.781			
1146-65-2	Naphthalene-d8	356000	8.063			
15067-26-2	Acenaphthene-d10	195000	9.816			
1517-22-2	Phenanthrene-d10	324000	11.304			
1719-03-5	Chrysene-d12	195000	13.945			
1520-96-3	Perylene-d12	189000	15.386			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141762.D
 Acq On : 25 Feb 2025 14:07
 Operator : RC/JU
 Sample : Q1421-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-CLAY-CF01-01MS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/26/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 26 00:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	88792	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	356048	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	194554	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	323859	20.000	ng	-0.01
76) Chrysene-d12	13.945	240	195463	20.000	ng	-0.02
86) Perylene-d12	15.386	264	188853	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	566792	100.075	ng	0.00
7) Phenol-d6	6.428	99	707518	98.837	ng	-0.01
23) Nitrobenzene-d5	7.345	82	445670	65.287	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	184005	94.150	ng	-0.02
45) 2-Fluorobiphenyl	9.139	172	873991	69.210	ng	-0.01
79) Terphenyl-d14	12.886	244	866854	74.868	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.575	88	99078	43.465	ng	98
3) Pyridine	3.304	79	229851	42.374	ng	93
4) n-Nitrosodimethylamine	3.257	42	138682	38.611	ng	90
6) Aniline	6.445	93	226829	33.780	ng	# 75
8) 2-Chlorophenol	6.575	128	276685	45.211	ng	97
9) Benzaldehyde	6.334	77	106505	27.998	ng	97
10) Phenol	6.439	94	335449	45.023	ng	96
11) bis(2-Chloroethyl)ether	6.516	93	248270	44.364	ng	99
12) 1,3-Dichlorobenzene	6.722	146	289182	44.759	ng	96
13) 1,4-Dichlorobenzene	6.798	146	293245	44.424	ng	98
14) 1,2-Dichlorobenzene	6.951	146	277220	45.248	ng	99
15) Benzyl Alcohol	6.928	79	236006	42.993	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.057	45	383534	40.037	ng	64
17) 2-Methylphenol	7.051	107	214180	44.722	ng	93
18) Hexachloroethane	7.286	117	109393	44.778	ng	99
19) n-Nitroso-di-n-propyla...	7.198	70	184853	43.171	ng	94
20) 3+4-Methylphenols	7.204	107	282352	46.391	ng	# 75
22) Acetophenone	7.192	105	417099	47.093	ng	92
24) Nitrobenzene	7.369	77	282638	42.461	ng	96
25) Isophorone	7.604	82	501969	46.118	ng	99
26) 2-Nitrophenol	7.681	139	151422	45.723	ng	94
27) 2,4-Dimethylphenol	7.728	122	219153	56.646	ng	98
28) bis(2-Chloroethoxy)met...	7.816	93	306733	43.979	ng	100
29) 2,4-Dichlorophenol	7.934	162	227778	43.575	ng	100
30) 1,2,4-Trichlorobenzene	8.004	180	245784	43.178	ng	99
31) Naphthalene	8.086	128	789682	42.608	ng	100
32) Benzoic acid	7.845	122	59439	14.791	ng	98
33) 4-Chloroaniline	8.139	127	116223	17.961	ng	98
34) Hexachlorobutadiene	8.198	225	151076	44.209	ng	99
35) Caprolactam	8.510	113	75484m	47.428	ng	
36) 4-Chloro-3-methylphenol	8.633	107	247497	42.743	ng	99
37) 2-Methylnaphthalene	8.775	142	501251	41.562	ng	100
38) 1-Methylnaphthalene	8.875	142	487134	41.703	ng	98
40) 1,2,4,5-Tetrachloroben...	8.945	216	275848	49.007	ng	99
41) Hexachlorocyclopentadiene	8.928	237	244112	130.391	ng	98
43) 2,4,6-Trichlorophenol	9.063	196	157396	43.266	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141762.D
 Acq On : 25 Feb 2025 14:07
 Operator : RC/JU
 Sample : Q1421-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-CLAY-CF01-01MS

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/26/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 26 00:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	169521	42.997	ng	98
46) 1,1'-Biphenyl	9.239	154	725705	48.113	ng	99
47) 2-Chloronaphthalene	9.263	162	494895	44.370	ng	99
48) 2-Nitroaniline	9.369	65	160694	42.929	ng	94
49) Acenaphthylene	9.680	152	755865	45.562	ng	100
50) Dimethylphthalate	9.539	163	581376	44.018	ng	99
51) 2,6-Dinitrotoluene	9.610	165	128111	44.370	ng	94
52) Acenaphthene	9.851	154	469732	42.116	ng	99
53) 3-Nitroaniline	9.780	138	84069	27.053	ng	96
54) 2,4-Dinitrophenol	9.898	184	107902	62.880	ng	90
55) Dibenzofuran	10.022	168	679468	41.505	ng	100
56) 4-Nitrophenol	9.963	139	178963	77.578	ng	93
57) 2,4-Dinitrotoluene	10.016	165	168790	43.913	ng	98
58) Fluorene	10.369	166	556982	44.002	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	144069	42.444	ng	92
60) Diethylphthalate	10.239	149	552047	42.482	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	268025	44.014	ng	98
62) 4-Nitroaniline	10.398	138	133998	42.465	ng	95
63) Azobenzene	10.516	77	595687	46.111	ng	95
65) 4,6-Dinitro-2-methylph...	10.427	198	84606	37.608	ng	93
66) n-Nitrosodiphenylamine	10.475	169	472300	45.558	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	165760	45.796	ng	99
68) Hexachlorobenzene	10.916	284	174405	46.793	ng	98
69) Atrazine	11.010	200	178296	57.328	ng	99
70) Pentachlorophenol	11.116	266	160396	67.302	ng	99
71) Phenanthrene	11.327	178	797195	44.718	ng	100
72) Anthracene	11.380	178	828278	46.220	ng	100
73) Carbazole	11.539	167	710387	44.056	ng	99
74) Di-n-butylphthalate	11.863	149	830961	44.631	ng	100
75) Fluoranthene	12.516	202	785350	41.553	ng	100
77) Benzidine	12.639	184	280116	64.980	ng	99
78) Pyrene	12.745	202	778525	46.789	ng	99
80) Butylbenzylphthalate	13.357	149	285094	49.467	ng	98
81) Benzo(a)anthracene	13.933	228	595321	45.818	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	132055	35.480	ng	99
83) Chrysene	13.968	228	540286	45.035	ng	100
84) Bis(2-ethylhexyl)phtha...	13.915	149	354228	54.495	ng	99
85) Di-n-octyl phthalate	14.527	149	550072	59.320	ng	99
87) Indeno(1,2,3-cd)pyrene	16.827	276	592429	50.769	ng	99
88) Benzo(b)fluoranthene	14.968	252	564333	44.504	ng	99
89) Benzo(k)fluoranthene	14.998	252	445721	41.164	ng	99
90) Benzo(a)pyrene	15.327	252	482833	47.057	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	478481	50.605	ng	99
92) Benzo(g,h,i)perylene	17.256	276	462853	46.779	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

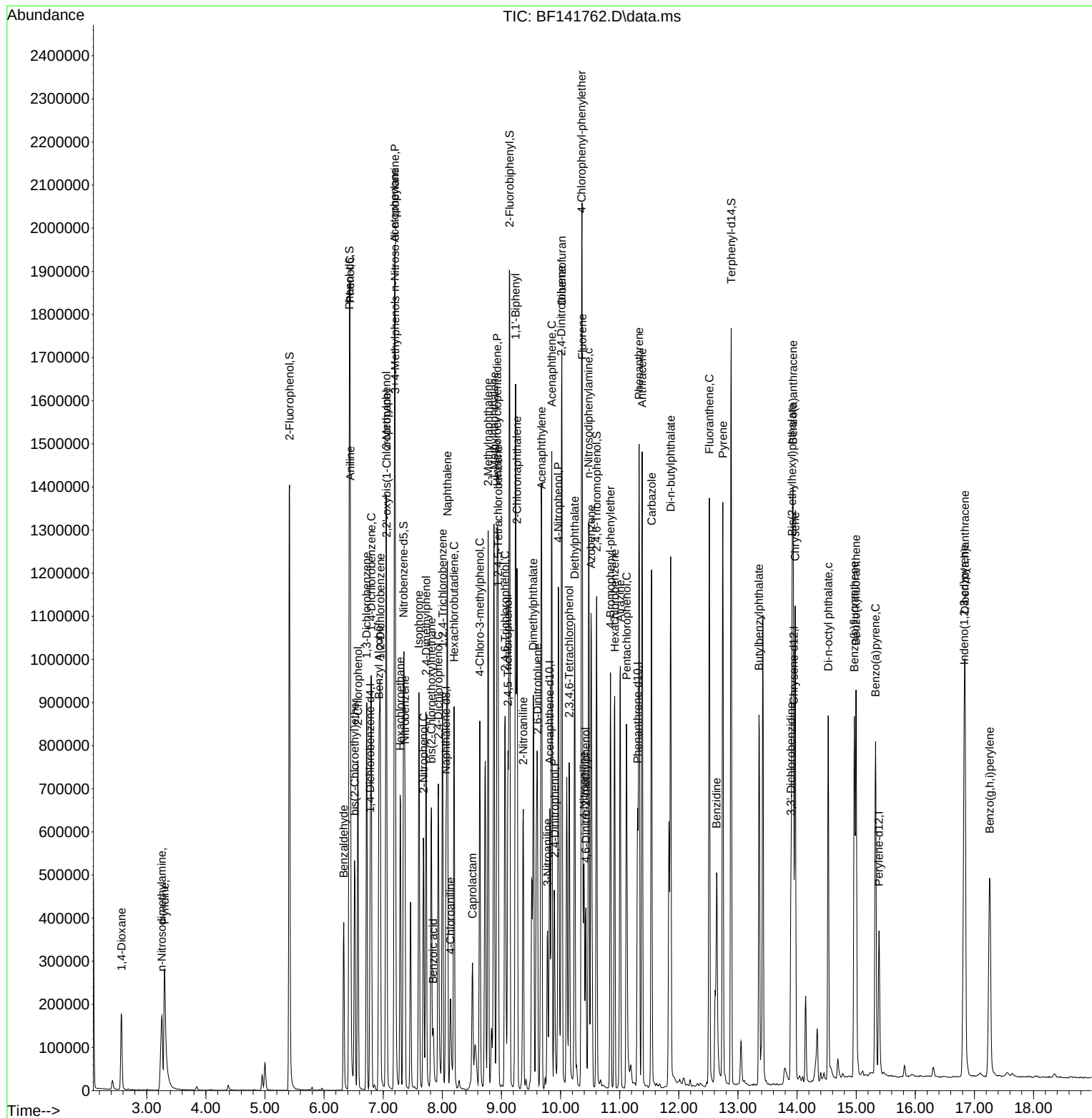
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 Acq On : 25 Feb 2025 14:07
 Operator : RC/JU
 Sample : Q1421-02MS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

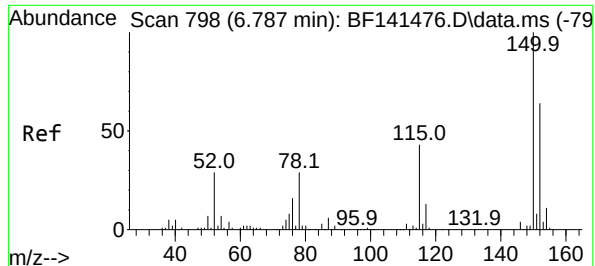
Instrument :
 BNA_F
 ClientSampleId :
 P001-CLAY-CF01-01MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 02/26/2025
 Supervised By :mohammad ahmed 02/28/2025

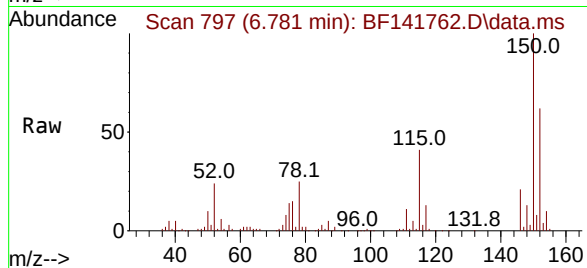
Quant Time: Feb 26 00:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.011 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

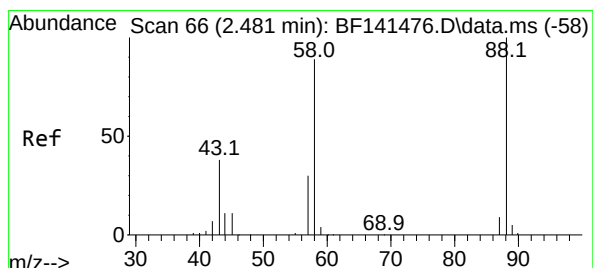
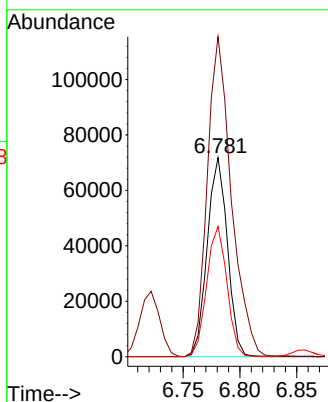
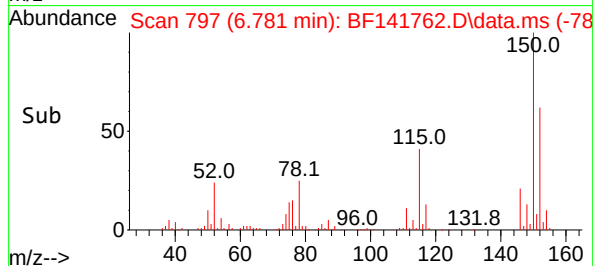
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:152 Resp: 88792
Ion Ratio Lower Upper
152 100
150 160.8 125.0 187.4
115 65.4 53.6 80.4

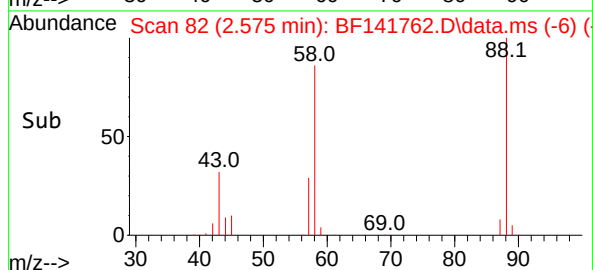
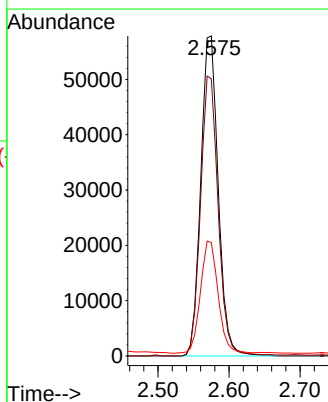
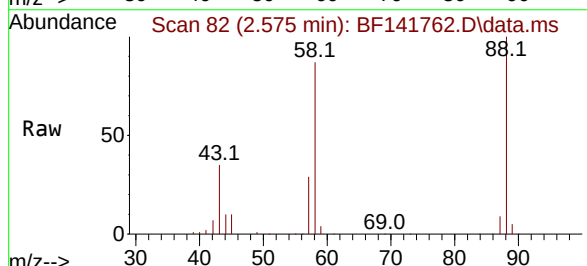
Manual Integrations
APPROVED

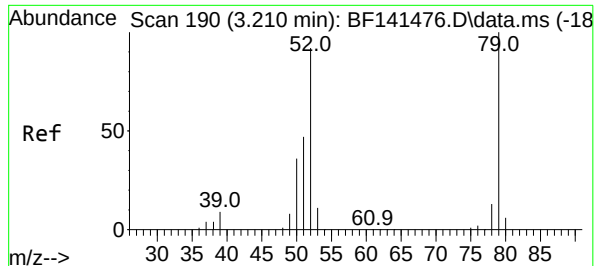
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#2
1,4-Dioxane
Concen: 43.465 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.094 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 88 Resp: 99078
Ion Ratio Lower Upper
88 100
58 88.6 71.1 106.7
43 35.4 30.6 46.0





#3

Pyridine

Concen: 42.374 ng

RT: 3.304 min Scan# 206

Delta R.T. 0.088 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 79 Resp: 22985

Ion Ratio Lower Upper

79 100

52 85.8 73.7 110.5

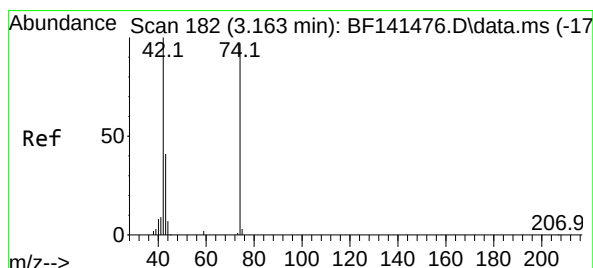
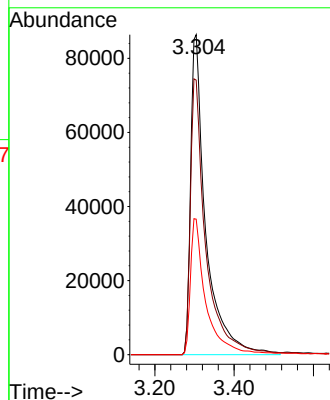
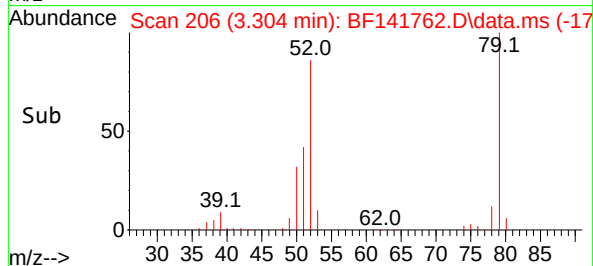
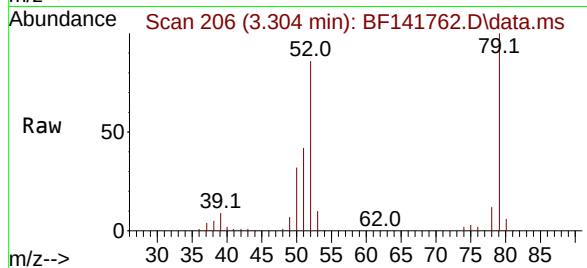
51 42.4 37.5 56.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#4

n-Nitrosodimethylamine

Concen: 38.611 ng

RT: 3.257 min Scan# 198

Delta R.T. 0.071 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

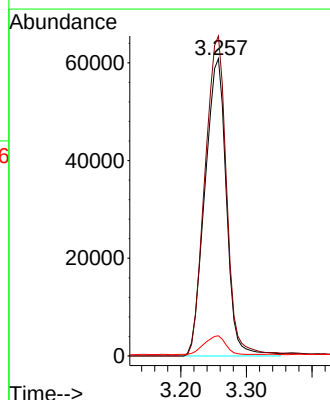
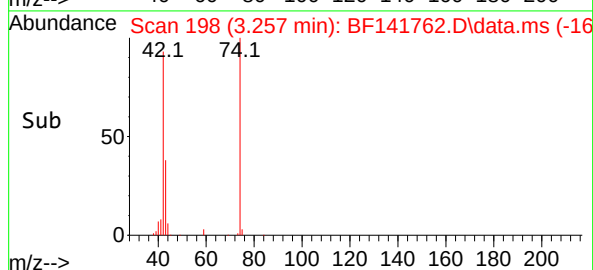
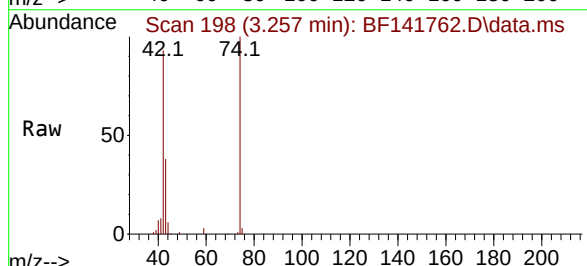
Tgt Ion: 42 Resp: 138682

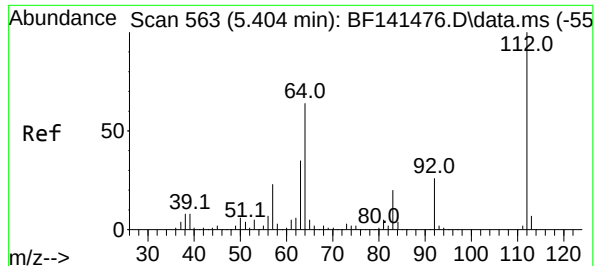
Ion Ratio Lower Upper

42 100

74 107.7 78.0 117.0

44 6.8 5.4 8.2





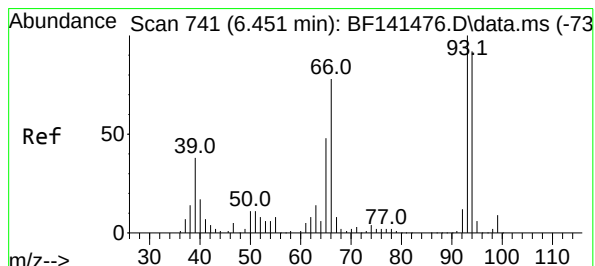
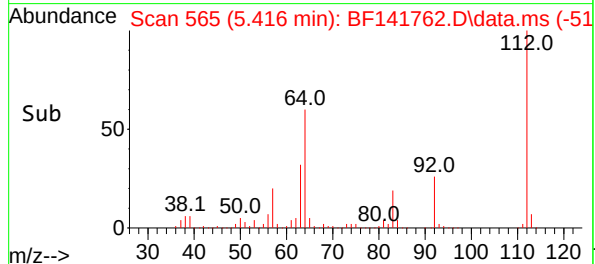
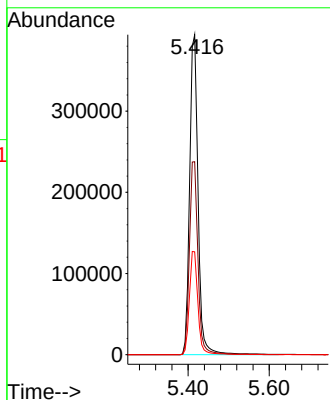
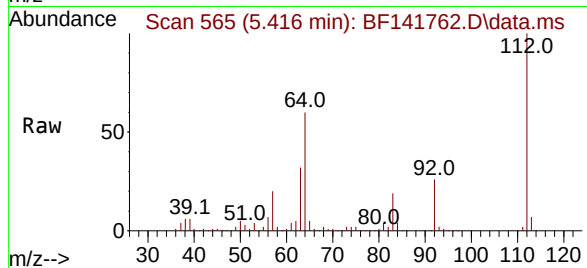
#5
2-Fluorophenol
Concen: 100.075 ng
RT: 5.416 min Scan# 50
Delta R.T. 0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Tgt Ion:112 Resp: 566792
Ion Ratio Lower Upper
112 100
64 60.3 51.1 76.7
63 32.1 28.4 42.6

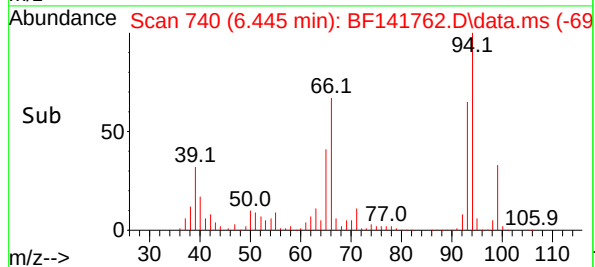
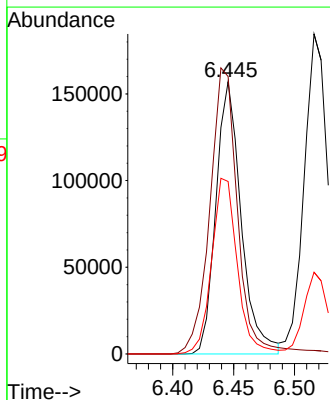
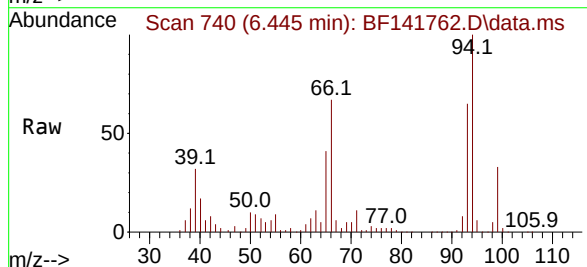
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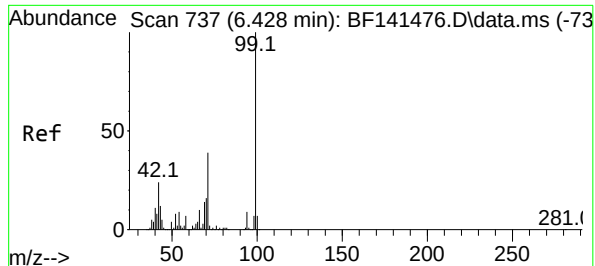
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#6
Aniline
Concen: 33.780 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

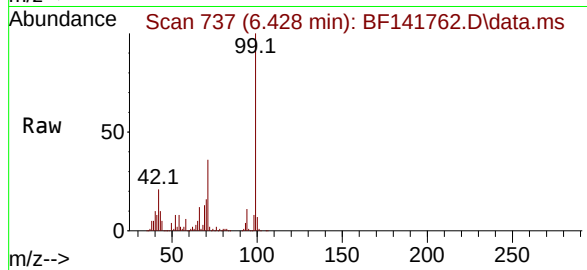
Tgt Ion: 93 Resp: 226829
Ion Ratio Lower Upper
93 100
66 101.8 62.6 94.0#
65 63.3 38.3 57.5#





#7
Phenol-d6
Concen: 98.837 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

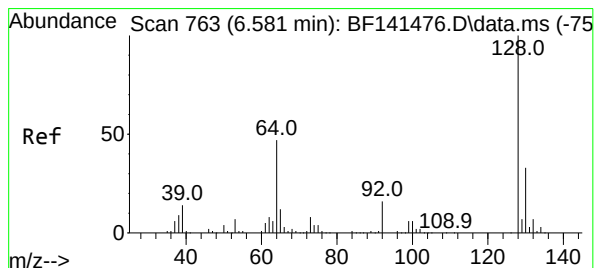
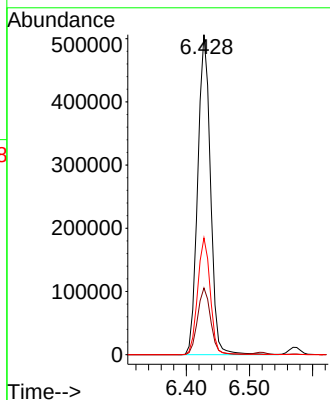
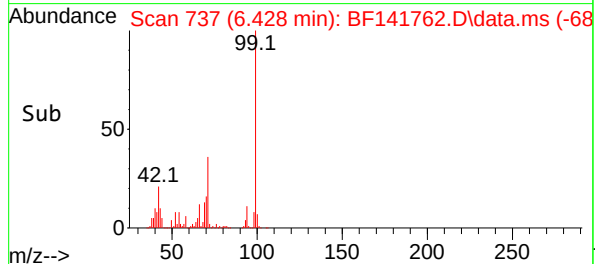
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 99 Resp: 707518
Ion Ratio Lower Upper
99 100
42 20.8 19.1 28.7
71 36.5 31.1 46.7

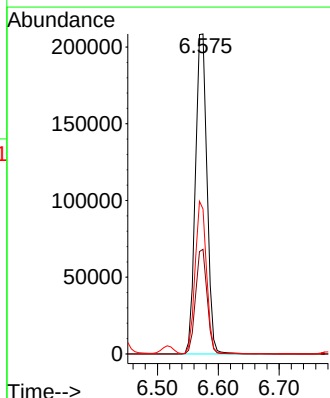
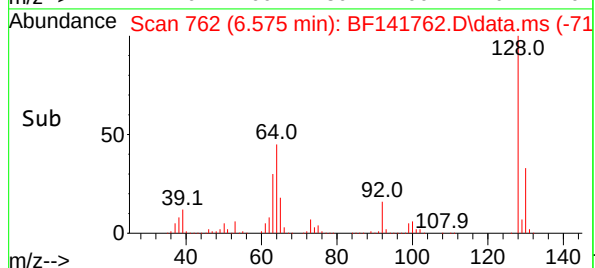
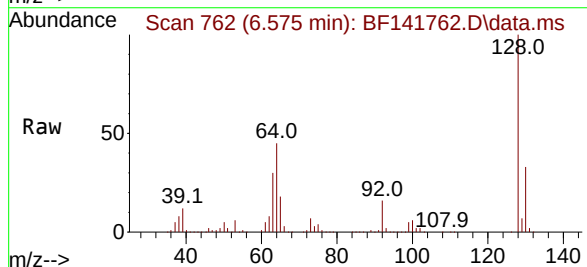
Manual Integrations
APPROVED

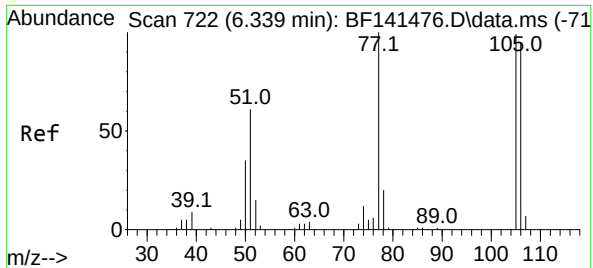
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#8
2-Chlorophenol
Concen: 45.211 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

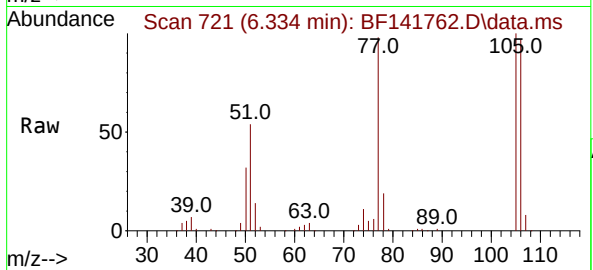
Tgt Ion:128 Resp: 276685
Ion Ratio Lower Upper
128 100
130 32.7 12.7 52.7
64 45.3 28.3 68.3





#9
Benzaldehyde
Concen: 27.998 ng
RT: 6.334 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

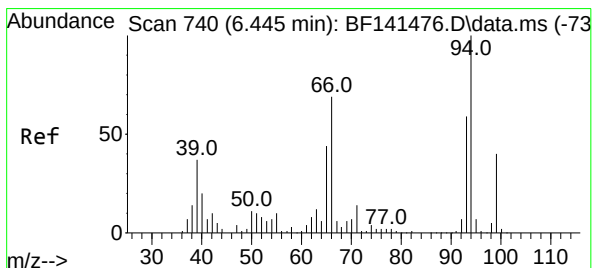
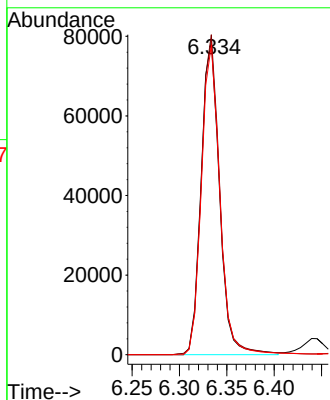
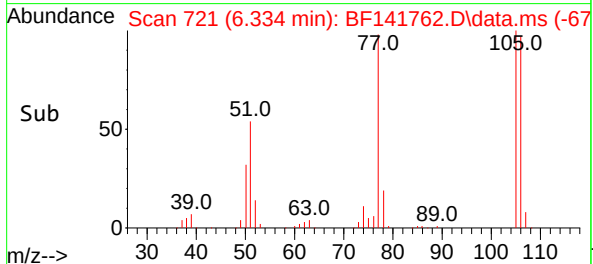
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 77 Resp: 10650
Ion Ratio Lower Upper
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106 98.7 75.1 115.1

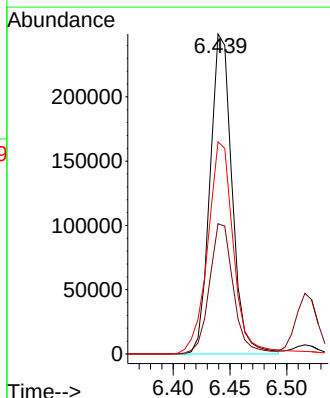
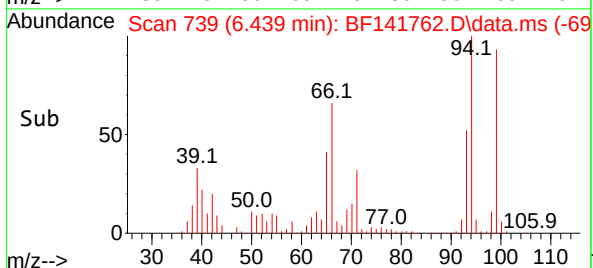
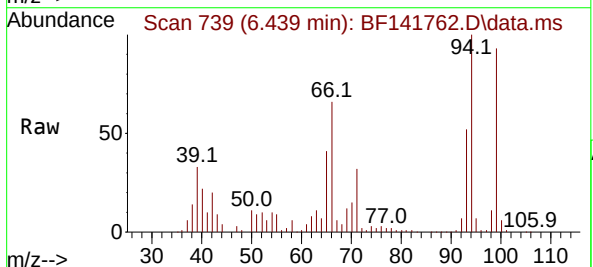
Manual Integrations
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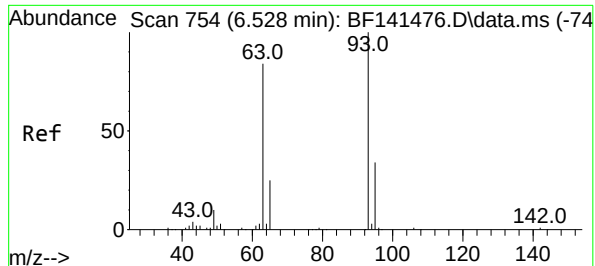
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#10
Phenol
Concen: 45.023 ng
RT: 6.439 min Scan# 739
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion: 94 Resp: 335449
Ion Ratio Lower Upper
94 100
65 40.7 23.7 63.7
66 66.3 49.3 89.3





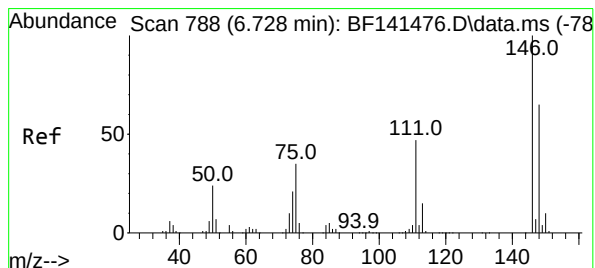
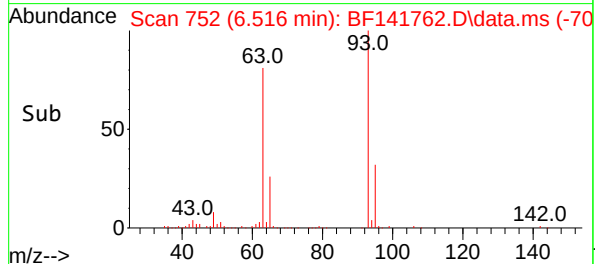
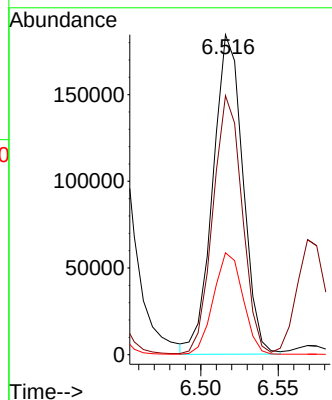
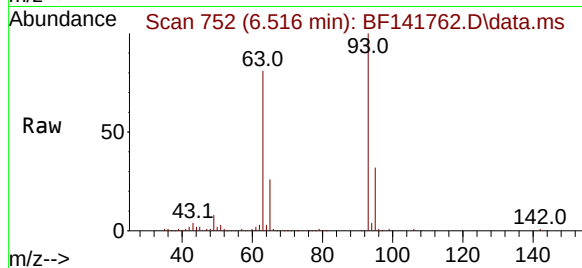
#11
bis(2-Chloroethyl)ether
Concen: 44.364 ng
RT: 6.516 min Scan# 751
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Tgt Ion: 93 Resp: 248270
Ion Ratio Lower Upper
93 100
63 80.9 62.0 102.0
95 31.9 12.6 52.6

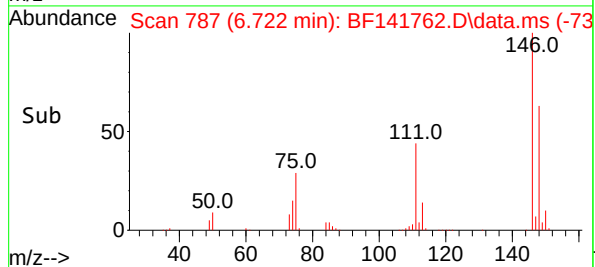
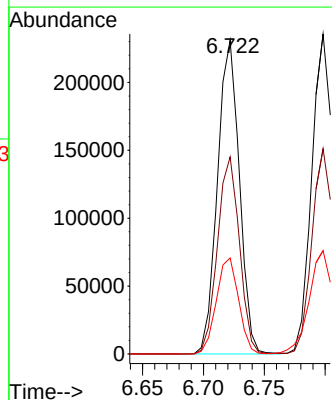
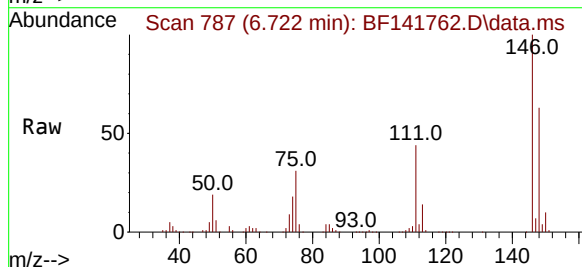
Manual Integrations
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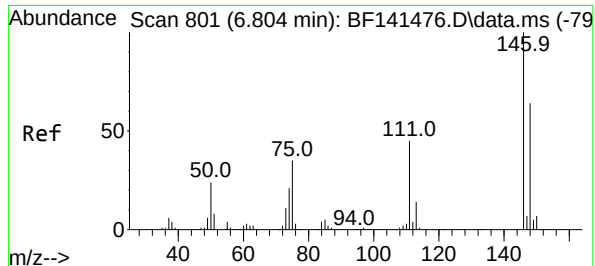
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#12
1,3-Dichlorobenzene
Concen: 44.759 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:146 Resp: 289182
Ion Ratio Lower Upper
146 100
148 62.8 51.9 77.9
75 30.6 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 44.424 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:146 Resp: 29324

Ion Ratio Lower Upper

146 100

148 64.1 50.9 76.3

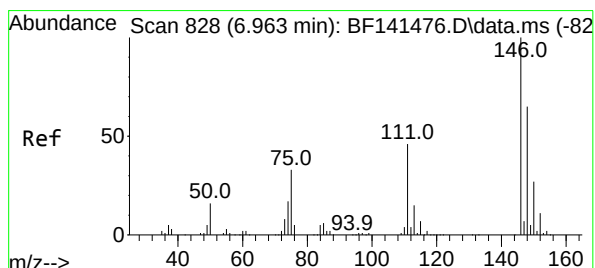
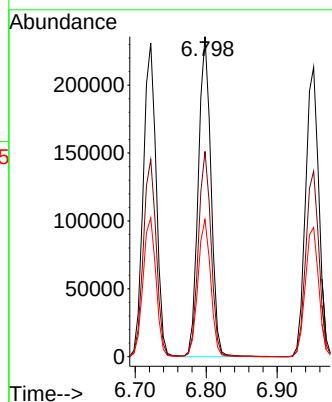
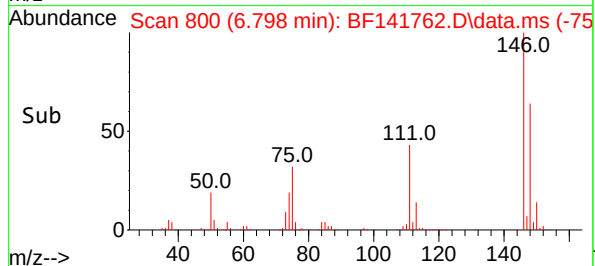
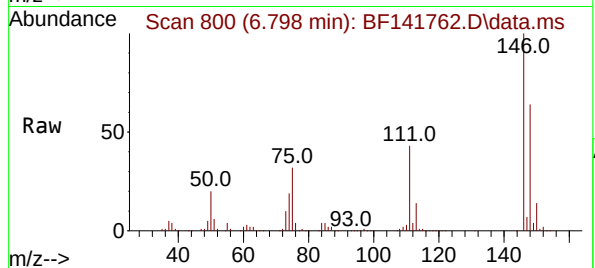
111 42.9 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#14

1,2-Dichlorobenzene

Concen: 45.248 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

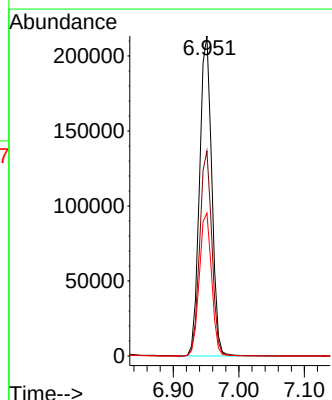
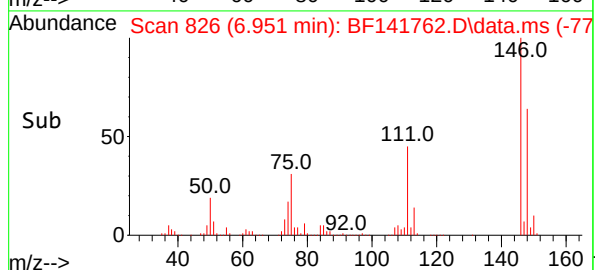
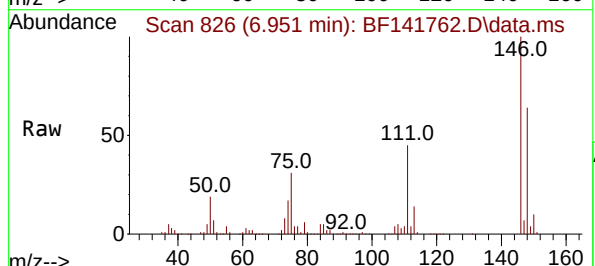
Tgt Ion:146 Resp: 277220

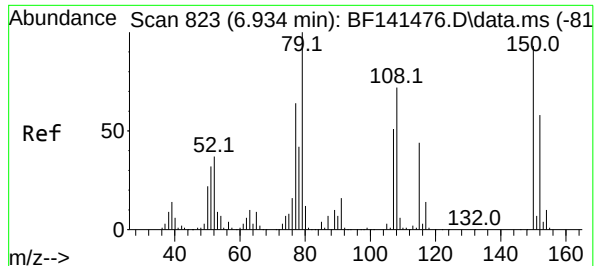
Ion Ratio Lower Upper

146 100

148 64.1 51.8 77.6

111 44.6 37.0 55.4





#15

Benzyl Alcohol

Concen: 42.993 ng

RT: 6.928 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 79 Resp: 236000

Ion Ratio Lower Upper

79 100

108 74.1 57.4 86.2

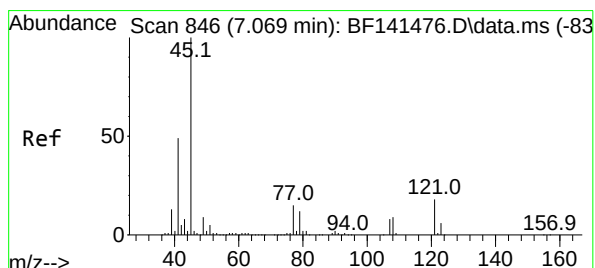
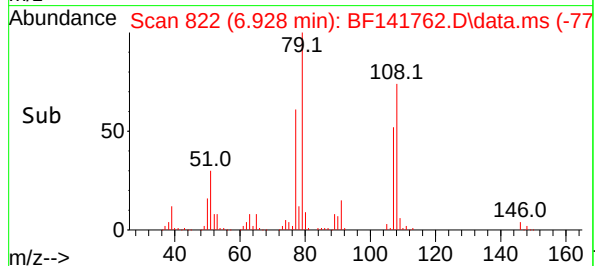
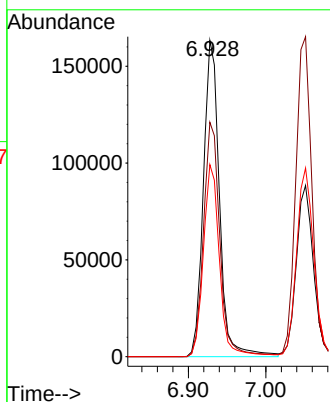
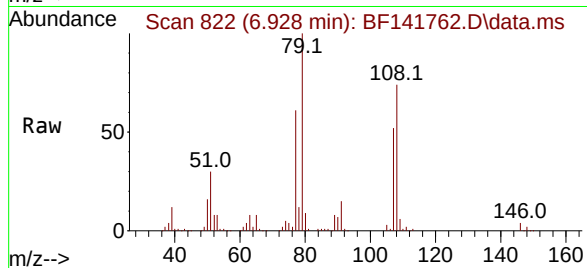
77 60.8 50.9 76.3

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 40.037 ng

RT: 7.057 min Scan# 844

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

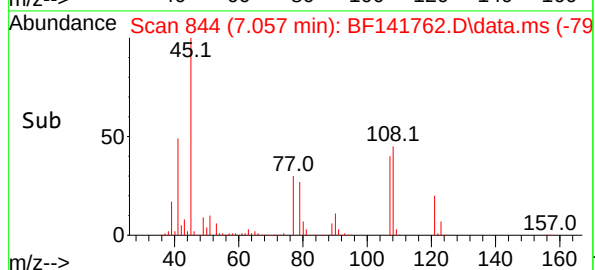
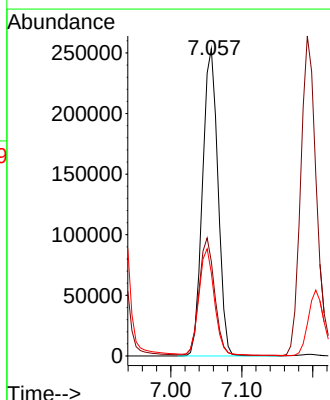
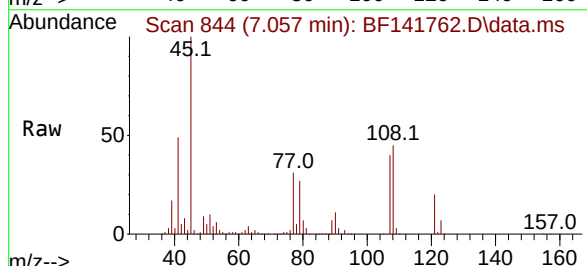
Tgt Ion: 45 Resp: 383534

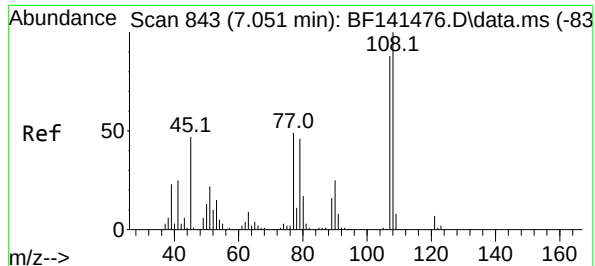
Ion Ratio Lower Upper

45 100

77 30.8 0.0 35.8

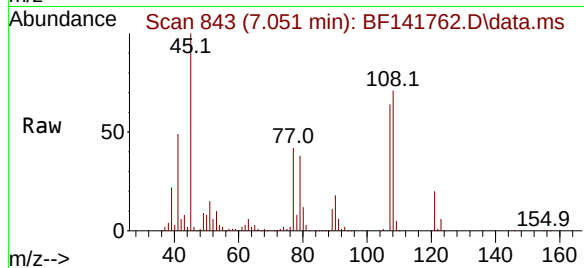
79 27.1 0.0 32.7





#17
2-Methylphenol
Concen: 44.722 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

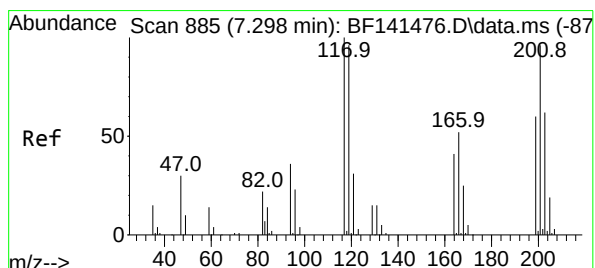
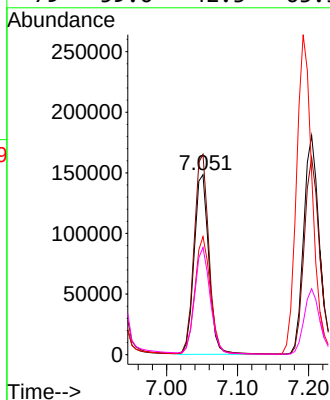
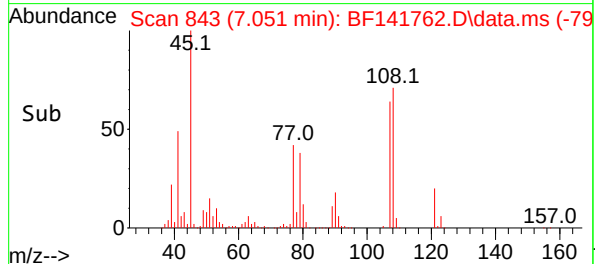
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:107 Resp: 214180
Ion Ratio Lower Upper
107 100
108 111.3 90.6 136.0
77 65.6 44.4 66.6
79 59.6 42.3 63.5

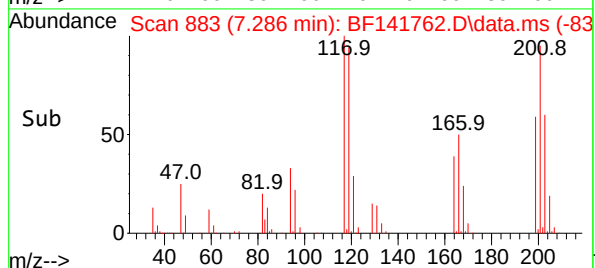
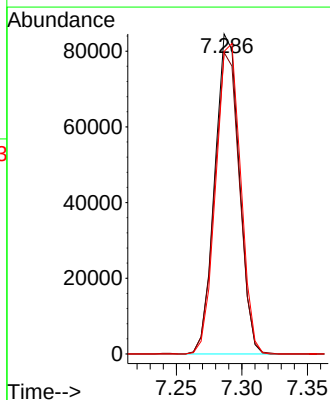
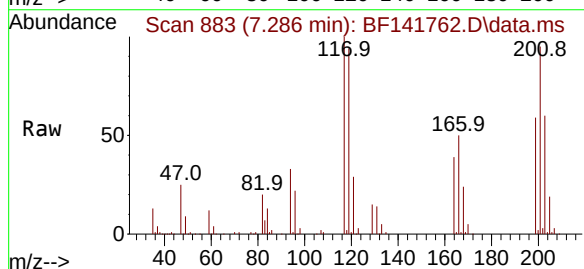
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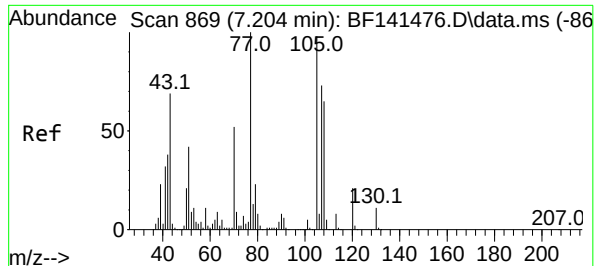
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#18
Hexachloroethane
Concen: 44.778 ng
RT: 7.286 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:117 Resp: 109393
Ion Ratio Lower Upper
117 100
119 94.2 76.5 114.7
201 94.6 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 43.171 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.018 min

Lab File: BF141762.D

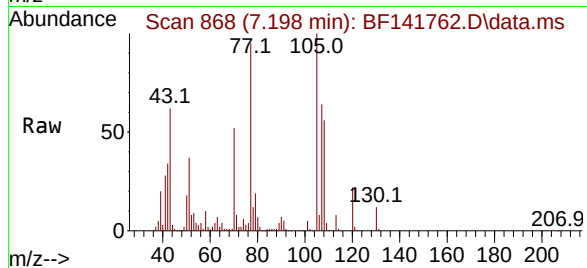
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion: 70 Resp: 18485

Ion Ratio Lower Upper

70 100

42 65.6 57.4 86.2

101 10.2 8.0 12.0

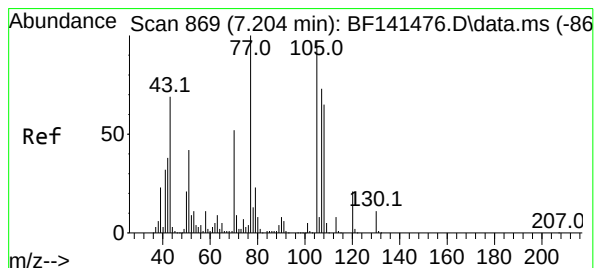
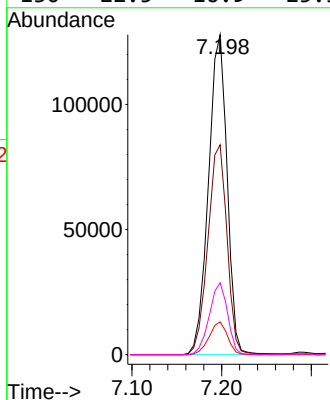
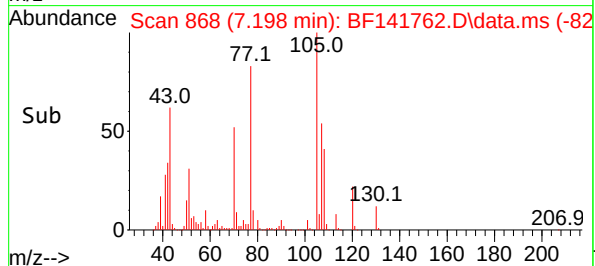
130 22.5 16.9 25.3

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#20

3+4-Methylphenols

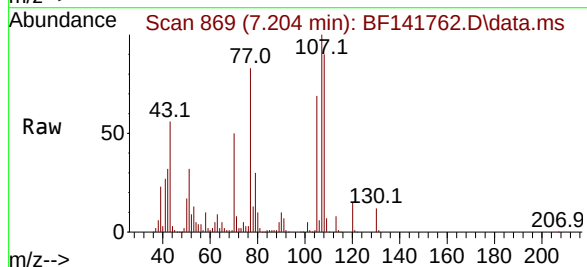
Concen: 46.391 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07



Tgt Ion:107 Resp: 282352

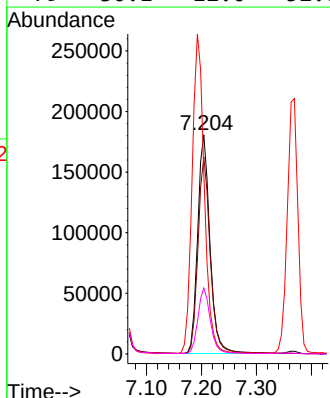
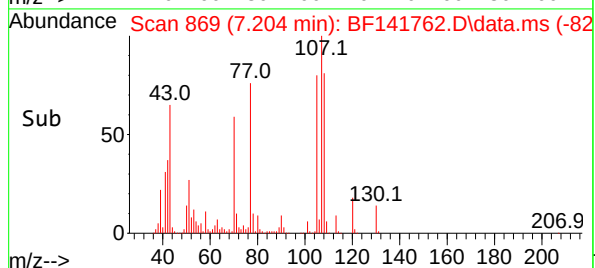
Ion Ratio Lower Upper

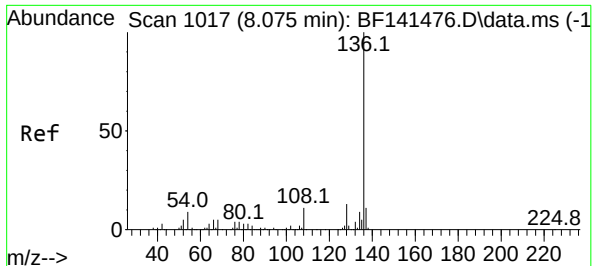
107 100

108 89.9 68.5 108.5

77 82.7 116.5 156.5

79 30.1 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1015

Delta R.T. -0.012 min

Lab File: BF141762.D

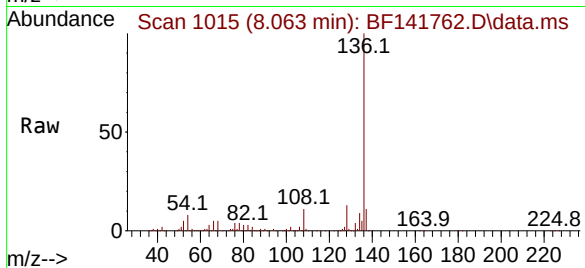
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion:136 Resp: 356048

Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

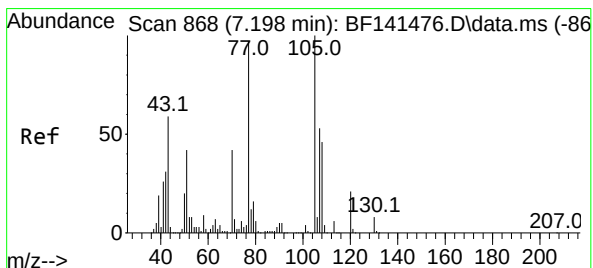
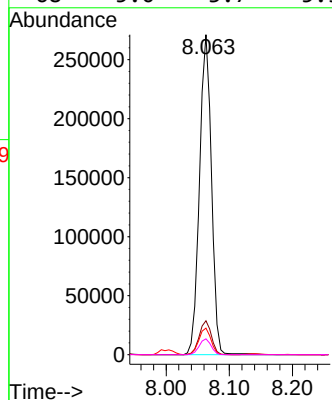
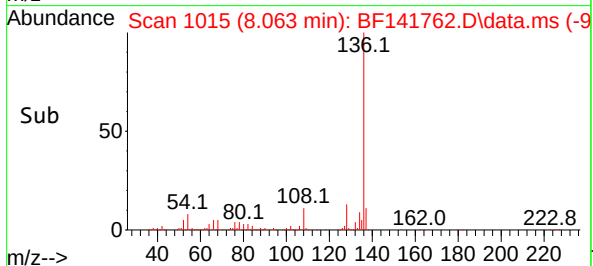
54 8.3 7.2 10.8

68 5.0 3.7 5.5

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#22

Acetophenone

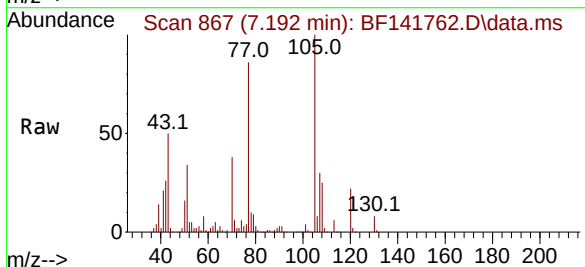
Concen: 47.093 ng

RT: 7.192 min Scan# 867

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07



Tgt Ion:105 Resp: 417099

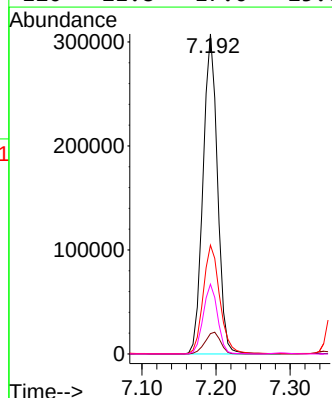
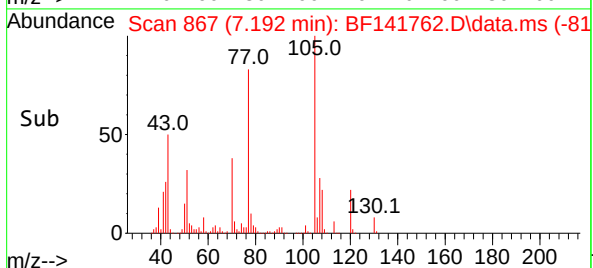
Ion Ratio Lower Upper

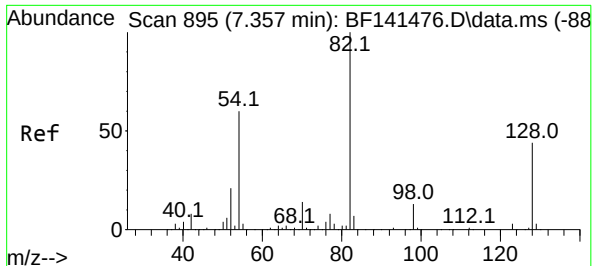
105 100

71 6.3 5.7 8.5

51 34.0 33.7 50.5

120 21.8 17.0 25.6





#23

Nitrobenzene-d5

Concen: 65.287 ng

RT: 7.345 min Scan# 895

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion: 82 Resp: 445670

Ion Ratio Lower Upper

82 100

128 45.0 34.8 52.2

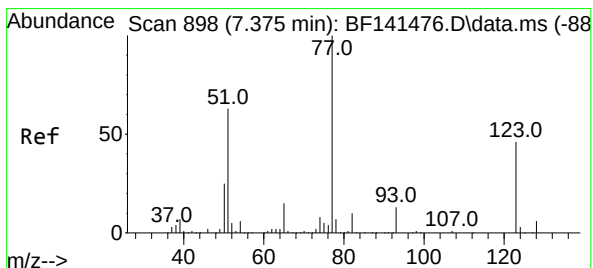
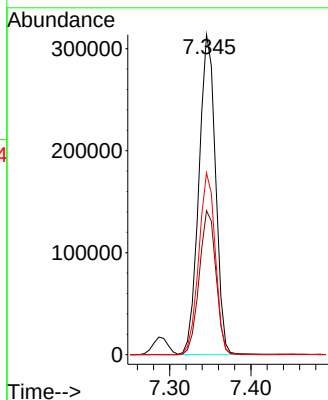
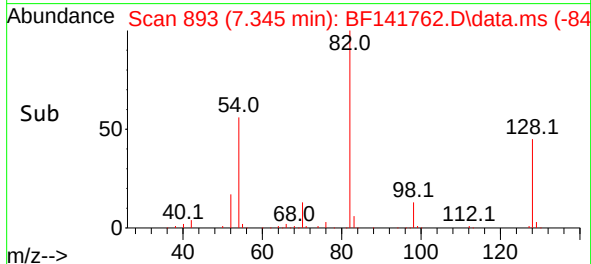
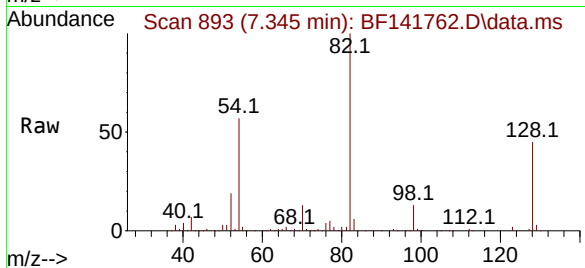
54 56.8 48.2 72.4

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#24

Nitrobenzene

Concen: 42.461 ng

RT: 7.369 min Scan# 897

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

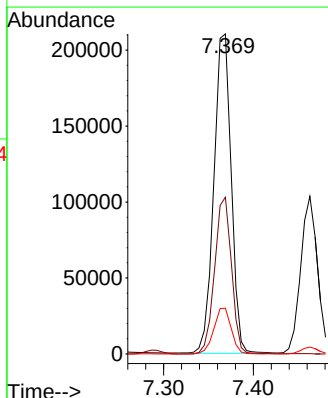
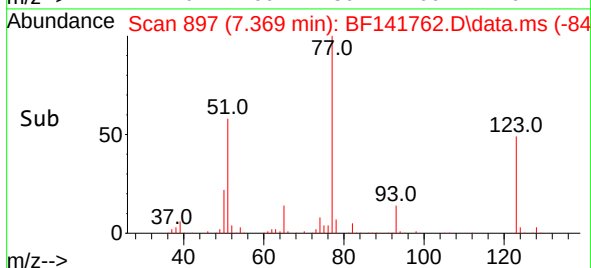
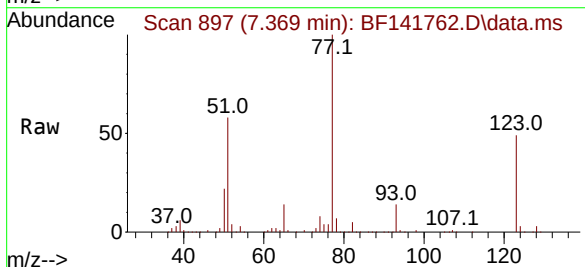
Tgt Ion: 77 Resp: 282638

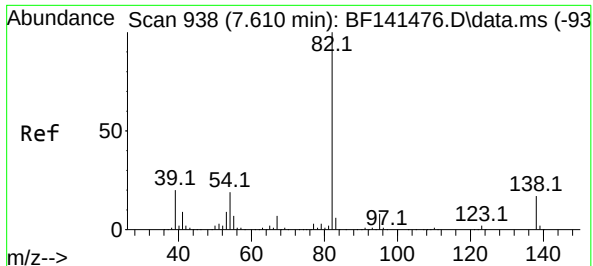
Ion Ratio Lower Upper

77 100

123 49.0 36.9 55.3

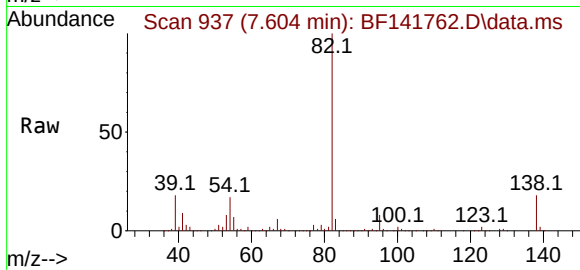
65 14.3 11.9 17.9





#25
Isophorone
Concen: 46.118 ng
RT: 7.604 min Scan# 91
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

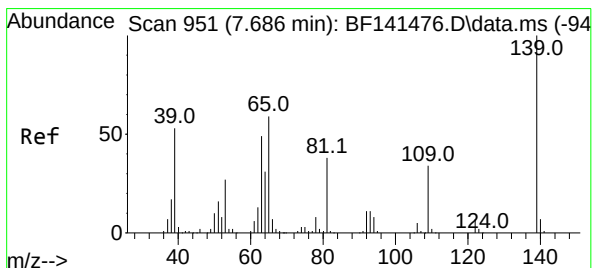
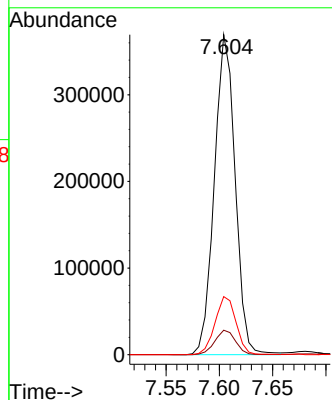
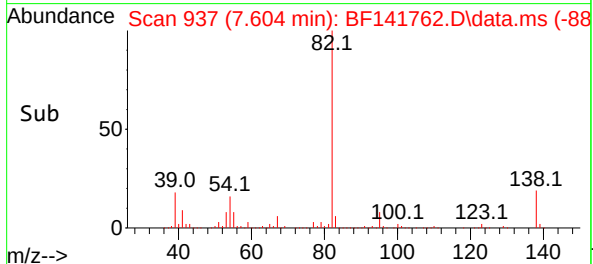
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 82 Resp: 501969
Ion Ratio Lower Upper
82 100
95 7.6 6.4 9.6
138 18.1 13.9 20.9

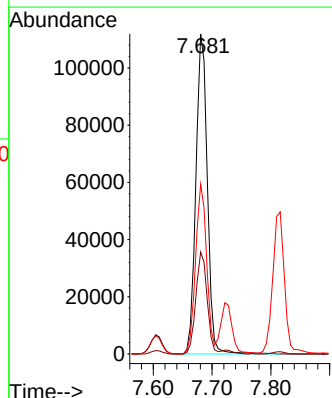
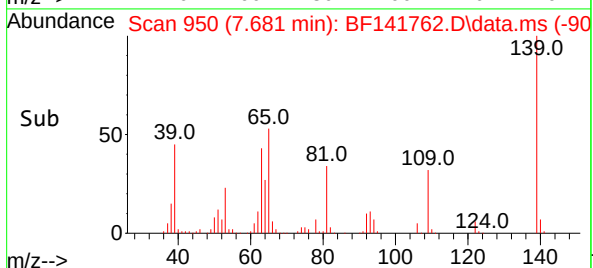
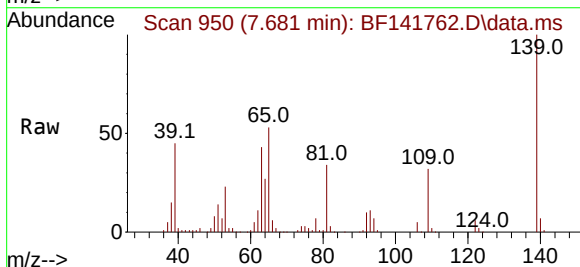
Manual Integrations
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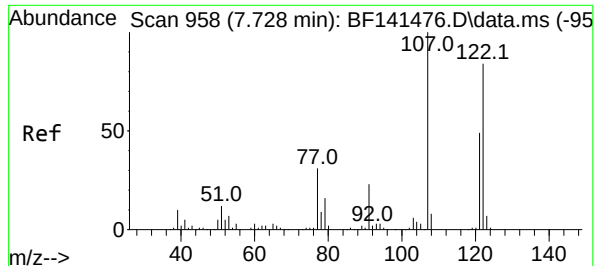
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#26
2-Nitrophenol
Concen: 45.723 ng
RT: 7.681 min Scan# 950
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:139 Resp: 151422
Ion Ratio Lower Upper
139 100
109 31.9 27.0 40.6
65 53.1 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 56.646 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141762.D

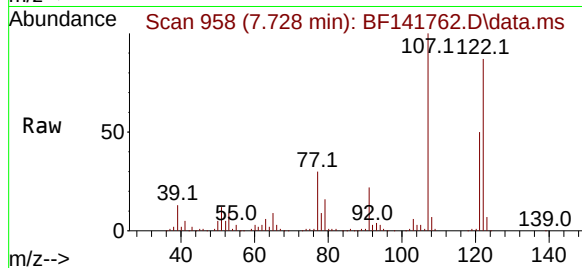
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

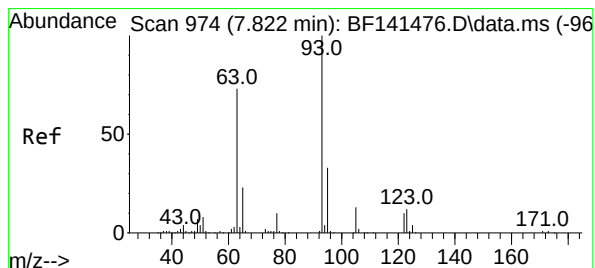
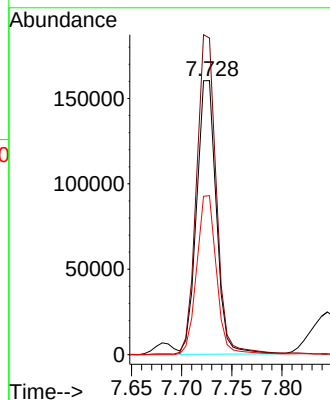
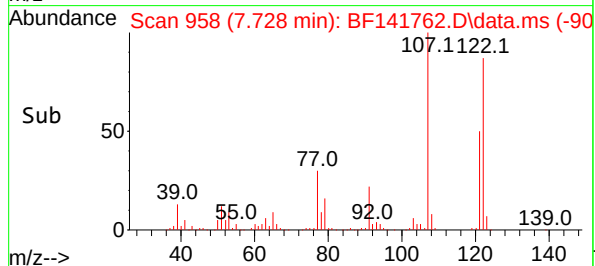


Tgt Ion	Ratio	Lower	Upper
122	100		
107	115.5	94.3	141.5
121	58.0	46.0	69.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#28

bis(2-Chloroethoxy)methane

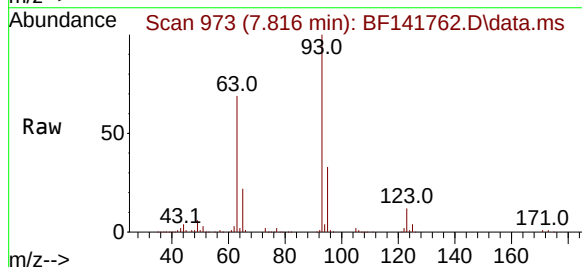
Concen: 43.979 ng

RT: 7.816 min Scan# 973

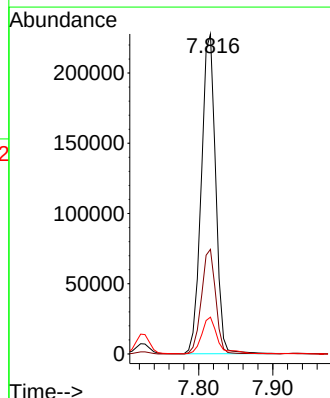
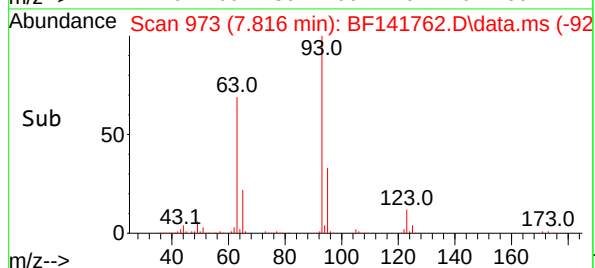
Delta R.T. -0.012 min

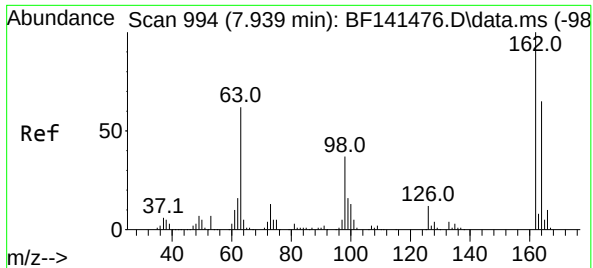
Lab File: BF141762.D

Acq: 25 Feb 2025 14:07



Tgt Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.1	39.1
123	11.5	9.5	14.3





#29

2,4-Dichlorophenol

Concen: 43.575 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141762.D

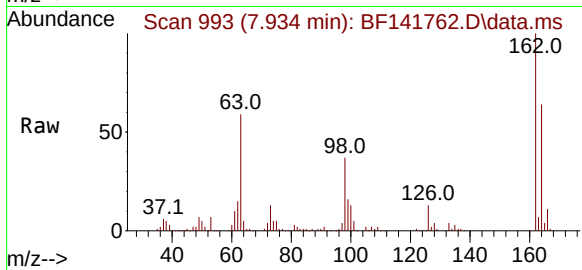
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion:162 Resp: 227778

Ion Ratio Lower Upper

162 100

164 64.1 44.6 84.6

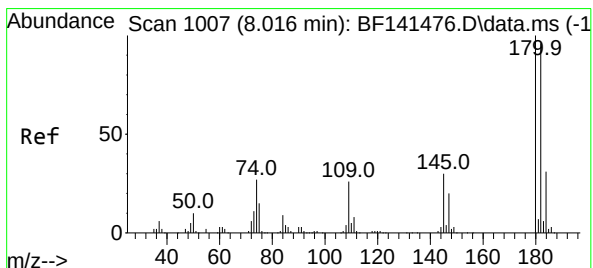
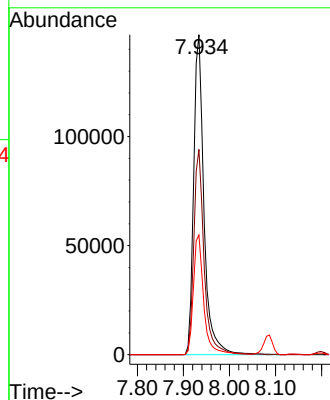
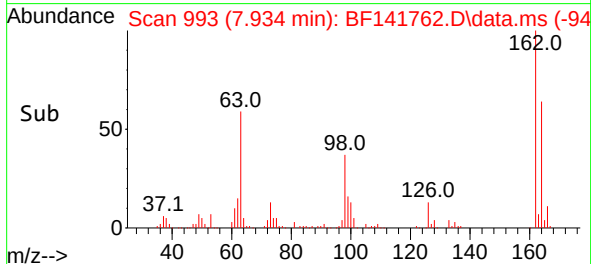
98 37.4 17.2 57.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#30

1,2,4-Trichlorobenzene

Concen: 43.178 ng

RT: 8.004 min Scan# 1005

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

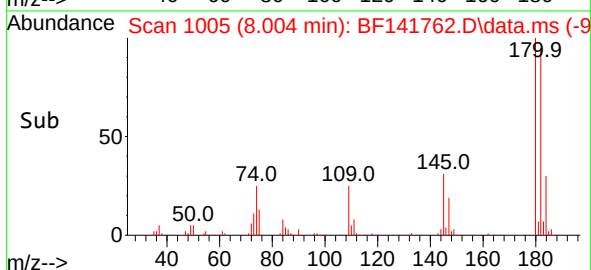
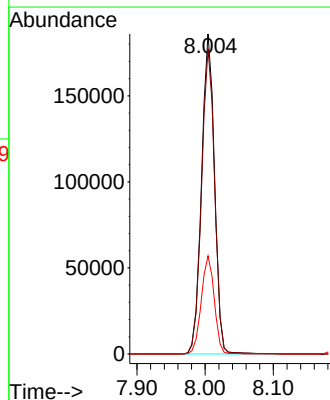
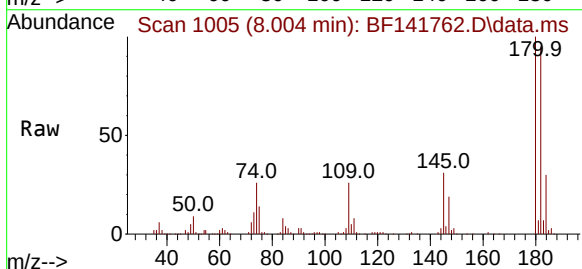
Tgt Ion:180 Resp: 245784

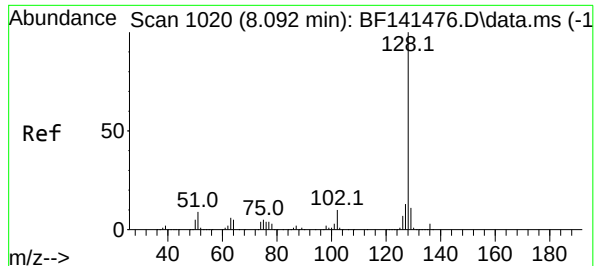
Ion Ratio Lower Upper

180 100

182 95.4 76.8 115.2

145 30.6 24.2 36.4





#31

Naphthalene

Concen: 42.608 ng

RT: 8.086 min Scan# 1020

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:128 Resp: 78968

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

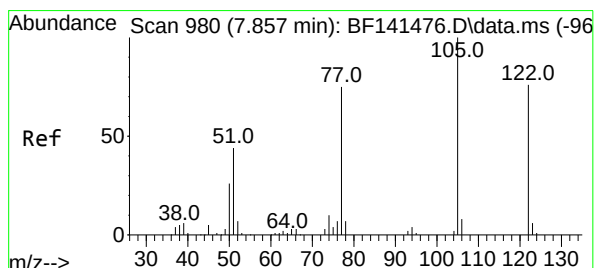
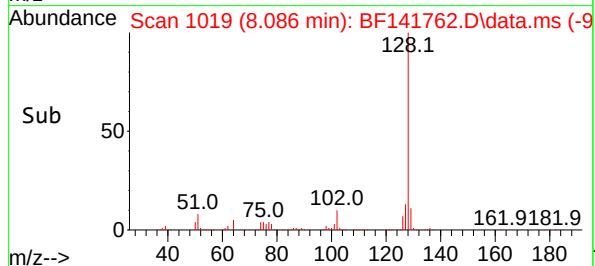
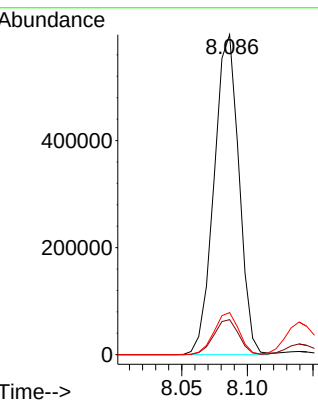
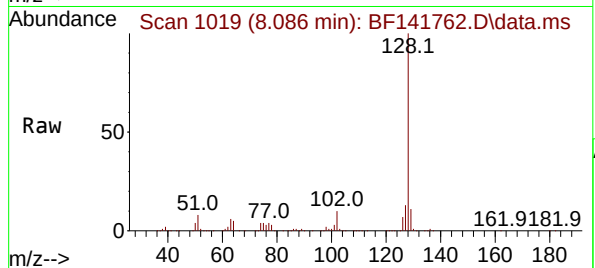
127 13.2 10.7 16.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#32

Benzoic acid

Concen: 14.791 ng

RT: 7.845 min Scan# 978

Delta R.T. -0.047 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

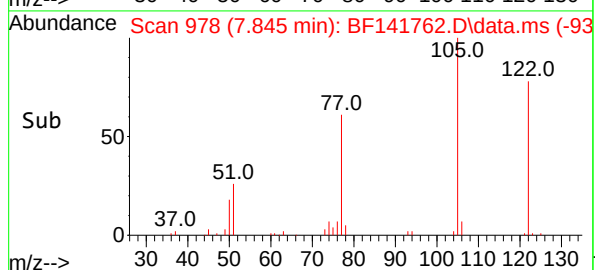
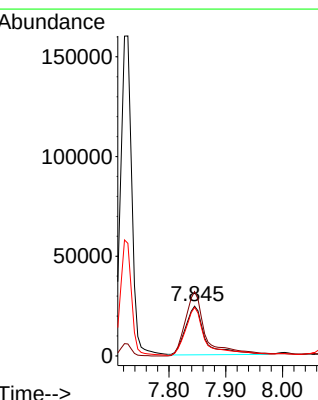
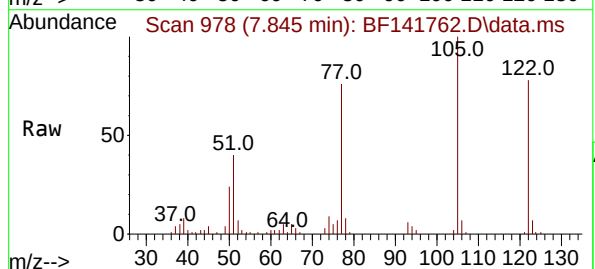
Tgt Ion:122 Resp: 59439

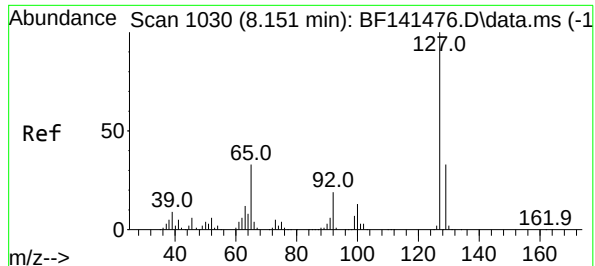
Ion Ratio Lower Upper

122 100

105 129.0 106.5 146.5

77 97.7 76.3 116.3





#33

4-Chloroaniline

Concen: 17.961 ng

RT: 8.139 min Scan# 1030

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:127 Resp: 11622

Ion Ratio Lower Upper

127 100

129 32.8 26.5 39.7

65 31.0 26.4 39.6

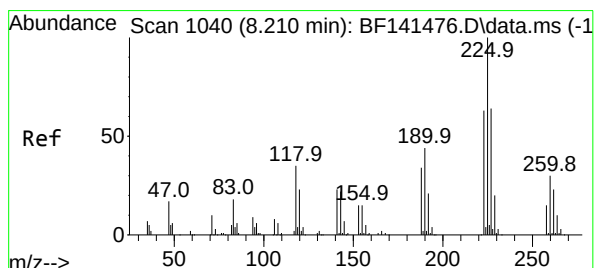
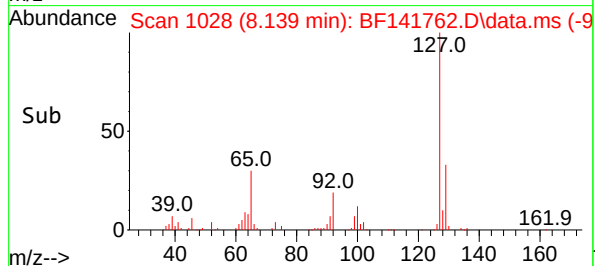
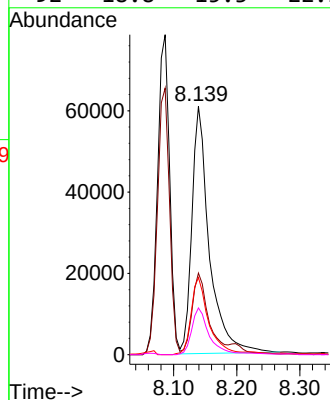
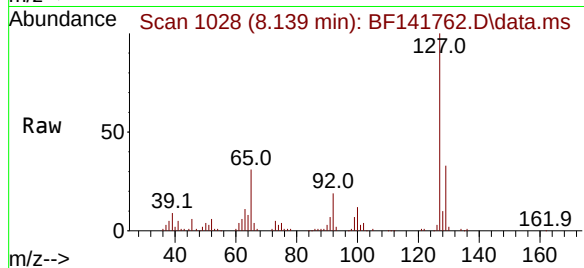
92 18.8 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#34

Hexachlorobutadiene

Concen: 44.209 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

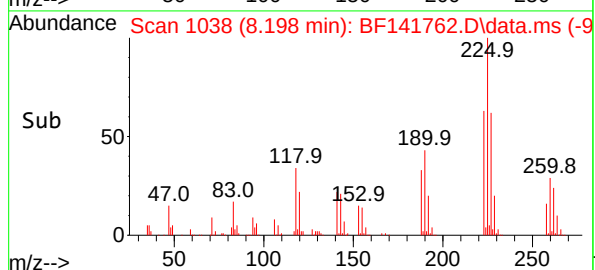
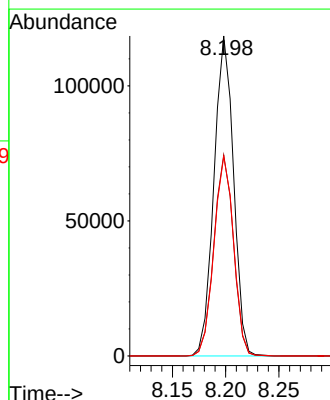
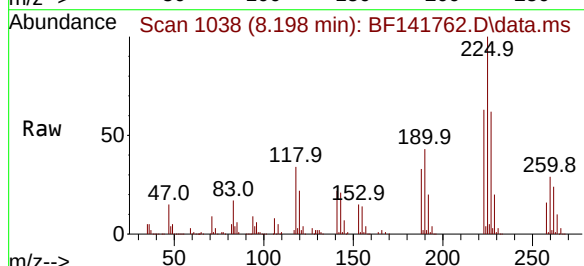
Tgt Ion:225 Resp: 151076

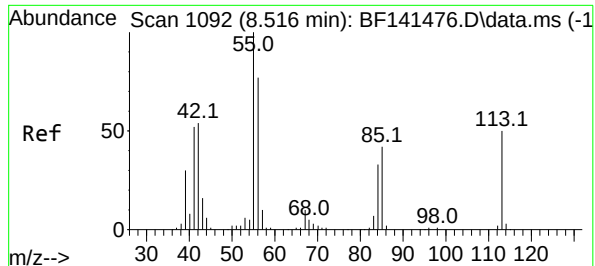
Ion Ratio Lower Upper

225 100

223 62.8 50.1 75.1

227 62.3 51.0 76.6





#35

Caprolactam

Concen: 47.428 ng m

RT: 8.510 min Scan# 1092

Delta R.T. -0.035 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

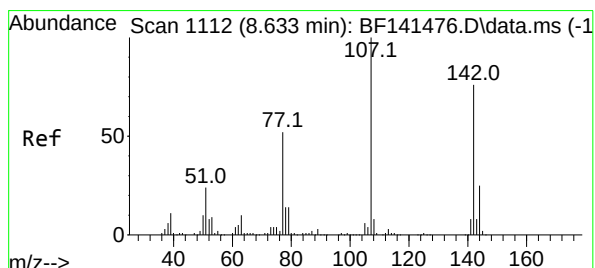
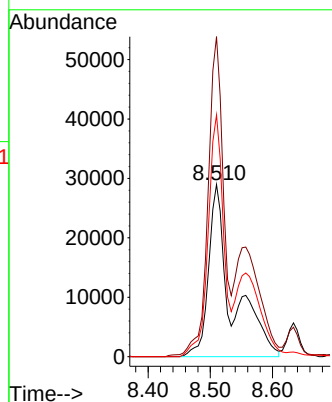
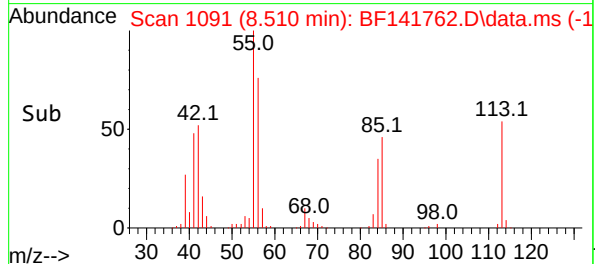
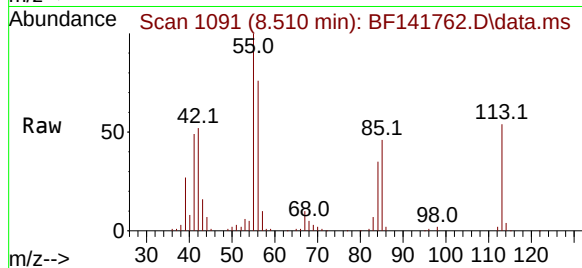
P001-CLAY-CF01-01MS

Tgt Ion:113 Resp: 75484

Ion	Ratio	Lower	Upper
113	100		
55	185.8	180.8	220.8
56	140.4	133.6	173.6

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#36

4-Chloro-3-methylphenol

Concen: 42.743 ng

RT: 8.633 min Scan# 1112

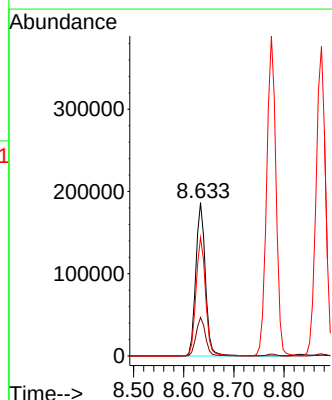
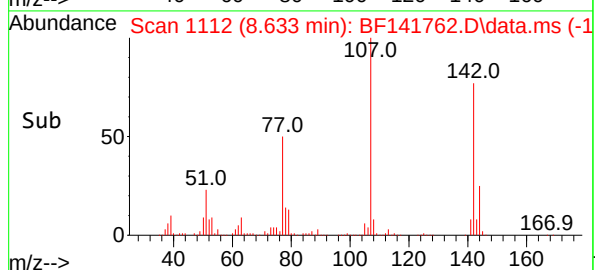
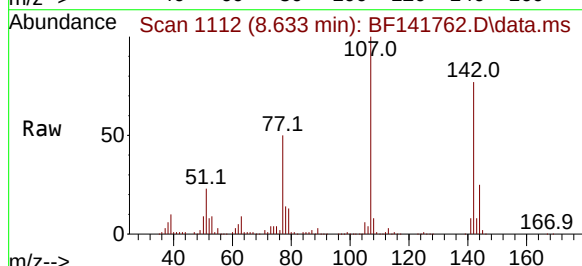
Delta R.T. -0.006 min

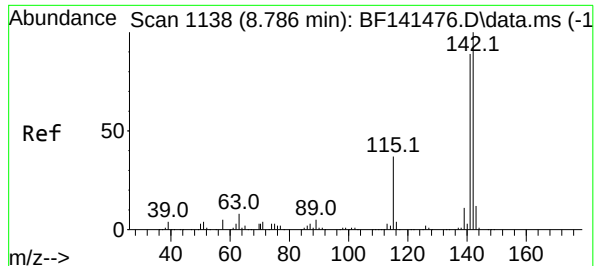
Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Tgt Ion:107 Resp: 247497

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.7	29.5
142	77.4	60.8	91.2





#37

2-Methylnaphthalene

Concen: 41.562 ng

RT: 8.775 min Scan# 1136

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:142 Resp: 50125

Ion Ratio Lower Upper

142 100

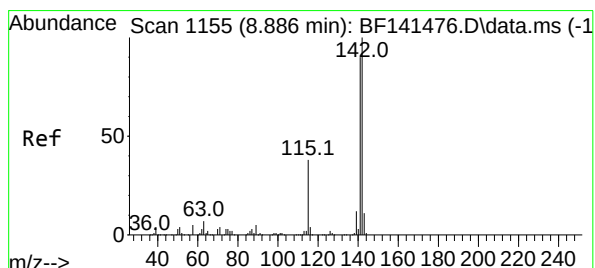
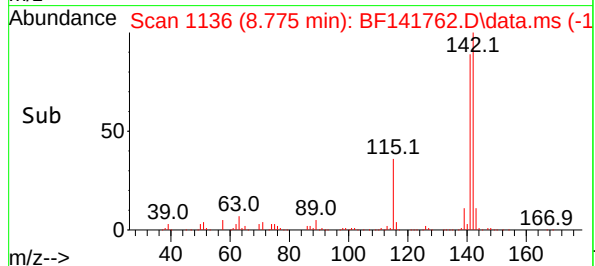
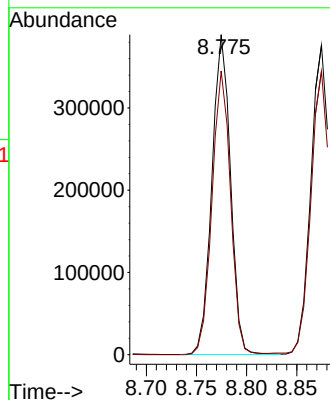
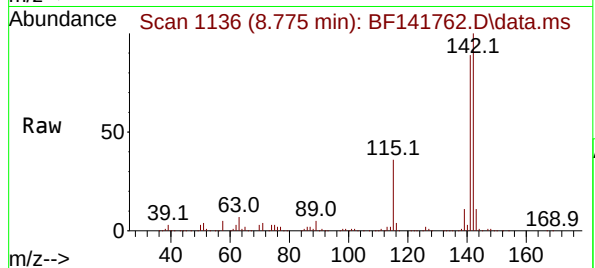
141 88.6 71.2 106.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#38

1-Methylnaphthalene

Concen: 41.703 ng

RT: 8.875 min Scan# 1153

Delta R.T. -0.012 min

Lab File: BF141762.D

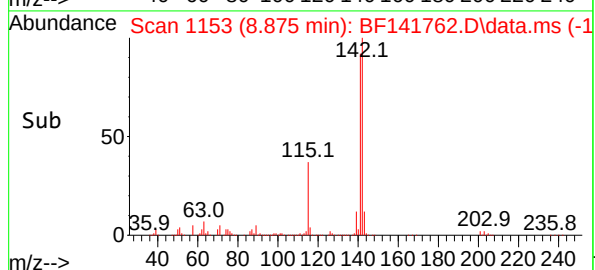
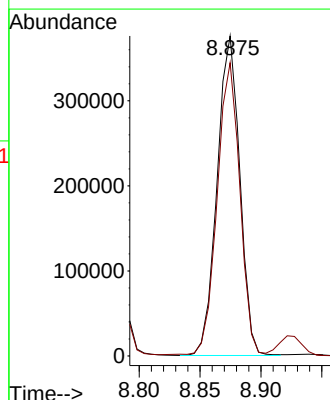
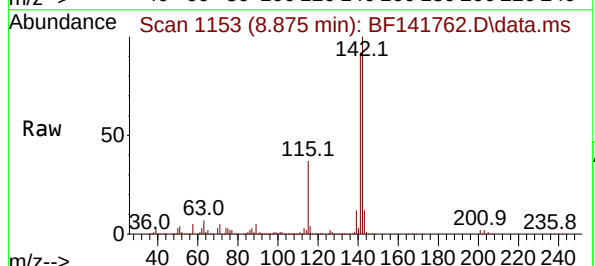
Acq: 25 Feb 2025 14:07

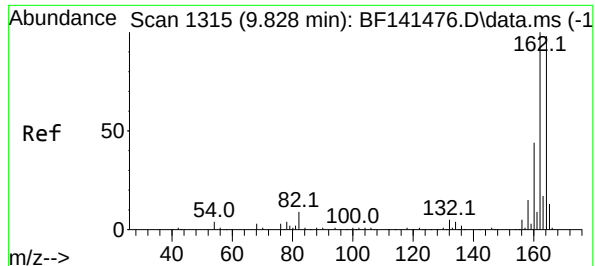
Tgt Ion:142 Resp: 487134

Ion Ratio Lower Upper

142 100

141 91.6 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1165

Delta R.T. -0.018 min

Lab File: BF141762.D

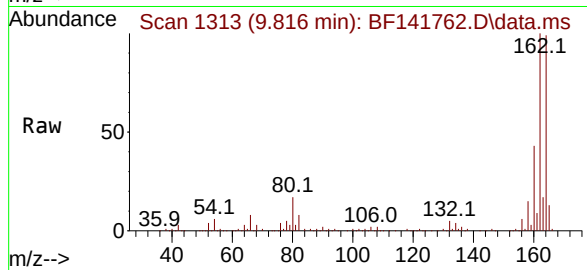
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion:164 Resp: 194554

Ion Ratio Lower Upper

164 100

162 100.8 81.3 121.9

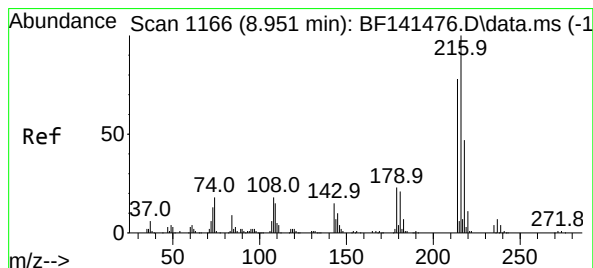
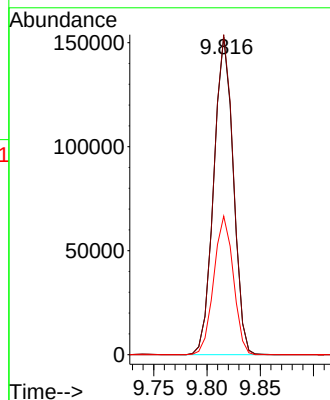
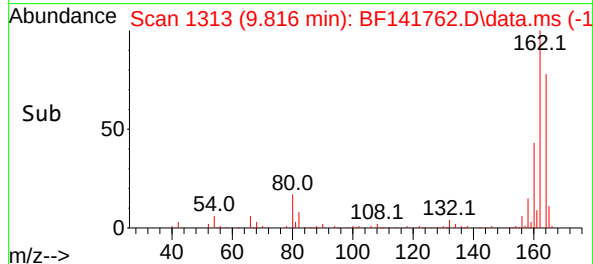
160 43.6 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 49.007 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Tgt Ion:216 Resp: 275848

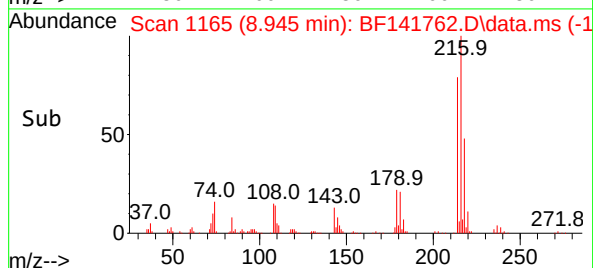
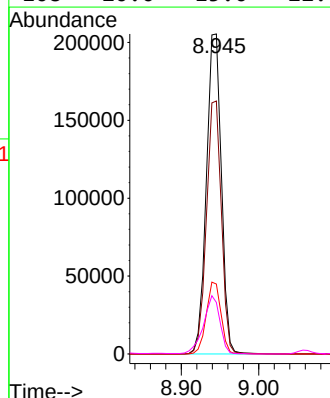
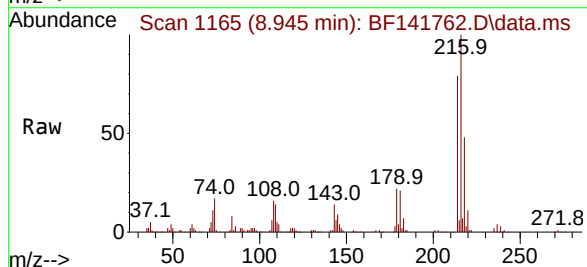
Ion Ratio Lower Upper

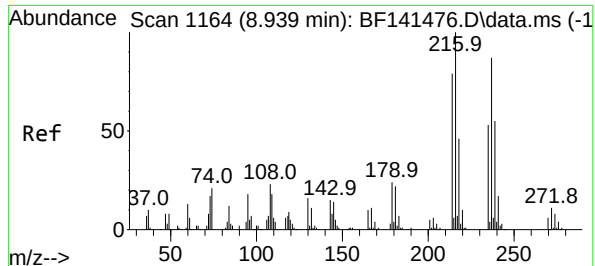
216 100

214 78.6 62.3 93.5

179 22.1 18.0 27.0

108 20.0 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 130.391 ng

RT: 8.928 min Scan# 1162

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:237 Resp: 24411

Ion Ratio Lower Upper

237 100

235 62.7 41.4 81.4

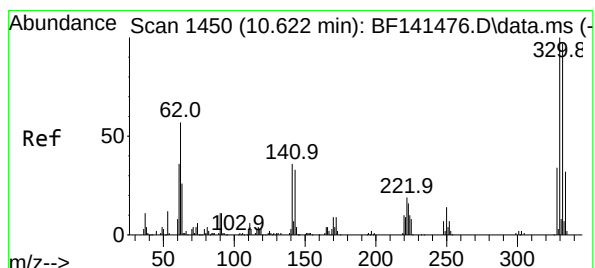
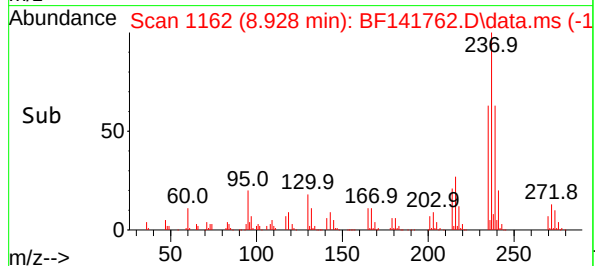
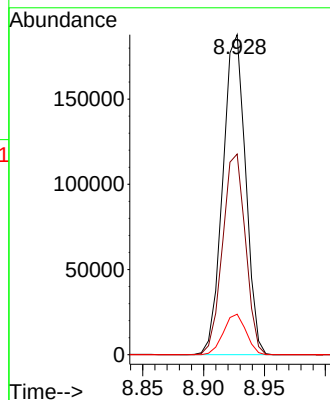
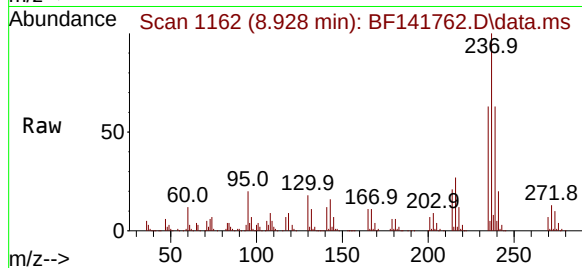
272 12.6 0.0 32.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#42

2,4,6-Tribromophenol

Concen: 94.150 ng

RT: 10.610 min Scan# 1448

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

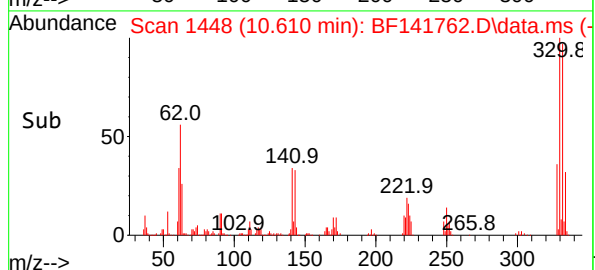
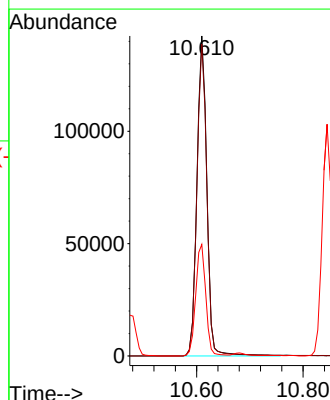
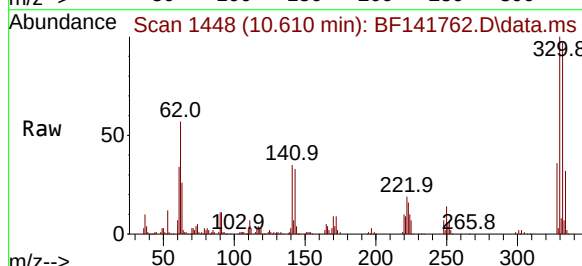
Tgt Ion:330 Resp: 184005

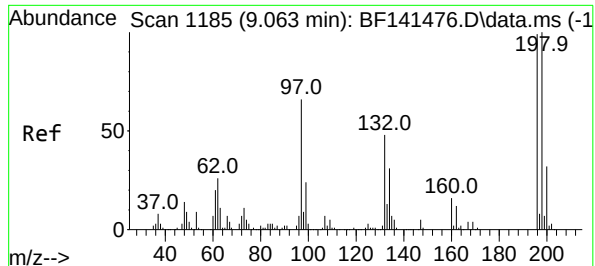
Ion Ratio Lower Upper

330 100

332 97.3 78.5 117.7

141 35.5 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 43.266 ng

RT: 9.063 min Scan# 1185

Delta R.T. -0.006 min

Lab File: BF141762.D

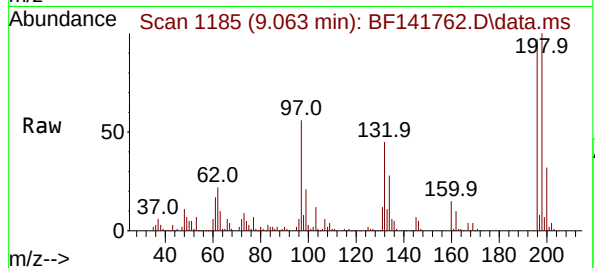
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion:196 Resp: 157390

Ion Ratio Lower Upper

196 100

198 103.0 80.6 121.0

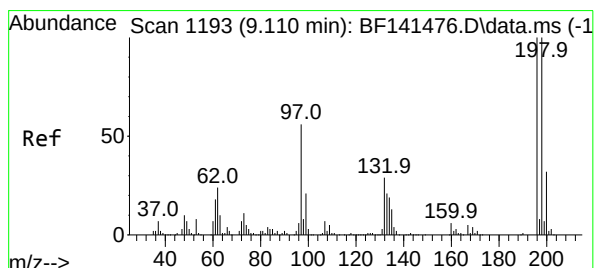
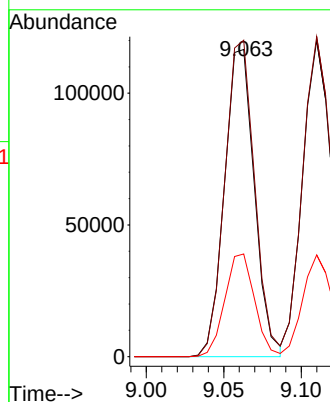
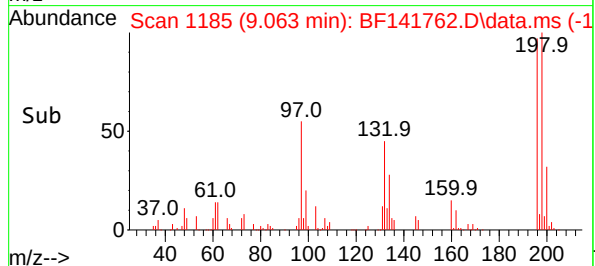
200 33.5 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#44

2,4,5-Trichlorophenol

Concen: 42.997 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Tgt Ion:196 Resp: 169521

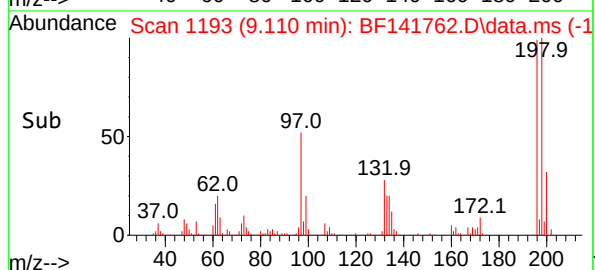
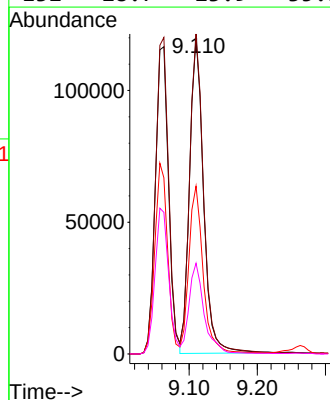
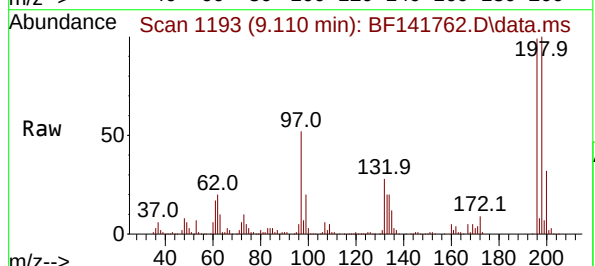
Ion Ratio Lower Upper

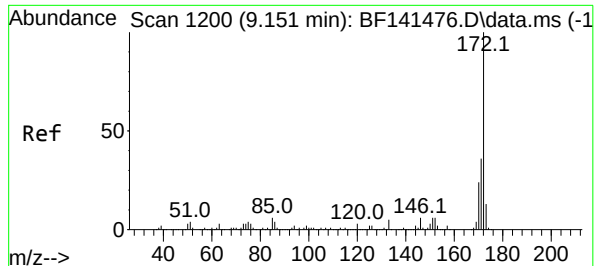
196 100

198 101.1 79.8 119.8

97 53.0 44.8 67.2

132 28.7 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 69.210 ng

RT: 9.139 min Scan# 1198

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:172 Resp: 87399

Ion Ratio Lower Upper

172 100

171 35.5 28.7 43.1

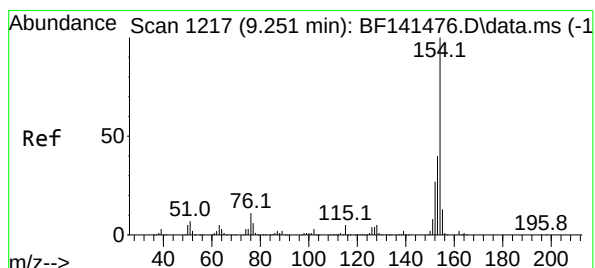
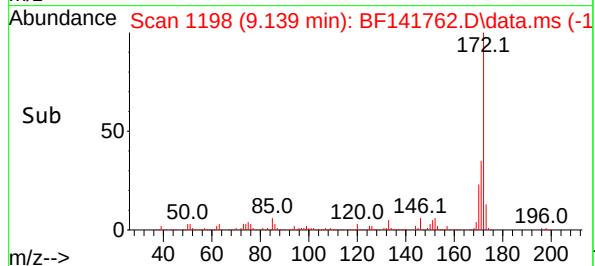
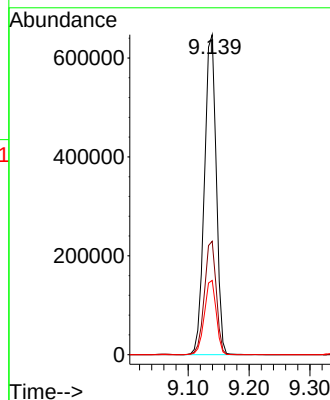
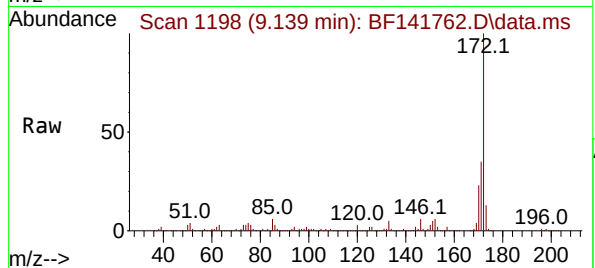
170 23.2 18.9 28.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#46

1,1'-Biphenyl

Concen: 48.113 ng

RT: 9.239 min Scan# 1215

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

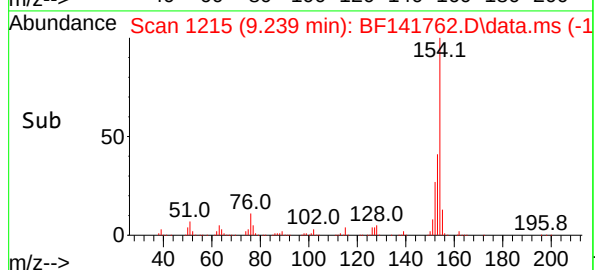
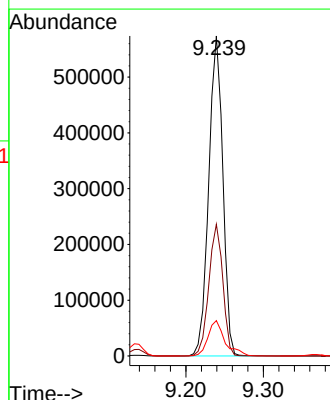
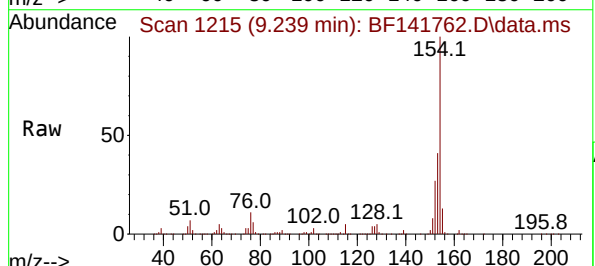
Tgt Ion:154 Resp: 725705

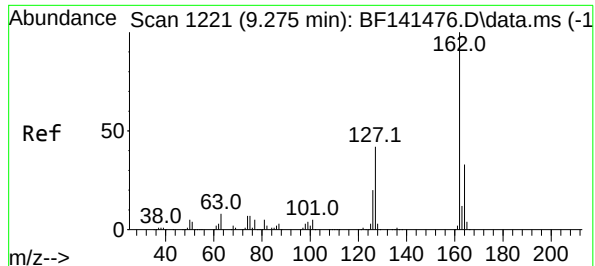
Ion Ratio Lower Upper

154 100

153 41.2 20.4 60.4

76 11.0 0.0 30.8





#47

2-Chloronaphthalene

Concen: 44.370 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:162 Resp: 49489

Ion Ratio Lower Upper

162 100

127 42.1 34.1 51.1

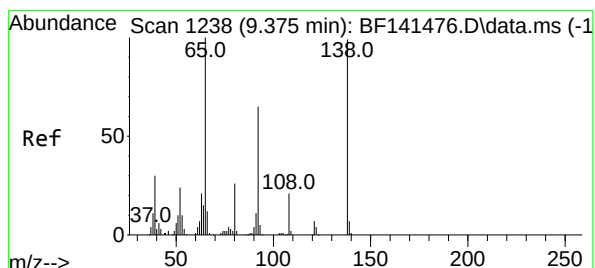
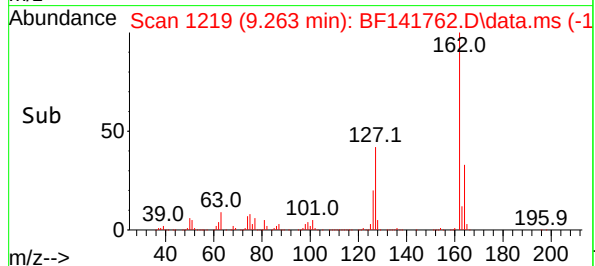
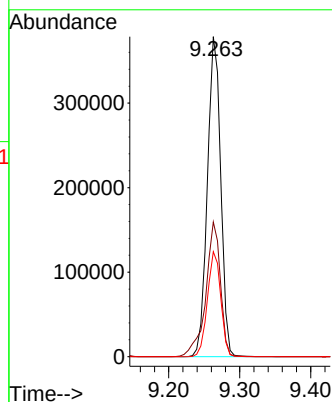
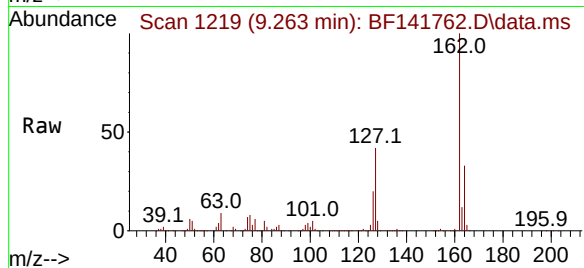
164 32.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#48

2-Nitroaniline

Concen: 42.929 ng

RT: 9.369 min Scan# 1237

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

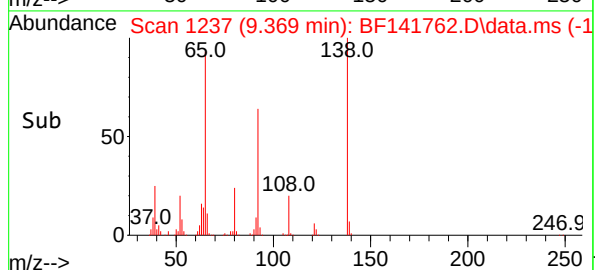
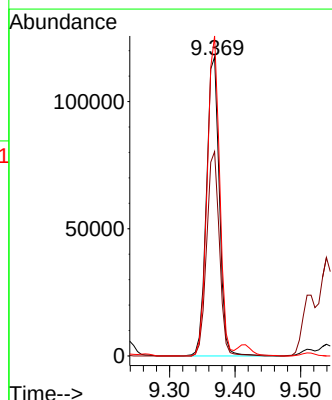
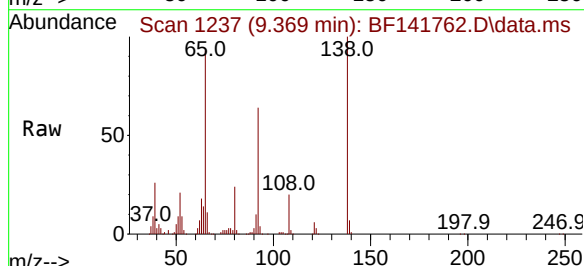
Tgt Ion: 65 Resp: 160694

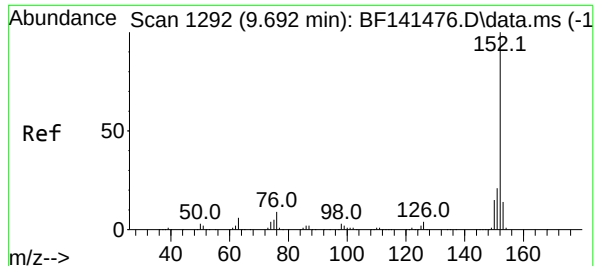
Ion Ratio Lower Upper

65 100

92 68.3 52.2 78.2

138 107.0 79.5 119.3





#49

Acenaphthylene

Concen: 45.562 ng

RT: 9.680 min Scan# 1290

Delta R.T. -0.012 min

Lab File: BF141762.D

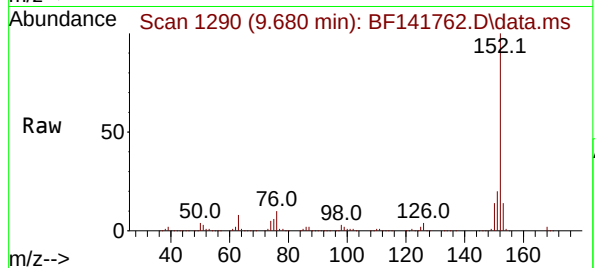
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion:152 Resp: 75586

Ion Ratio Lower Upper

152 100

151 20.4 16.4 24.6

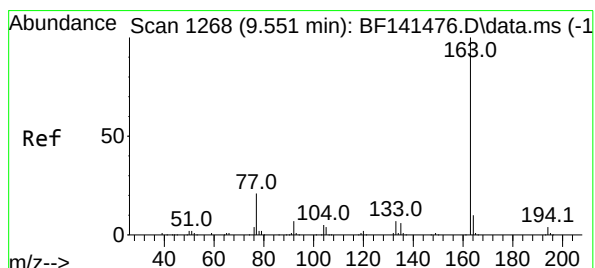
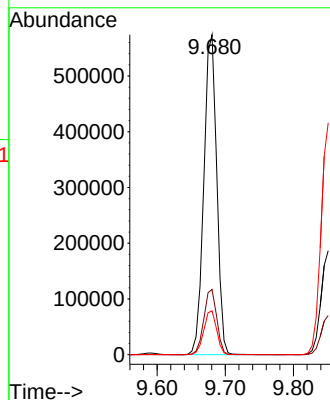
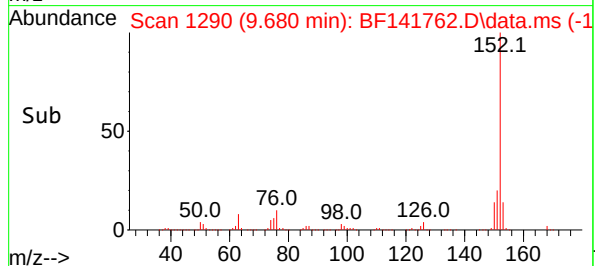
153 13.7 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#50

Dimethylphthalate

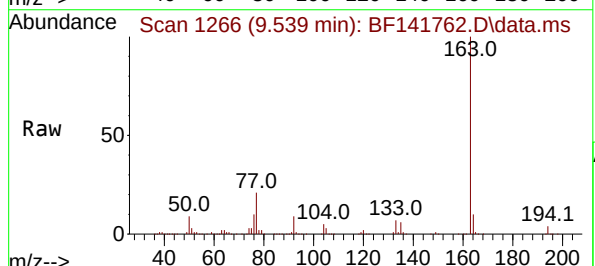
Concen: 44.018 ng

RT: 9.539 min Scan# 1266

Delta R.T. -0.023 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07



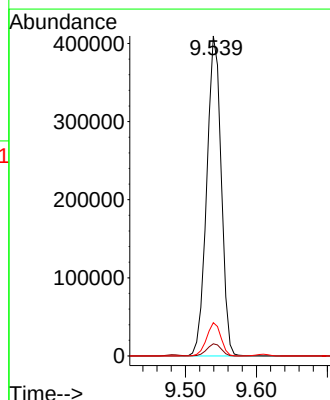
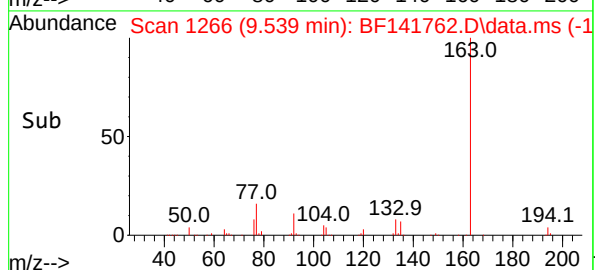
Tgt Ion:163 Resp: 581376

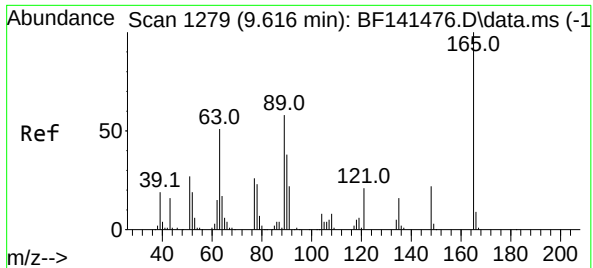
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.4

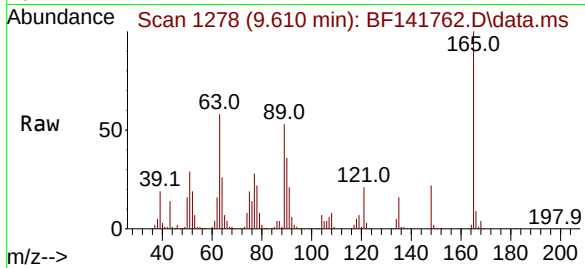
164 10.4 7.9 11.9





#51
2,6-Dinitrotoluene
Concen: 44.370 ng
RT: 9.610 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

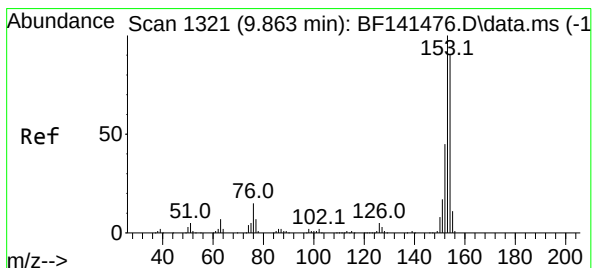
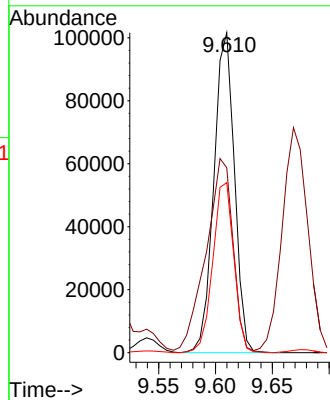
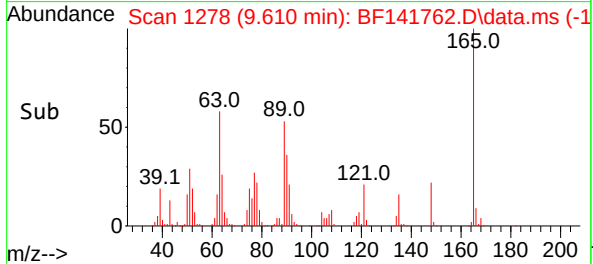
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:165 Resp: 12811
Ion Ratio Lower Upper
165 100
63 57.8 49.4 74.0
89 53.2 46.5 69.7

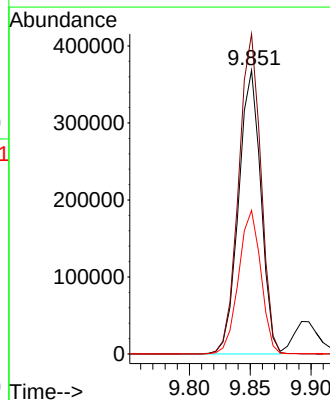
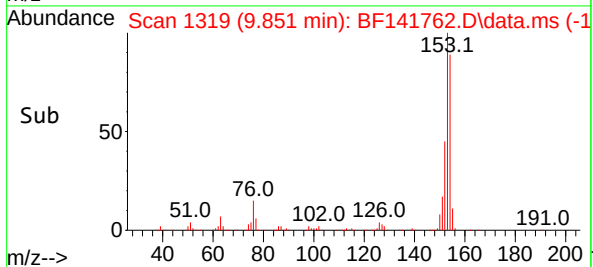
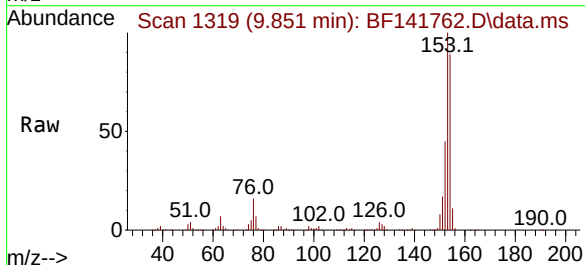
Manual Integrations
APPROVED

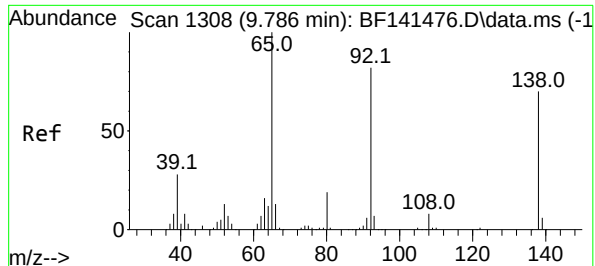
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#52
Acenaphthene
Concen: 42.116 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:154 Resp: 469732
Ion Ratio Lower Upper
154 100
153 112.8 89.2 133.8
152 50.6 39.8 59.8





#53

3-Nitroaniline

Concen: 27.053 ng

RT: 9.780 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:138 Resp: 84069

Ion Ratio Lower Upper

138 100

108 11.1 9.0 13.4

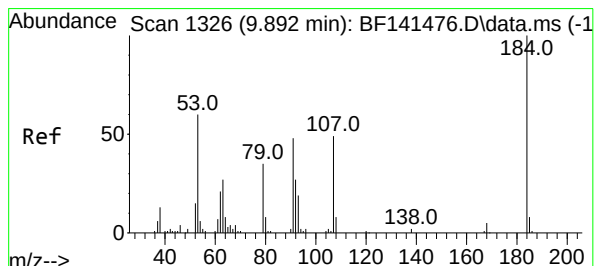
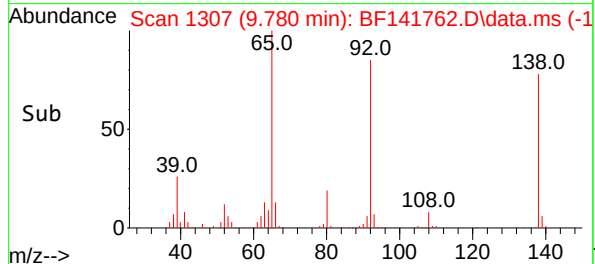
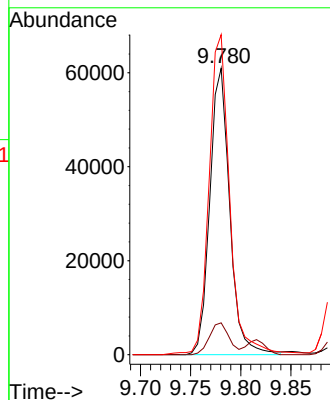
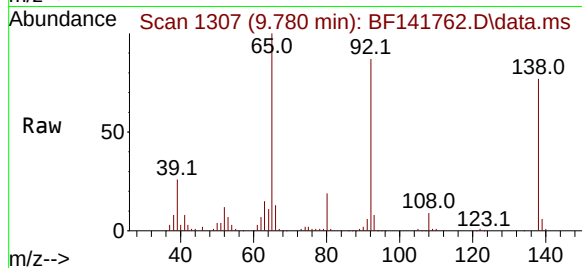
92 111.7 93.7 140.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#54

2,4-Dinitrophenol

Concen: 62.880 ng

RT: 9.898 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

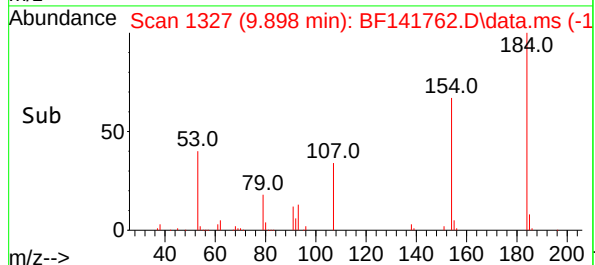
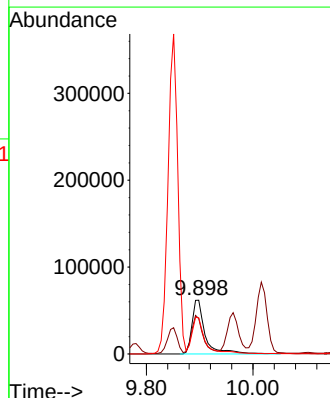
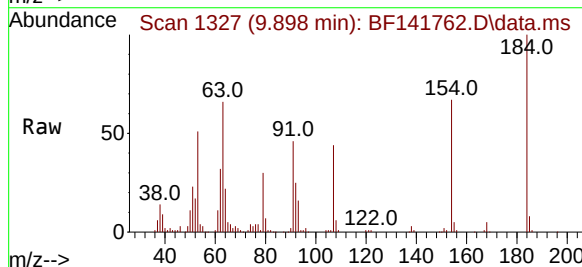
Tgt Ion:184 Resp: 107902

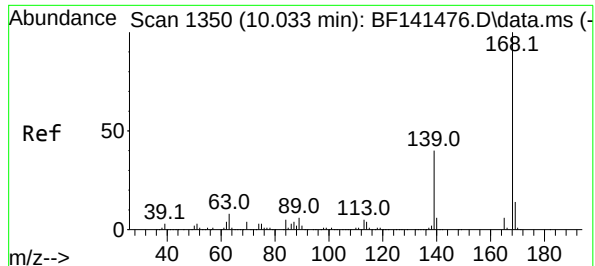
Ion Ratio Lower Upper

184 100

63 65.9 61.0 91.6

154 67.5 59.9 89.9





#55

Dibenzenofuran

Concen: 41.505 ng

RT: 10.022 min Scan# 1348

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:168 Resp: 67946

Ion Ratio Lower Upper

168 100

139 40.8 32.7 49.1

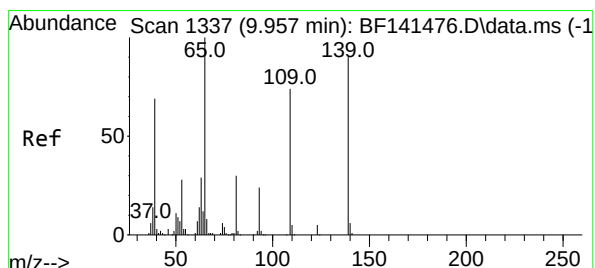
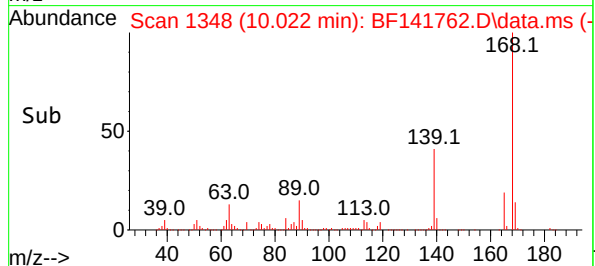
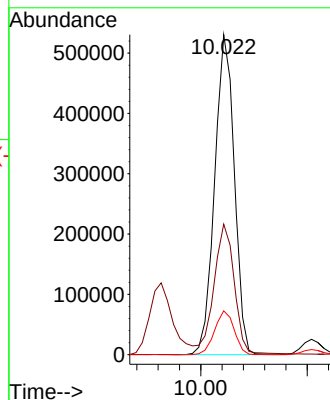
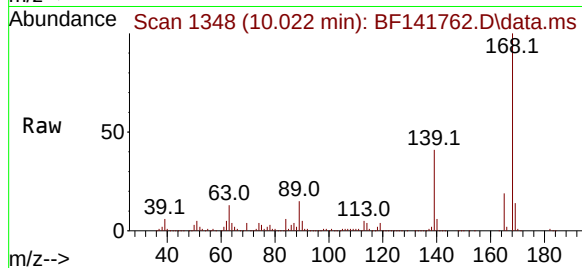
169 13.7 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#56

4-Nitrophenol

Concen: 77.578 ng

RT: 9.963 min Scan# 1338

Delta R.T. -0.006 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

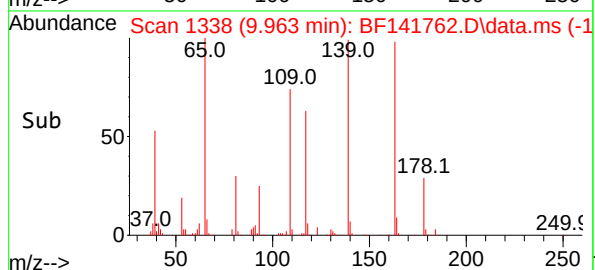
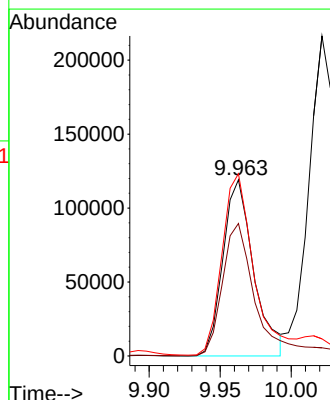
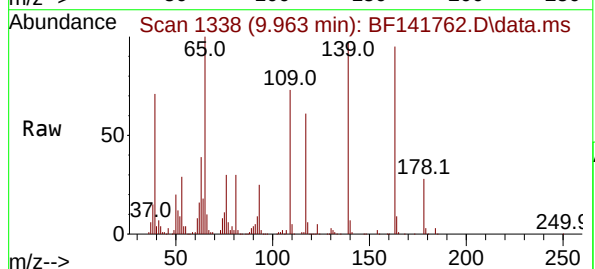
Tgt Ion:139 Resp: 178963

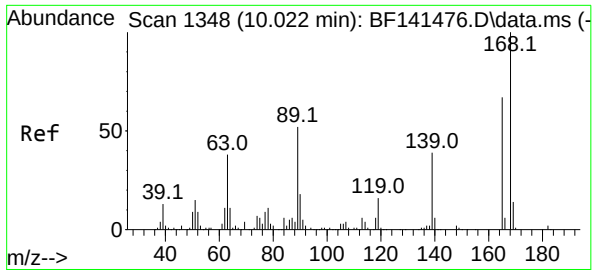
Ion Ratio Lower Upper

139 100

109 75.3 62.0 102.0

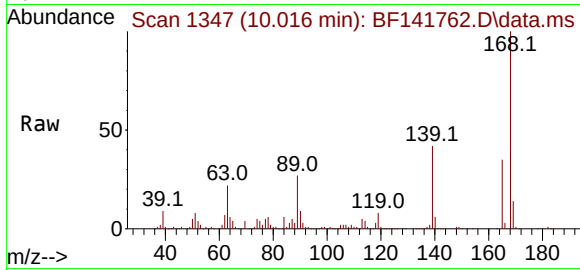
65 103.5 91.2 131.2





#57
2,4-Dinitrotoluene
Concen: 43.913 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

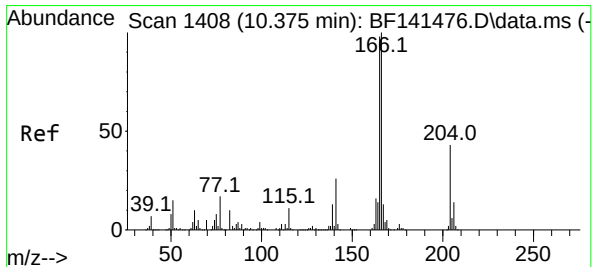
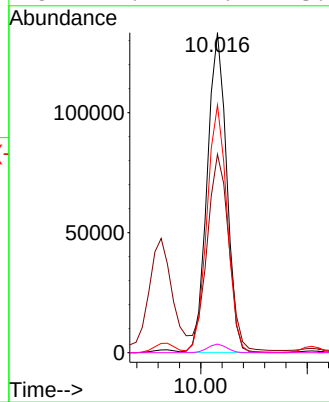
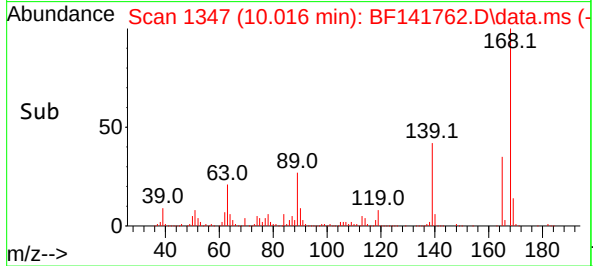
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:165 Resp: 168790
Ion Ratio Lower Upper
165 100
63 62.0 46.4 69.6
89 77.4 61.8 92.6
182 2.7 2.2 3.2

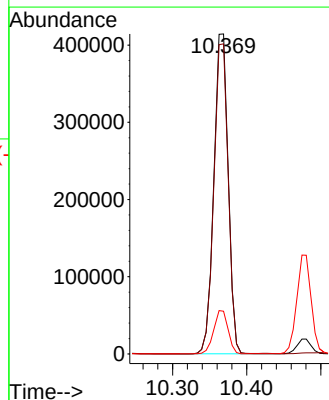
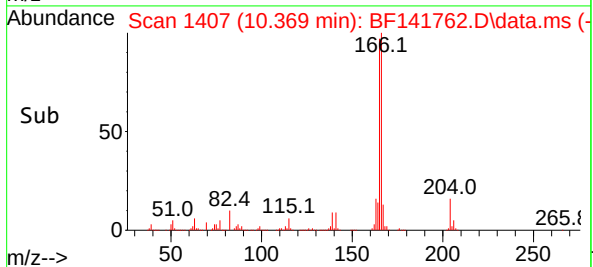
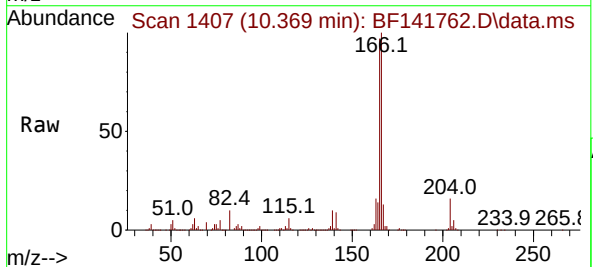
Manual Integrations
APPROVED

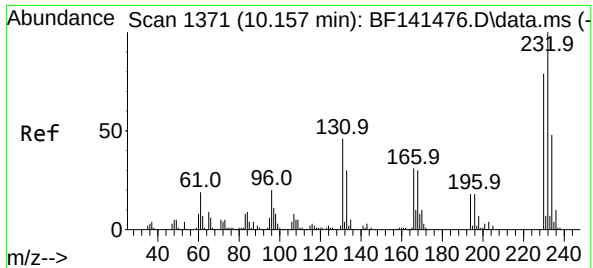
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#58
Fluorene
Concen: 44.002 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

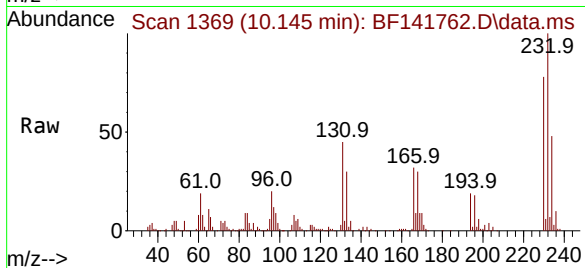
Tgt Ion:166 Resp: 556982
Ion Ratio Lower Upper
166 100
165 96.9 78.2 117.2
167 13.3 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 42.444 ng
RT: 10.145 min Scan# 1369
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

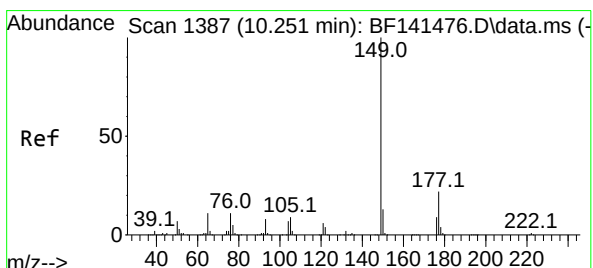
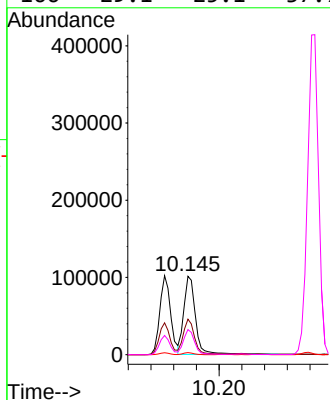
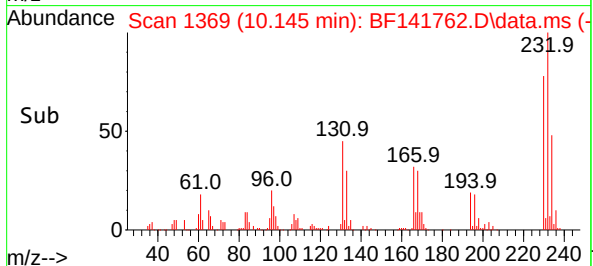
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:232 Resp: 144069
Ion Ratio Lower Upper
232 100
131 42.1 39.2 58.8
130 2.3 2.1 3.1
166 29.1 25.1 37.7

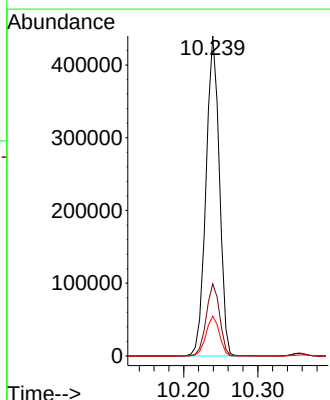
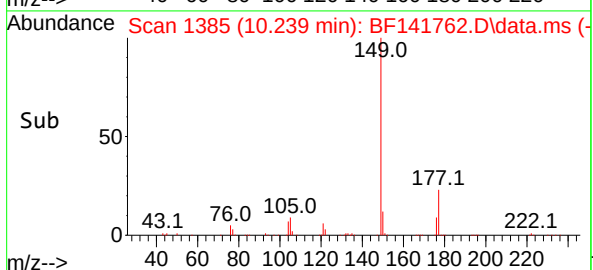
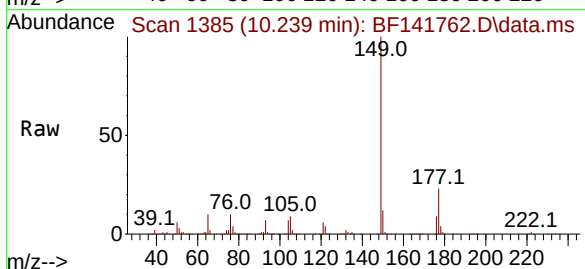
Manual Integrations
APPROVED

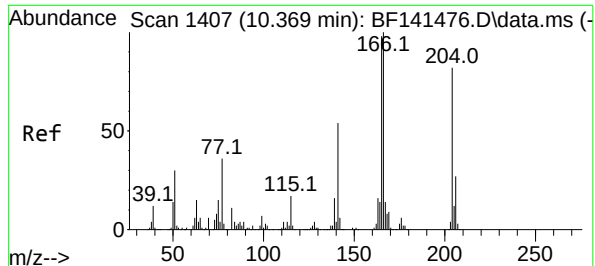
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#60
Diethylphthalate
Concen: 42.482 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

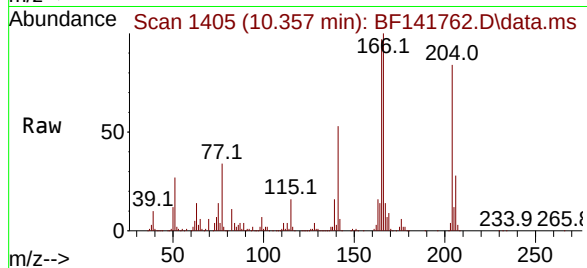
Tgt Ion:149 Resp: 552047
Ion Ratio Lower Upper
149 100
177 22.6 17.8 26.6
150 12.5 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 44.014 ng
RT: 10.357 min Scan# 1405
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

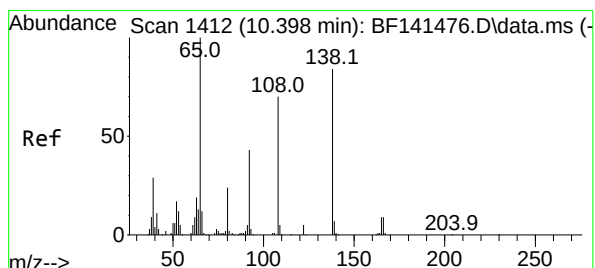
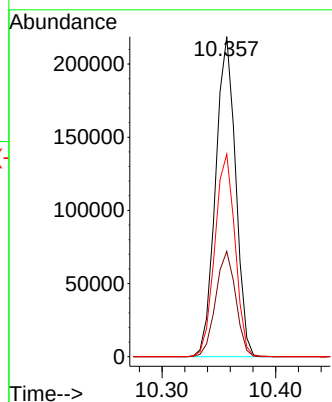
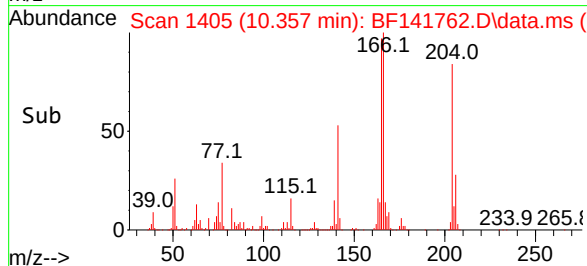
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:204 Resp: 268025
Ion Ratio Lower Upper
204 100
206 32.9 26.6 40.0
141 63.3 51.9 77.9

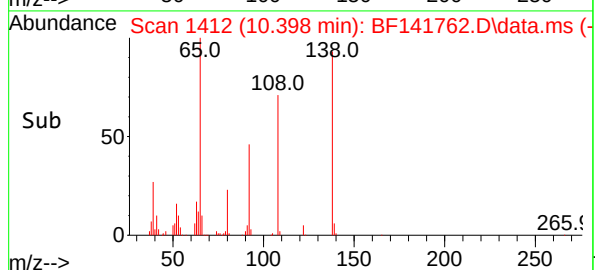
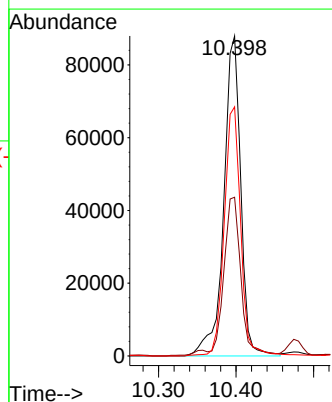
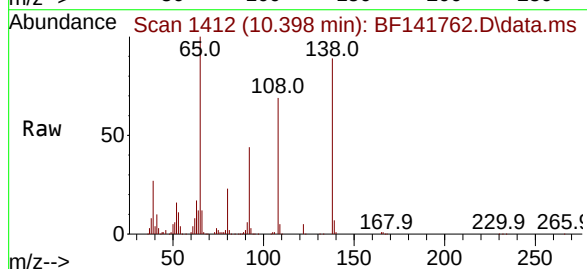
Manual Integrations
APPROVED

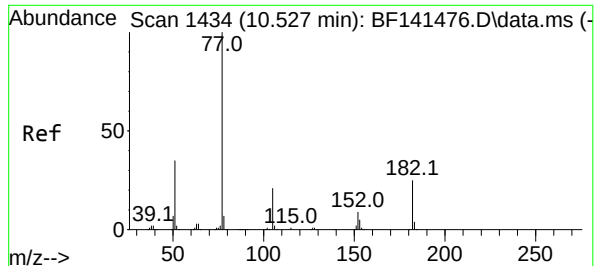
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#62
4-Nitroaniline
Concen: 42.465 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

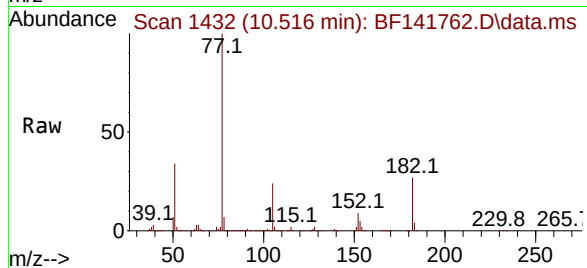
Tgt Ion:138 Resp: 133998
Ion Ratio Lower Upper
138 100
92 49.6 31.3 71.3
108 77.8 63.7 103.7





#63
Azobenzene
Concen: 46.111 ng
RT: 10.516 min Scan# 1434
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

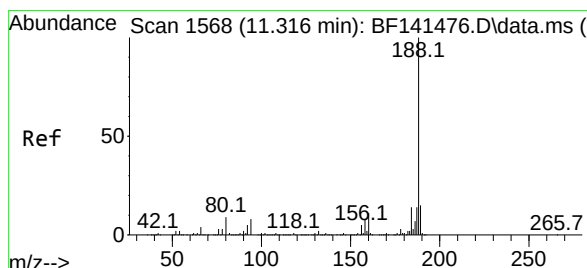
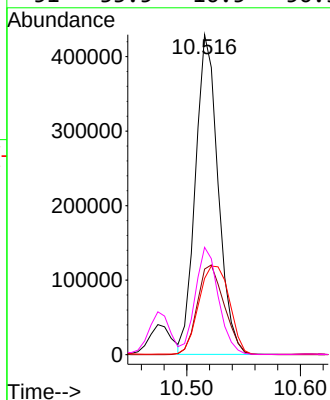
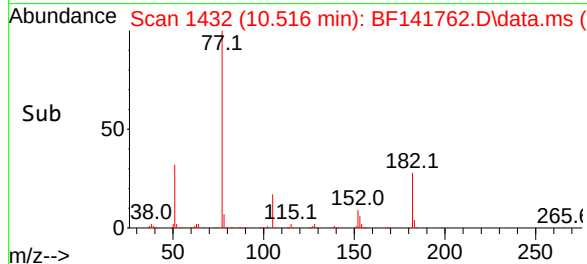
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion: 77 Resp: 59568
Ion Ratio Lower Upper
77 100
182 26.8 4.7 44.7
105 23.8 0.4 40.4
51 33.5 16.5 56.5

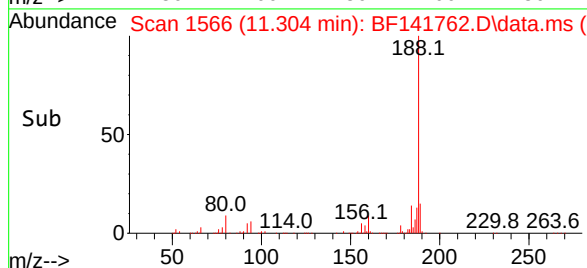
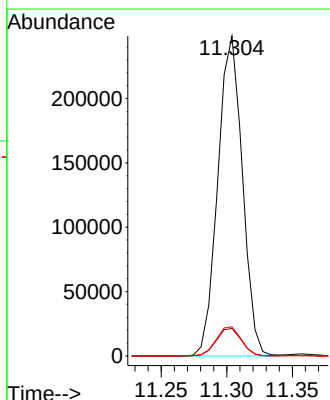
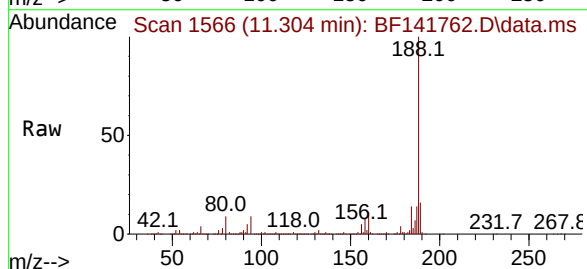
Manual Integrations
APPROVED

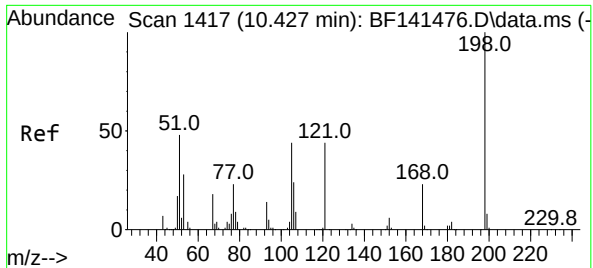
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:188 Resp: 323859
Ion Ratio Lower Upper
188 100
94 8.6 6.6 10.0
80 9.1 7.3 10.9





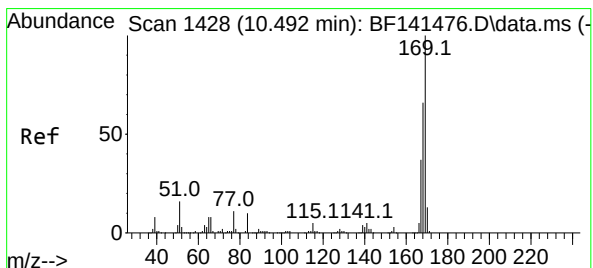
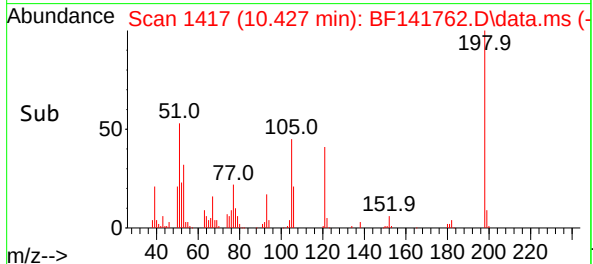
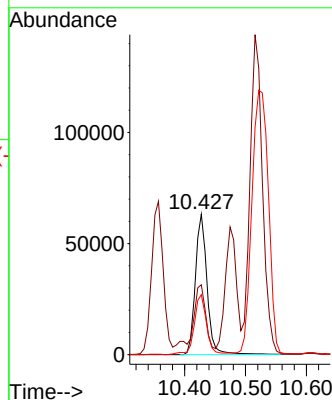
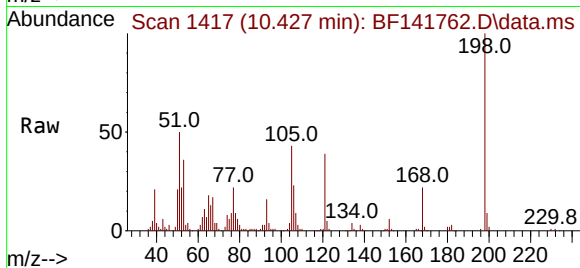
#65
4,6-Dinitro-2-methylphenol
Concen: 37.608 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS

Tgt Ion:198 Resp: 84600
Ion Ratio Lower Upper
198 100
51 49.8 37.4 77.4
105 42.7 25.2 65.2

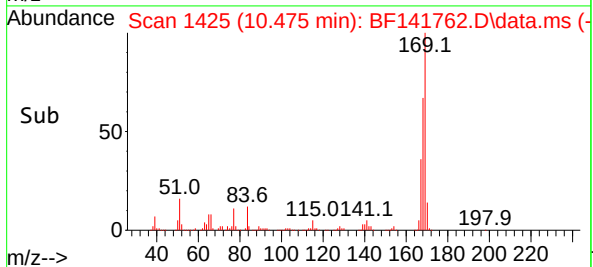
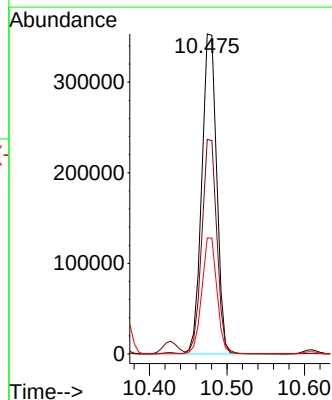
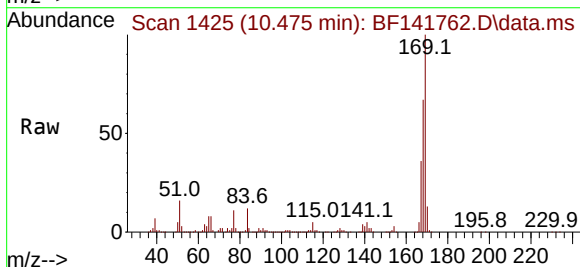
Manual Integrations
APPROVED

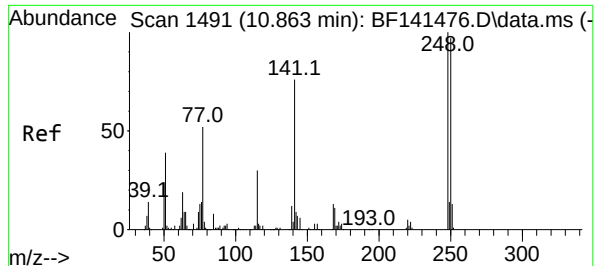
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#66
n-Nitrosodiphenylamine
Concen: 45.558 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

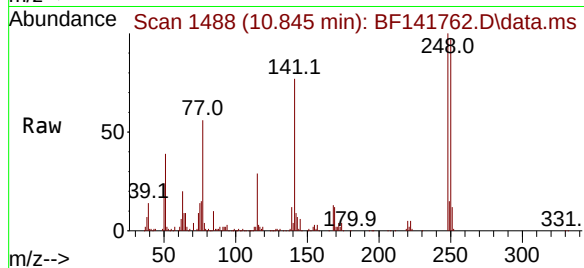
Tgt Ion:169 Resp: 472300
Ion Ratio Lower Upper
169 100
168 67.0 53.3 79.9
167 36.2 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 45.796 ng
RT: 10.845 min Scan# 1491
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

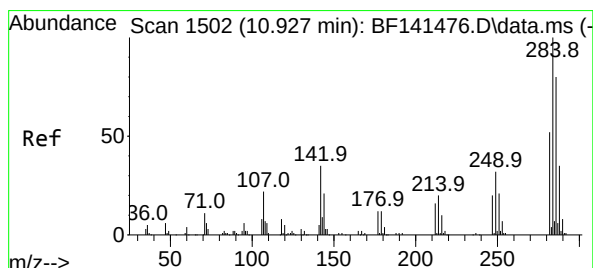
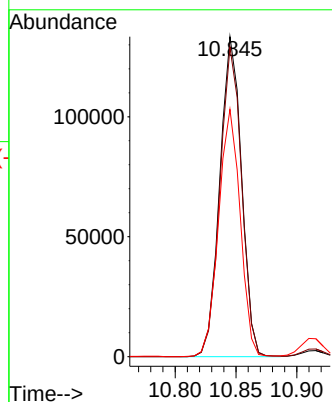
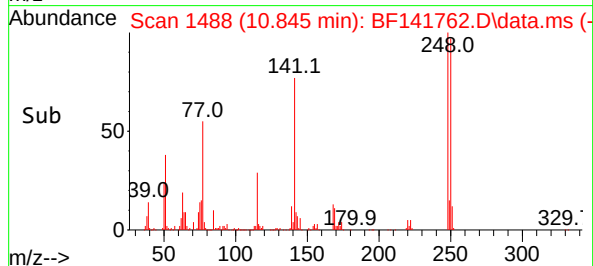
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



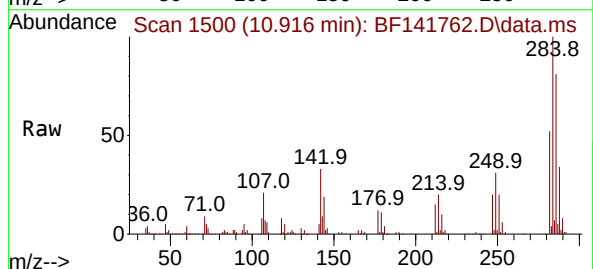
Tgt Ion:248 Resp: 165760
Ion Ratio Lower Upper
248 100
250 96.6 77.8 116.6
141 77.3 60.6 90.8

Manual Integrations
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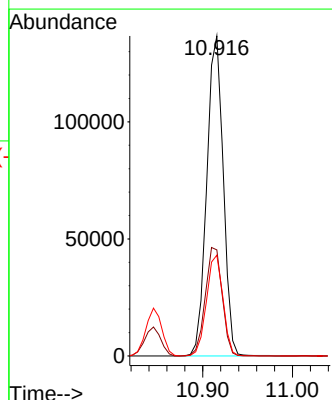
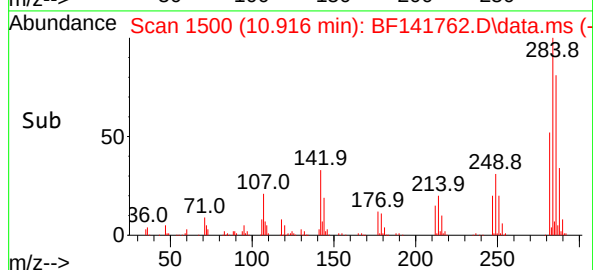
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

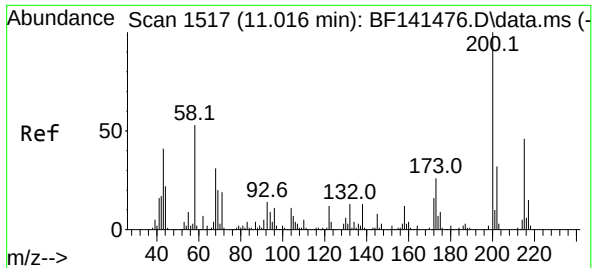


#68
Hexachlorobenzene
Concen: 46.793 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.012 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07



Tgt Ion:284 Resp: 174405
Ion Ratio Lower Upper
284 100
142 33.1 28.0 42.0
249 31.5 25.8 38.8





#69

Atrazine

Concen: 57.328 ng

RT: 11.010 min Scan# 1517

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:200 Resp: 178290

Ion Ratio Lower Upper

200 100

173 25.4 5.9 45.9

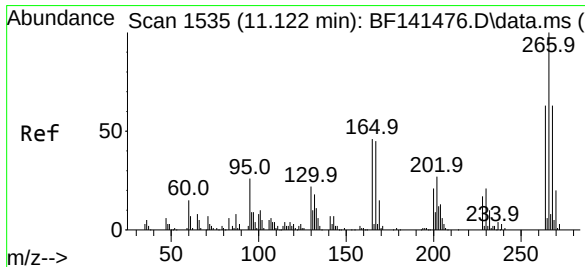
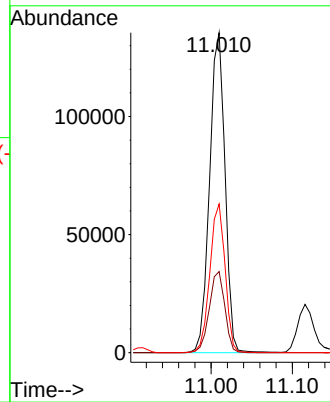
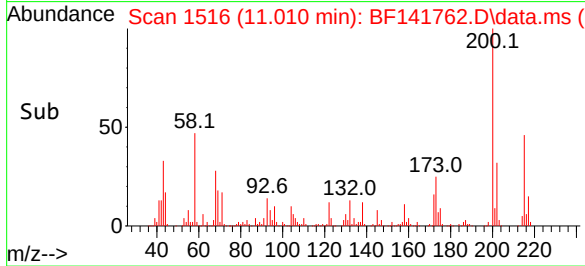
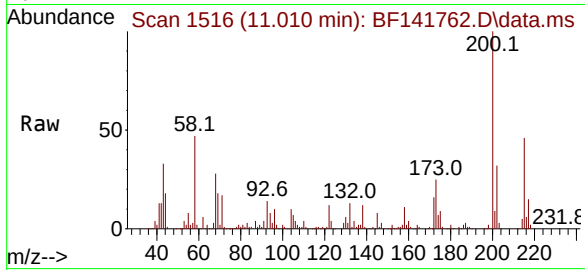
215 46.4 25.9 65.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#70

Pentachlorophenol

Concen: 67.302 ng

RT: 11.116 min Scan# 1534

Delta R.T. -0.012 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

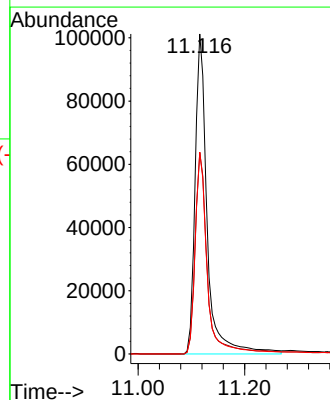
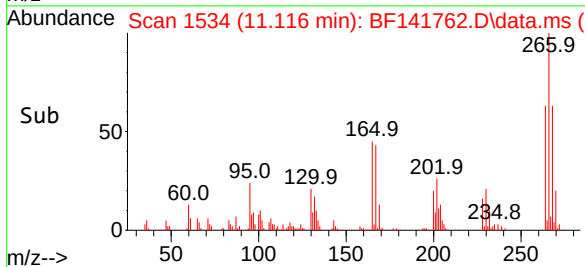
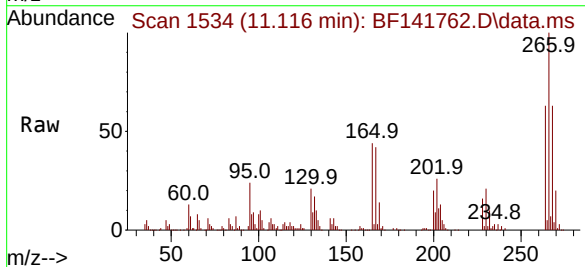
Tgt Ion:266 Resp: 160396

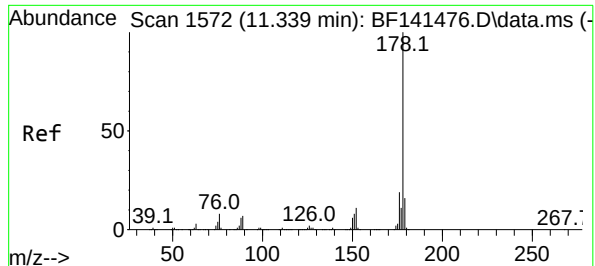
Ion Ratio Lower Upper

266 100

268 63.0 50.1 75.1

264 63.1 50.1 75.1





#71

Phenanthrene

Concen: 44.718 ng

RT: 11.327 min Scan# 1572

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:178 Resp: 79719

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

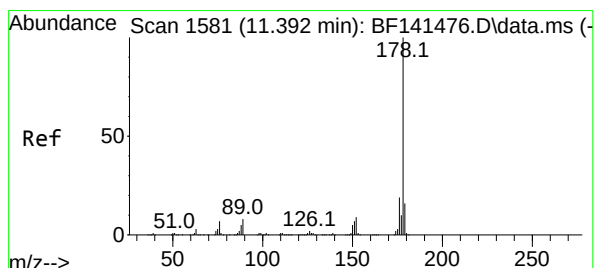
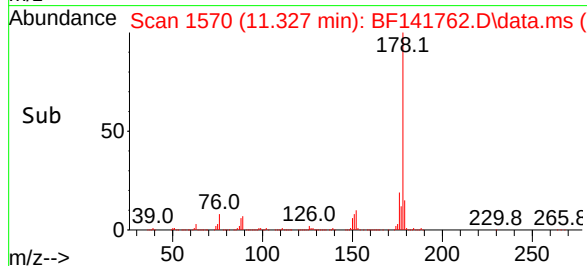
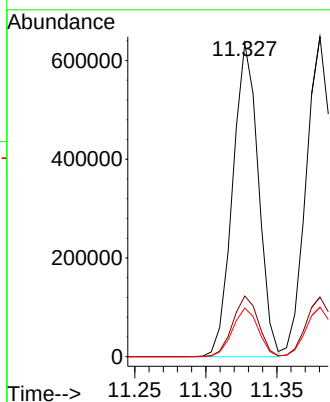
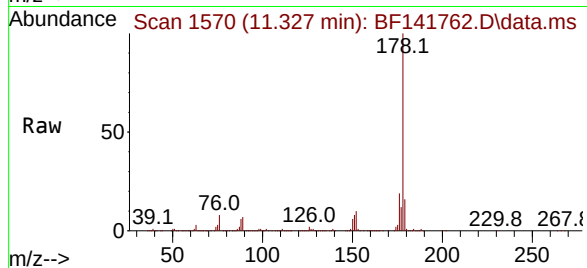
179 15.5 12.4 18.6

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#72

Anthracene

Concen: 46.220 ng

RT: 11.380 min Scan# 1579

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

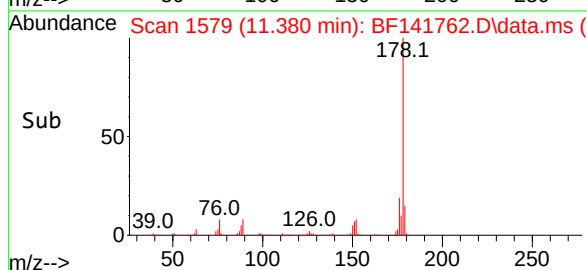
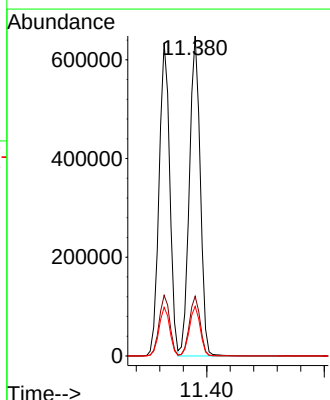
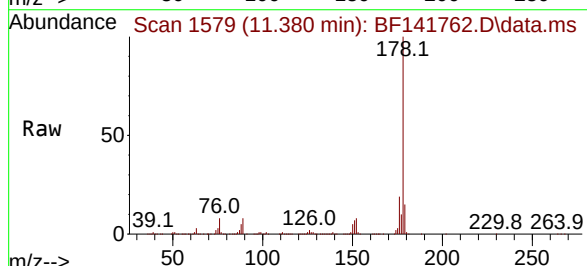
Tgt Ion:178 Resp: 828278

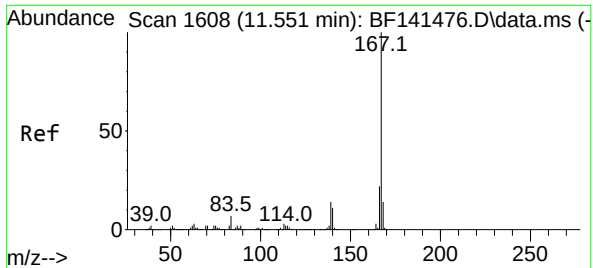
Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

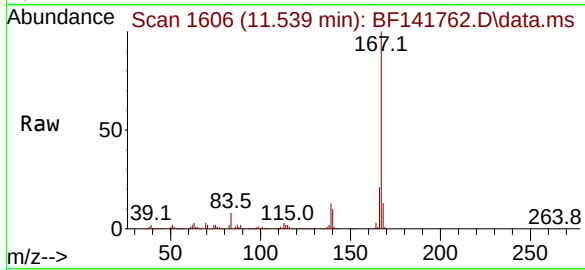
179 15.5 12.4 18.6





#73
 Carbazole
 Concen: 44.056 ng
 RT: 11.539 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF141762.D
 Acq: 25 Feb 2025 14:07

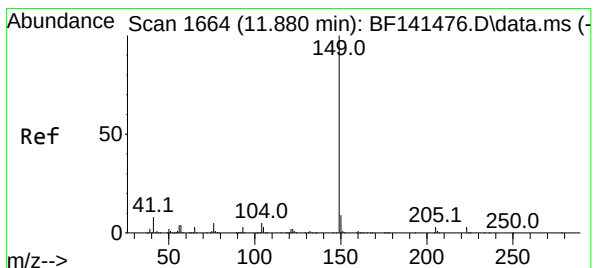
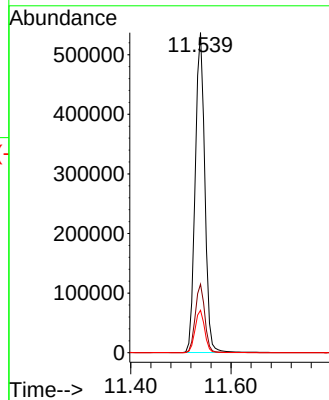
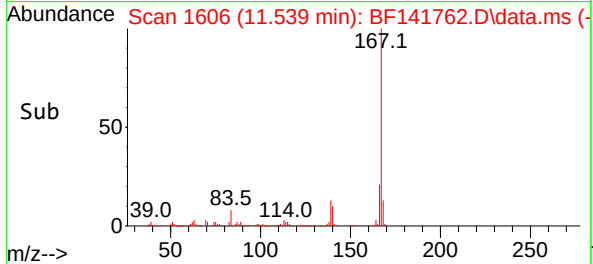
Instrument :
 BNA_F
 ClientSampleId :
 P001-CLAY-CF01-01MS



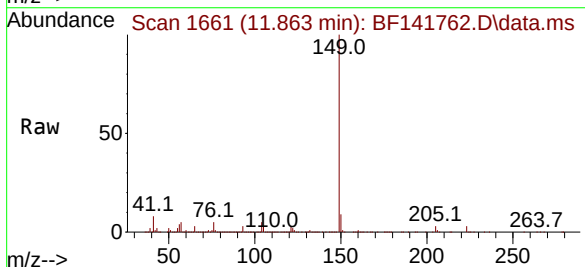
Tgt Ion:167 Resp: 71038
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.4 26.2
 139 13.3 10.9 16.3

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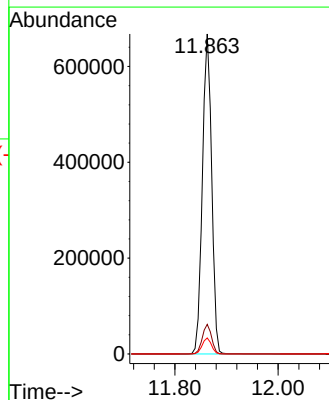
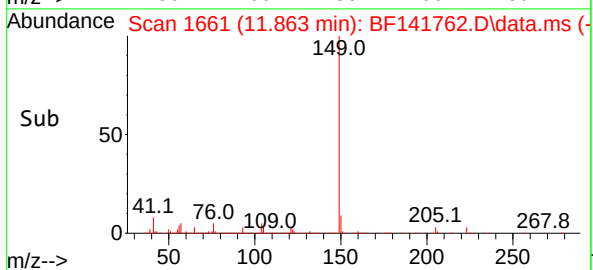
Reviewed By :Anahy Claudio 02/26/2025
 Supervised By :mohammad ahmed 02/28/2025

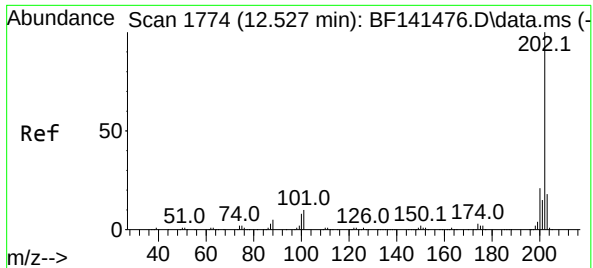


#74
 Di-n-butylphthalate
 Concen: 44.631 ng
 RT: 11.863 min Scan# 1661
 Delta R.T. -0.018 min
 Lab File: BF141762.D
 Acq: 25 Feb 2025 14:07



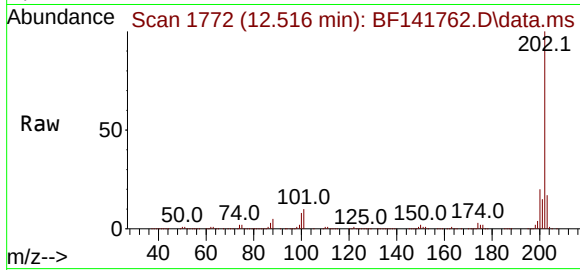
Tgt Ion:149 Resp: 830961
 Ion Ratio Lower Upper
 149 100
 150 9.2 7.4 11.0
 104 5.0 4.2 6.2





#75
Fluoranthene
Concen: 41.553 ng
RT: 12.516 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

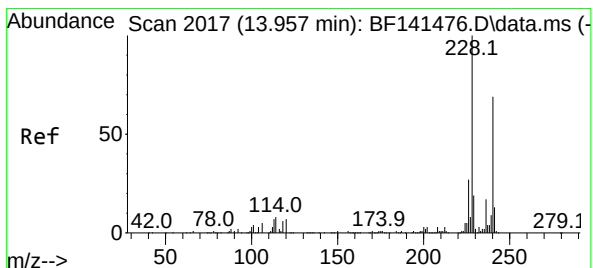
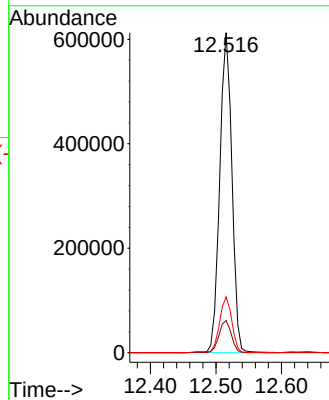
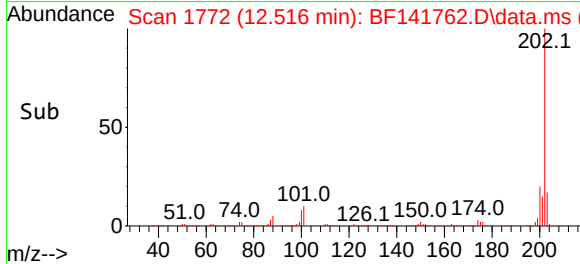
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



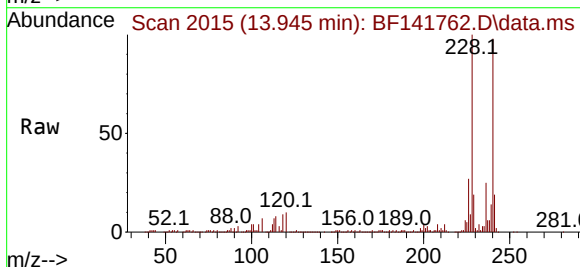
Tgt Ion:202 Resp: 785350
Ion Ratio Lower Upper
202 100
101 10.1 0.0 30.2
203 17.4 0.0 37.6

Manual Integrations
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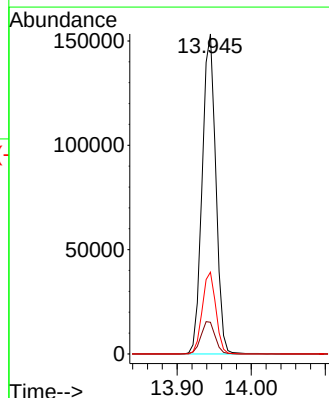
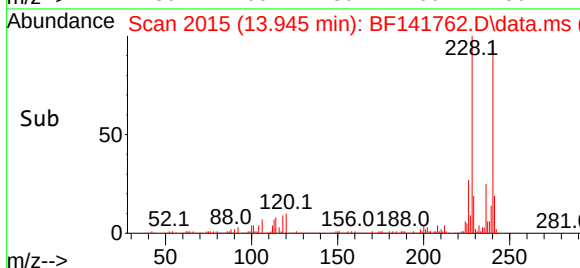
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

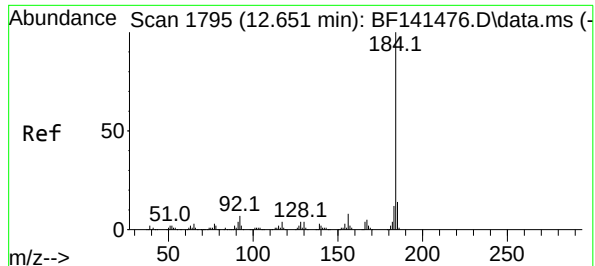


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07



Tgt Ion:240 Resp: 195463
Ion Ratio Lower Upper
240 100
120 9.9 8.0 12.0
236 25.6 19.8 29.8





#77

Benzidine

Concen: 64.980 ng

RT: 12.639 min Scan# 1810

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:184 Resp: 280110

Ion Ratio Lower Upper

184 100

185 14.8 11.3 16.9

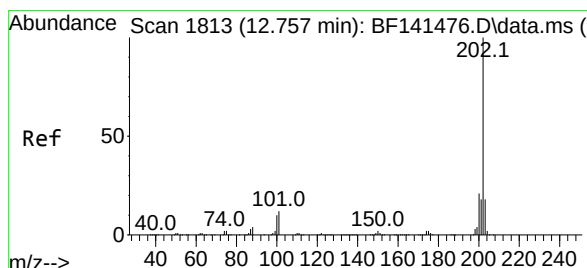
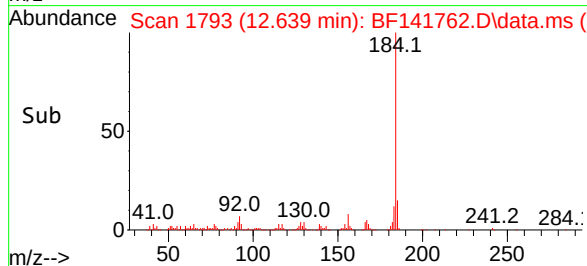
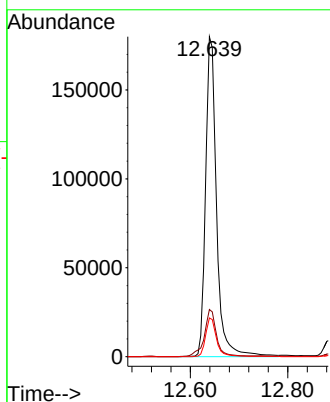
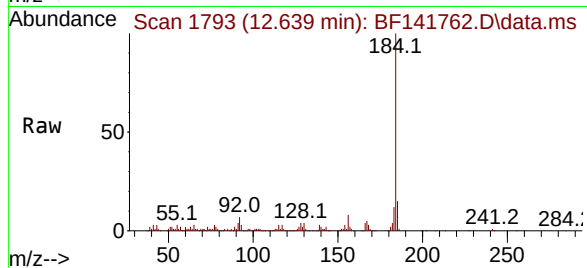
183 12.1 9.3 13.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#78

Pyrene

Concen: 46.789 ng

RT: 12.745 min Scan# 1811

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

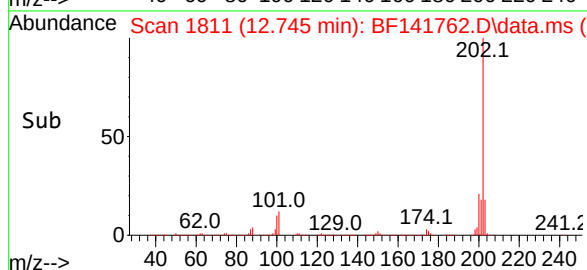
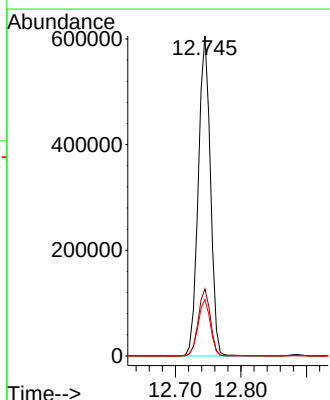
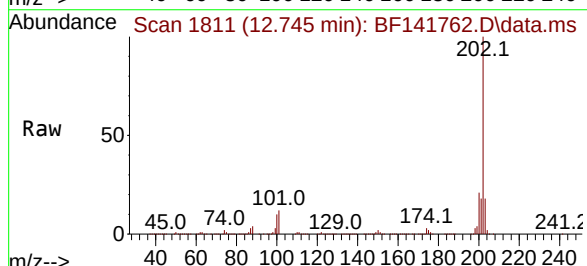
Tgt Ion:202 Resp: 778525

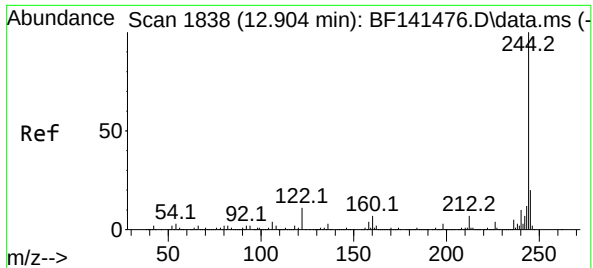
Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4

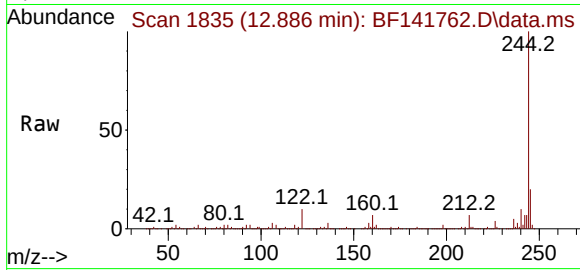
203 17.6 14.3 21.5





#79
Terphenyl-d14
Concen: 74.868 ng
RT: 12.886 min Scan# 1835
Delta R.T. -0.018 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

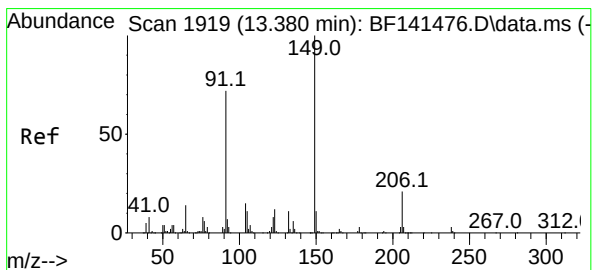
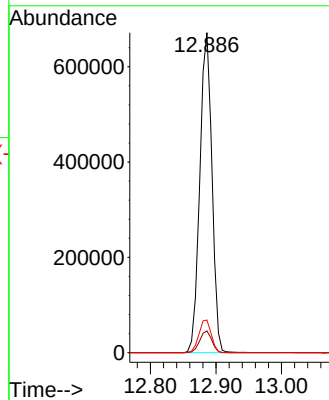
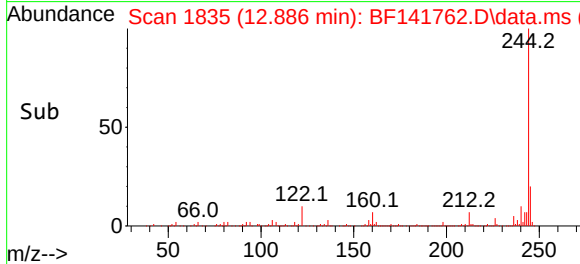
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:244 Resp: 866854
Ion Ratio Lower Upper
244 100
212 6.8 5.6 8.4
122 10.2 8.4 12.6

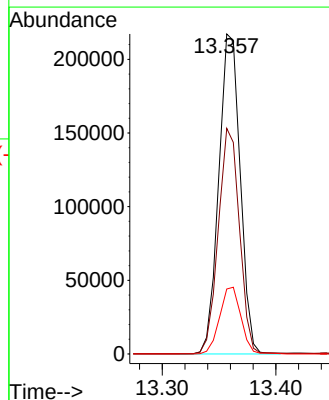
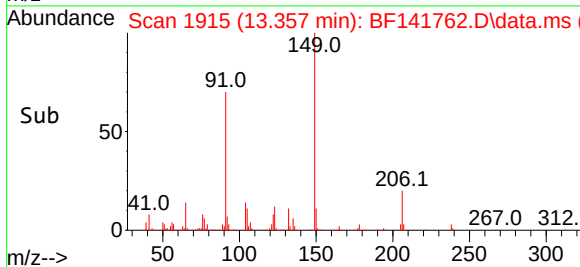
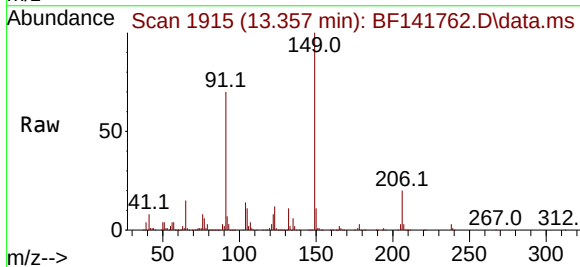
Manual Integrations
APPROVED

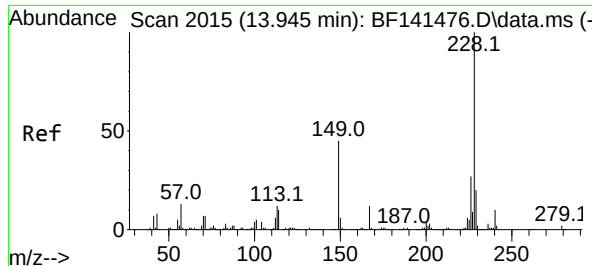
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#80
Butylbenzylphthalate
Concen: 49.467 ng
RT: 13.357 min Scan# 1915
Delta R.T. -0.023 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:149 Resp: 285094
Ion Ratio Lower Upper
149 100
91 70.5 57.8 86.8
206 20.3 16.7 25.1





#81

Benzo(a)anthracene

Concen: 45.818 ng

RT: 13.933 min Scan# 2015

Delta R.T. -0.018 min

Lab File: BF141762.D

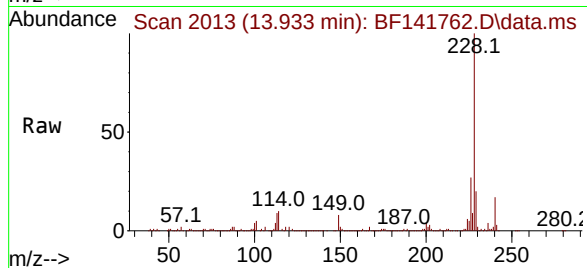
Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS



Tgt Ion:228 Resp: 59532

Ion Ratio Lower Upper

228 100

226 27.0 21.8 32.8

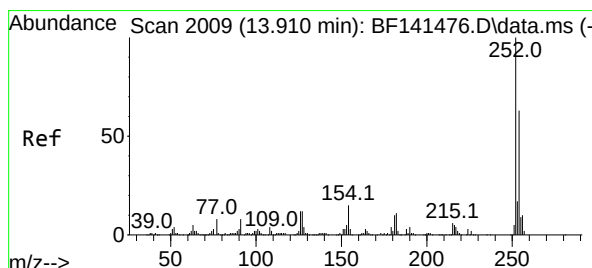
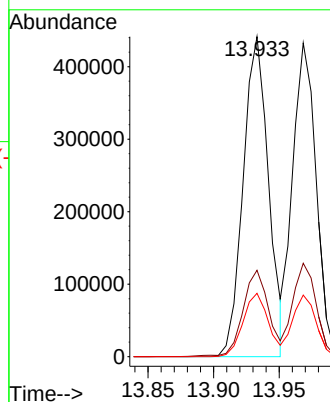
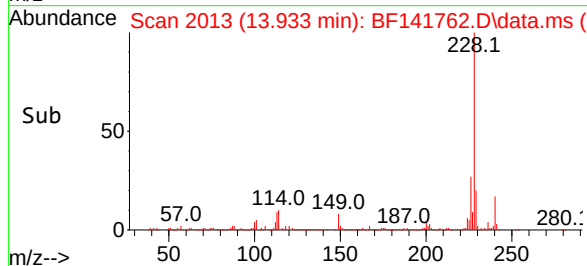
229 19.8 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#82

3,3'-Dichlorobenzidine

Concen: 35.480 ng

RT: 13.898 min Scan# 2007

Delta R.T. -0.018 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

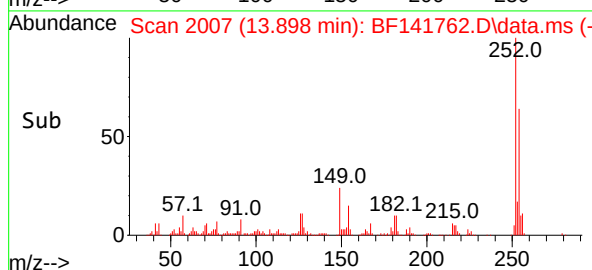
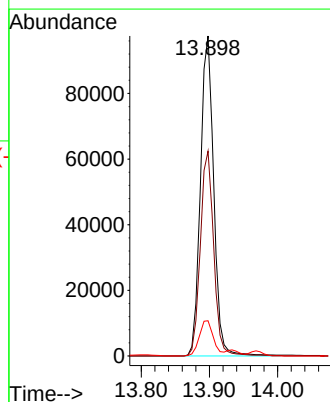
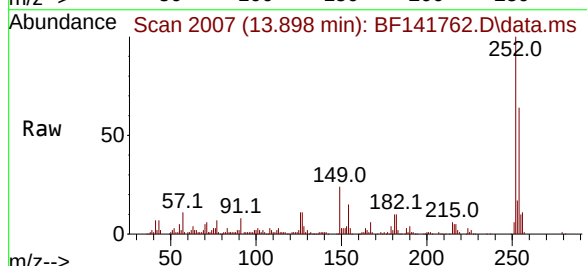
Tgt Ion:252 Resp: 132055

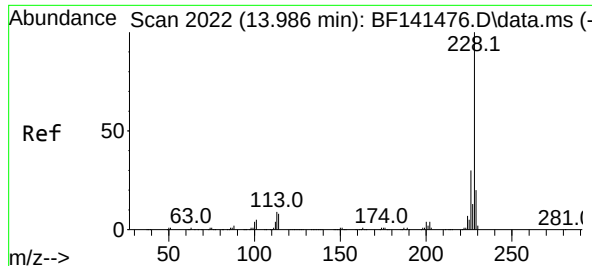
Ion Ratio Lower Upper

252 100

254 64.0 50.6 76.0

126 11.0 9.3 13.9





#83

Chrysene

Concen: 45.035 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.023 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:228 Resp: 540280

Ion Ratio Lower Upper

228 100

226 29.8 24.0 36.0

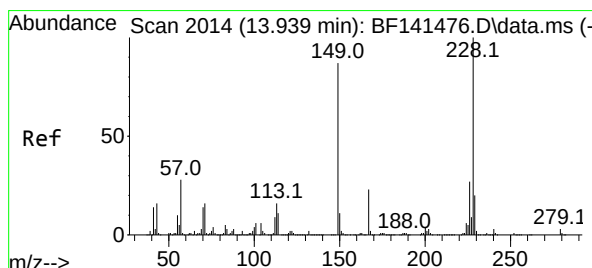
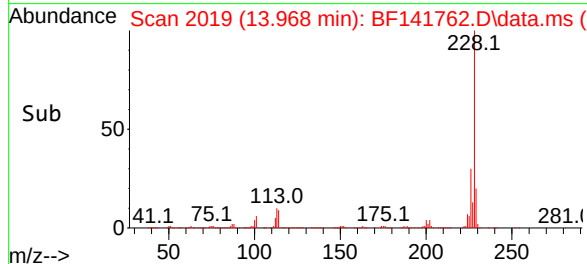
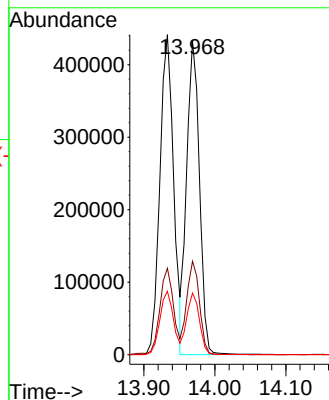
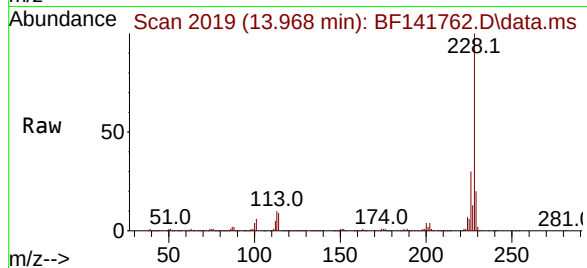
229 19.6 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 54.495 ng

RT: 13.915 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

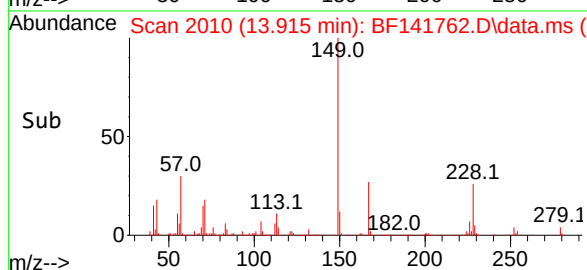
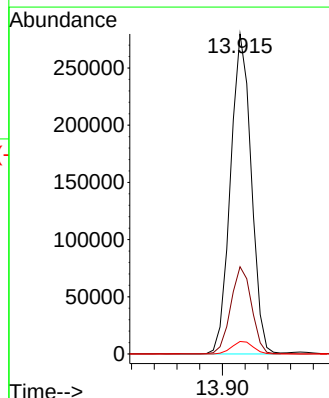
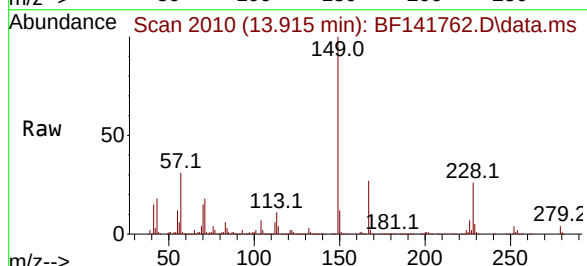
Tgt Ion:149 Resp: 354228

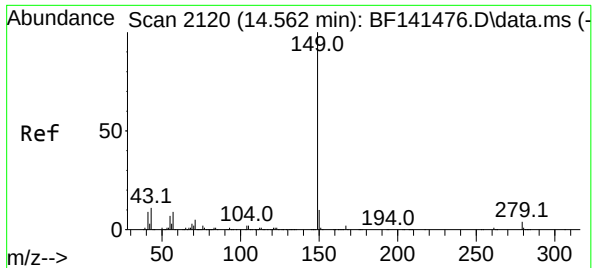
Ion Ratio Lower Upper

149 100

167 27.2 21.4 32.0

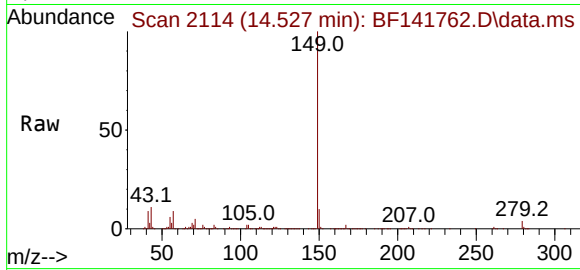
279 3.9 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 59.320 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

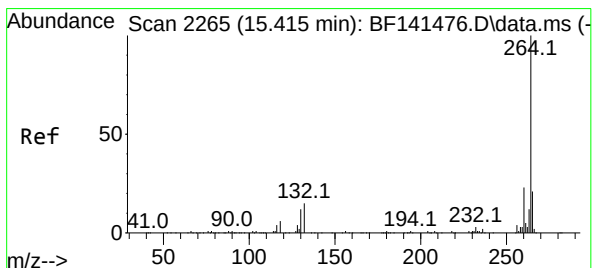
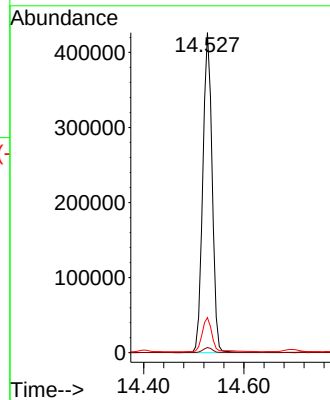
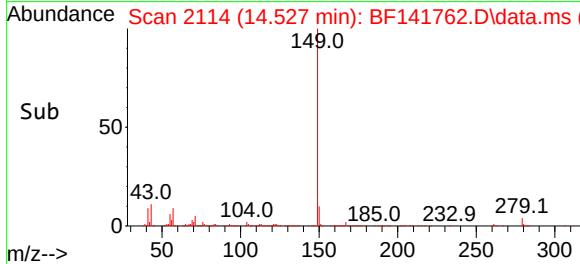
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



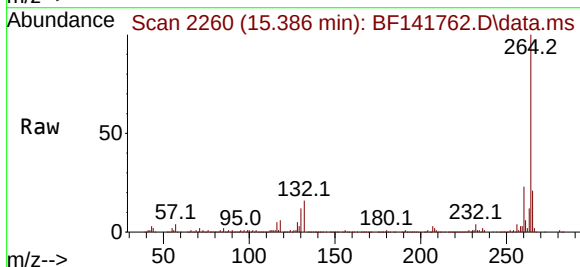
Tgt Ion:149 Resp: 550072
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 11.4 9.5 14.3

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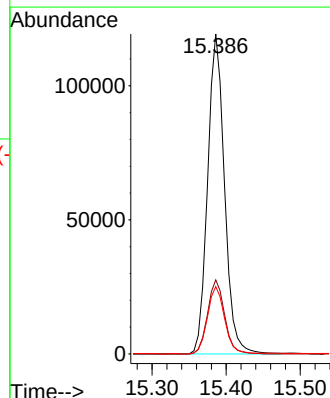
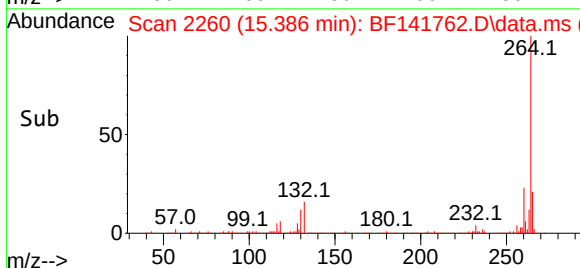
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

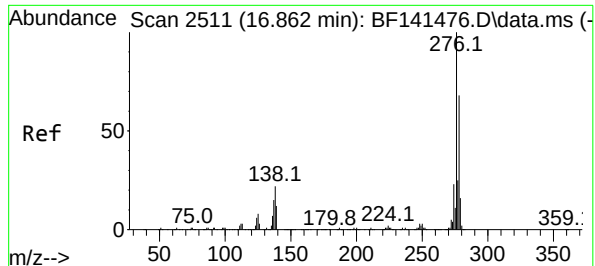


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07



Tgt Ion:264 Resp: 188853
Ion Ratio Lower Upper
264 100
260 23.1 18.6 28.0
265 21.1 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 50.769 ng

RT: 16.827 min Scan# 2189

Delta R.T. -0.047 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:276 Resp: 592429

Ion Ratio Lower Upper

276 100

138 23.1 18.0 27.0

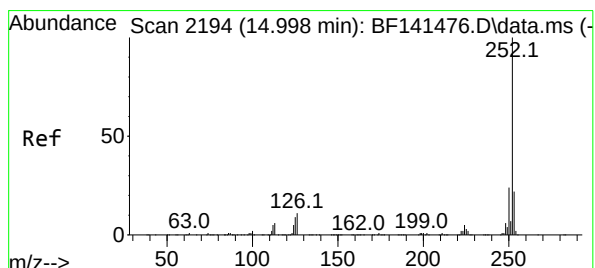
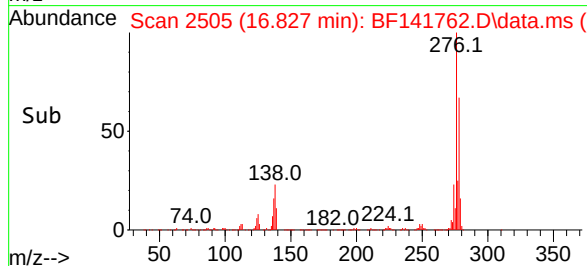
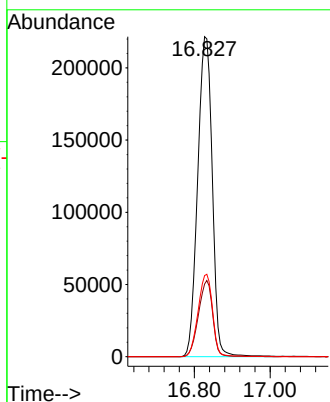
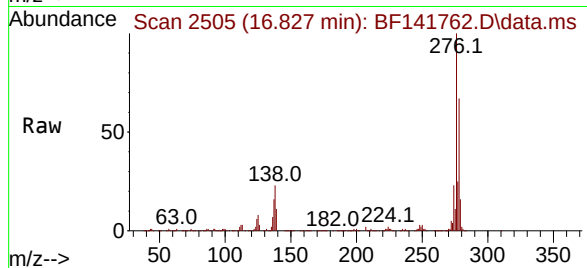
277 25.6 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#88

Benzo(b)fluoranthene

Concen: 44.504 ng

RT: 14.968 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

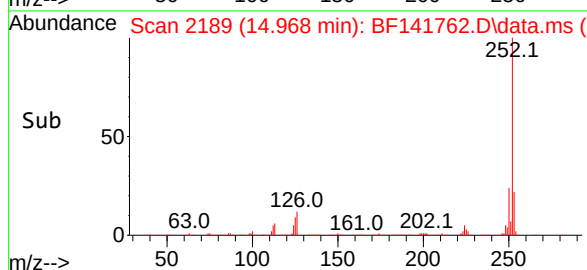
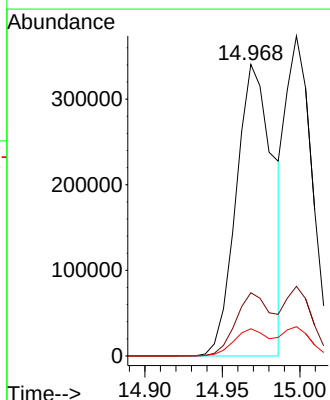
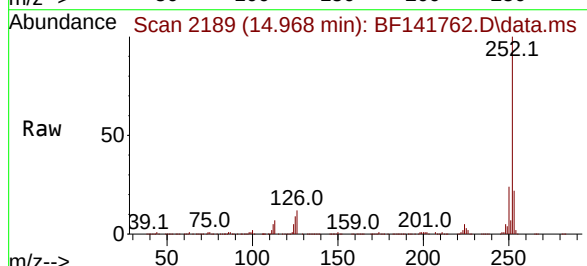
Tgt Ion:252 Resp: 564333

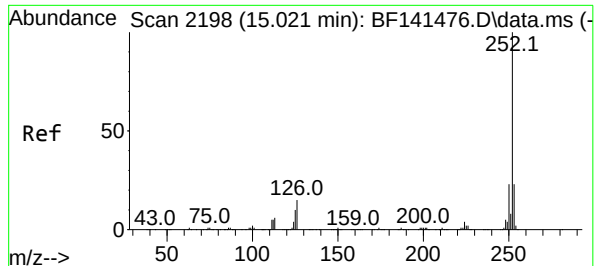
Ion Ratio Lower Upper

252 100

253 21.7 17.5 26.3

125 9.4 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 41.164 ng

RT: 14.998 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MS

Tgt Ion:252 Resp: 44572

Ion Ratio Lower Upper

252 100

253 21.8 18.0 27.0

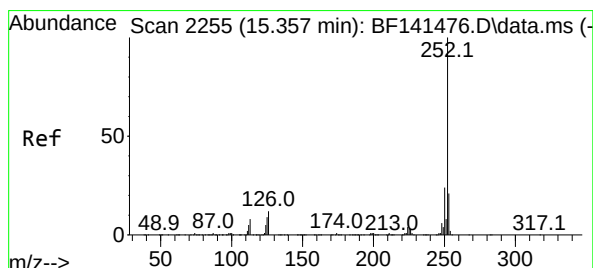
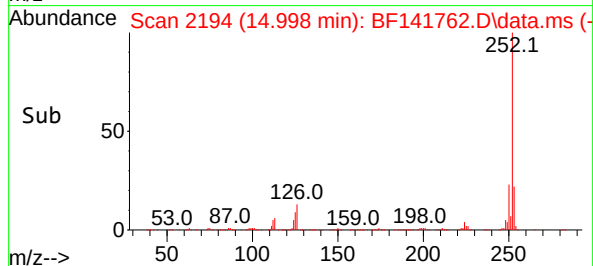
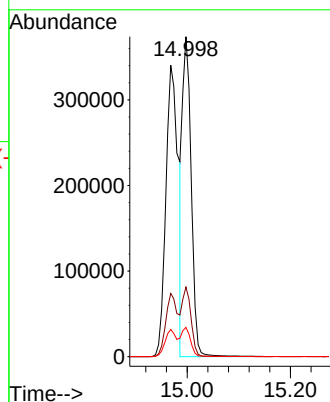
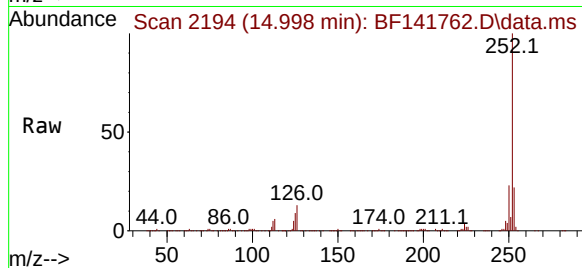
125 9.2 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#90

Benzo(a)pyrene

Concen: 47.057 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141762.D

Acq: 25 Feb 2025 14:07

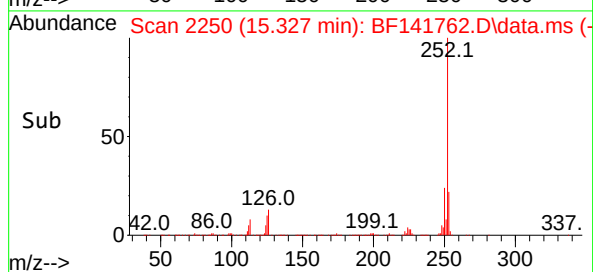
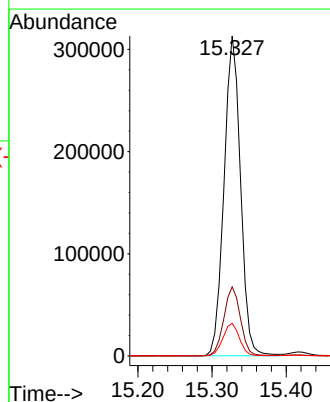
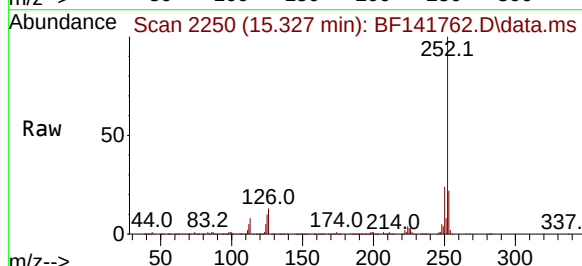
Tgt Ion:252 Resp: 482833

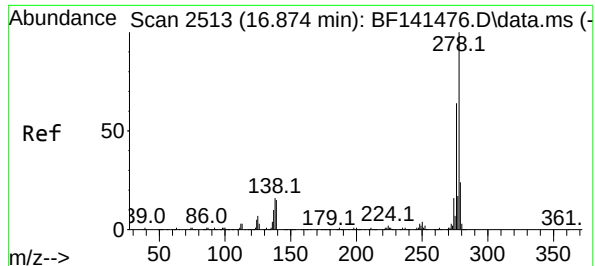
Ion Ratio Lower Upper

252 100

253 21.6 17.1 25.7

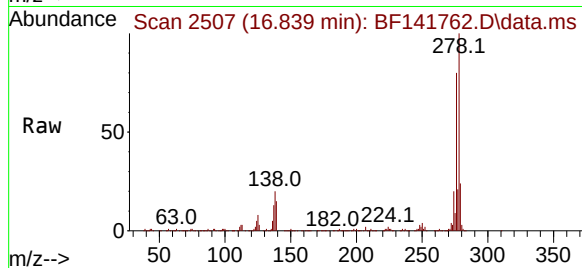
125 10.2 7.4 11.2





#91
Dibenzo(a,h)anthracene
Concen: 50.605 ng
RT: 16.839 min Scan# 2513
Delta R.T. -0.053 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

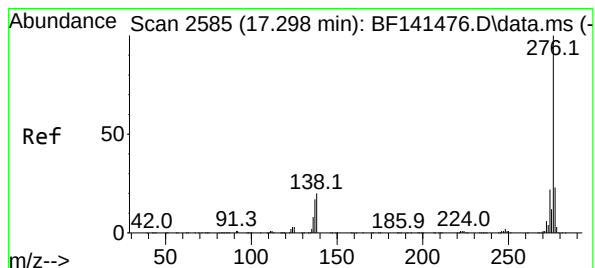
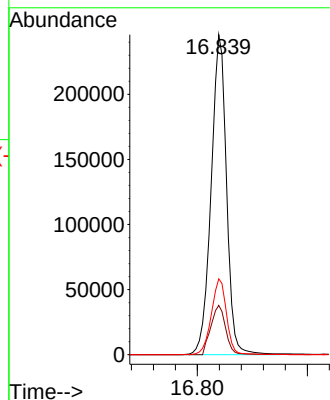
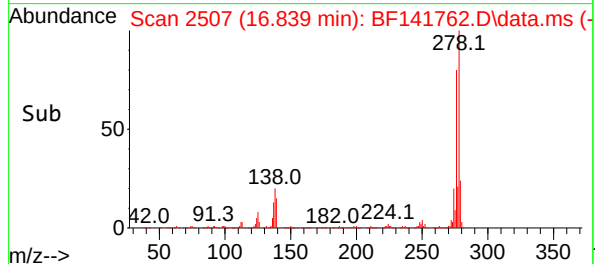
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MS



Tgt Ion:278 Resp: 47848
Ion Ratio Lower Upper
278 100
139 15.4 11.8 17.6
279 23.7 19.1 28.7

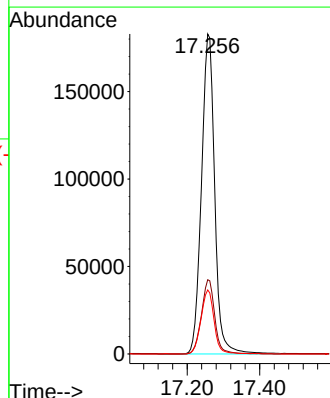
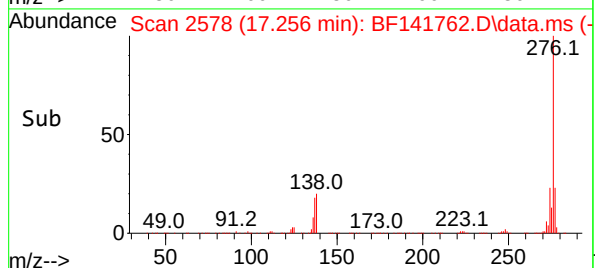
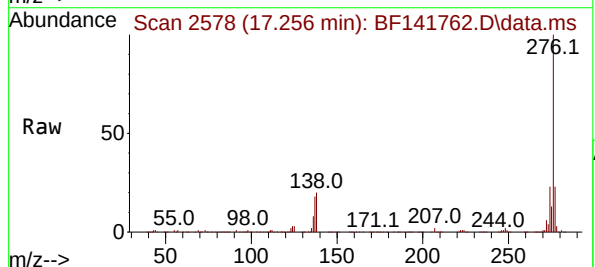
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 46.779 ng
RT: 17.256 min Scan# 2578
Delta R.T. -0.059 min
Lab File: BF141762.D
Acq: 25 Feb 2025 14:07

Tgt Ion:276 Resp: 462853
Ion Ratio Lower Upper
276 100
277 23.2 18.6 28.0
138 20.0 15.9 23.9



Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1400		260	470	ug/Kg
108-95-2	Phenol	2200		120	240	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2200		120	240	ug/Kg
95-57-8	2-Chlorophenol	2200		120	240	ug/Kg
95-48-7	2-Methylphenol	2200		110	240	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	2000		130	240	ug/Kg
98-86-2	Acetophenone	2400		120	240	ug/Kg
65794-96-9	3+4-Methylphenols	2200		110	470	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	2100		57.2	110	ug/Kg
67-72-1	Hexachloroethane	2200		120	240	ug/Kg
98-95-3	Nitrobenzene	2100		130	240	ug/Kg
78-59-1	Isophorone	2200		120	240	ug/Kg
88-75-5	2-Nitrophenol	2200		130	240	ug/Kg
105-67-9	2,4-Dimethylphenol	2800		130	240	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	2200		120	240	ug/Kg
120-83-2	2,4-Dichlorophenol	2100		110	240	ug/Kg
91-20-3	Naphthalene	2100		120	240	ug/Kg
106-47-8	4-Chloroaniline	940		120	240	ug/Kg
87-68-3	Hexachlorobutadiene	2200		120	240	ug/Kg
105-60-2	Caprolactam	2200		120	470	ug/Kg
59-50-7	4-Chloro-3-methylphenol	2000		110	240	ug/Kg
91-57-6	2-Methylnaphthalene	2000		120	240	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6400	E	220	470	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2100		100	240	ug/Kg
95-95-4	2,4,5-Trichlorophenol	2000		110	240	ug/Kg
92-52-4	1,1-Biphenyl	2400		120	240	ug/Kg
91-58-7	2-Chloronaphthalene	2200		120	240	ug/Kg
88-74-4	2-Nitroaniline	2100		130	240	ug/Kg
131-11-3	Dimethylphthalate	2100		120	240	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2200		120	240	ug/Kg
606-20-2	2,6-Dinitrotoluene	2100		120	240	ug/Kg
99-09-2	3-Nitroaniline	1200		130	240	ug/Kg
83-32-9	Acenaphthene	2100		120	240	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		350	470	ug/Kg
100-02-7	4-Nitrophenol	3500		160	470	ug/Kg
132-64-9	Dibenzofuran	2000		120	240	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		120	240	ug/Kg
84-66-2	Diethylphthalate	2000		110	240	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2100		120	240	ug/Kg
86-73-7	Fluorene	2100		120	240	ug/Kg
100-01-6	4-Nitroaniline	2000		150	240	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		170	470	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2300		120	240	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2300		110	240	ug/Kg
118-74-1	Hexachlorobenzene	2400		120	240	ug/Kg
1912-24-9	Atrazine	2800		130	240	ug/Kg
87-86-5	Pentachlorophenol	3400		110	470	ug/Kg
85-01-8	Phenanthrene	2200		120	240	ug/Kg
120-12-7	Anthracene	2300		120	240	ug/Kg
86-74-8	Carbazole	2200		110	240	ug/Kg
84-74-2	Di-n-butylphthalate	2200		120	240	ug/Kg
206-44-0	Fluoranthene	2100		120	240	ug/Kg
129-00-0	Pyrene	2100		120	240	ug/Kg
85-68-7	Butylbenzylphthalate	2300		140	240	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		140	470	ug/Kg
56-55-3	Benzo(a)anthracene	2300		110	240	ug/Kg
218-01-9	Chrysene	2100		110	240	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2700		130	240	ug/Kg
117-84-0	Di-n-octyl phthalate	3200		160	470	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		120	240	ug/Kg

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	02/24/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1415
Lab Sample ID:	Q1421-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	70.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141763.D	1	02/25/25 09:30	02/25/25 14:36	PB166853

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	2200		120	240	ug/Kg
50-32-8	Benzo(a)pyrene	2300		130	240	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2500		110	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2500		120	240	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2300		110	240	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2400		120	240	ug/Kg
123-91-1	1,4-Dioxane	2200		160	240	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2000		110	240	ug/Kg

SURROGATES

367-12-4	2-Fluorophenol	104		30 (18) - 130 (112)	69%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.9		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.5		30 (20) - 130 (109)	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	94.1		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	71.3		30 (10) - 130 (105)	71%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	75700	6.781
1146-65-2	Naphthalene-d8	300000	8.063
15067-26-2	Acenaphthene-d10	162000	9.816
1517-22-2	Phenanthrene-d10	254000	11.304
1719-03-5	Chrysene-d12	172000	13.939
1520-96-3	Perylene-d12	187000	15.386

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141763.D
 Acq On : 25 Feb 2025 14:36
 Operator : RC/JU
 Sample : Q1421-03MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-CLAY-CF01-01MSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/26/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 25 14:56:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	75675	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	299933	20.000	ng	-0.01
39) Acenaphthene-d10	9.816	164	161806	20.000	ng	-0.02
64) Phenanthrene-d10	11.304	188	253973	20.000	ng	-0.01
76) Chrysene-d12	13.939	240	171769	20.000	ng	-0.02
86) Perylene-d12	15.386	264	186973	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	503086	104.223	ng	0.00
7) Phenol-d6	6.428	99	618991	101.458	ng	-0.01
23) Nitrobenzene-d5	7.346	82	390477	67.904	ng	-0.02
42) 2,4,6-Tribromophenol	10.610	330	152913	94.076	ng	-0.02
45) 2-Fluorobiphenyl	9.134	172	761811	72.536	ng	-0.02
79) Terphenyl-d14	12.886	244	725692	71.322	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.540	88	90202	46.430	ng	96
3) Pyridine	3.269	79	202708	43.847	ng	96
4) n-Nitrosodimethylamine	3.222	42	123575	40.369	ng	90
6) Aniline	6.446	93	205453	35.900	ng	# 82
8) 2-Chlorophenol	6.569	128	242733	46.538	ng	99
9) Benzaldehyde	6.334	77	93929	28.972	ng	97
10) Phenol	6.440	94	292013	45.987	ng	96
11) bis(2-Chloroethyl)ether	6.516	93	219996	46.126	ng	99
12) 1,3-Dichlorobenzene	6.722	146	256275	46.541	ng	96
13) 1,4-Dichlorobenzene	6.798	146	261559	46.492	ng	98
14) 1,2-Dichlorobenzene	6.951	146	248986	47.684	ng	99
15) Benzyl Alcohol	6.928	79	201189	43.003	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.057	45	346162	42.399	ng	69
17) 2-Methylphenol	7.046	107	186708	45.743	ng	96
18) Hexachloroethane	7.287	117	96120	46.165	ng	99
19) n-Nitroso-di-n-propyla...	7.193	70	164417	45.054	ng	95
20) 3+4-Methylphenols	7.204	107	243568	46.956	ng	# 72
22) Acetophenone	7.193	105	370440	49.650	ng	92
24) Nitrobenzene	7.363	77	248969	44.400	ng	99
25) Isophorone	7.604	82	434574	47.396	ng	98
26) 2-Nitrophenol	7.681	139	131754	47.227	ng	94
27) 2,4-Dimethylphenol	7.722	122	189959	58.286	ng	99
28) bis(2-Chloroethoxy)met...	7.816	93	271858	46.272	ng	99
29) 2,4-Dichlorophenol	7.934	162	198750	45.135	ng	100
30) 1,2,4-Trichlorobenzene	8.004	180	218056	45.473	ng	100
31) Naphthalene	8.087	128	695392	44.540	ng	100
32) Benzoic acid	7.845	122	60430	17.851	ng	95
33) 4-Chloroaniline	8.140	127	107639	19.747	ng	97
34) Hexachlorobutadiene	8.198	225	132624	46.070	ng	100
35) Caprolactam	8.504	113	61932m	46.193	ng	
36) 4-Chloro-3-methylphenol	8.634	107	209473	42.944	ng	97
37) 2-Methylnaphthalene	8.775	142	437531	43.065	ng	100
38) 1-Methylnaphthalene	8.875	142	424417	43.132	ng	98
40) 1,2,4,5-Tetrachloroben...	8.940	216	239737	51.212	ng	99
41) Hexachlorocyclopentadiene	8.928	237	211325	135.724	ng	100
43) 2,4,6-Trichlorophenol	9.057	196	135676	44.843	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022525\
 Data File : BF141763.D
 Acq On : 25 Feb 2025 14:36
 Operator : RC/JU
 Sample : Q1421-03MSD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 P001-CLAY-CF01-01MSD

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 02/26/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 25 14:56:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Feb 06 16:58:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	141363	43.112	ng	97
46) 1,1'-Biphenyl	9.239	154	631200	50.317	ng	100
47) 2-Chloronaphthalene	9.263	162	429181	46.266	ng	99
48) 2-Nitroaniline	9.363	65	134953	43.349	ng	96
49) Acenaphthylene	9.675	152	653459	47.361	ng	99
50) Dimethylphthalate	9.539	163	484412	44.099	ng	99
51) 2,6-Dinitrotoluene	9.604	165	108763	45.293	ng	97
52) Acenaphthene	9.851	154	408252	44.012	ng	100
53) 3-Nitroaniline	9.775	138	67035	25.937	ng	97
54) 2,4-Dinitrophenol	9.892	184	87227	61.119	ng	93
55) Dibenzofuran	10.022	168	583197	42.834	ng	99
56) 4-Nitrophenol	9.957	139	140095	73.020	ng	95
57) 2,4-Dinitrotoluene	10.016	165	142466	44.566	ng	97
58) Fluorene	10.363	166	470483	44.692	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.145	232	116359	41.218	ng	96
60) Diethylphthalate	10.239	149	465458	43.068	ng	99
61) 4-Chlorophenyl-phenyle...	10.357	204	227694	44.958	ng	97
62) 4-Nitroaniline	10.392	138	108386	41.300	ng	96
63) Azobenzene	10.516	77	502797	46.798	ng	94
65) 4,6-Dinitro-2-methylph...	10.422	198	67224	38.104	ng	97
66) n-Nitrosodiphenylamine	10.475	169	400020	49.203	ng	99
67) 4-Bromophenyl-phenylether	10.845	248	139126	49.014	ng	99
68) Hexachlorobenzene	10.916	284	145837	49.895	ng	97
69) Atrazine	11.004	200	144195	59.121	ng	98
70) Pentachlorophenol	11.116	266	133292	71.320	ng	100
71) Phenanthrene	11.328	178	663667	47.472	ng	100
72) Anthracene	11.381	178	677206	48.188	ng	100
73) Carbazole	11.539	167	575834	45.538	ng	99
74) Di-n-butylphthalate	11.863	149	679207	46.518	ng	99
75) Fluoranthene	12.516	202	645460	43.549	ng	100
77) Benzidine	12.639	184	263831	69.645	ng	99
78) Pyrene	12.745	202	649308	44.406	ng	99
80) Butylbenzylphthalate	13.357	149	241762	47.735	ng	99
81) Benzo(a)anthracene	13.933	228	546463	47.859	ng	100
82) 3,3'-Dichlorobenzidine	13.898	252	128432	39.267	ng	97
83) Chrysene	13.969	228	478435	45.380	ng	100
84) Bis(2-ethylhexyl)phtha...	13.916	149	326027	57.076	ng	100
85) Di-n-octyl phthalate	14.527	149	549852	67.475	ng	97
87) Indeno(1,2,3-cd)pyrene	16.827	276	615192	53.250	ng	99
88) Benzo(b)fluoranthene	14.969	252	506088	40.312	ng	99
89) Benzo(k)fluoranthene	14.998	252	505399	47.144	ng	98
90) Benzo(a)pyrene	15.327	252	497890	49.012	ng	99
91) Dibenzo(a,h)anthracene	16.839	278	496693	53.059	ng	98
92) Benzo(g,h,i)perylene	17.257	276	479696	48.968	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

TIC: BF141763.D\data.ms

Abundance

Time-->

1,4-Dioxane

n-Nitrosodipropylamine

2-Fluorophenol,S

Benzaldehyde

Aniline

Phenol-d6,S

1,3-Dichlorobenzene,C

1,4-Dichlorobenzene,C

1,2-Dichlorobenzene

2,2-Dichloropropane

3,4-Dichlorobenzene

4-Chlorobenzene

Nitrobenzene-d5,S

Isobutylphenol

2,4-Dichlorophenol

1,2,4-Trichlorobenzene

Hexachlorobutadiene,C

Naphthalene

Caprolactam

4-Chloro-3-methylphenol,C

2-Methylnaphthalene

1,1'-Biphenyl

2-Chloronaphthalene

Acenaphthylene

Acenaphthene,C

Diethylphthalate

4-Nitrophenol,P

2,3,4,6-Tetrachlorophenol

2,4,6-Trinitrophenol

2,4,6-Trinitrophenol,S

n-Nitrosodiphenylamine,c

Phenanthrene

Carbazole

Di-n-butylphthalate

Fluoranthene,C

Pyrene

Terphenyl-d14,S

Benzylbenzylphthalate

3,3'-Dichlorobenzidine

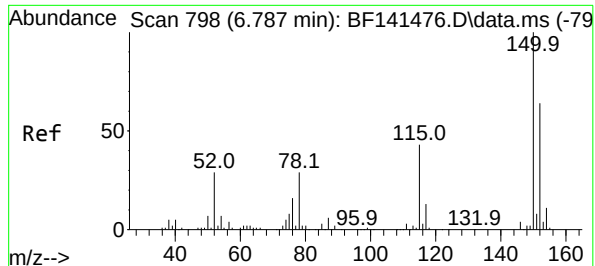
Di-n-octyl phthalate,c

Benzo(a)pyrene

Benzo(a)pyrene,C

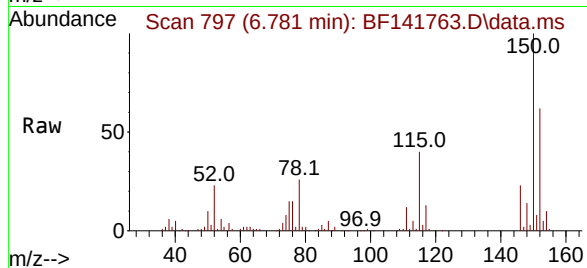
Benzo(g,h,i)perylene

Indeno(1,2,3-cd)pyrene



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

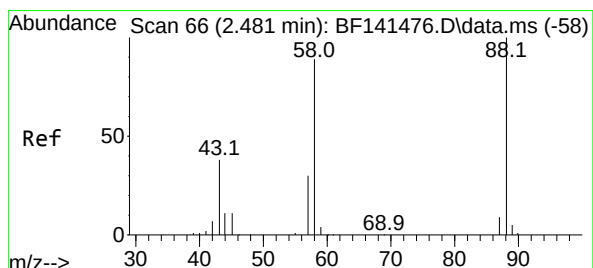
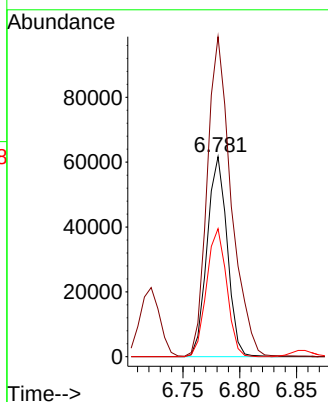
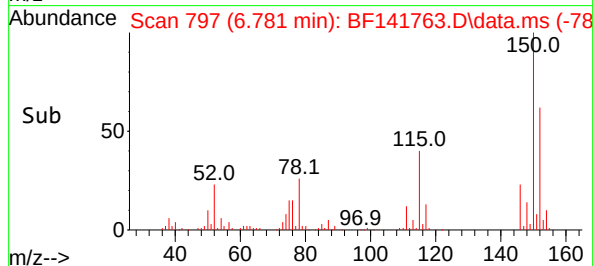
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:152 Resp: 7567
Ion Ratio Lower Upper
152 100
150 160.0 125.0 187.4
115 64.1 53.6 80.4

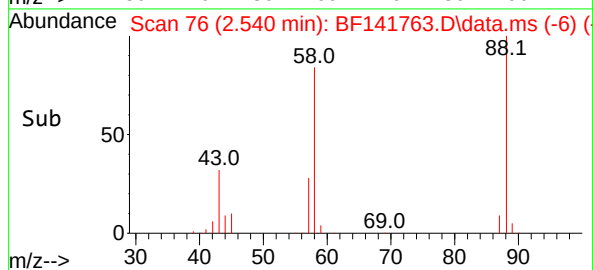
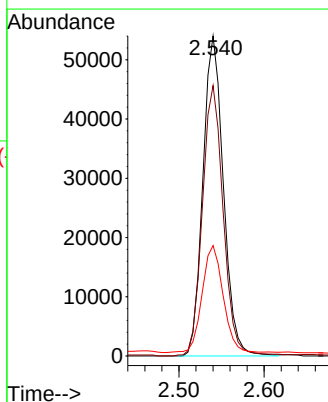
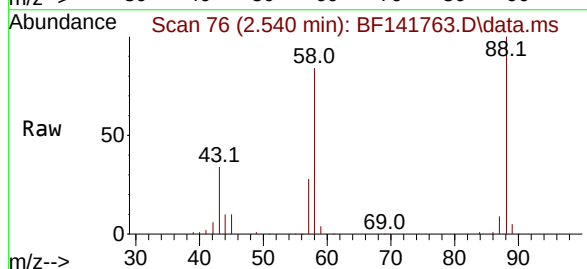
Manual Integrations
APPROVED

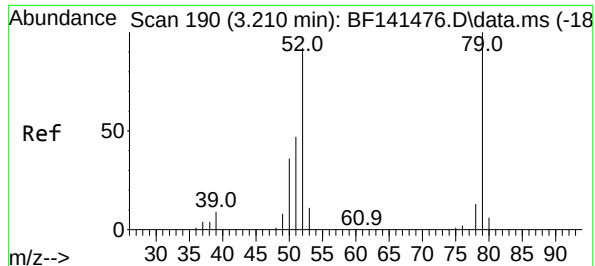
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#2
1,4-Dioxane
Concen: 46.430 ng
RT: 2.540 min Scan# 76
Delta R.T. 0.059 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

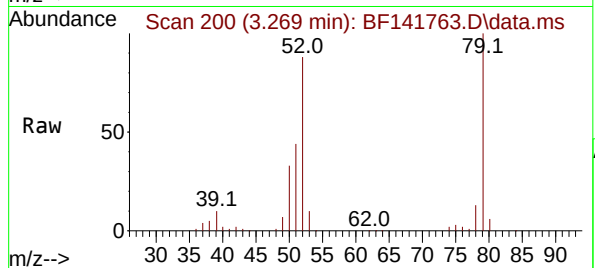
Tgt Ion: 88 Resp: 90202
Ion Ratio Lower Upper
88 100
58 86.2 71.1 106.7
43 34.2 30.6 46.0





#3
Pyridine
Concen: 43.847 ng
RT: 3.269 min Scan# 20
Delta R.T. 0.053 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

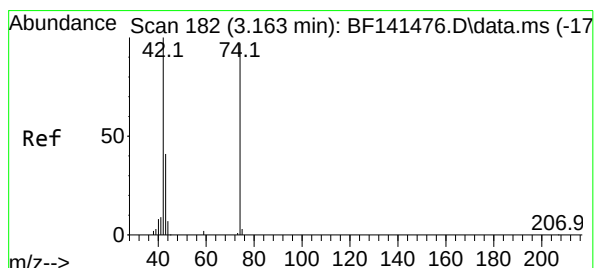
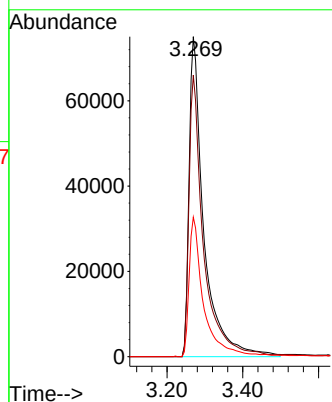
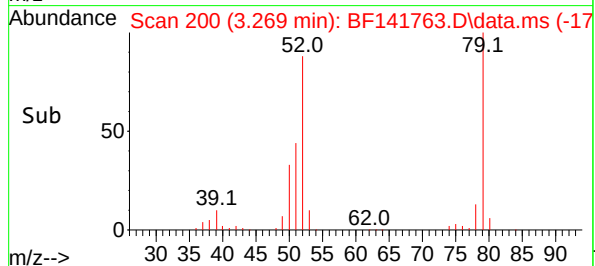
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 79 Resp: 202708
Ion Ratio Lower Upper
79 100
52 88.0 73.7 110.5
51 43.6 37.5 56.3

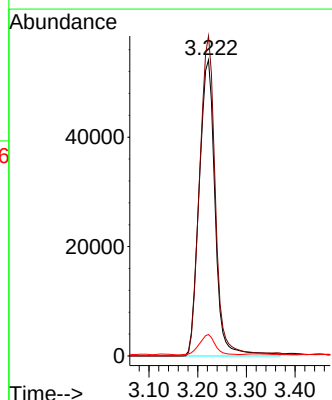
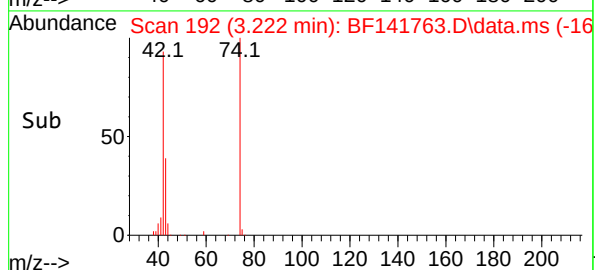
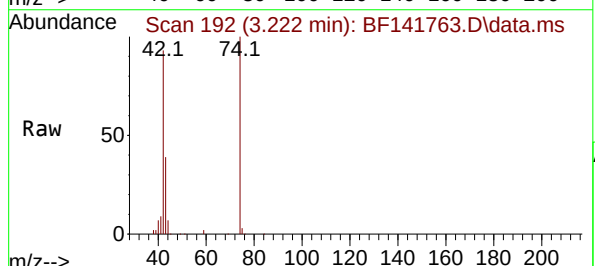
Manual Integrations
APPROVED

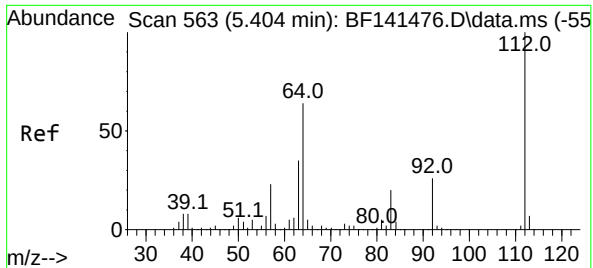
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#4
n-Nitrosodimethylamine
Concen: 40.369 ng
RT: 3.222 min Scan# 192
Delta R.T. 0.036 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion: 42 Resp: 123575
Ion Ratio Lower Upper
42 100
74 108.1 78.0 117.0
44 7.3 5.4 8.2





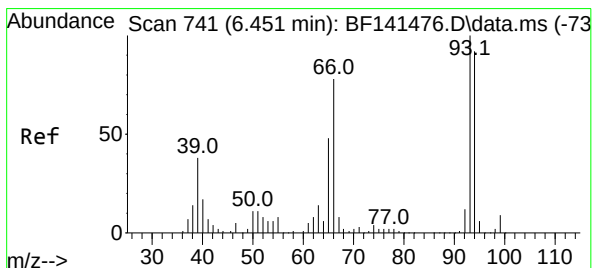
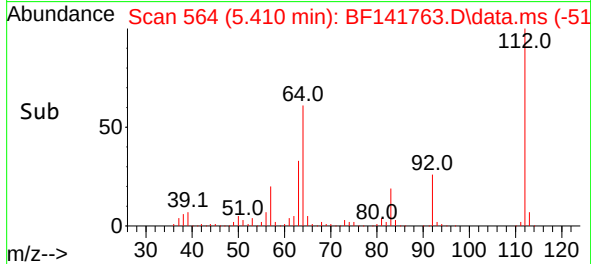
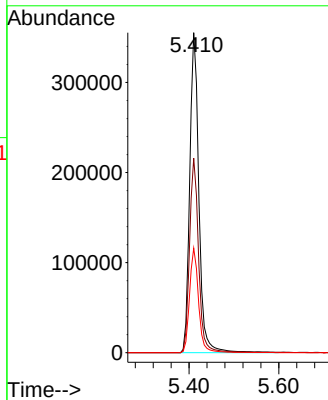
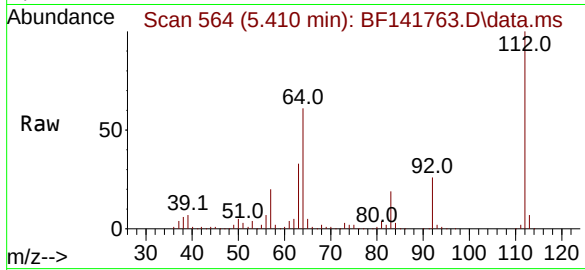
#5
2-Fluorophenol
Concen: 104.223 ng
RT: 5.410 min Scan# 50
Delta R.T. 0.000 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:112 Resp: 503080
Ion Ratio Lower Upper
112 100
64 60.8 51.1 76.7
63 32.6 28.4 42.6

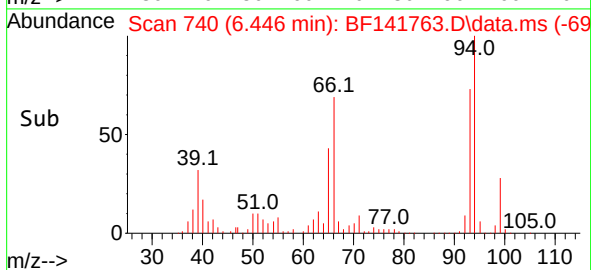
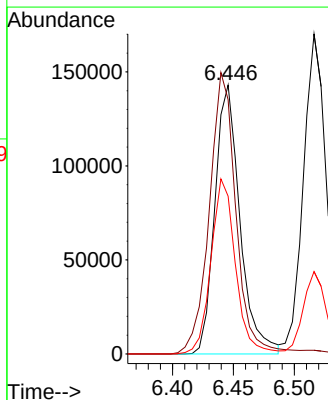
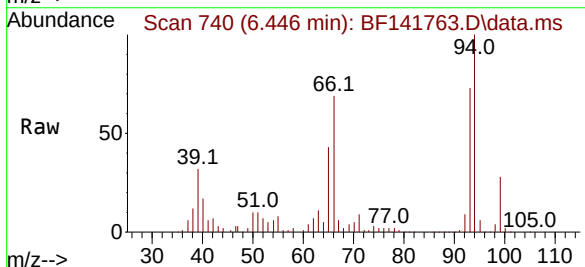
Manual Integrations
APPROVED

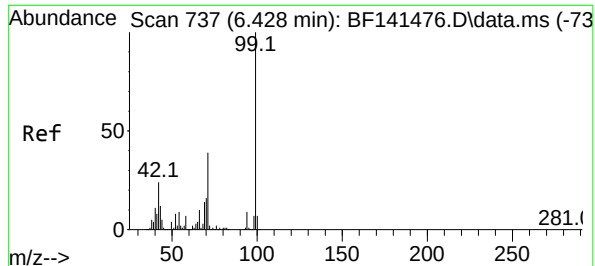
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#6
Aniline
Concen: 35.900 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

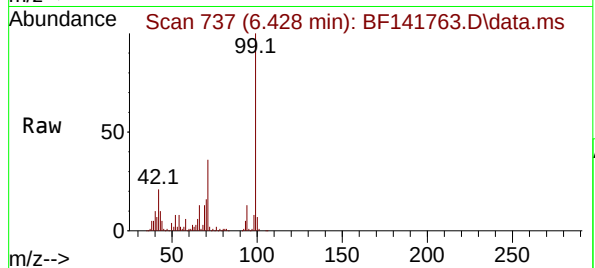
Tgt Ion: 93 Resp: 205453
Ion Ratio Lower Upper
93 100
66 94.5 62.6 94.0#
65 58.7 38.3 57.5#





#7
Phenol-d6
Concen: 101.458 ng
RT: 6.428 min Scan# 711
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

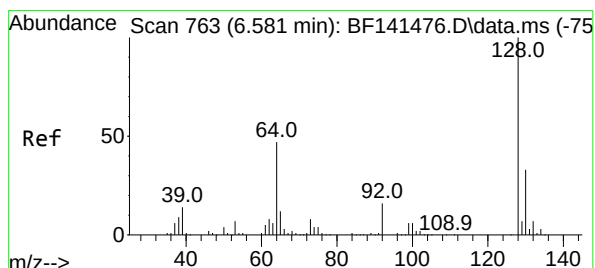
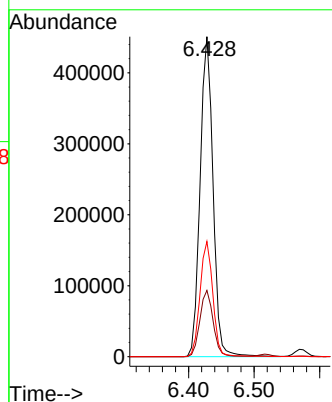
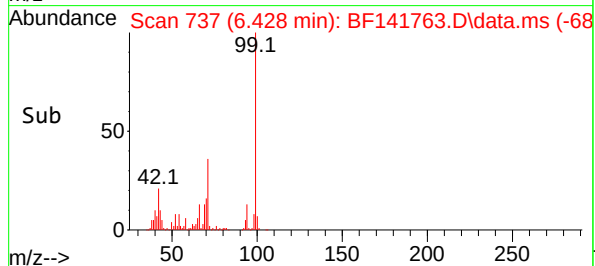
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 99 Resp: 61899
Ion Ratio Lower Upper
99 100
42 20.7 19.1 28.7
71 36.0 31.1 46.7

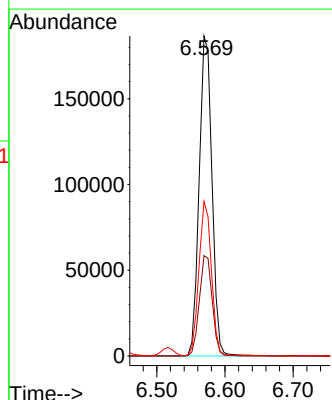
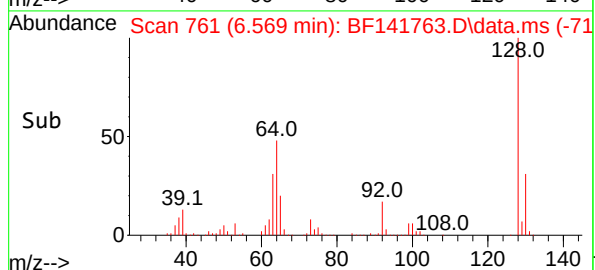
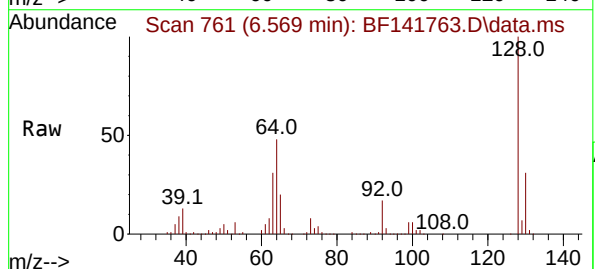
Manual Integrations
APPROVED

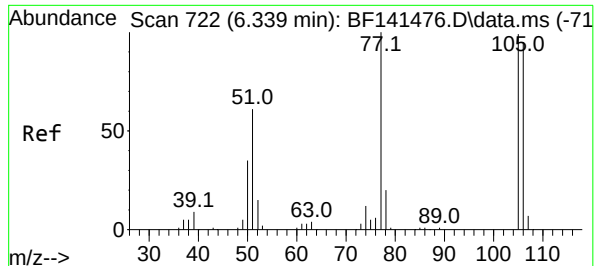
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#8
2-Chlorophenol
Concen: 46.538 ng
RT: 6.569 min Scan# 761
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:128 Resp: 242733
Ion Ratio Lower Upper
128 100
130 31.3 12.7 52.7
64 48.3 28.3 68.3





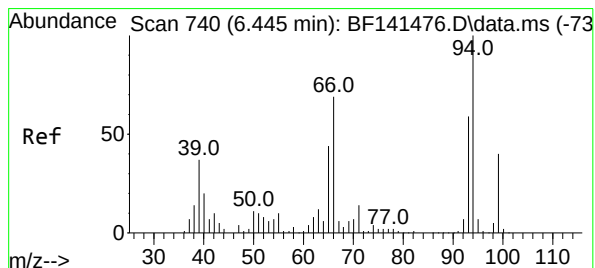
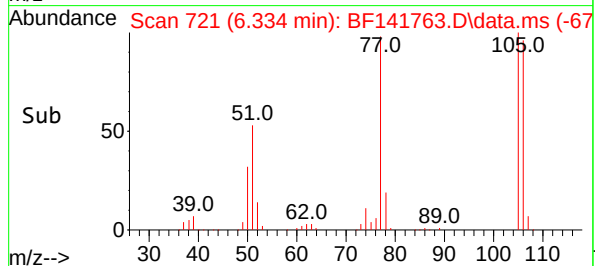
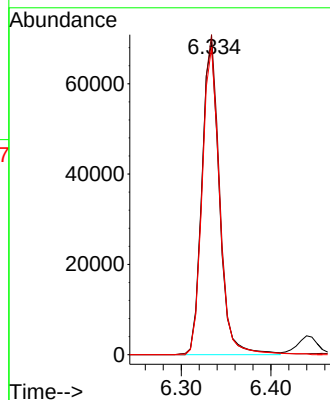
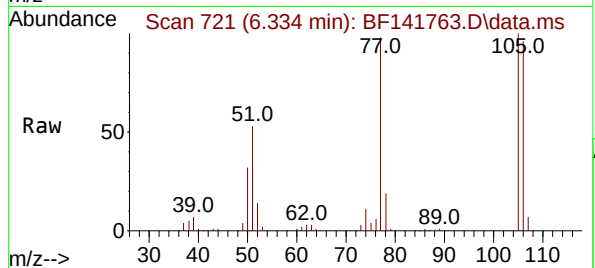
#9
Benzaldehyde
Concen: 28.972 ng
RT: 6.334 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion: 77 Resp: 93929
Ion Ratio Lower Upper
77 100
105 102.5 79.4 119.4
106 98.4 75.1 115.1

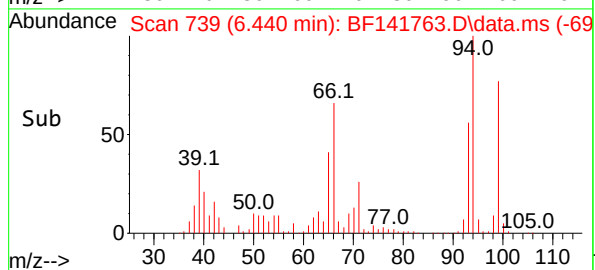
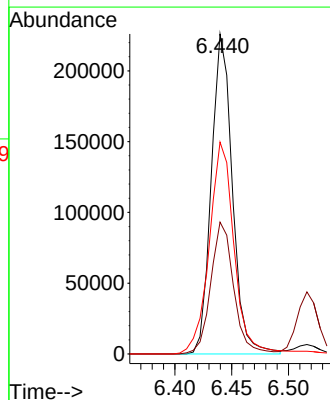
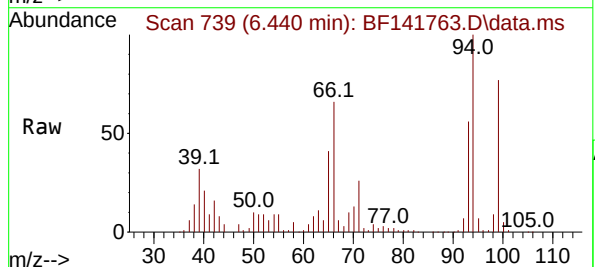
Manual Integrations
APPROVED

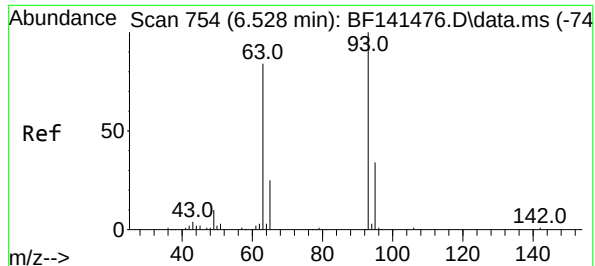
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#10
Phenol
Concen: 45.987 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

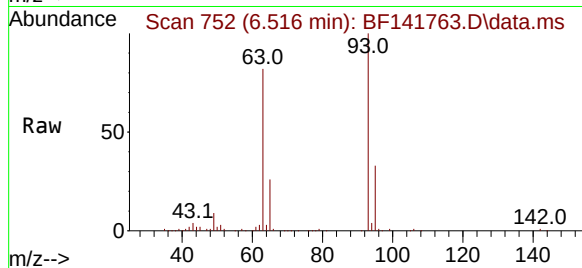
Tgt Ion: 94 Resp: 292013
Ion Ratio Lower Upper
94 100
65 41.2 23.7 63.7
66 66.2 49.3 89.3





#11
bis(2-Chloroethyl)ether
Concen: 46.126 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

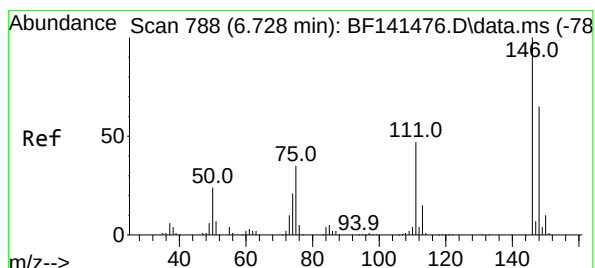
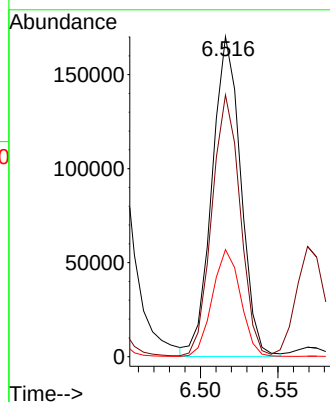
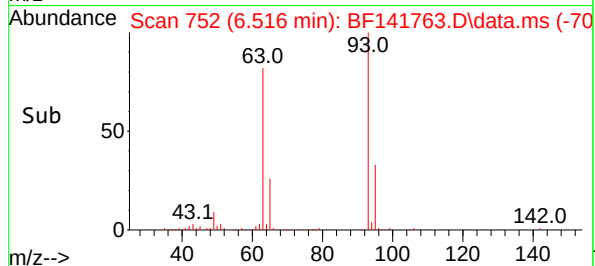
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 93 Resp: 219990
Ion Ratio Lower Upper
93 100
63 81.8 62.0 102.0
95 33.5 12.6 52.6

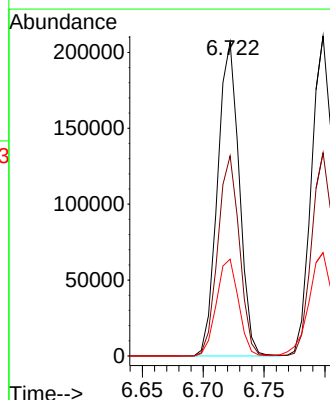
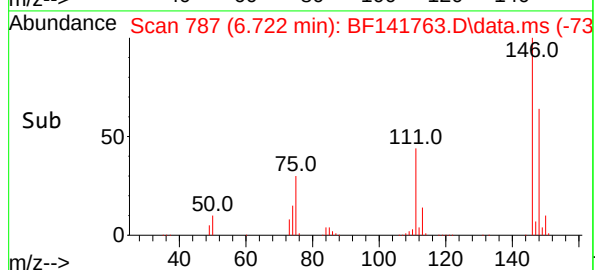
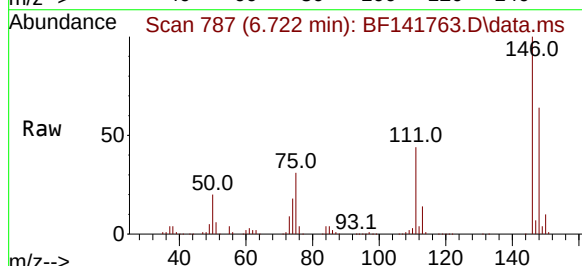
Manual Integrations
APPROVED

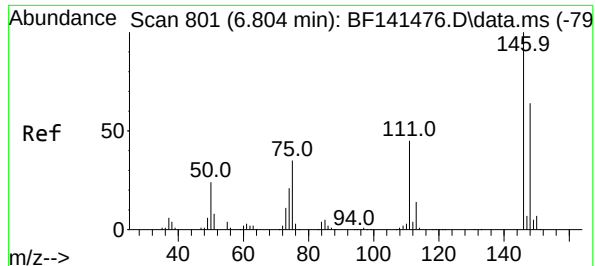
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#12
1,3-Dichlorobenzene
Concen: 46.541 ng
RT: 6.722 min Scan# 787
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:146 Resp: 256275
Ion Ratio Lower Upper
146 100
148 63.8 51.9 77.9
75 30.8 28.2 42.2





#13

1,4-Dichlorobenzene

Concen: 46.492 ng

RT: 6.798 min Scan# 801

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:146 Resp: 26155

Ion Ratio Lower Upper

146 100

148 63.5 50.9 76.3

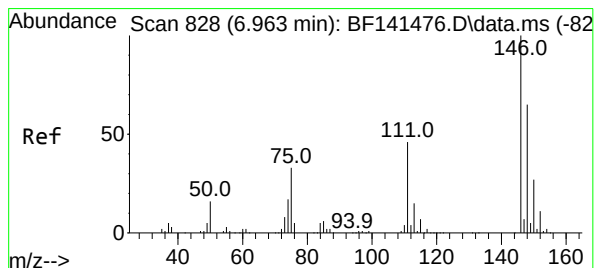
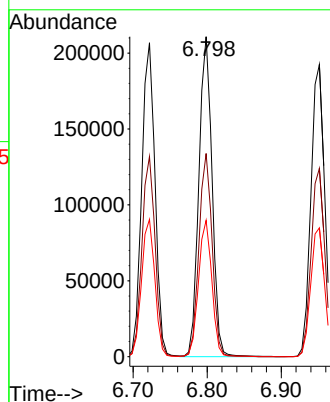
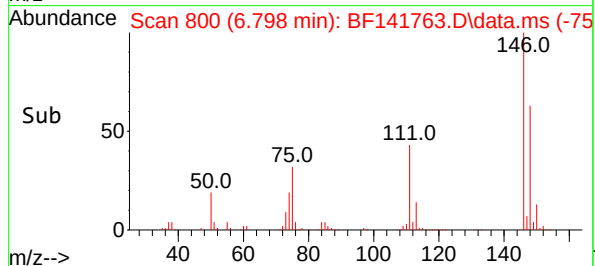
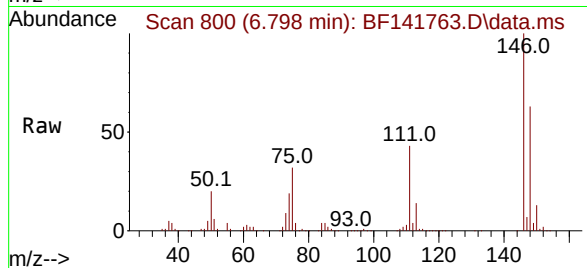
111 42.6 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#14

1,2-Dichlorobenzene

Concen: 47.684 ng

RT: 6.951 min Scan# 826

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

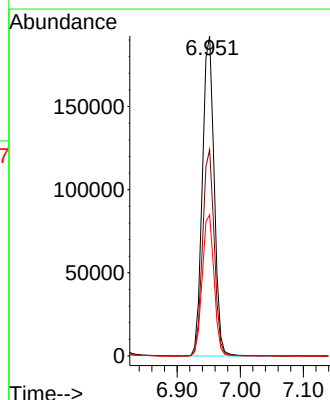
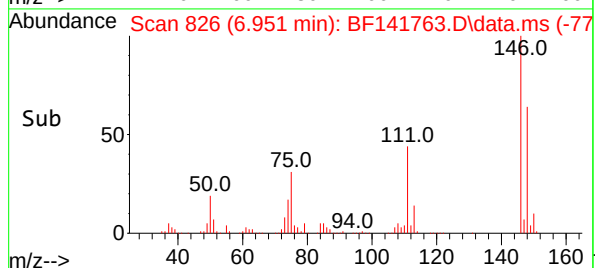
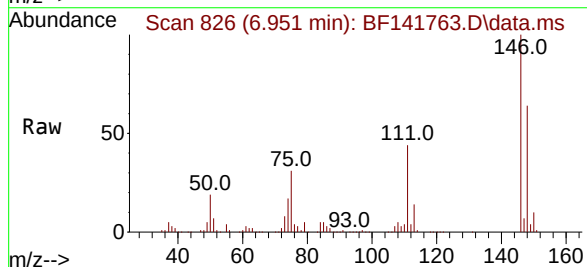
Tgt Ion:146 Resp: 248986

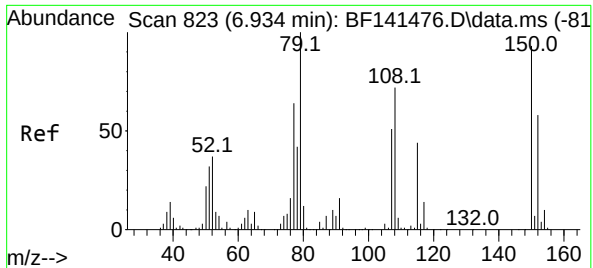
Ion Ratio Lower Upper

146 100

148 64.5 51.8 77.6

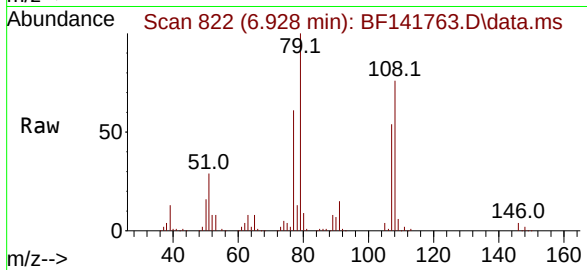
111 44.1 37.0 55.4





#15
Benzyl Alcohol
Concen: 43.003 ng
RT: 6.928 min Scan# 811
Delta R.T. -0.012 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

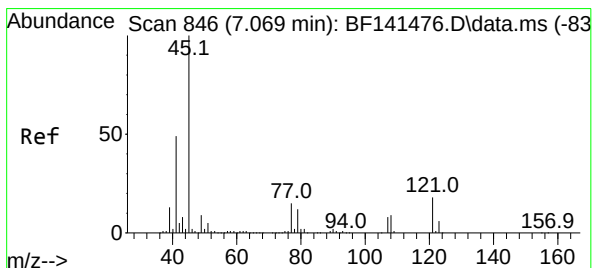
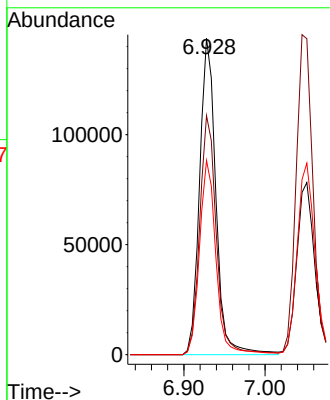
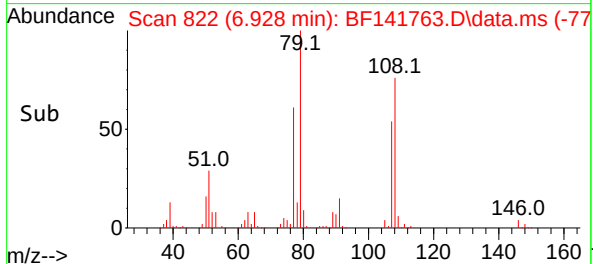
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 79 Resp: 201189
Ion Ratio Lower Upper
79 100
108 75.6 57.4 86.2
77 61.4 50.9 76.3

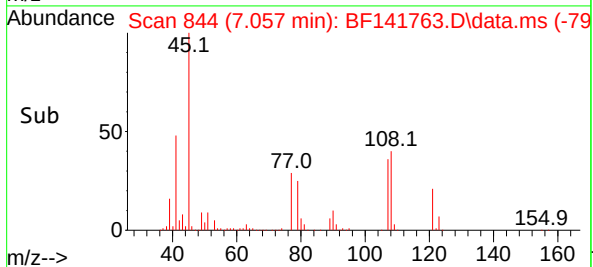
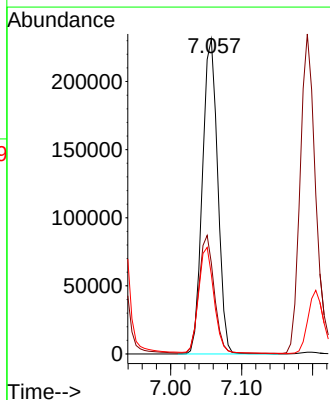
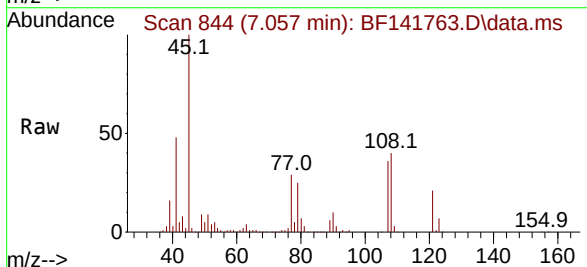
Manual Integrations
APPROVED

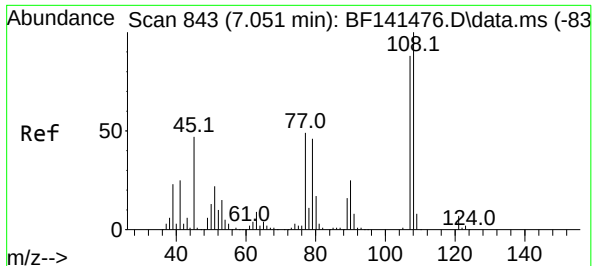
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.399 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

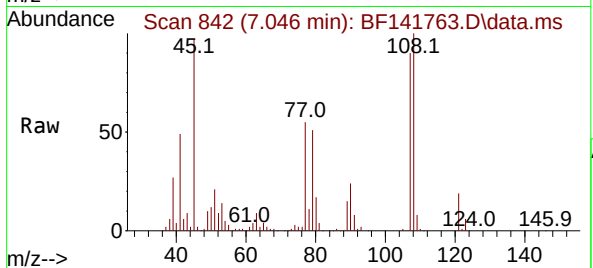
Tgt Ion: 45 Resp: 346162
Ion Ratio Lower Upper
45 100
77 28.9 0.0 35.8
79 25.2 0.0 32.7





#17
2-Methylphenol
Concen: 45.743 ng
RT: 7.046 min Scan# 842
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

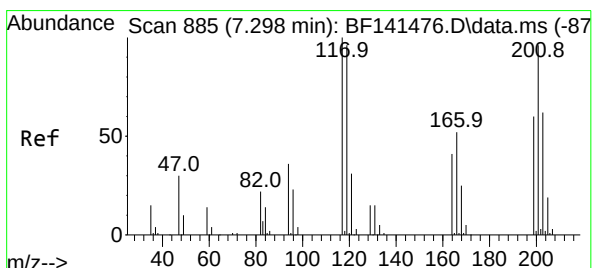
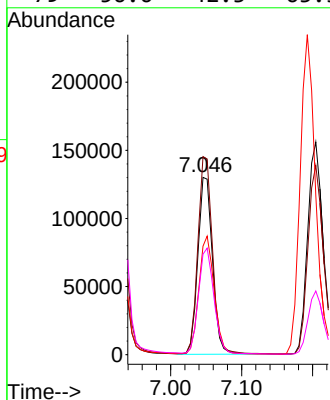
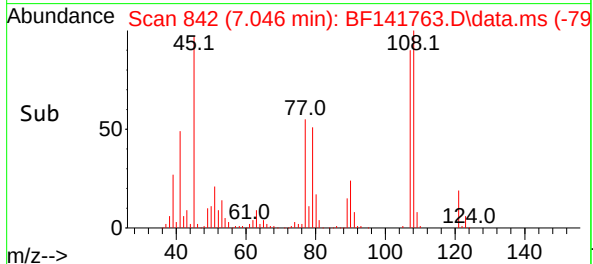
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:107 Resp: 186708
Ion Ratio Lower Upper
107 100
108 111.7 90.6 136.0
77 61.2 44.4 66.6
79 56.6 42.3 63.5

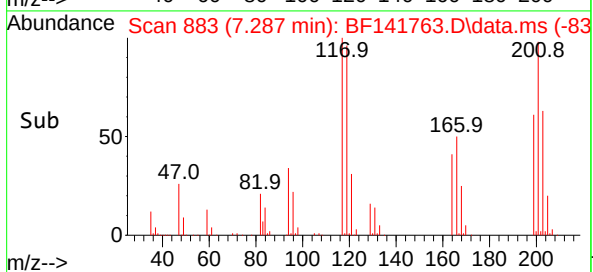
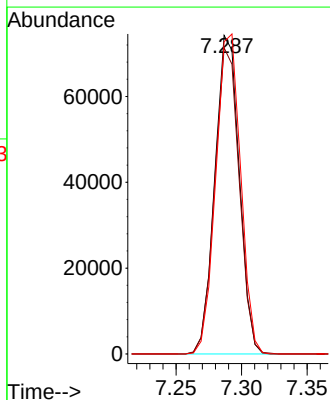
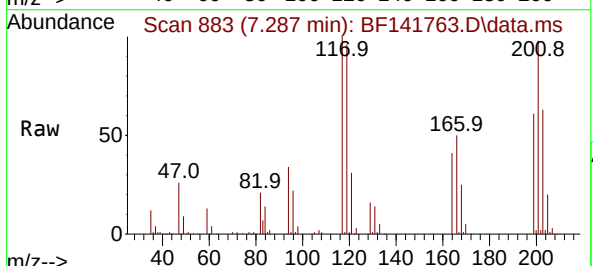
Manual Integrations
APPROVED

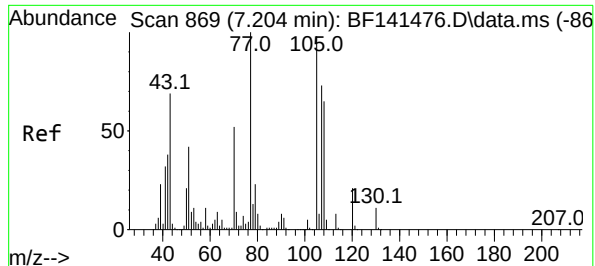
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#18
Hexachloroethane
Concen: 46.165 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:117 Resp: 96120
Ion Ratio Lower Upper
117 100
119 96.1 76.5 114.7
201 98.0 76.7 115.1





#19

n-Nitroso-di-n-propylamine

Concen: 45.054 ng

RT: 7.193 min Scan# 867

Delta R.T. -0.023 min

Lab File: BF141763.D

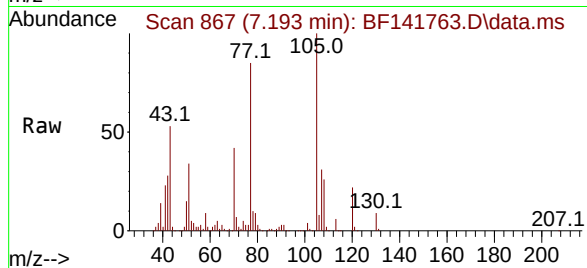
Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion: 70 Resp: 16441

Ion Ratio Lower Upper

70 100

42 66.2 57.4 86.2

101 10.1 8.0 12.0

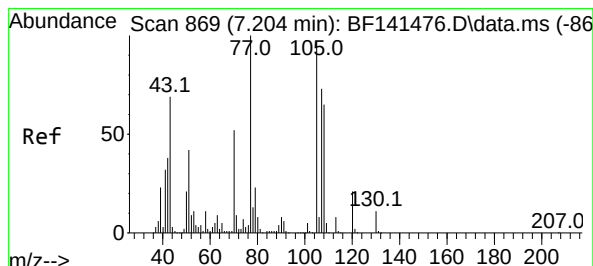
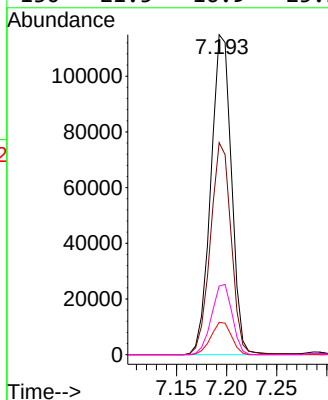
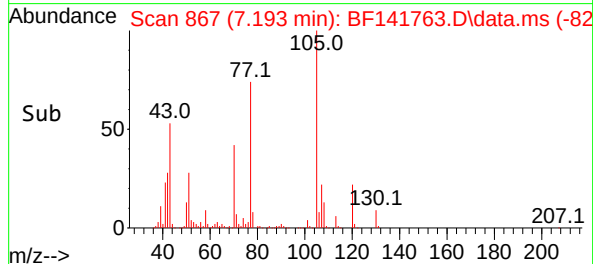
130 21.5 16.9 25.3

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#20

3+4-Methylphenols

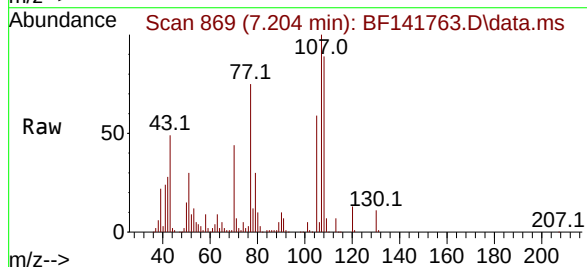
Concen: 46.956 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36



Tgt Ion:107 Resp: 243568

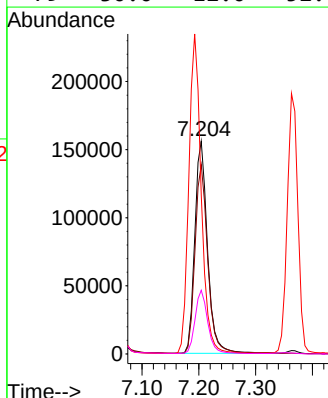
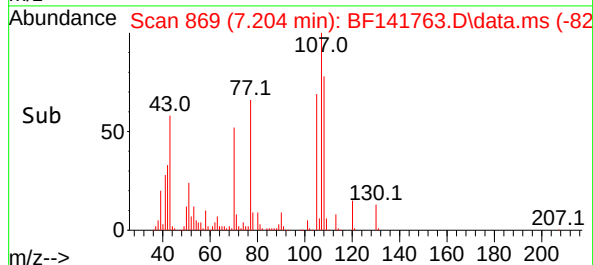
Ion Ratio Lower Upper

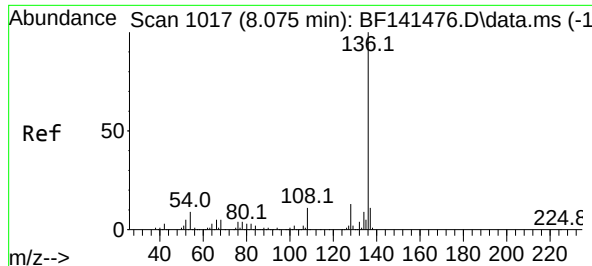
107 100

108 89.0 68.5 108.5

77 75.0 116.5 156.5

79 30.0 12.0 52.0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.063 min Scan# 1015

Delta R.T. -0.011 min

Lab File: BF141763.D

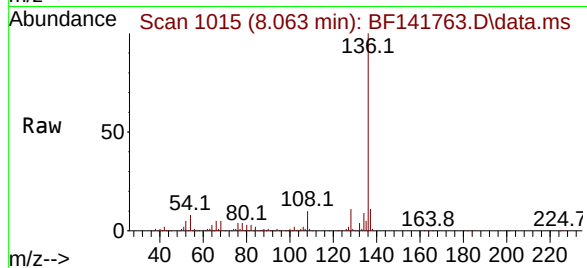
Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:136 Resp: 29993

Ion Ratio Lower Upper

136 100

137 10.6 8.6 13.0

54 8.4 7.2 10.8

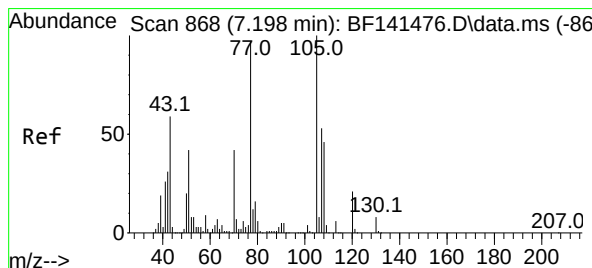
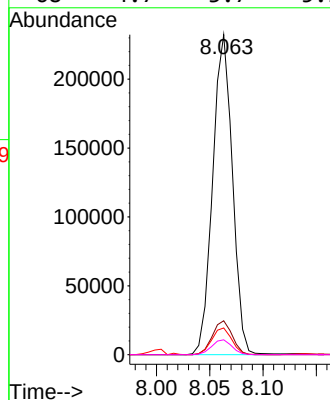
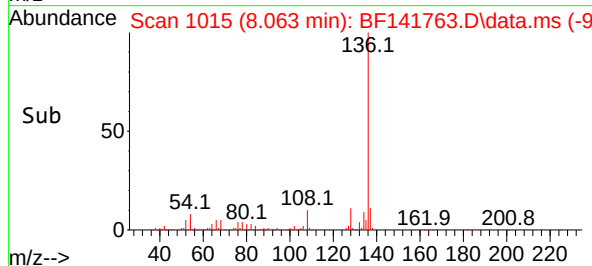
68 4.7 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#22

Acetophenone

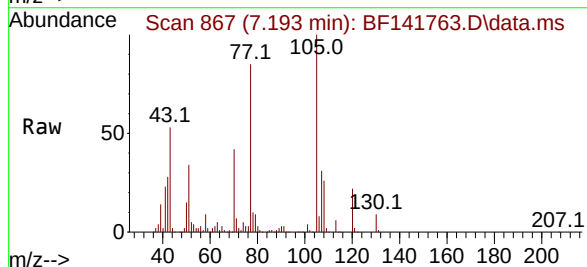
Concen: 49.650 ng

RT: 7.193 min Scan# 867

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36



Tgt Ion:105 Resp: 370440

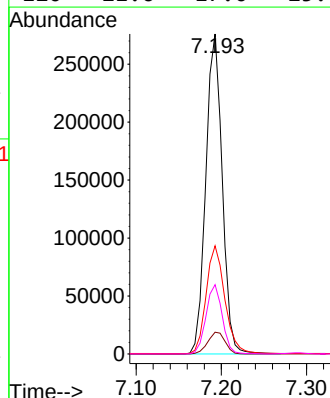
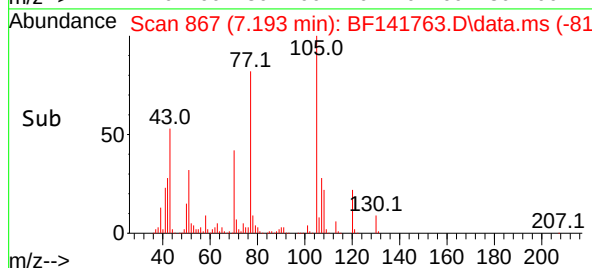
Ion Ratio Lower Upper

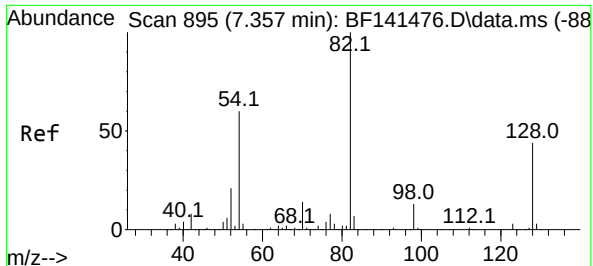
105 100

71 6.8 5.7 8.5

51 33.8 33.7 50.5

120 21.6 17.0 25.6





#23

Nitrobenzene-d5

Concen: 67.904 ng

RT: 7.346 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion: 82 Resp: 39047

Ion Ratio Lower Upper

82 100

128 45.1 34.8 52.2

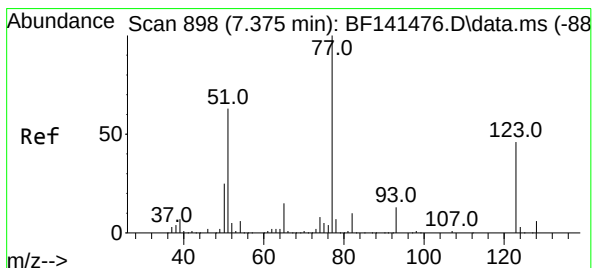
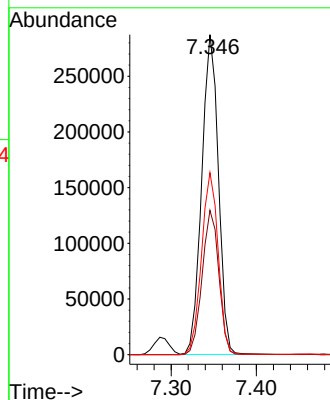
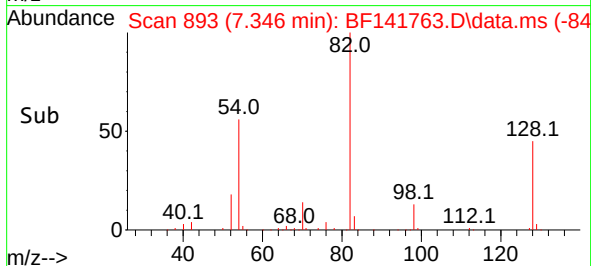
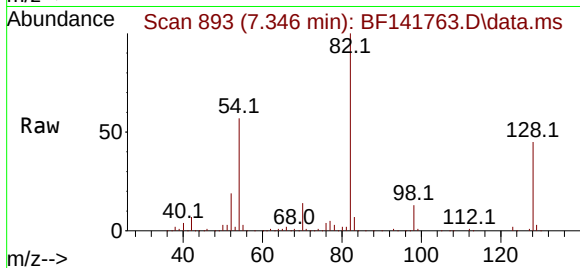
54 56.9 48.2 72.4

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#24

Nitrobenzene

Concen: 44.400 ng

RT: 7.363 min Scan# 896

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

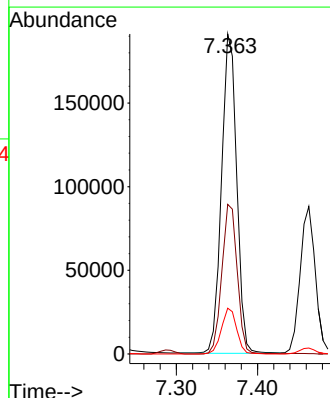
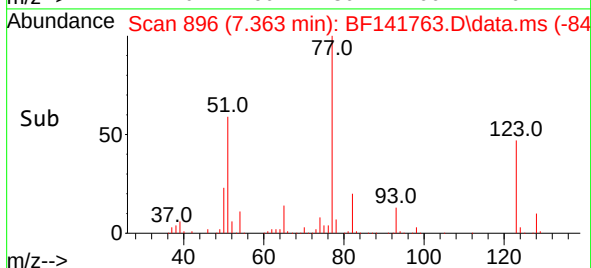
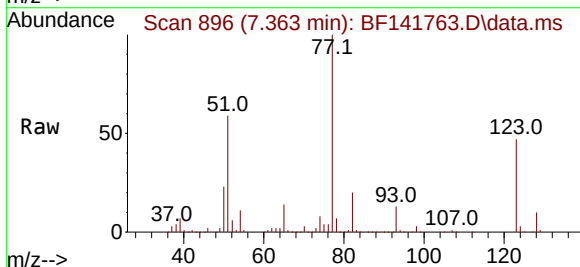
Tgt Ion: 77 Resp: 248969

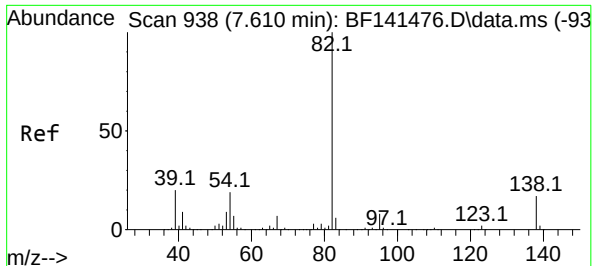
Ion Ratio Lower Upper

77 100

123 46.8 36.9 55.3

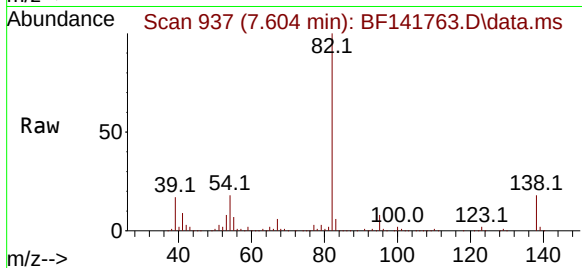
65 14.3 11.9 17.9





#25
Isophorone
Concen: 47.396 ng
RT: 7.604 min Scan# 91
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

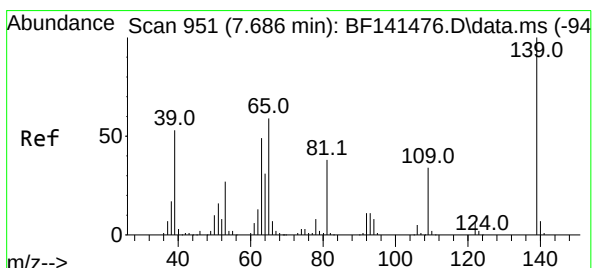
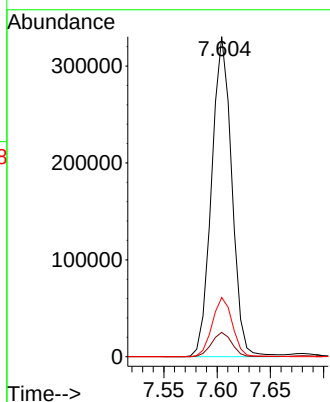
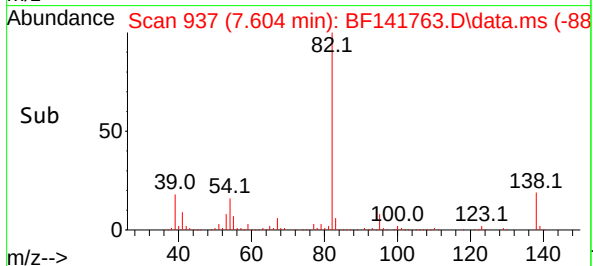
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 82 Resp: 434574
Ion Ratio Lower Upper
82 100
95 7.6 6.4 9.6
138 18.5 13.9 20.9

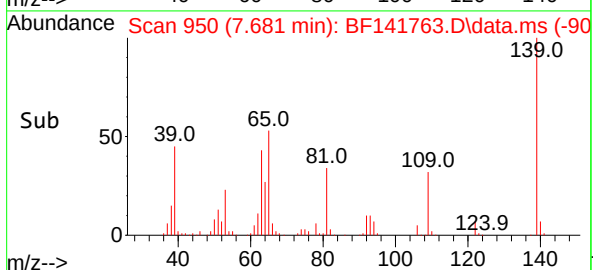
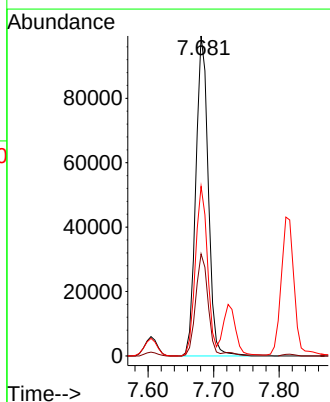
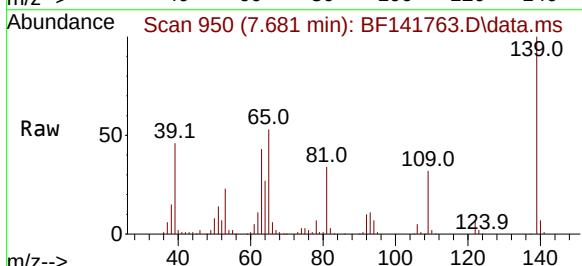
Manual Integrations
APPROVED

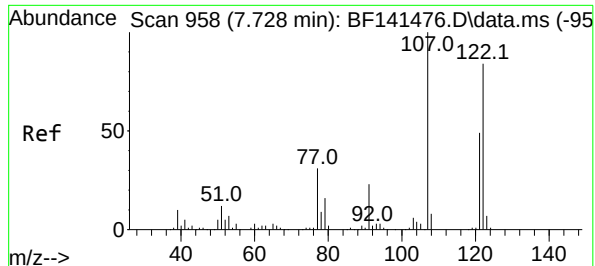
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#26
2-Nitrophenol
Concen: 47.227 ng
RT: 7.681 min Scan# 950
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:139 Resp: 131754
Ion Ratio Lower Upper
139 100
109 31.9 27.0 40.6
65 53.0 47.1 70.7





#27

2,4-Dimethylphenol

Concen: 58.286 ng

RT: 7.722 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:122 Resp: 18995

Ion Ratio Lower Upper

122 100

107 117.9 94.3 141.5

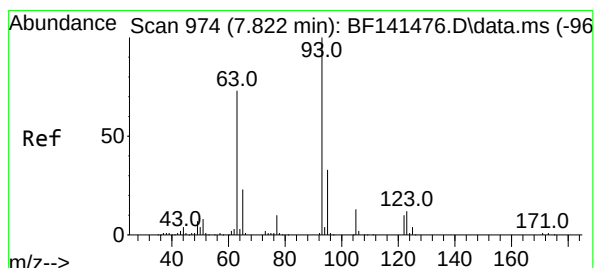
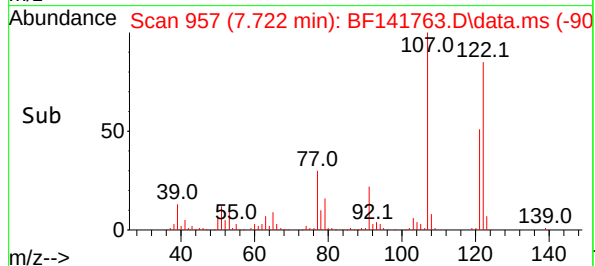
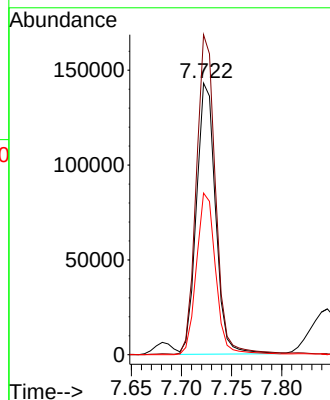
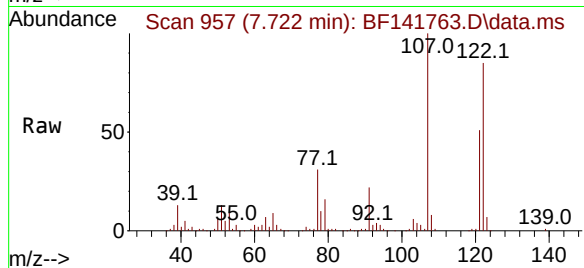
121 59.5 46.0 69.0

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#28

bis(2-Chloroethoxy)methane

Concen: 46.272 ng

RT: 7.816 min Scan# 973

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

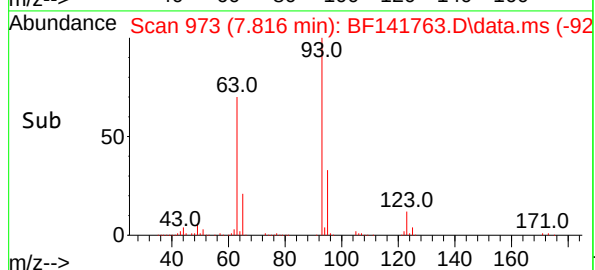
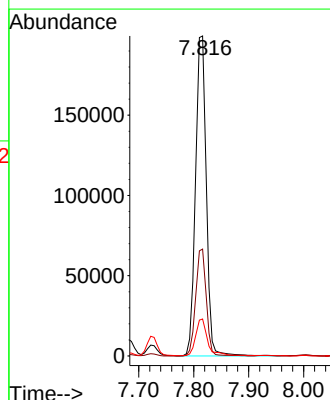
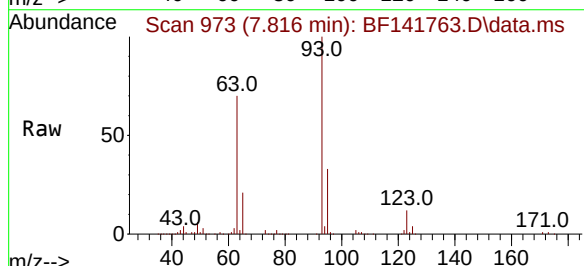
Tgt Ion: 93 Resp: 271858

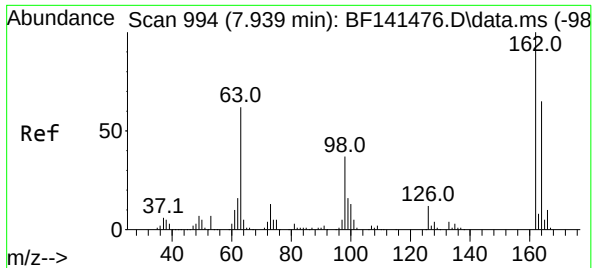
Ion Ratio Lower Upper

93 100

95 33.4 26.1 39.1

123 11.6 9.5 14.3





#29

2,4-Dichlorophenol

Concen: 45.135 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141763.D

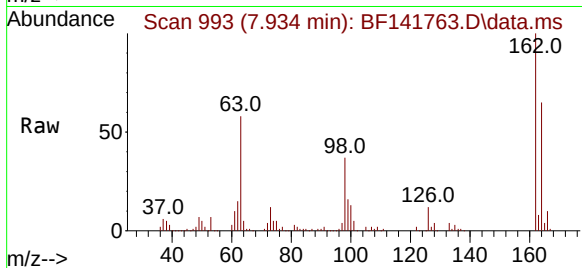
Acq: 25 Feb 2025 14:36

Instrument :

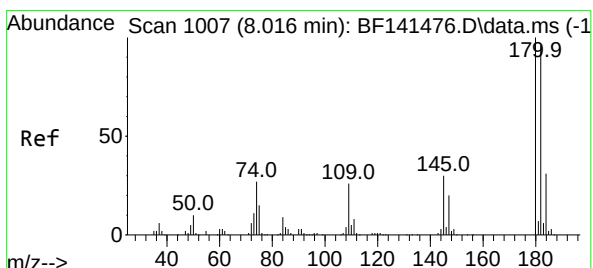
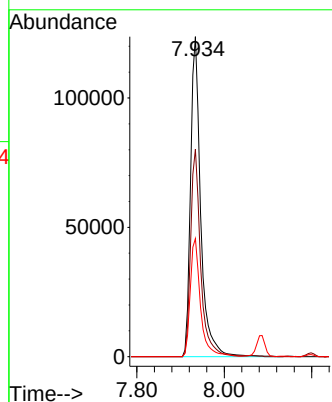
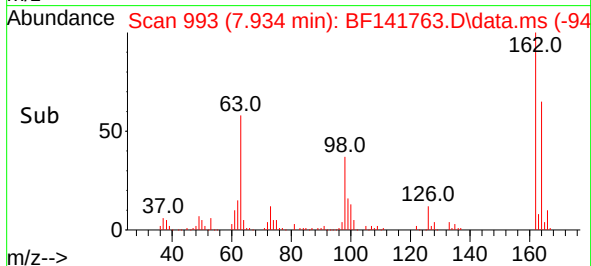
BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:	162	Resp:	198750
Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.6	84.6
98	36.9	17.2	57.2

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

#30

1,2,4-Trichlorobenzene

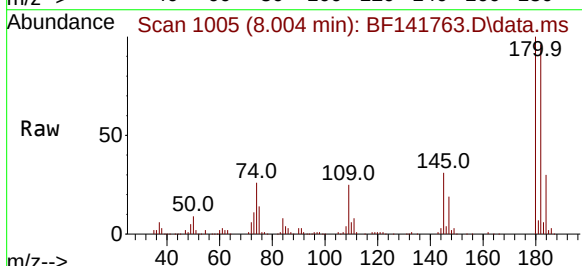
Concen: 45.473 ng

RT: 8.004 min Scan# 1005

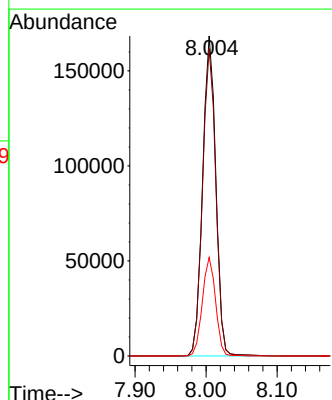
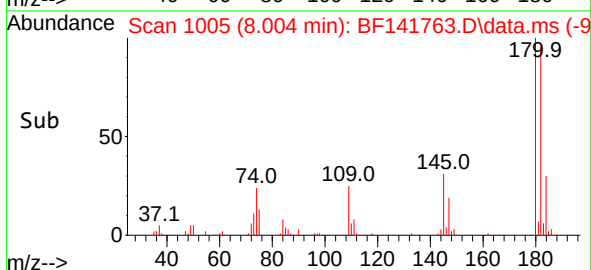
Delta R.T. -0.011 min

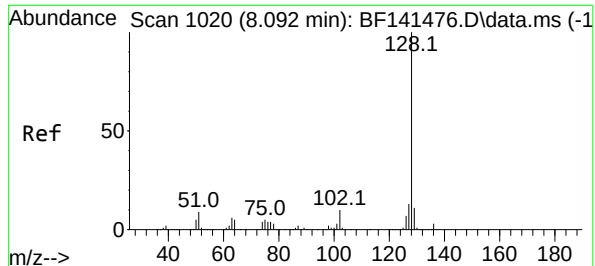
Lab File: BF141763.D

Acq: 25 Feb 2025 14:36



Tgt Ion:	180	Resp:	218056
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	30.8	24.2	36.4





#31

Naphthalene

Concen: 44.540 ng

RT: 8.087 min Scan# 10

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:128 Resp: 695392

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

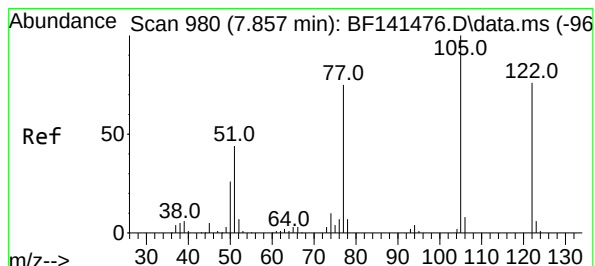
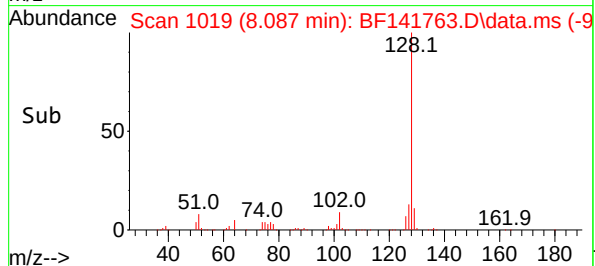
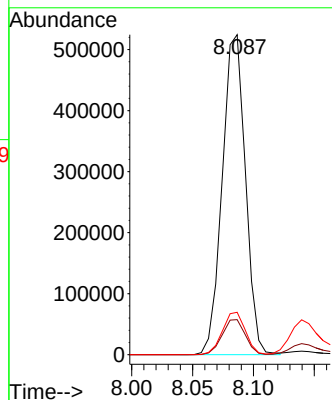
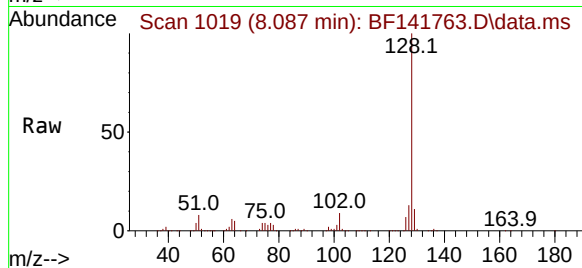
127 13.3 10.7 16.1

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#32

Benzoic acid

Concen: 17.851 ng

RT: 7.845 min Scan# 978

Delta R.T. -0.047 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

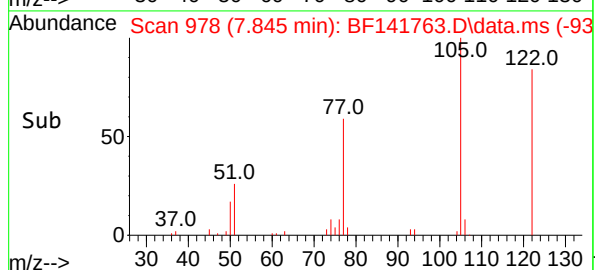
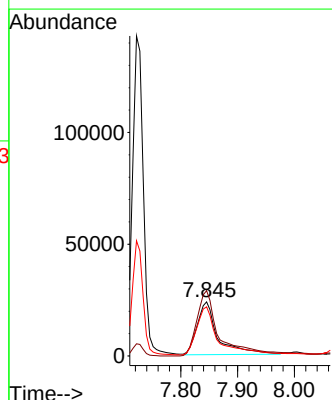
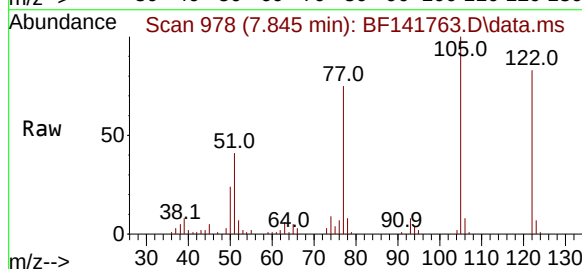
Tgt Ion:122 Resp: 60430

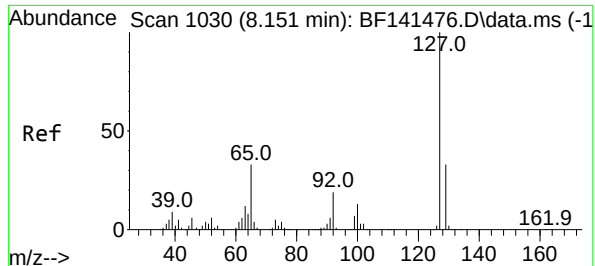
Ion Ratio Lower Upper

122 100

105 120.9 106.5 146.5

77 90.8 76.3 116.3





#33

4-Chloroaniline

Concen: 19.747 ng

RT: 8.140 min Scan# 1030

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:127 Resp: 107639

Ion Ratio Lower Upper

127 100

129 31.7 26.5 39.7

65 30.8 26.4 39.6

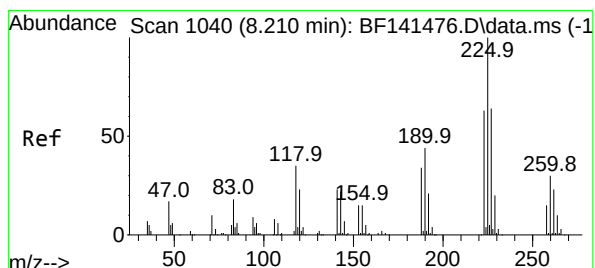
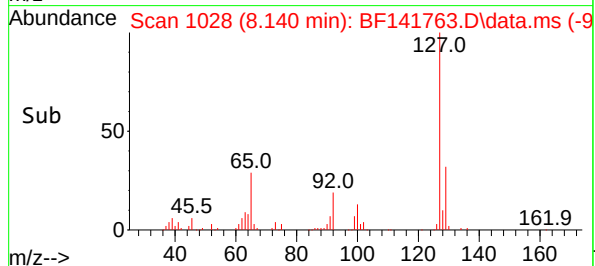
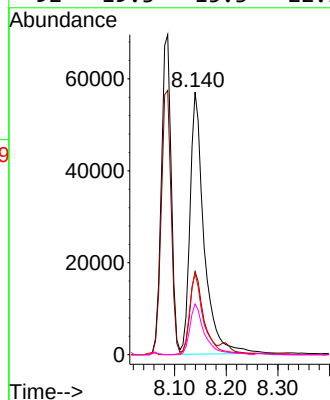
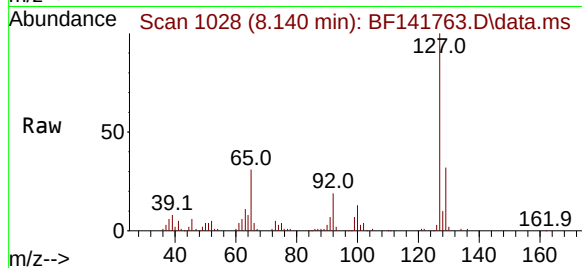
92 19.3 15.3 22.9

Manual Integrations

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Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#34

Hexachlorobutadiene

Concen: 46.070 ng

RT: 8.198 min Scan# 1038

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

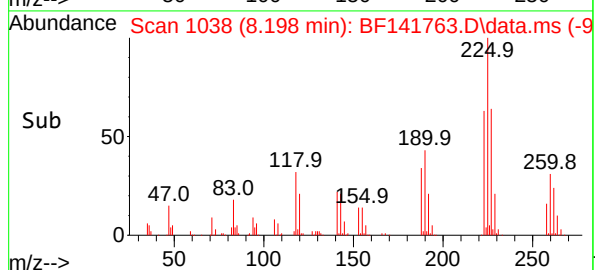
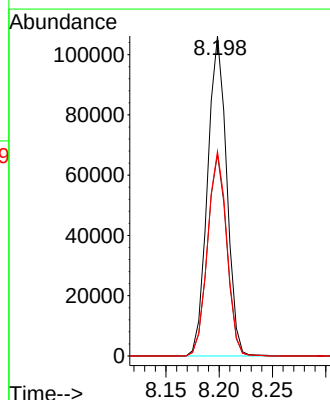
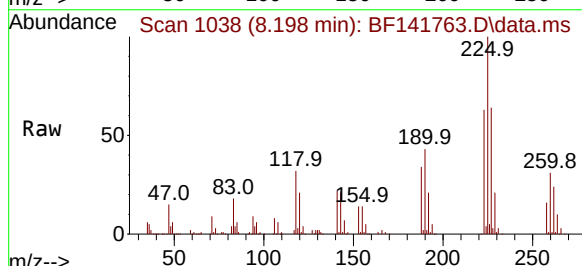
Tgt Ion:225 Resp: 132624

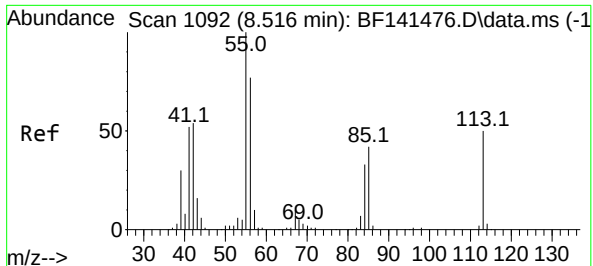
Ion Ratio Lower Upper

225 100

223 63.0 50.1 75.1

227 64.0 51.0 76.6





#35

Caprolactam

Concen: 46.193 ng m

RT: 8.504 min Scan# 1092

Delta R.T. -0.041 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:113 Resp: 6193

Ion Ratio Lower Upper

113 100

55 193.2 180.8 220.8

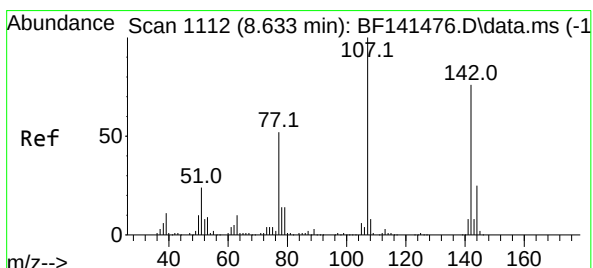
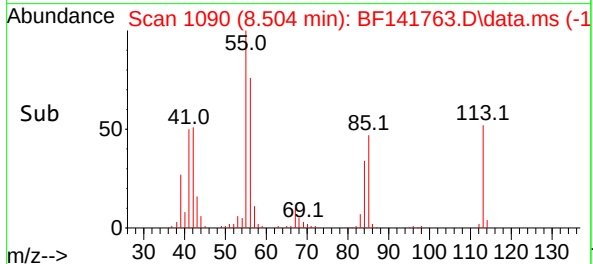
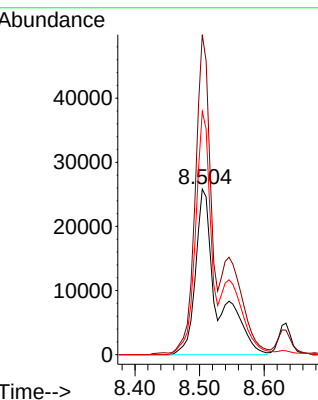
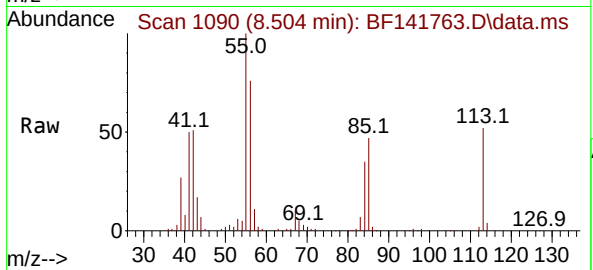
56 146.8 133.6 173.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#36

4-Chloro-3-methylphenol

Concen: 42.944 ng

RT: 8.634 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

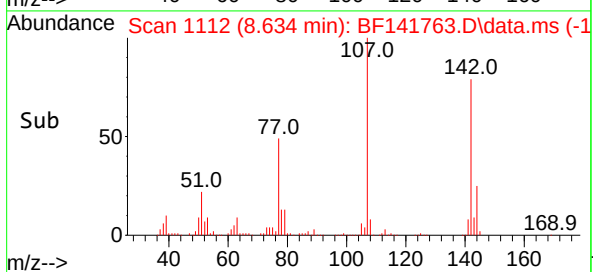
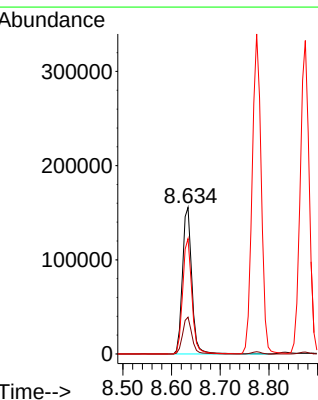
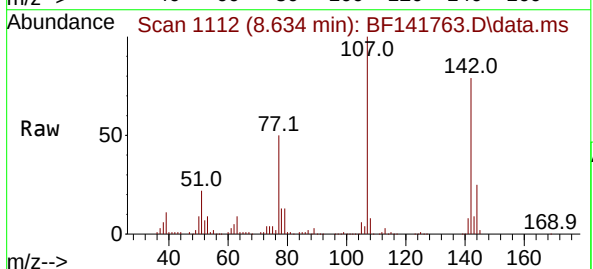
Tgt Ion:107 Resp: 209473

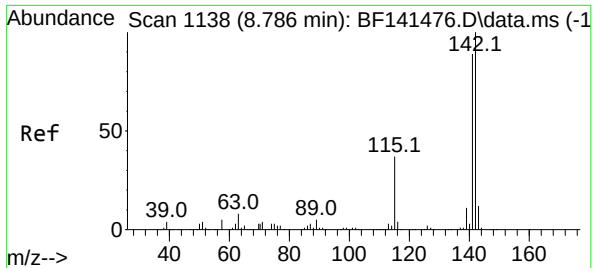
Ion Ratio Lower Upper

107 100

144 25.2 19.7 29.5

142 78.7 60.8 91.2





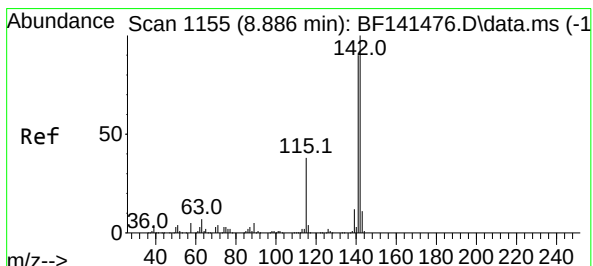
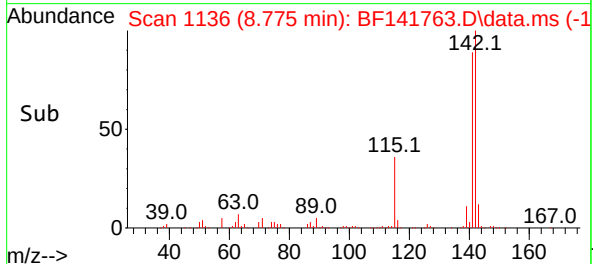
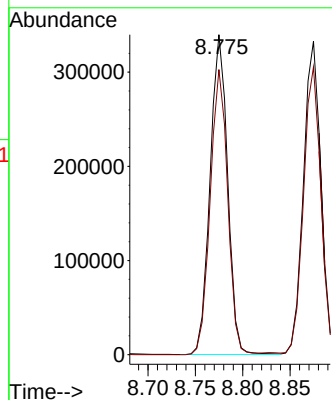
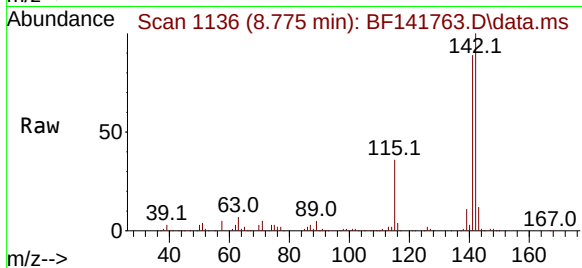
#37
2-Methylnaphthalene
Concen: 43.065 ng
RT: 8.775 min Scan# 1133
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD

Tgt Ion:142 Resp: 43753
Ion Ratio Lower Upper
142 100
141 89.1 71.2 106.8

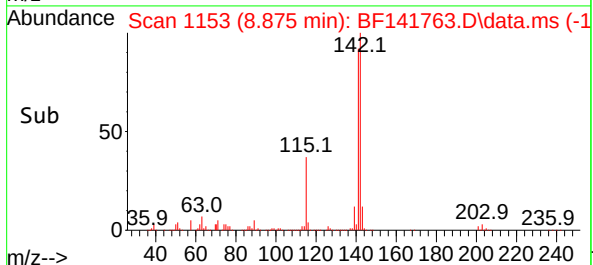
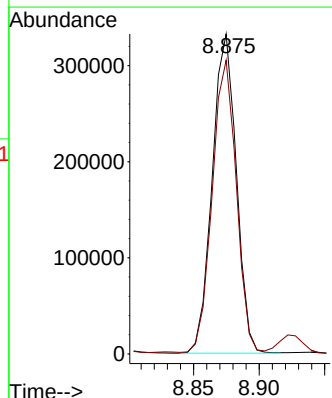
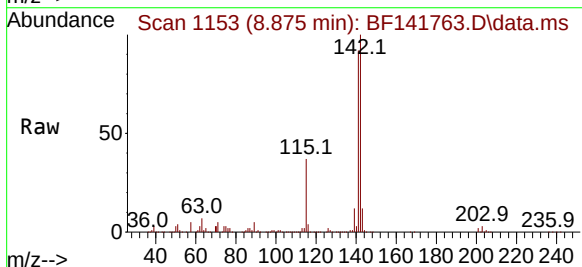
Manual Integrations
APPROVED

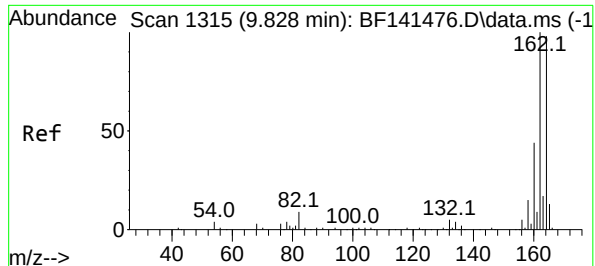
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#38
1-Methylnaphthalene
Concen: 43.132 ng
RT: 8.875 min Scan# 1153
Delta R.T. -0.012 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:142 Resp: 424417
Ion Ratio Lower Upper
142 100
141 91.8 72.1 108.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1164

Delta R.T. -0.017 min

Lab File: BF141763.D

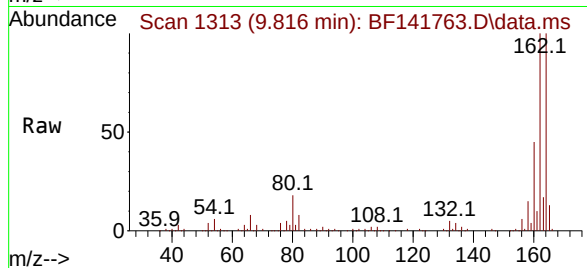
Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:164 Resp: 161800

Ion Ratio Lower Upper

164 100

162 100.1 81.3 121.9

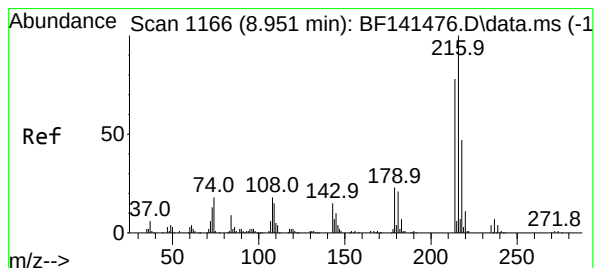
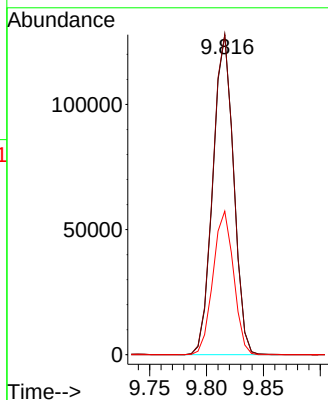
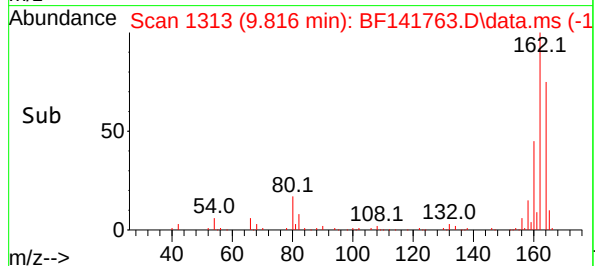
160 44.9 35.9 53.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#40

1,2,4,5-Tetrachlorobenzene

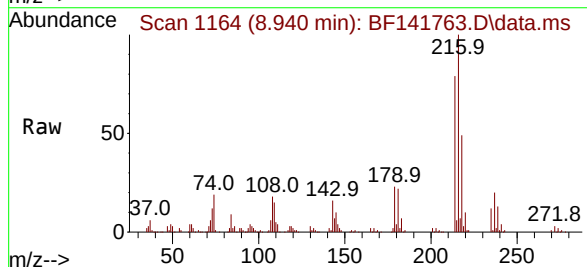
Concen: 51.212 ng

RT: 8.940 min Scan# 1164

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36



Tgt Ion:216 Resp: 239737

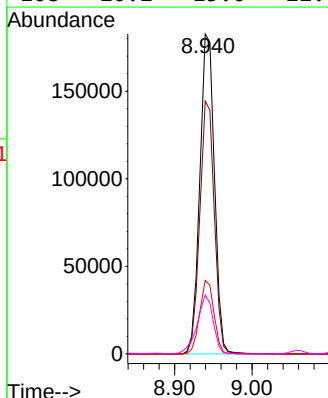
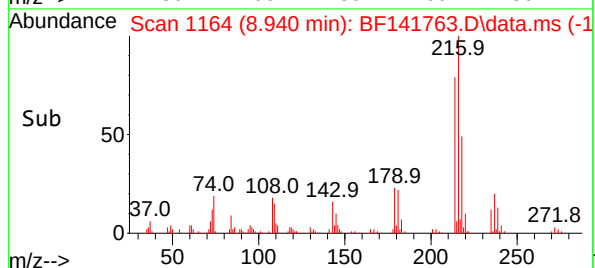
Ion Ratio Lower Upper

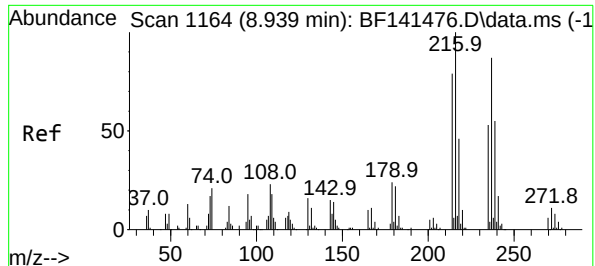
216 100

214 78.5 62.3 93.5

179 22.5 18.0 27.0

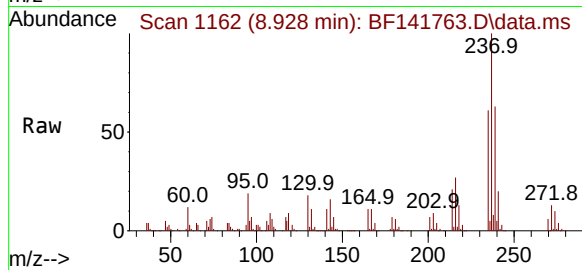
108 20.2 15.0 22.6





#41
Hexachlorocyclopentadiene
Concen: 135.724 ng
RT: 8.928 min Scan# 1162
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

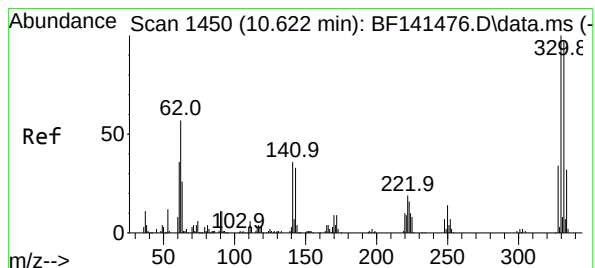
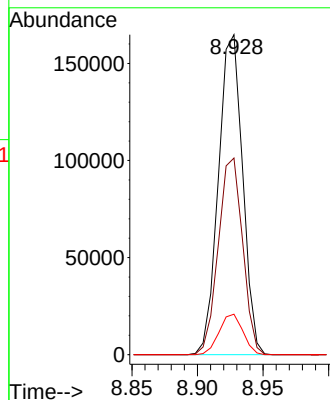
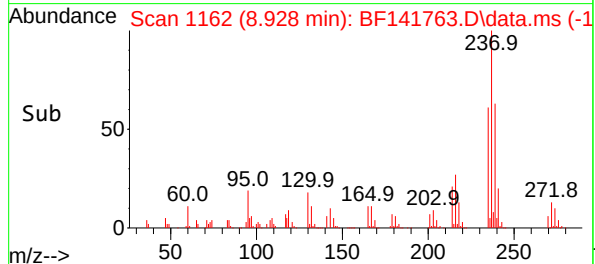
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:237 Resp: 211329
Ion Ratio Lower Upper
237 100
235 61.5 41.4 81.4
272 12.7 0.0 32.4

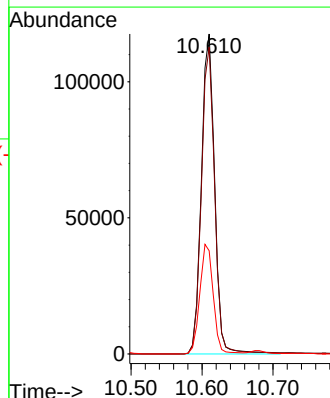
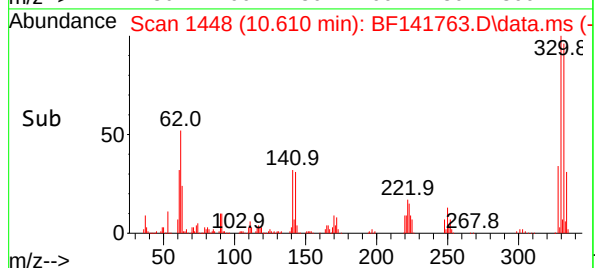
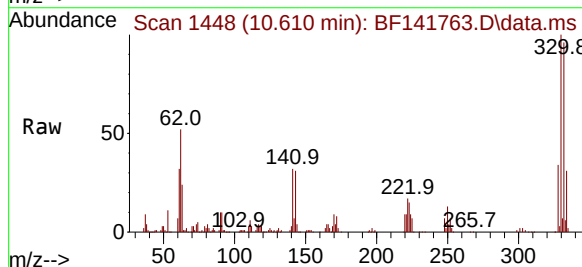
Manual Integrations
APPROVED

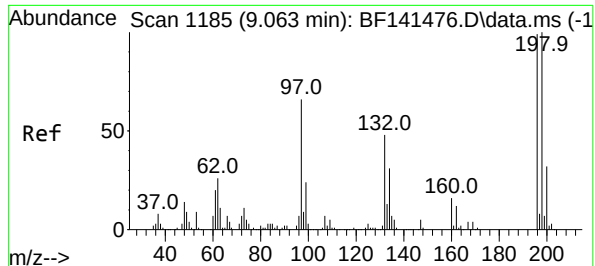
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#42
2,4,6-Tribromophenol
Concen: 94.076 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:330 Resp: 152913
Ion Ratio Lower Upper
330 100
332 96.8 78.5 117.7
141 34.7 31.0 46.4





#43

2,4,6-Trichlorophenol

Concen: 44.843 ng

RT: 9.057 min Scan# 1184

Delta R.T. -0.011 min

Lab File: BF141763.D

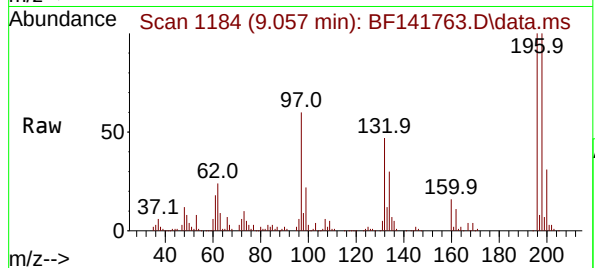
Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:196 Resp: 135670

Ion Ratio Lower Upper

196 100

198 100.3 80.6 121.0

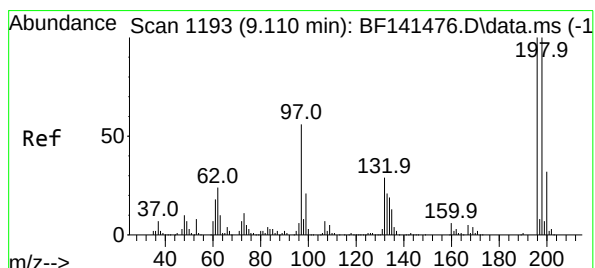
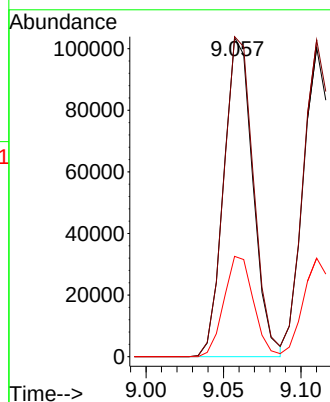
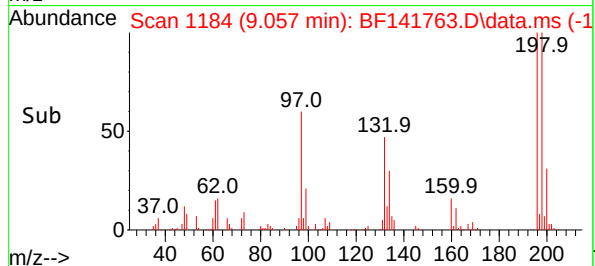
200 31.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#44

2,4,5-Trichlorophenol

Concen: 43.112 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Tgt Ion:196 Resp: 141363

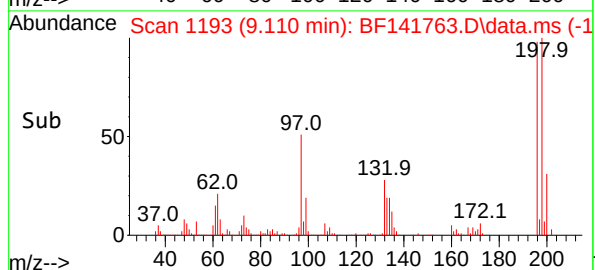
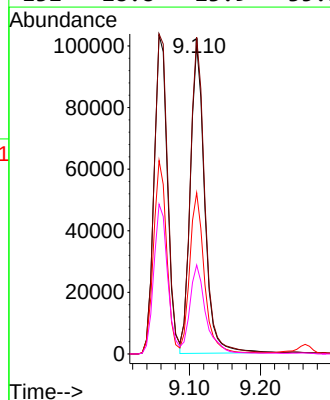
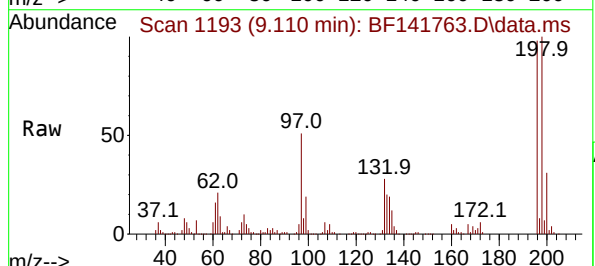
Ion Ratio Lower Upper

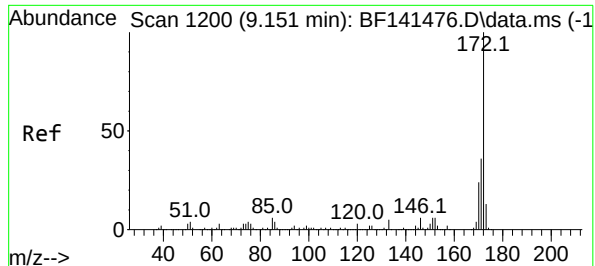
196 100

198 102.5 79.8 119.8

97 52.1 44.8 67.2

132 28.8 23.9 35.9





#45

2-Fluorobiphenyl

Concen: 72.536 ng

RT: 9.134 min Scan# 1197

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

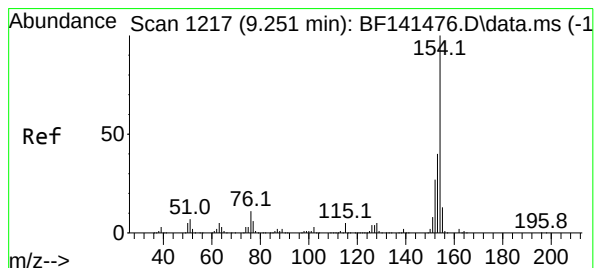
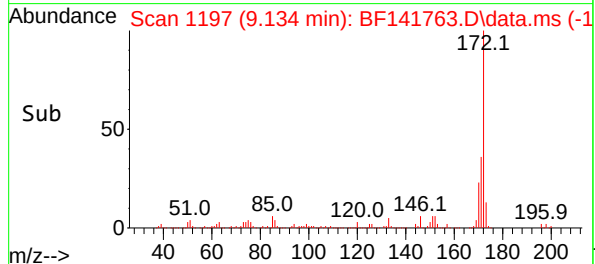
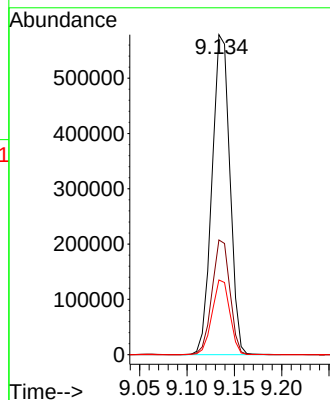
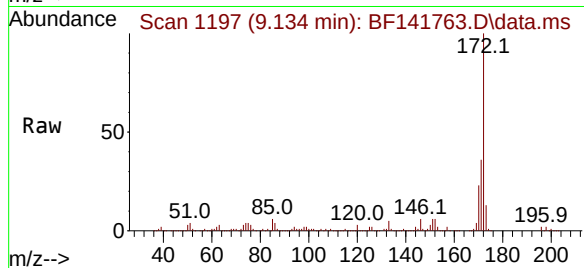
P001-CLAY-CF01-01MSD

Tgt Ion:	172	Resp:	76181
Ion Ratio	Lower	Upper	
172	100		
171	35.9	28.7	43.1
170	23.3	18.9	28.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#46

1,1'-Biphenyl

Concen: 50.317 ng

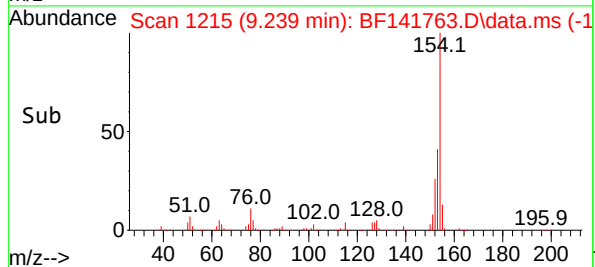
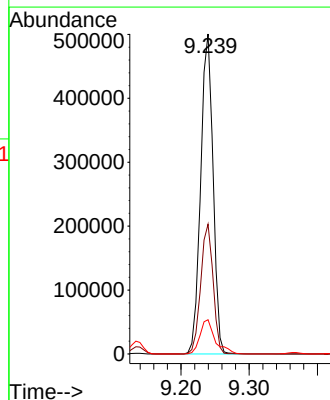
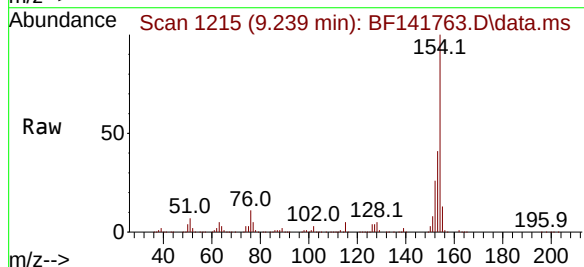
RT: 9.239 min Scan# 1215

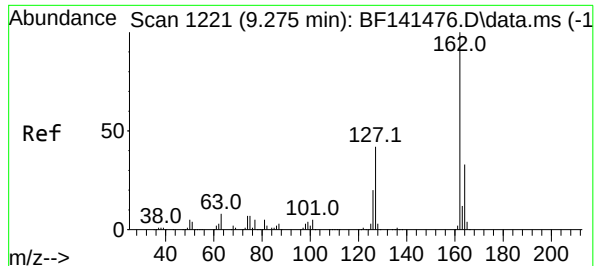
Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Tgt Ion:	154	Resp:	631200
Ion Ratio	Lower	Upper	
154	100		
153	40.6	20.4	60.4
76	10.7	0.0	30.8





#47

2-Chloronaphthalene

Concen: 46.266 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:162 Resp: 42918

Ion Ratio Lower Upper

162 100

127 41.9 34.1 51.1

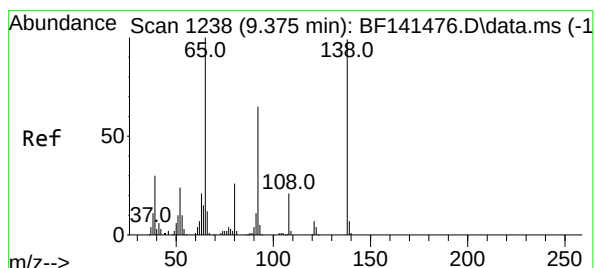
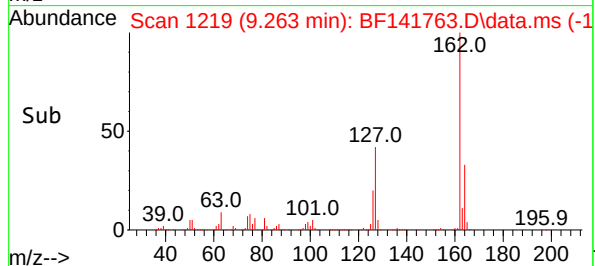
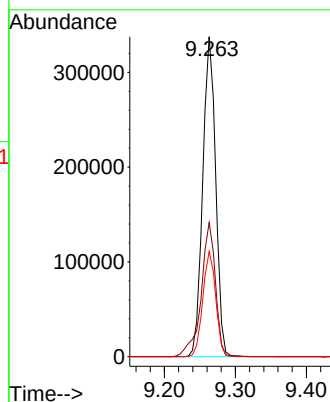
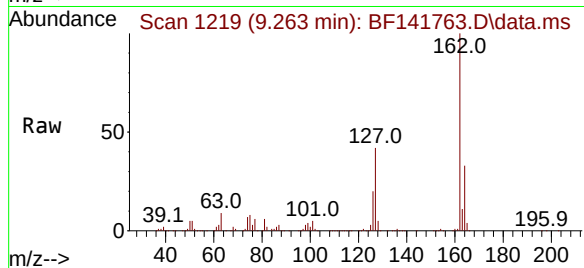
164 32.9 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#48

2-Nitroaniline

Concen: 43.349 ng

RT: 9.363 min Scan# 1236

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

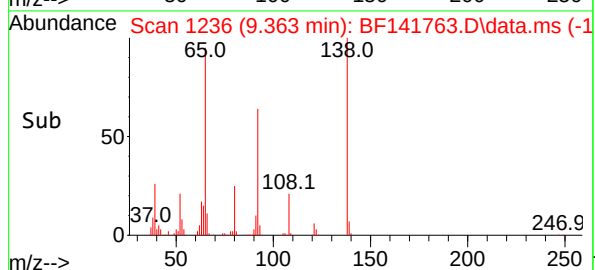
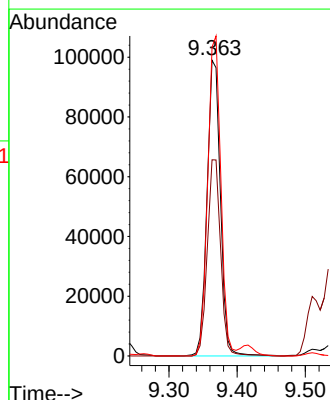
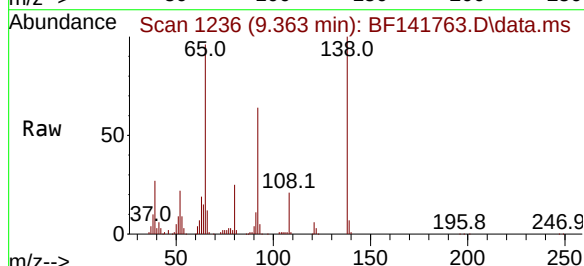
Tgt Ion: 65 Resp: 134953

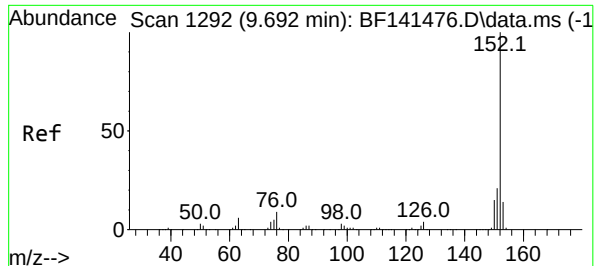
Ion Ratio Lower Upper

65 100

92 66.4 52.2 78.2

138 104.5 79.5 119.3





#49

Acenaphthylene

Concen: 47.361 ng

RT: 9.675 min Scan# 1289

Delta R.T. -0.017 min

Lab File: BF141763.D

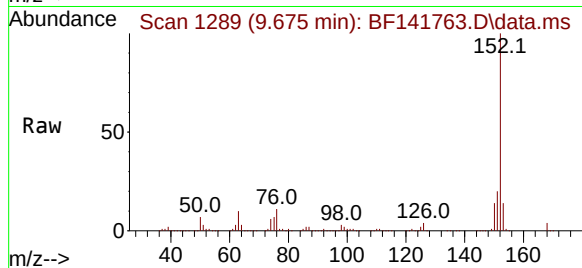
Acq: 25 Feb 2025 14:36

Instrument :

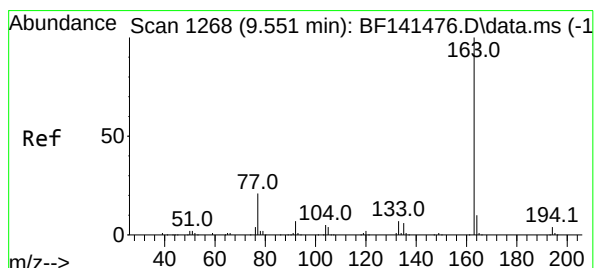
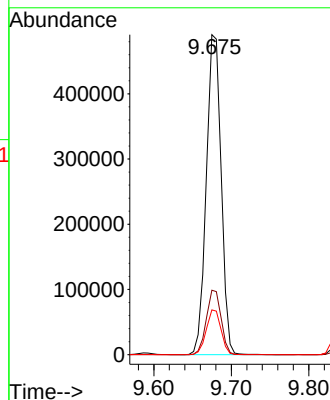
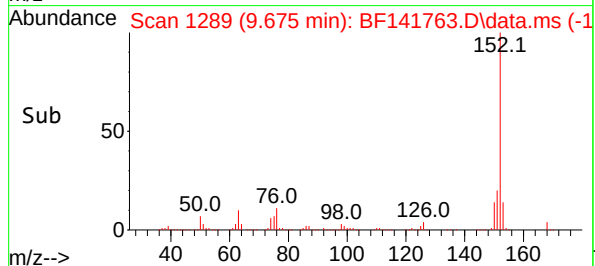
BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD



Tgt Ion:	152	Resp:	65345
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.4	24.6
153	14.0	10.9	16.3

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

#50

Dimethylphthalate

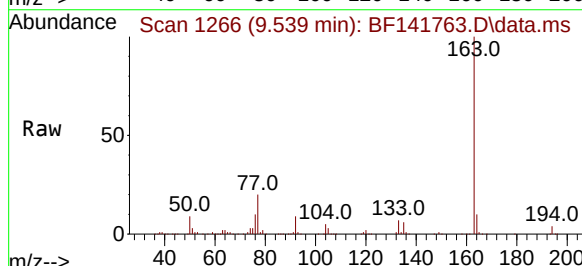
Concen: 44.099 ng

RT: 9.539 min Scan# 1266

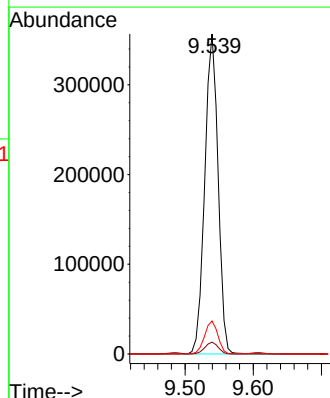
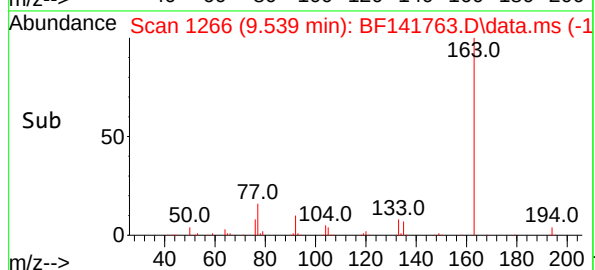
Delta R.T. -0.023 min

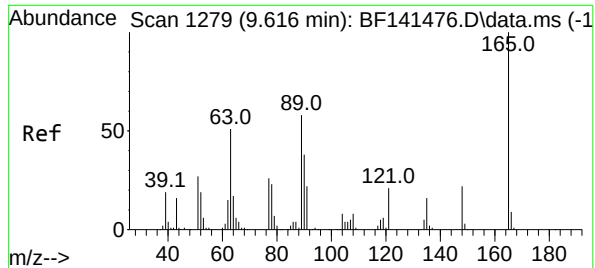
Lab File: BF141763.D

Acq: 25 Feb 2025 14:36



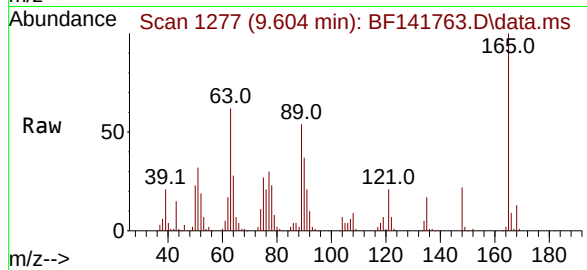
Tgt Ion:	163	Resp:	484412
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.4
164	10.3	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 45.293 ng
RT: 9.604 min Scan# 1319
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

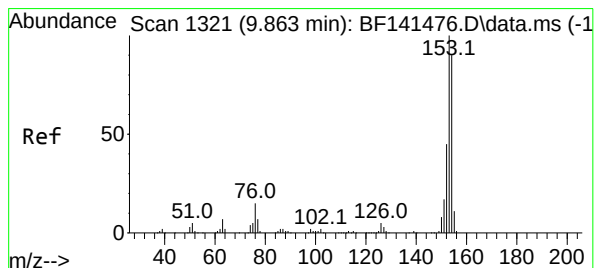
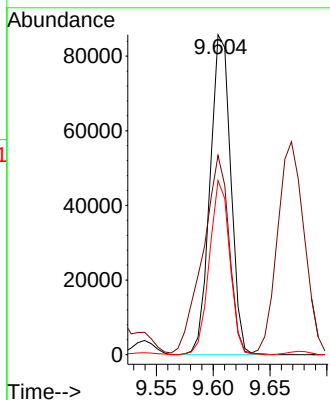
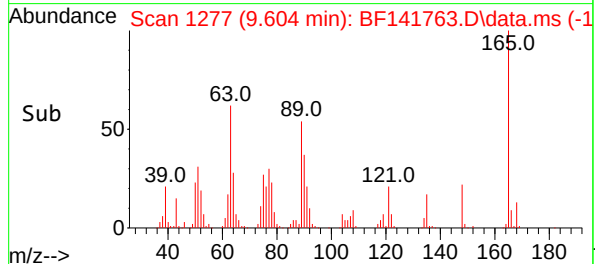
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:165 Resp: 108763
Ion Ratio Lower Upper
165 100
63 62.2 49.4 74.0
89 54.4 46.5 69.7

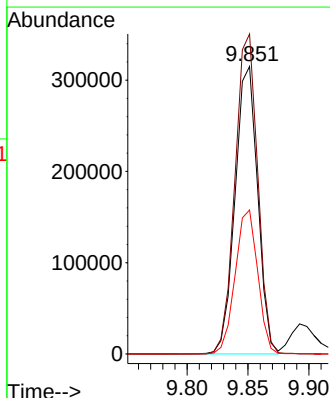
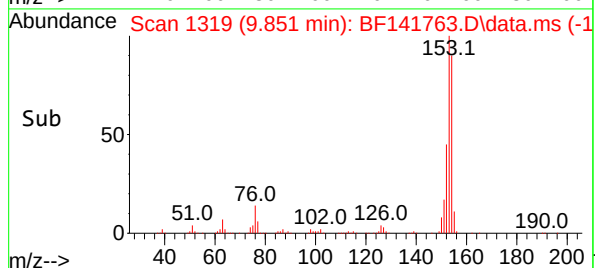
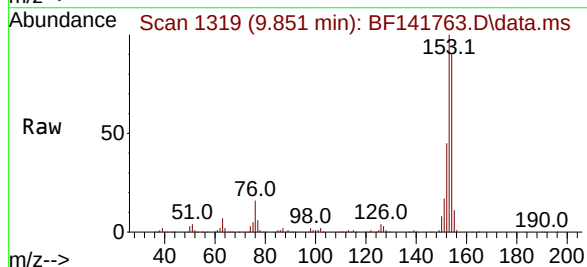
Manual Integrations
APPROVED

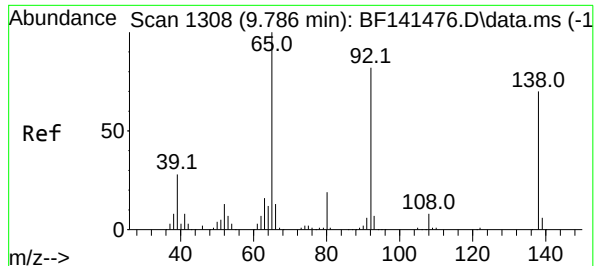
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#52
Acenaphthene
Concen: 44.012 ng
RT: 9.851 min Scan# 1319
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:154 Resp: 408252
Ion Ratio Lower Upper
154 100
153 111.3 89.2 133.8
152 50.1 39.8 59.8





#53

3-Nitroaniline

Concen: 25.937 ng

RT: 9.775 min Scan# 1306

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:138 Resp: 67035

Ion Ratio Lower Upper

138 100

108 11.7 9.0 13.4

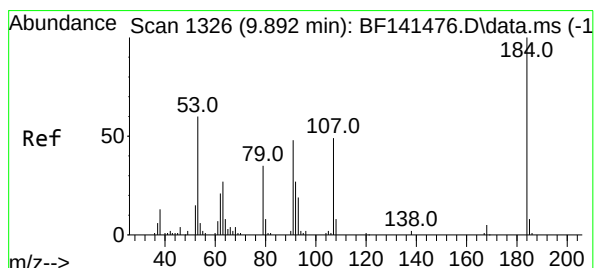
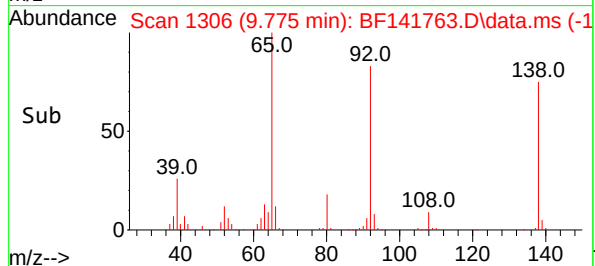
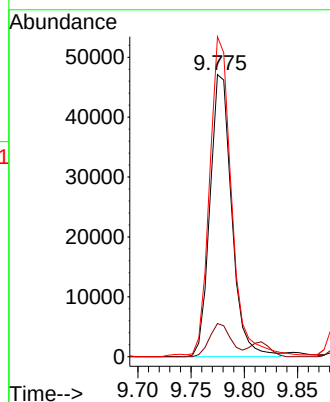
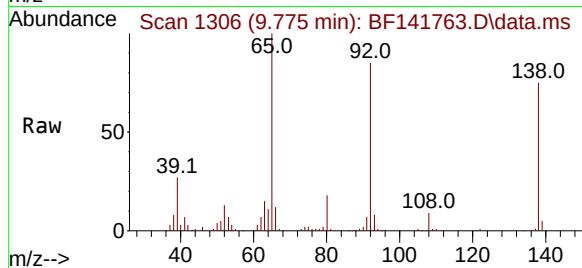
92 113.4 93.7 140.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#54

2,4-Dinitrophenol

Concen: 61.119 ng

RT: 9.892 min Scan# 1326

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

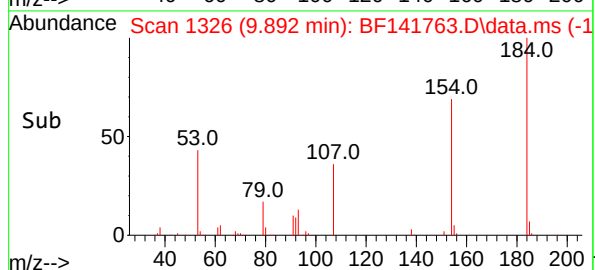
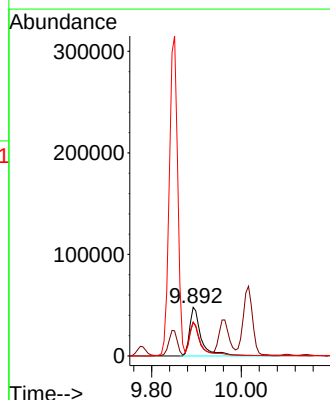
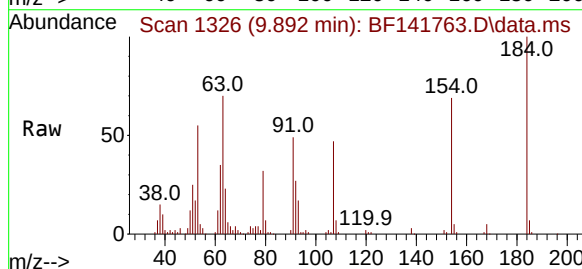
Tgt Ion:184 Resp: 87227

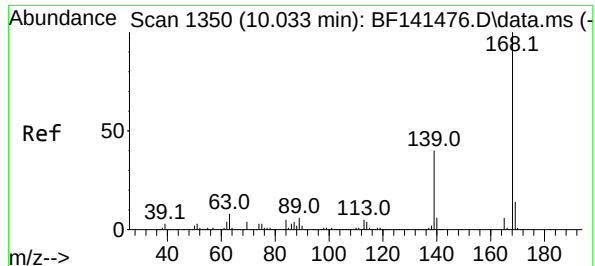
Ion Ratio Lower Upper

184 100

63 69.9 61.0 91.6

154 68.7 59.9 89.9





#55

Dibenzenofuran

Concen: 42.834 ng

RT: 10.022 min Scan# 1348

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:168 Resp: 58319

Ion Ratio Lower Upper

168 100

139 39.9 32.7 49.1

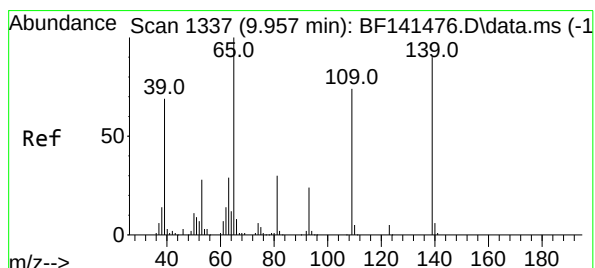
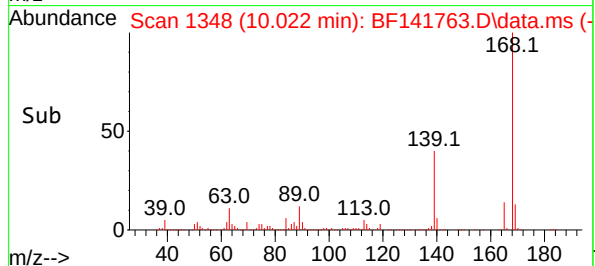
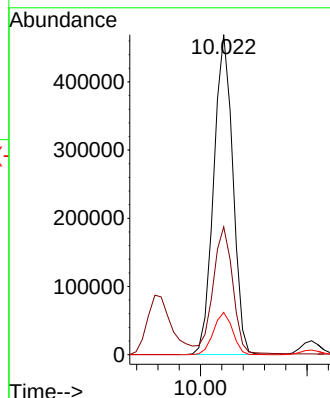
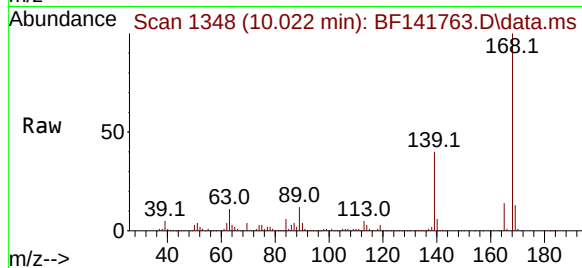
169 13.2 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#56

4-Nitrophenol

Concen: 73.020 ng

RT: 9.957 min Scan# 1337

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

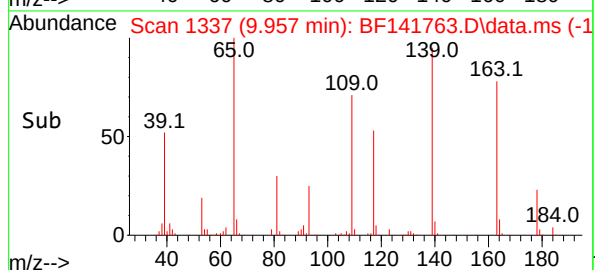
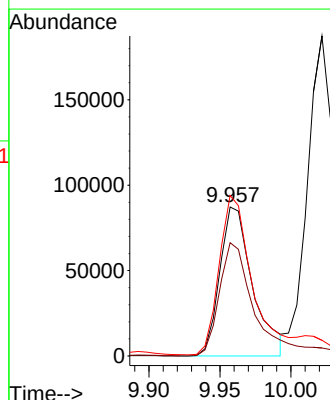
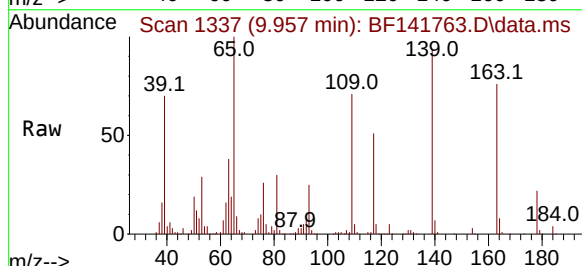
Tgt Ion:139 Resp: 140095

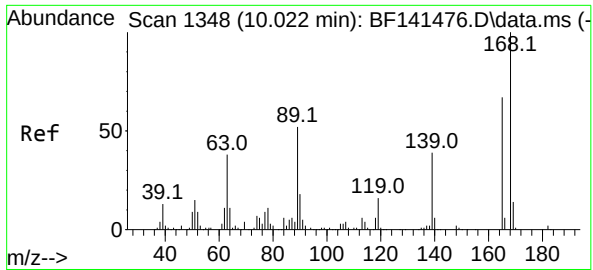
Ion Ratio Lower Upper

139 100

109 76.0 62.0 102.0

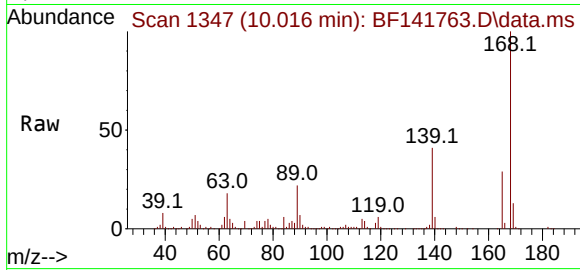
65 107.7 91.2 131.2





#57
2,4-Dinitrotoluene
Concen: 44.566 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

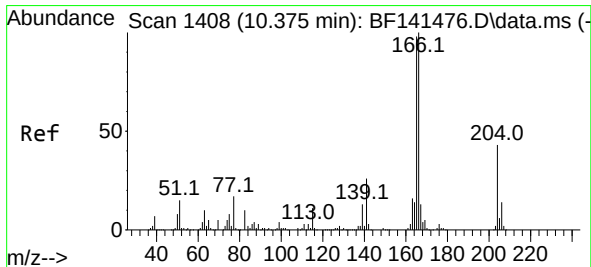
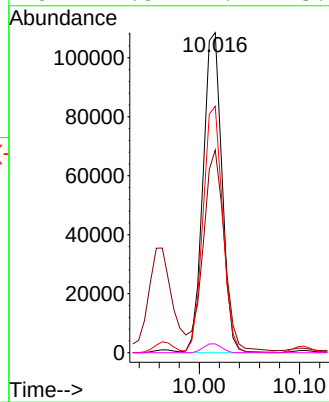
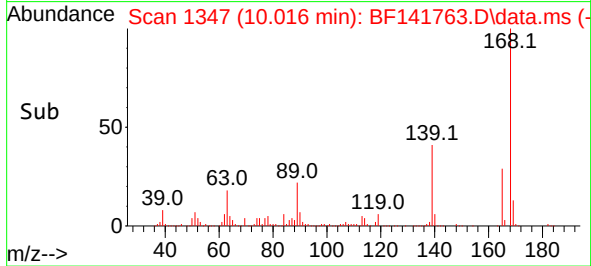
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:165 Resp: 142460
Ion Ratio Lower Upper
165 100
63 63.4 46.4 69.6
89 77.0 61.8 92.6
182 2.8 2.2 3.2

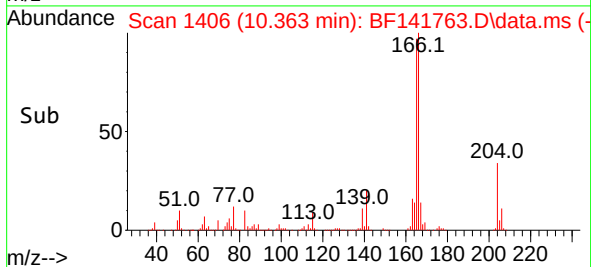
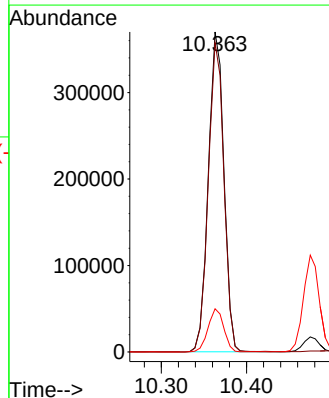
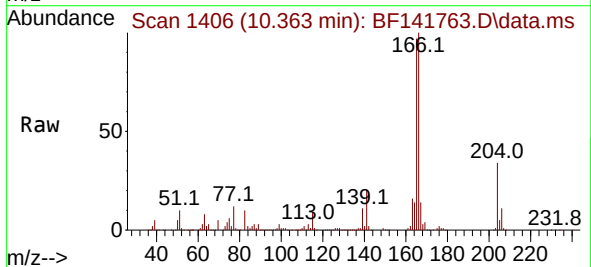
Manual Integrations
APPROVED

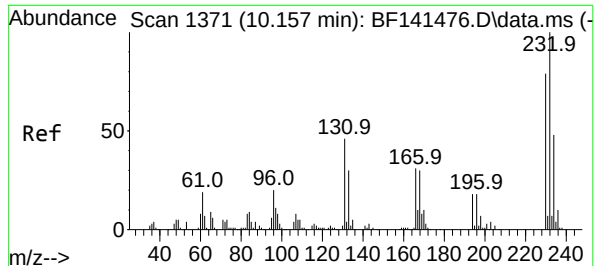
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#58
Fluorene
Concen: 44.692 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

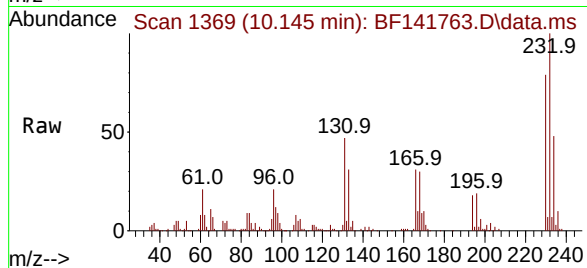
Tgt Ion:166 Resp: 470483
Ion Ratio Lower Upper
166 100
165 96.7 78.2 117.2
167 13.5 10.7 16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 41.218 ng
RT: 10.145 min Scan# 11
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

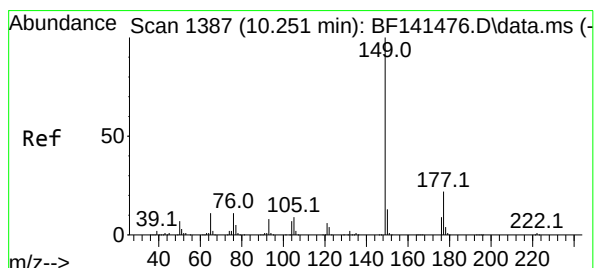
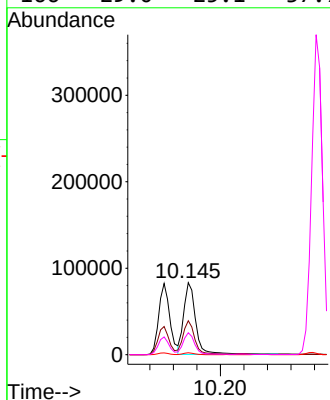
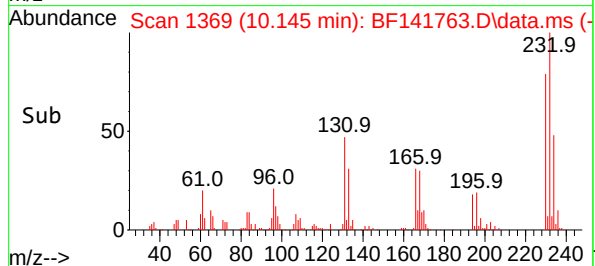
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:232 Resp: 116358
Ion Ratio Lower Upper
232 100
131 46.6 39.2 58.8
130 2.5 2.1 3.1
166 29.0 25.1 37.7

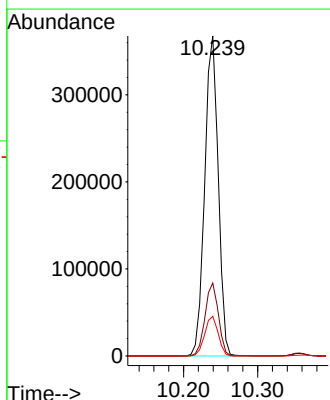
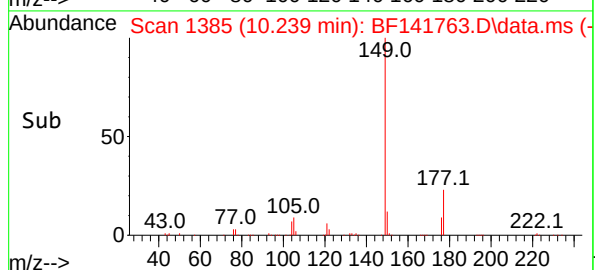
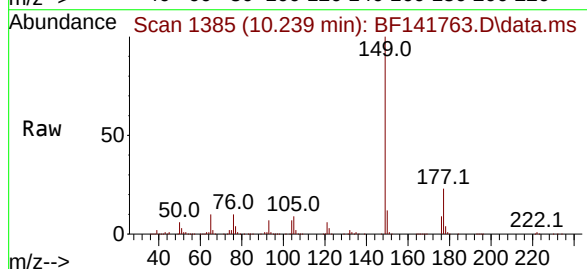
Manual Integrations
APPROVED

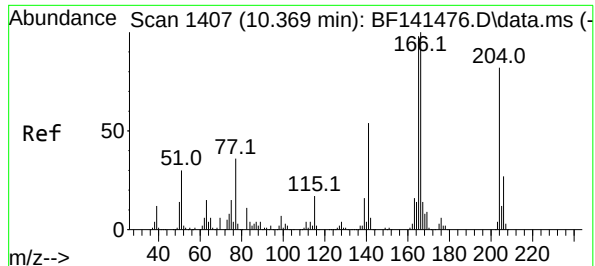
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#60
Diethylphthalate
Concen: 43.068 ng
RT: 10.239 min Scan# 1385
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

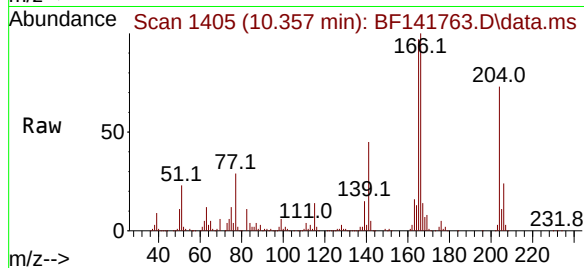
Tgt Ion:149 Resp: 465458
Ion Ratio Lower Upper
149 100
177 22.8 17.8 26.6
150 12.4 10.1 15.1





#61
4-Chlorophenyl-phenylether
Concen: 44.958 ng
RT: 10.357 min Scan# 1405
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

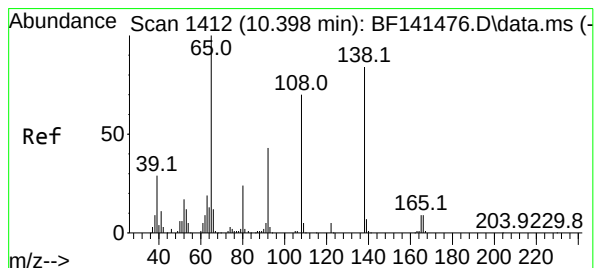
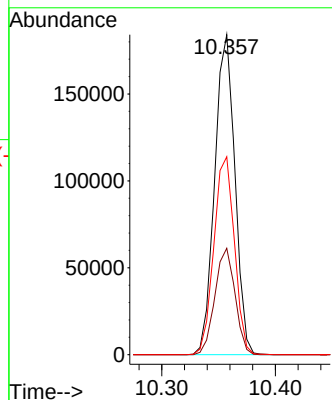
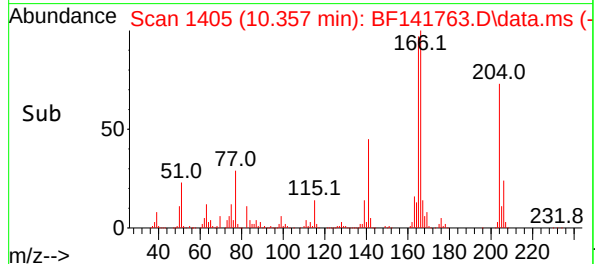
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



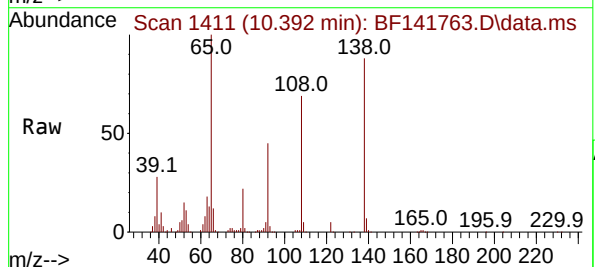
Tgt Ion:204 Resp: 227694
Ion Ratio Lower Upper
204 100
206 33.3 26.6 40.0
141 61.8 51.9 77.9

Manual Integrations
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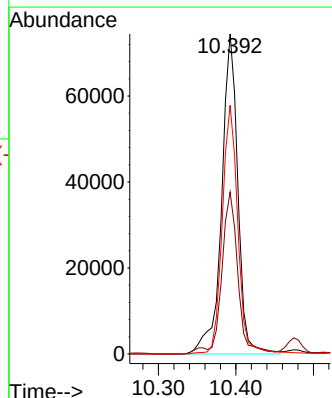
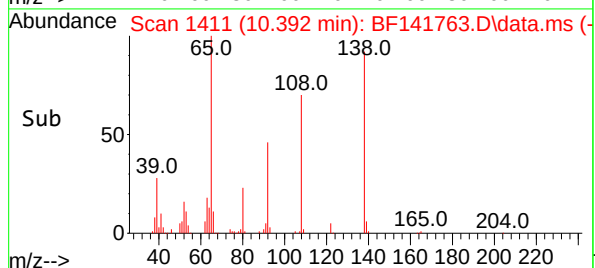
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

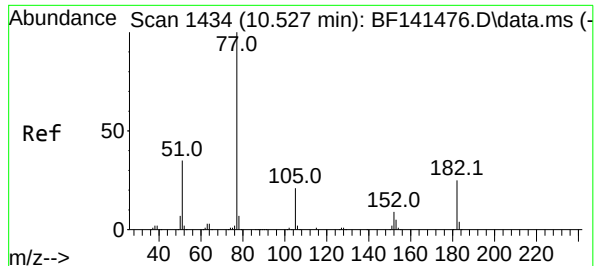


#62
4-Nitroaniline
Concen: 41.300 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36



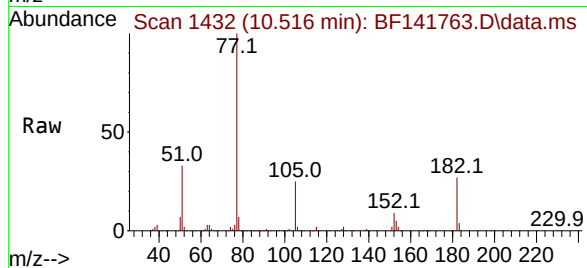
Tgt Ion:138 Resp: 108386
Ion Ratio Lower Upper
138 100
92 50.6 31.3 71.3
108 77.7 63.7 103.7





#63
Azobenzene
Concen: 46.798 ng
RT: 10.516 min Scan# 1434
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

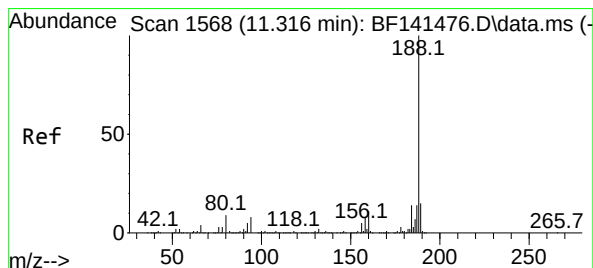
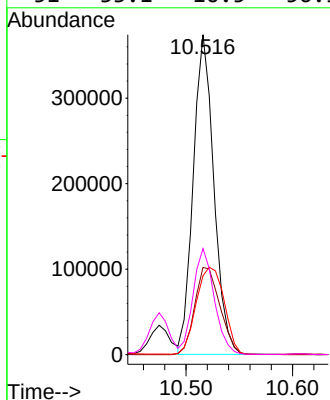
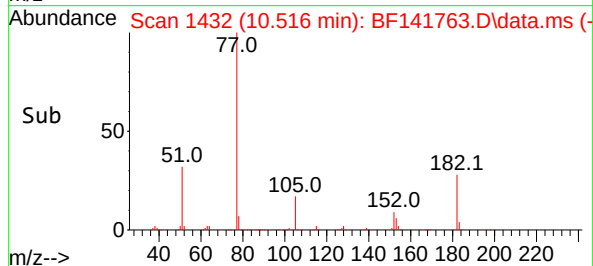
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion: 77 Resp: 50279
Ion Ratio Lower Upper
77 100
182 27.2 4.7 44.7
105 24.6 0.4 40.4
51 33.1 16.5 56.5

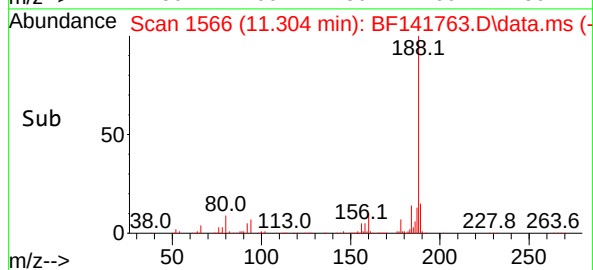
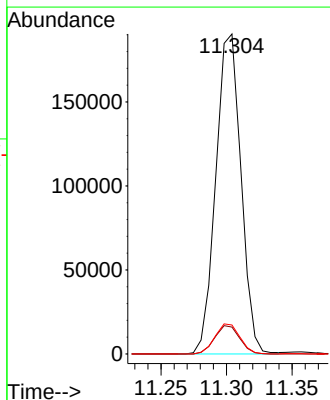
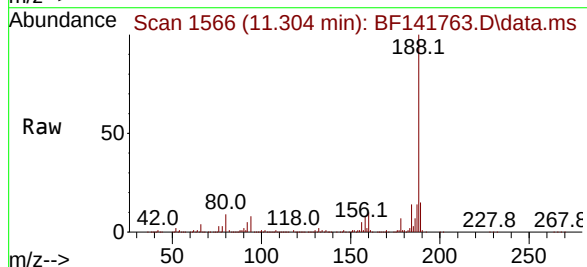
Manual Integrations
APPROVED

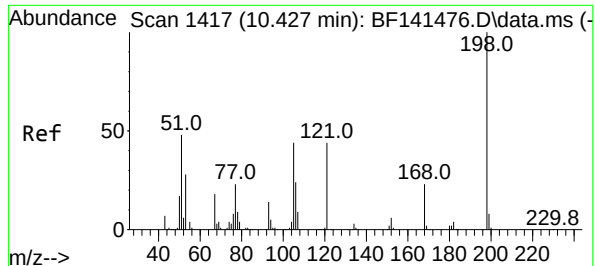
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1566
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

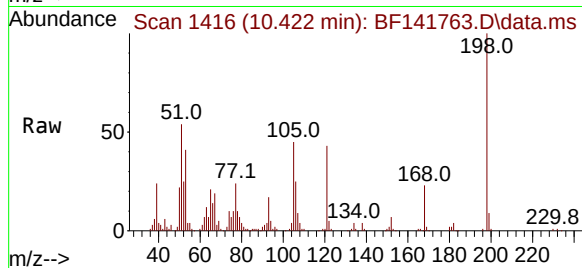
Tgt Ion:188 Resp: 253973
Ion Ratio Lower Upper
188 100
94 8.4 6.6 10.0
80 9.1 7.3 10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 38.104 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

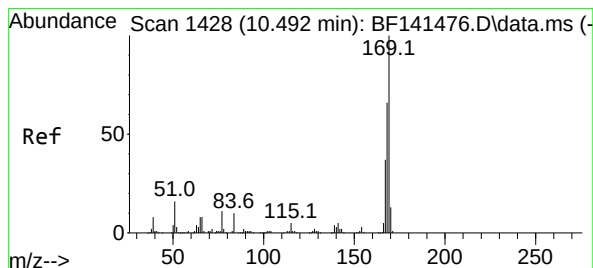
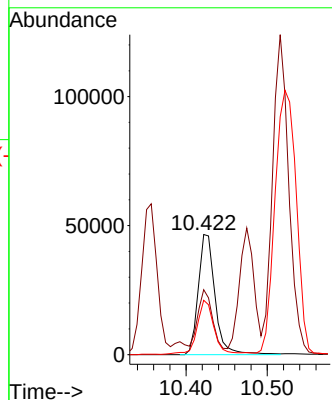
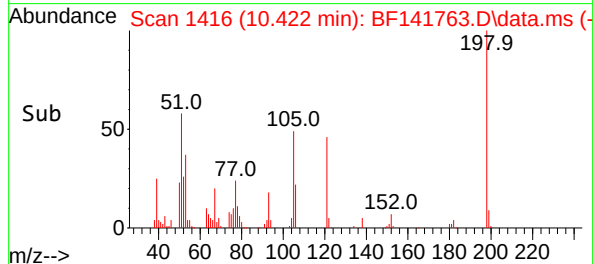
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:198 Resp: 67224
Ion Ratio Lower Upper
198 100
51 54.1 37.4 77.4
105 45.2 25.2 65.2

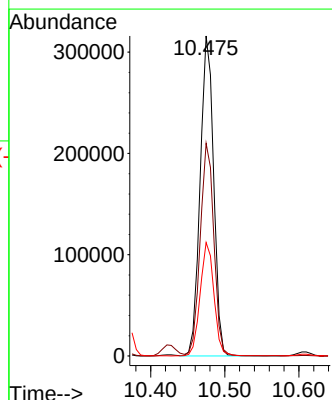
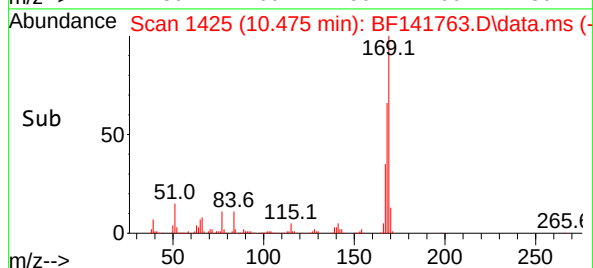
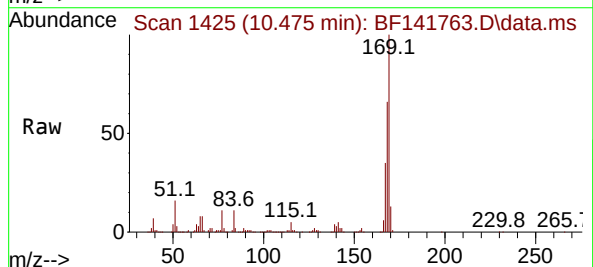
Manual Integrations
APPROVED

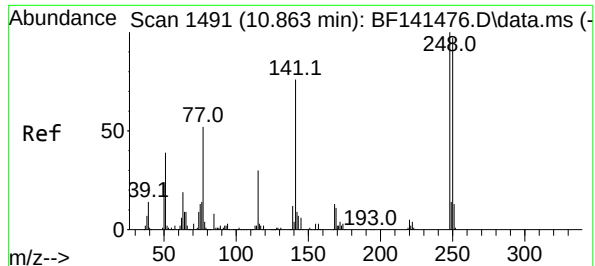
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#66
n-Nitrosodiphenylamine
Concen: 49.203 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.023 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

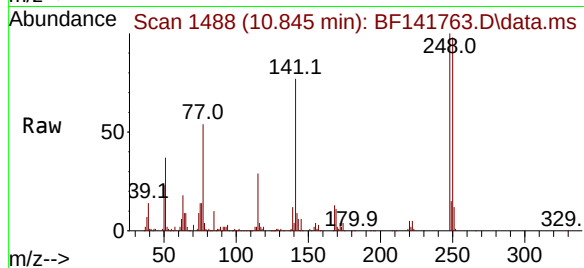
Tgt Ion:169 Resp: 400020
Ion Ratio Lower Upper
169 100
168 66.5 53.3 79.9
167 35.4 29.4 44.2





#67
4-Bromophenyl-phenylether
Concen: 49.014 ng
RT: 10.845 min Scan# 1491
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

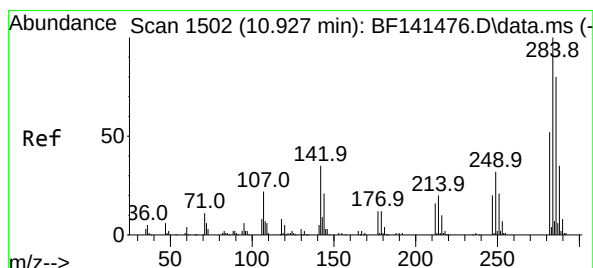
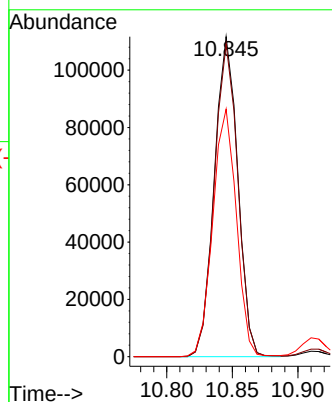
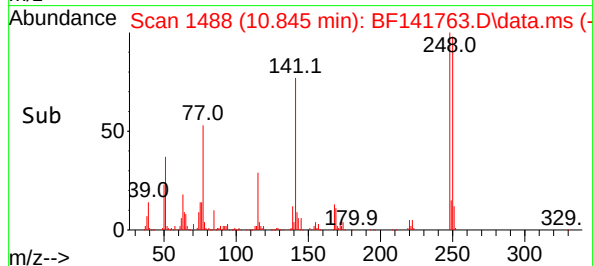
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:248 Resp: 139120
Ion Ratio Lower Upper
248 100
250 97.7 77.8 116.6
141 77.3 60.6 90.8

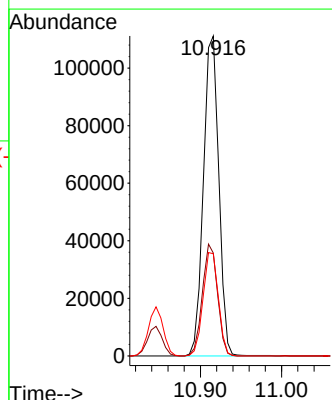
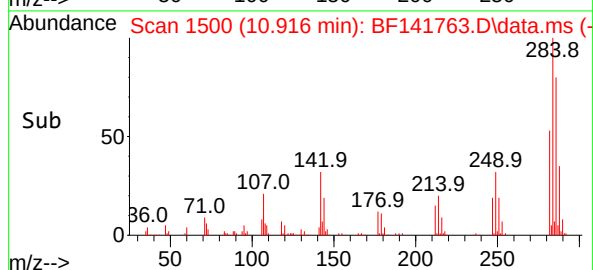
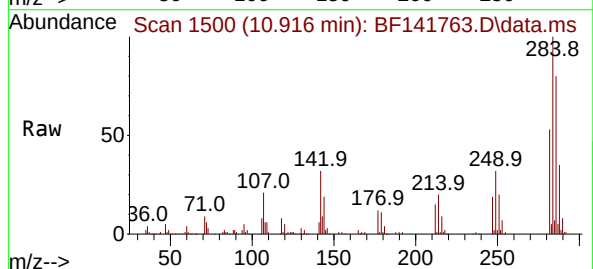
Manual Integrations
APPROVED

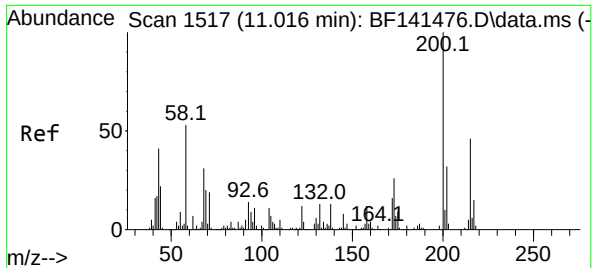
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#68
Hexachlorobenzene
Concen: 49.895 ng
RT: 10.916 min Scan# 1500
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:284 Resp: 145837
Ion Ratio Lower Upper
284 100
142 32.2 28.0 42.0
249 32.0 25.8 38.8





#69

Atrazine

Concen: 59.121 ng

RT: 11.004 min Scan# 1

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:200 Resp: 14419

Ion Ratio Lower Upper

200 100

173 25.6 5.9 45.9

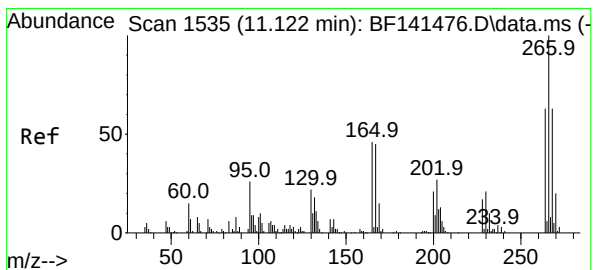
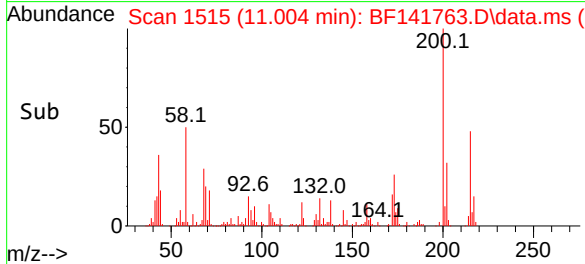
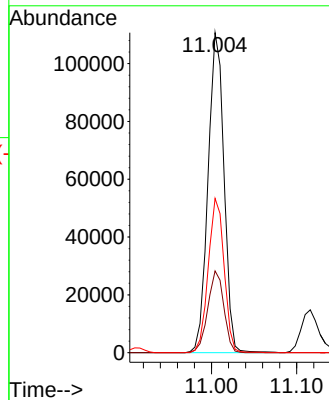
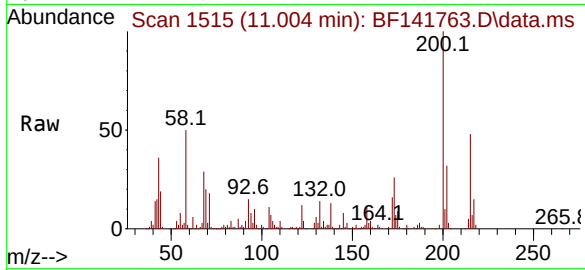
215 48.2 25.9 65.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#70

Pentachlorophenol

Concen: 71.320 ng

RT: 11.116 min Scan# 1534

Delta R.T. -0.011 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

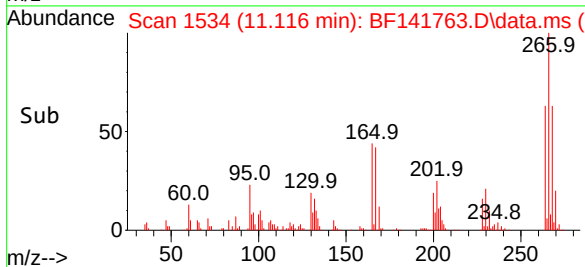
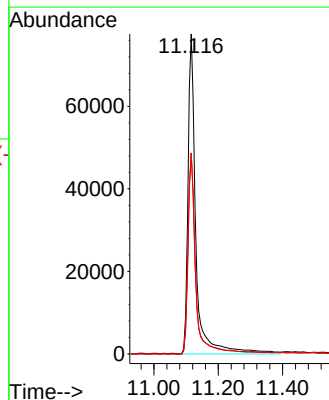
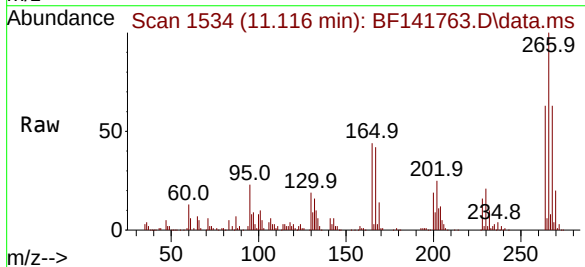
Tgt Ion:266 Resp: 133292

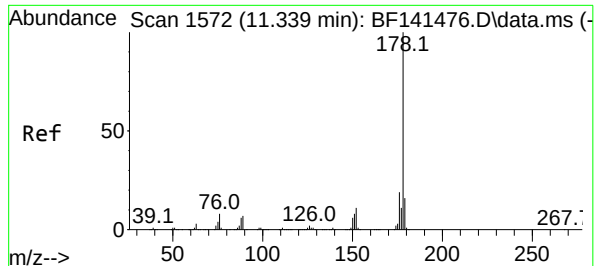
Ion Ratio Lower Upper

266 100

268 62.9 50.1 75.1

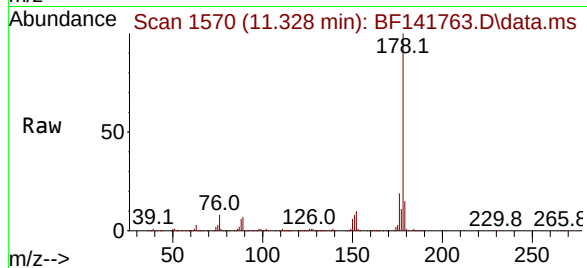
264 62.7 50.1 75.1





#71
Phenanthrene
Concen: 47.472 ng
RT: 11.328 min Scan# 1572
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

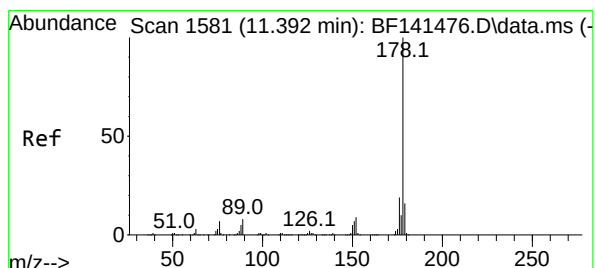
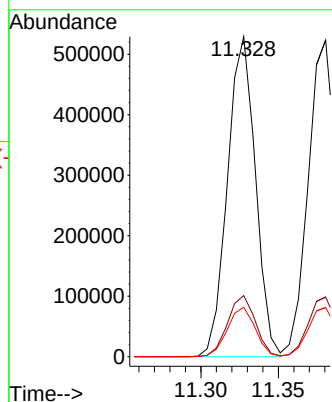
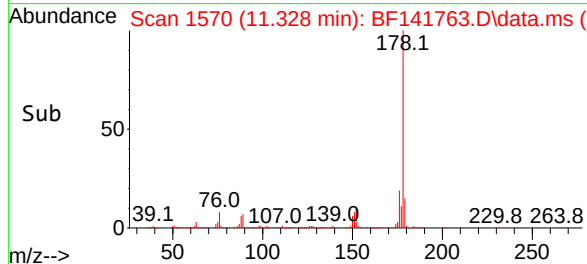
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:178 Resp: 66366
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.5 12.4 18.6

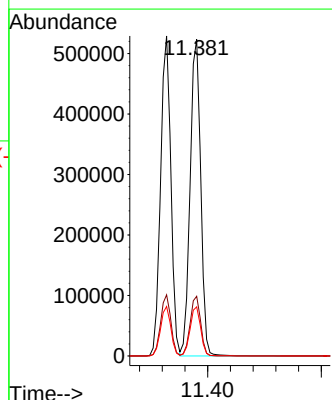
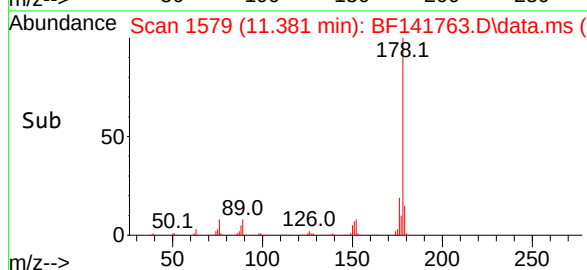
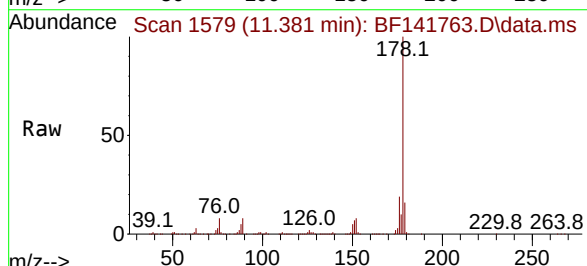
Manual Integrations
APPROVED

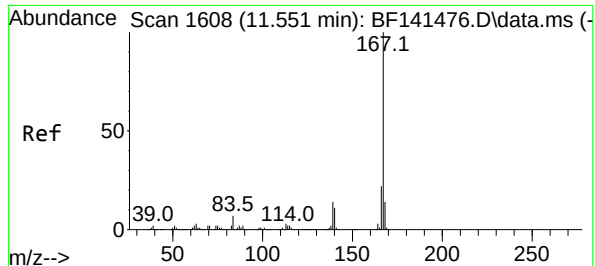
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#72
Anthracene
Concen: 48.188 ng
RT: 11.381 min Scan# 1579
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

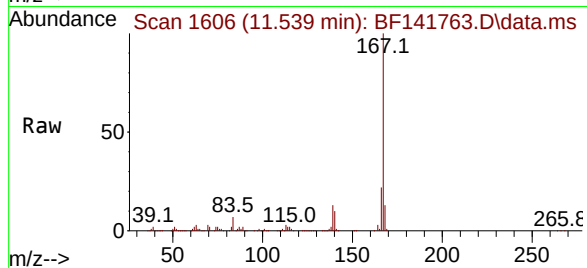
Tgt Ion:178 Resp: 677206
Ion Ratio Lower Upper
178 100
176 18.9 14.8 22.2
179 15.5 12.4 18.6





#73
Carbazole
Concen: 45.538 ng
RT: 11.539 min Scan# 1606
Delta R.T. -0.011 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

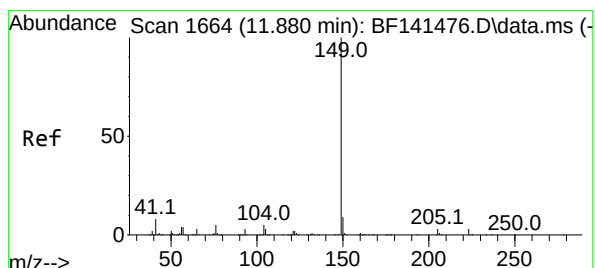
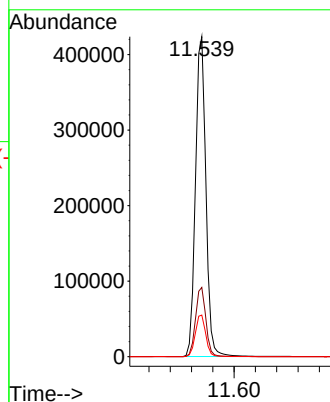
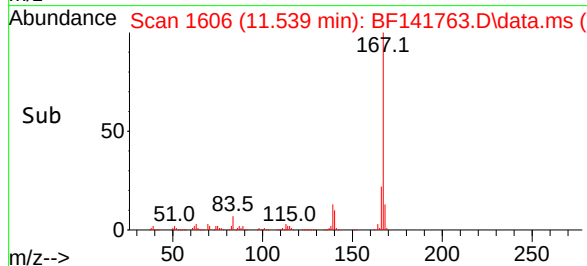
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



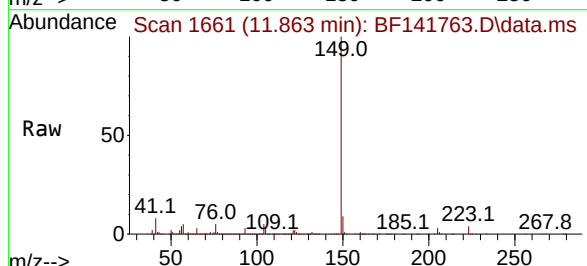
Tgt Ion:167 Resp: 575834
Ion Ratio Lower Upper
167 100
166 21.6 17.4 26.2
139 13.0 10.9 16.3

Manual Integrations
APPROVED

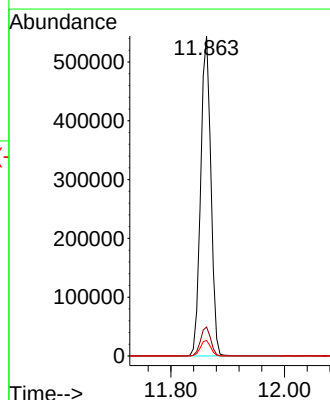
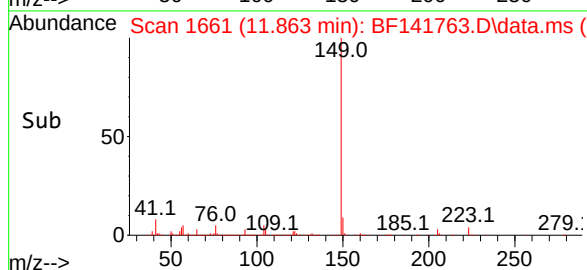
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

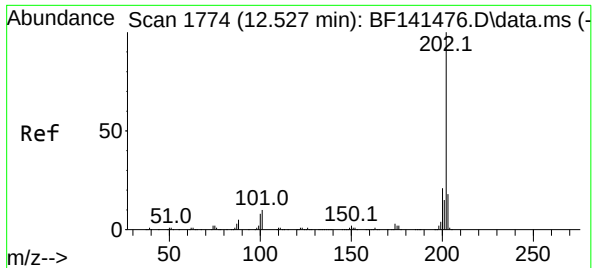


#74
Di-n-butylphthalate
Concen: 46.518 ng
RT: 11.863 min Scan# 1661
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36



Tgt Ion:149 Resp: 679207
Ion Ratio Lower Upper
149 100
150 9.0 7.4 11.0
104 4.9 4.2 6.2





#75

Fluoranthene

Concen: 43.549 ng

RT: 12.516 min Scan# 11

Delta R.T. -0.017 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:202 Resp: 645460

Ion Ratio Lower Upper

202 100

101 9.8 0.0 30.2

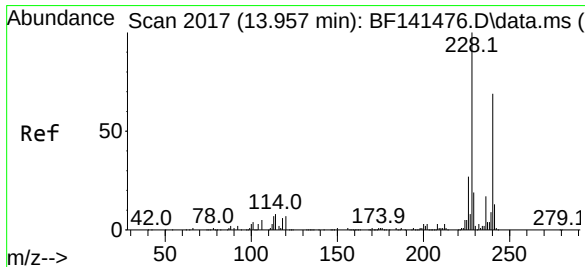
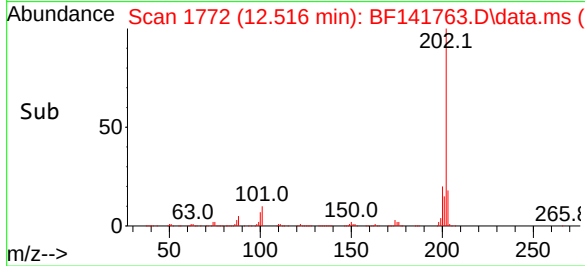
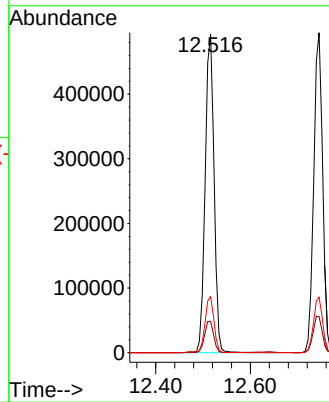
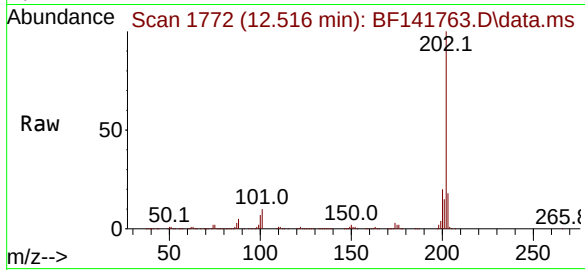
203 17.6 0.0 37.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2014

Delta R.T. -0.023 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

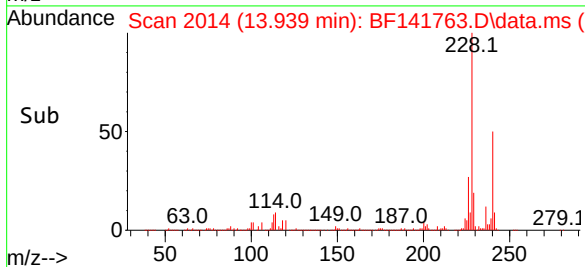
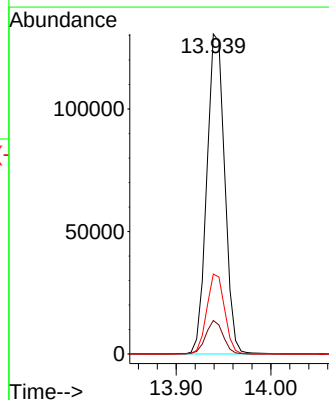
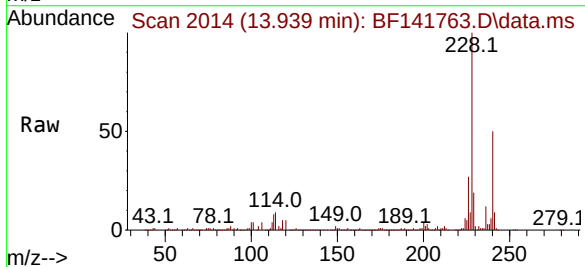
Tgt Ion:240 Resp: 171769

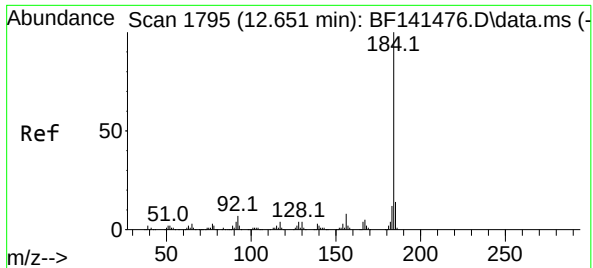
Ion Ratio Lower Upper

240 100

120 10.5 8.0 12.0

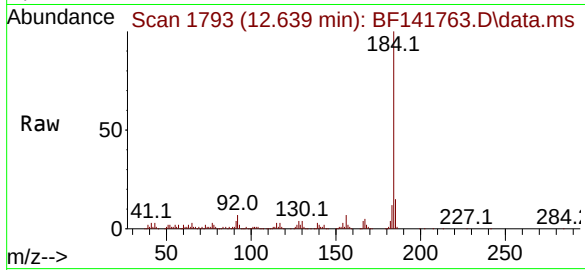
236 24.9 19.8 29.8





#77
Benzidine
Concen: 69.645 ng
RT: 12.639 min Scan# 1811
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

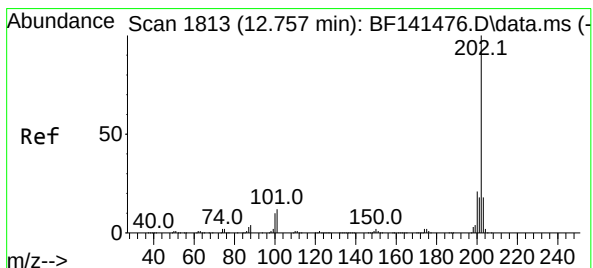
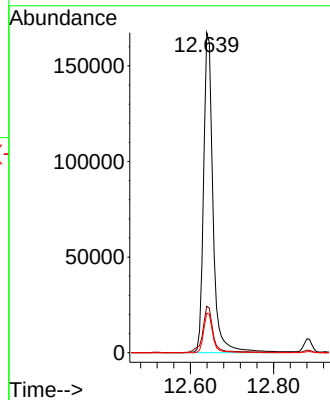
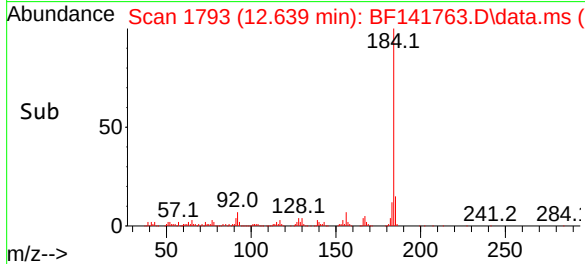
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:184 Resp: 26383
Ion Ratio Lower Upper
184 100
185 14.5 11.3 16.9
183 12.4 9.3 13.9

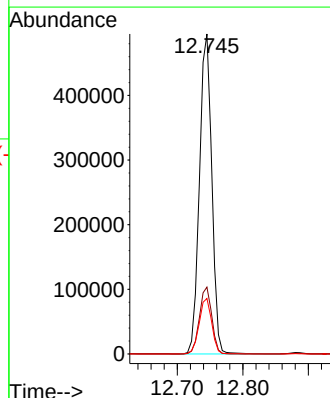
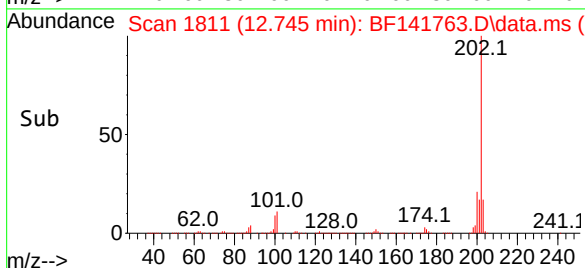
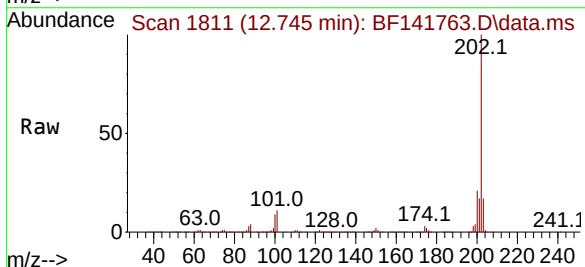
Manual Integrations
APPROVED

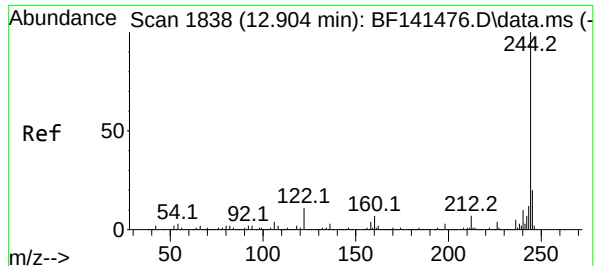
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#78
Pyrene
Concen: 44.406 ng
RT: 12.745 min Scan# 1811
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:202 Resp: 649308
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.3 14.3 21.5





#79

Terphenyl-d14

Concen: 71.322 ng

RT: 12.886 min Scan# 1835

Delta R.T. -0.017 min

Lab File: BF141763.D

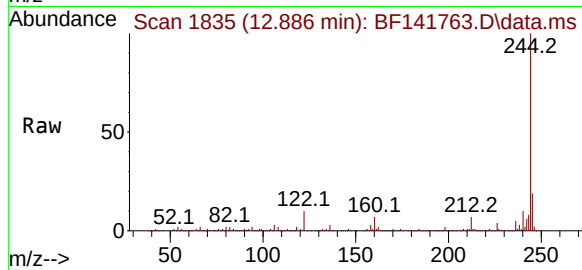
Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

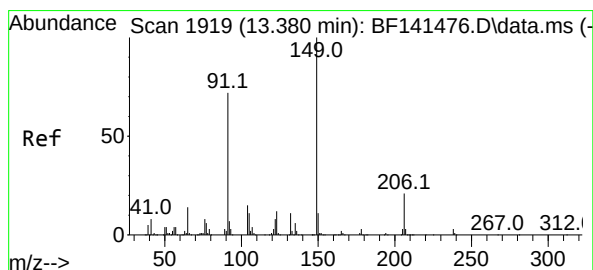
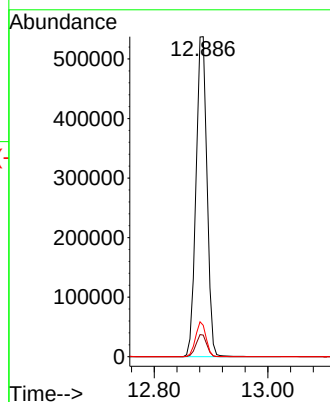
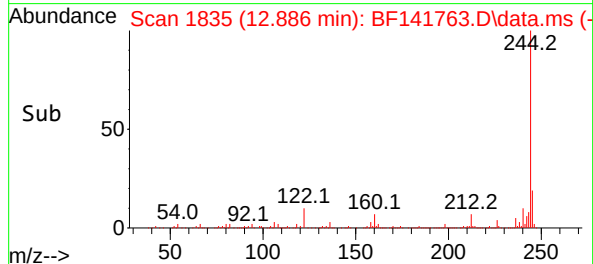


Tgt Ion:	244	Resp:	725692
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.6	8.4
122	9.8	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#80

Butylbenzylphthalate

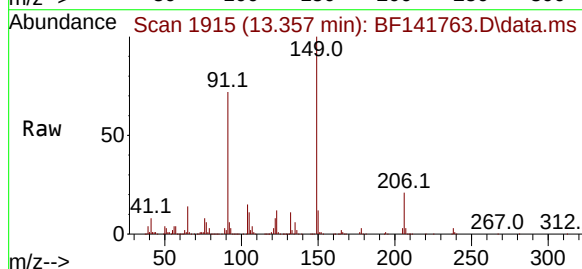
Concen: 47.735 ng

RT: 13.357 min Scan# 1915

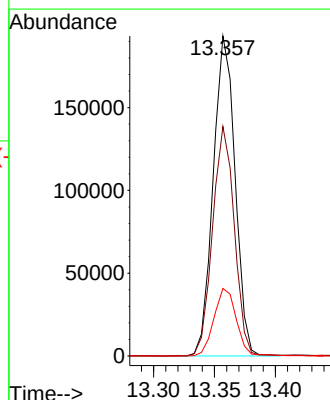
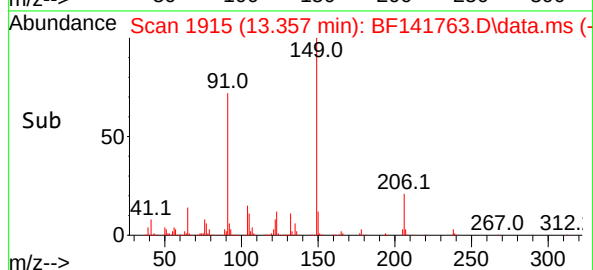
Delta R.T. -0.023 min

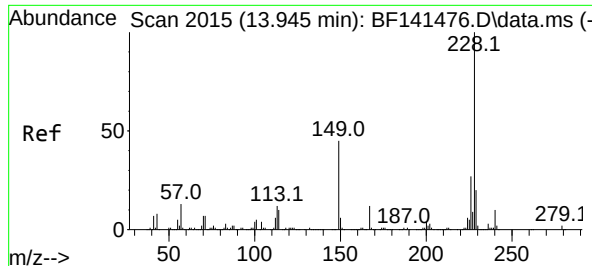
Lab File: BF141763.D

Acq: 25 Feb 2025 14:36



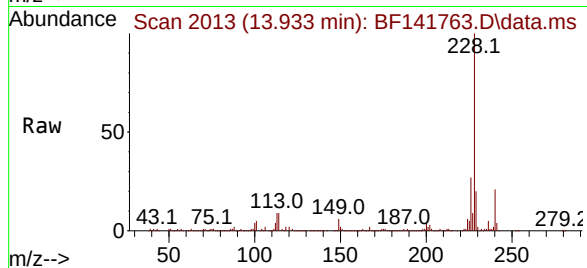
Tgt Ion:	149	Resp:	241762
Ion Ratio	Lower	Upper	
149	100		
91	71.7	57.8	86.8
206	21.1	16.7	25.1





#81
Benzo(a)anthracene
Concen: 47.859 ng
RT: 13.933 min Scan# 2015
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

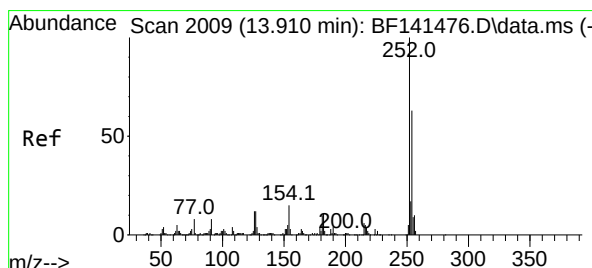
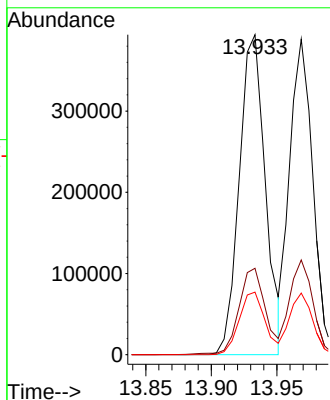
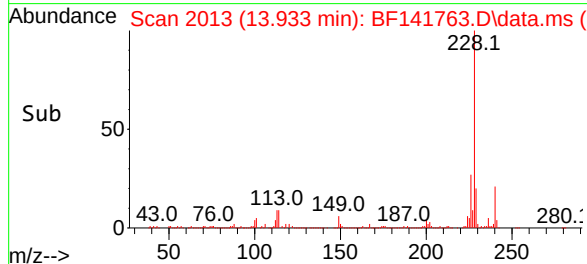
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:228 Resp: 54646
Ion Ratio Lower Upper
228 100
226 27.0 21.8 32.8
229 19.5 15.8 23.6

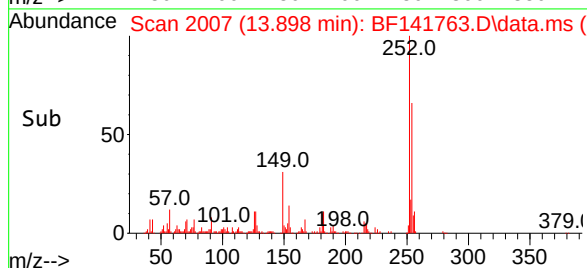
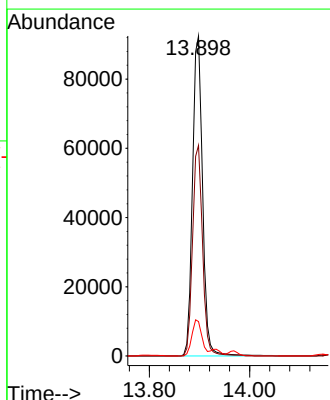
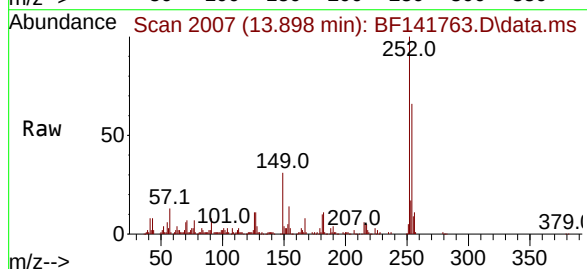
Manual Integrations
APPROVED

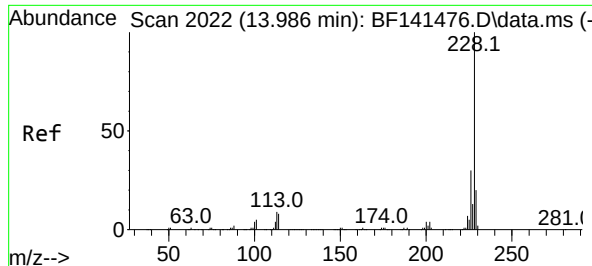
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#82
3,3'-Dichlorobenzidine
Concen: 39.267 ng
RT: 13.898 min Scan# 2007
Delta R.T. -0.017 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:252 Resp: 128432
Ion Ratio Lower Upper
252 100
254 65.8 50.6 76.0
126 10.8 9.3 13.9





#83

Chrysene

Concen: 45.380 ng

RT: 13.969 min Scan# 20

Delta R.T. -0.023 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:228 Resp: 47843

Ion Ratio Lower Upper

228 100

226 30.0 24.0 36.0

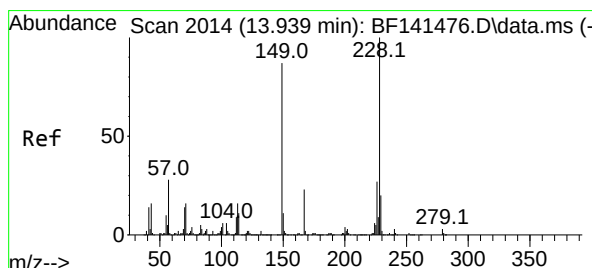
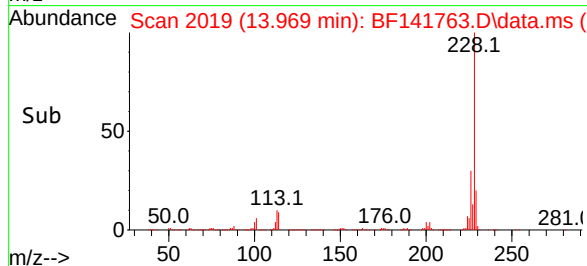
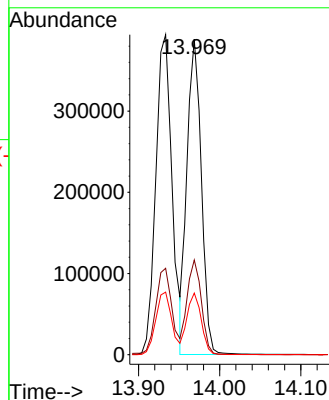
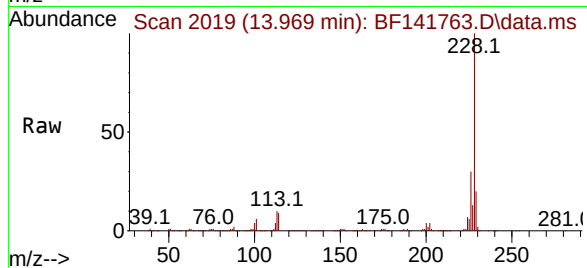
229 19.5 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 57.076 ng

RT: 13.916 min Scan# 2010

Delta R.T. -0.023 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

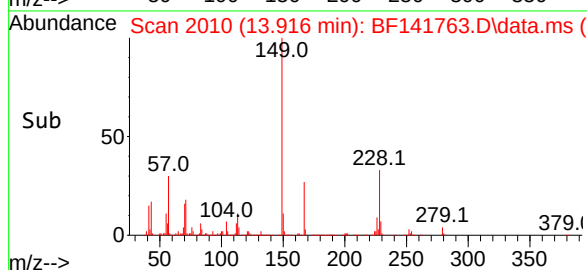
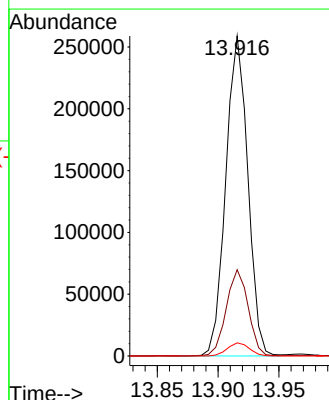
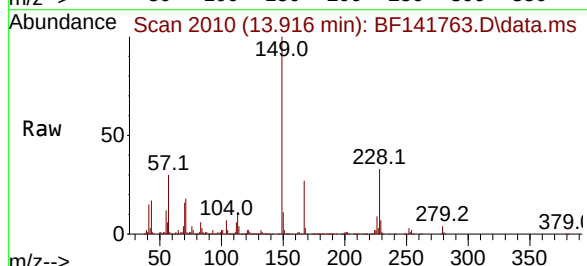
Tgt Ion:149 Resp: 326027

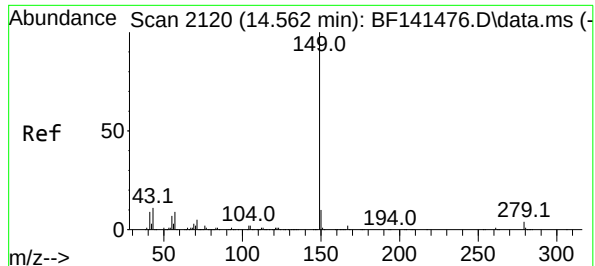
Ion Ratio Lower Upper

149 100

167 26.9 21.4 32.0

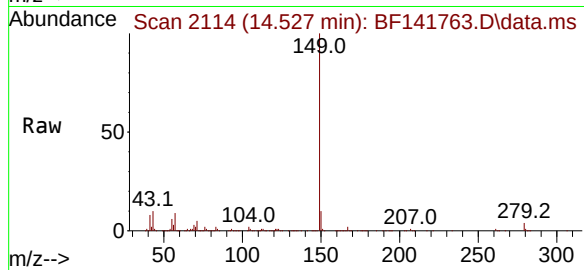
279 4.1 3.1 4.7





#85
Di-n-octyl phthalate
Concen: 67.475 ng
RT: 14.527 min Scan# 2114
Delta R.T. -0.035 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

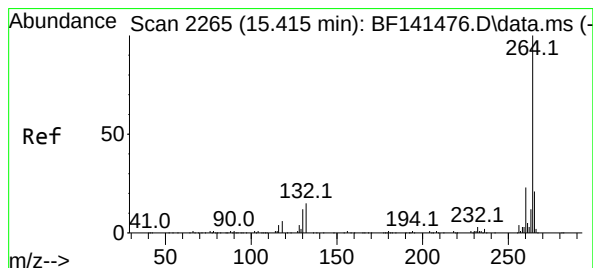
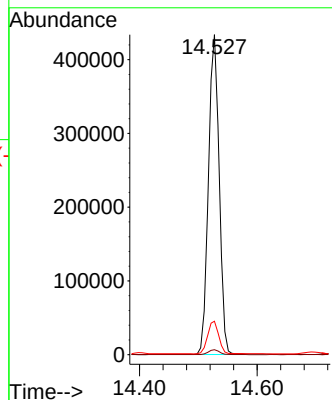
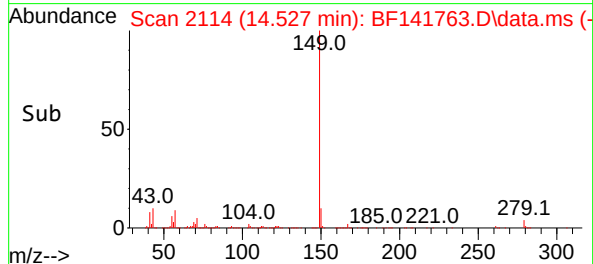
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:149 Resp: 54985
Ion Ratio Lower Upper
149 100
167 1.7 1.3 1.9
43 10.8 9.5 14.3

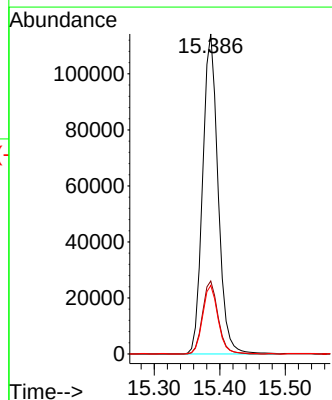
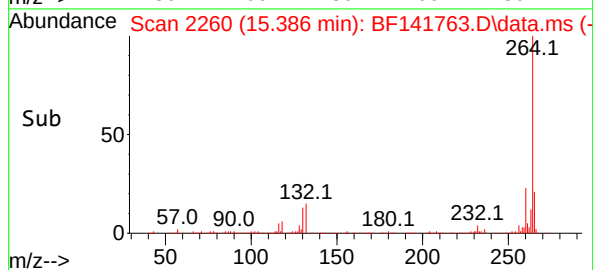
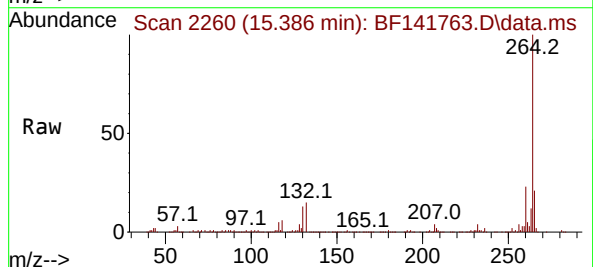
Manual Integrations
APPROVED

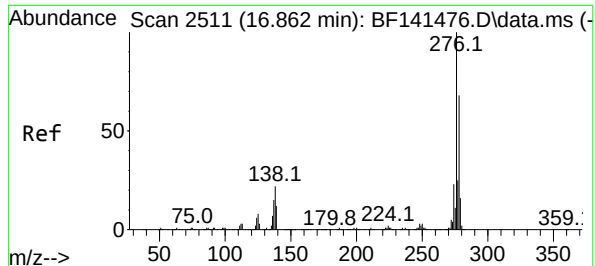
Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.386 min Scan# 2260
Delta R.T. -0.029 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:264 Resp: 186973
Ion Ratio Lower Upper
264 100
260 22.8 18.6 28.0
265 21.4 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 53.250 ng

RT: 16.827 min Scan# 2189

Delta R.T. -0.047 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:276 Resp: 615192

Ion Ratio Lower Upper

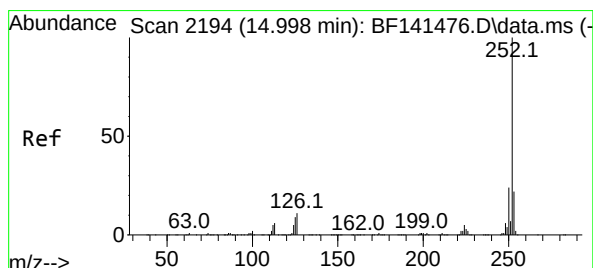
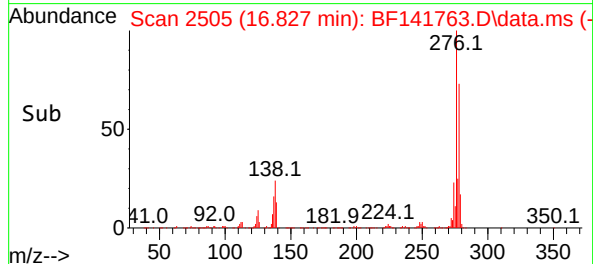
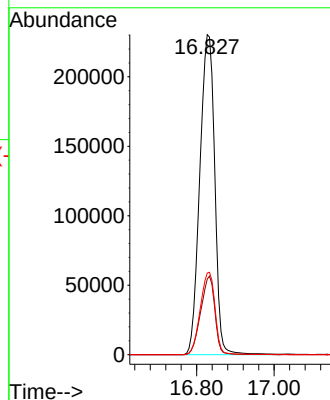
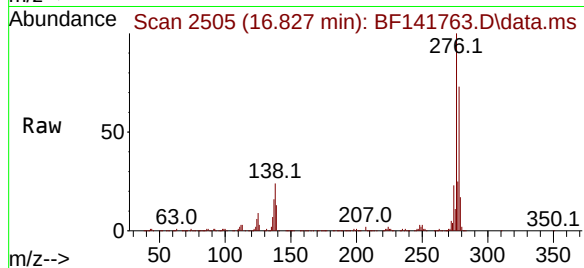
276 100

138 23.3 18.0 27.0

277 25.4 20.4 30.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025

#88

Benzo(b)fluoranthene

Concen: 40.312 ng

RT: 14.969 min Scan# 2189

Delta R.T. -0.035 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

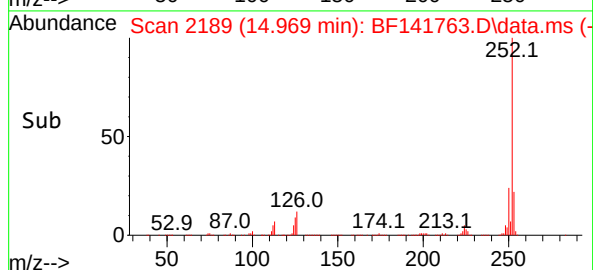
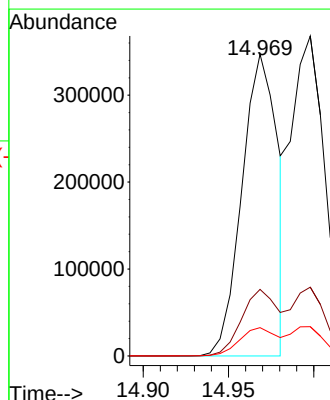
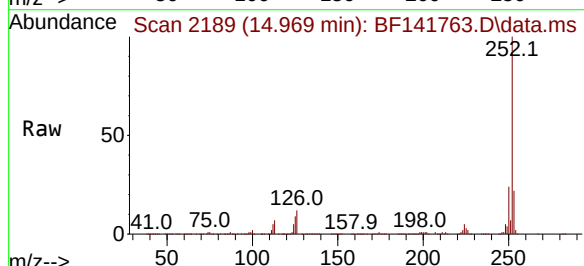
Tgt Ion:252 Resp: 506088

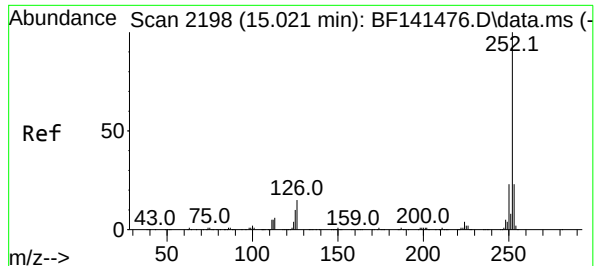
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 9.4 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 47.144 ng

RT: 14.998 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

Instrument :

BNA_F

ClientSampleId :

P001-CLAY-CF01-01MSD

Tgt Ion:252 Resp: 505399

Ion Ratio Lower Upper

252 100

253 21.5 18.0 27.0

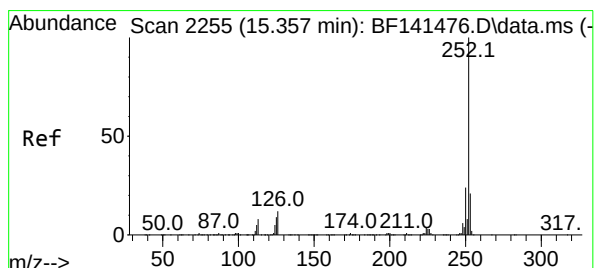
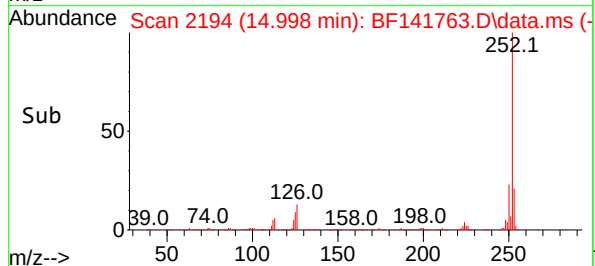
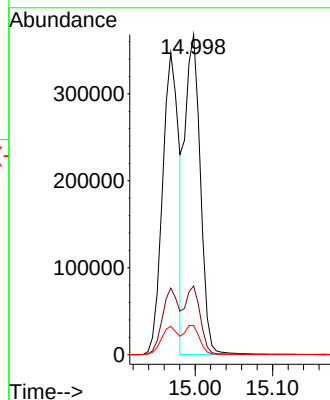
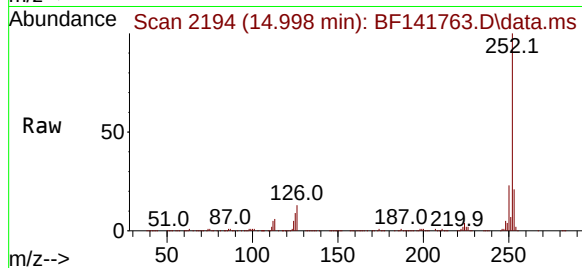
125 9.2 7.4 11.0

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 02/26/2025

Supervised By :mohammad ahmed 02/28/2025



#90

Benzo(a)pyrene

Concen: 49.012 ng

RT: 15.327 min Scan# 2250

Delta R.T. -0.035 min

Lab File: BF141763.D

Acq: 25 Feb 2025 14:36

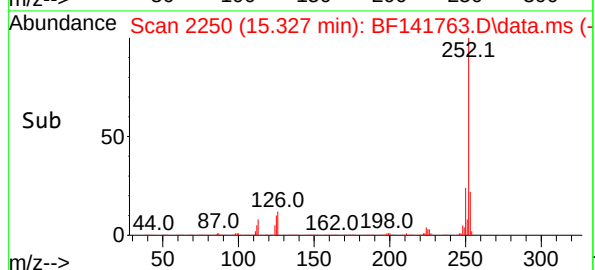
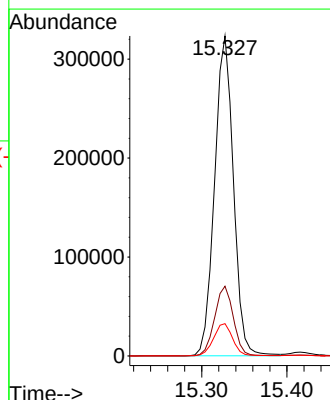
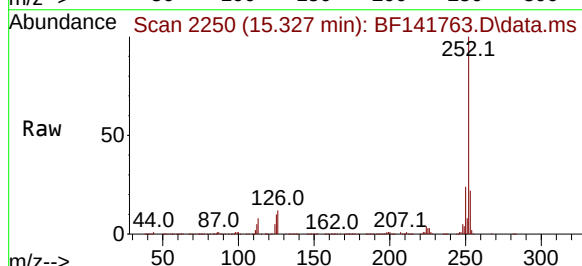
Tgt Ion:252 Resp: 497890

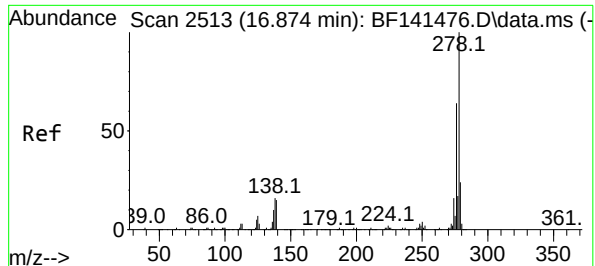
Ion Ratio Lower Upper

252 100

253 21.8 17.1 25.7

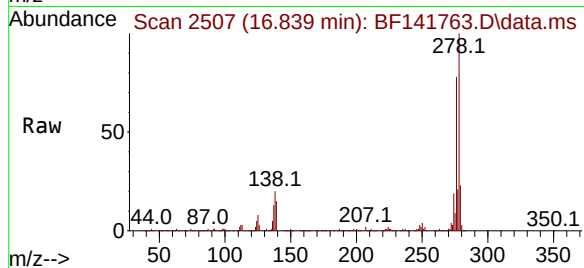
125 10.1 7.4 11.2





#91
Dibenzo(a,h)anthracene
Concen: 53.059 ng
RT: 16.839 min Scan# 2507
Delta R.T. -0.053 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

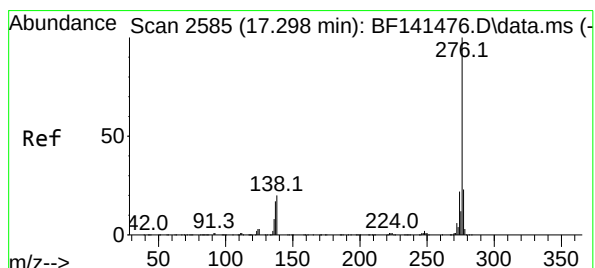
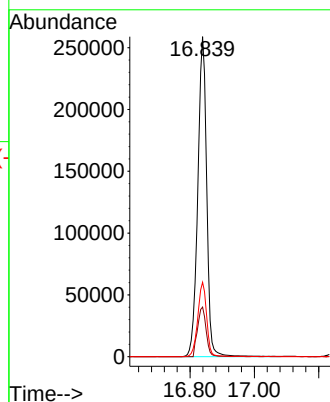
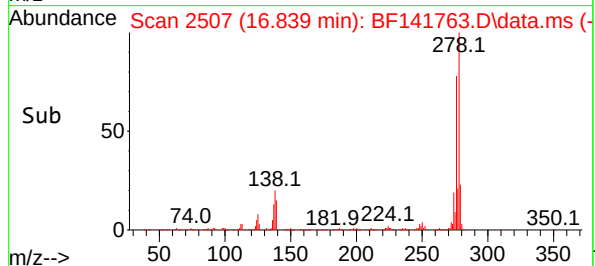
Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-01MSD



Tgt Ion:278 Resp: 49669
Ion Ratio Lower Upper
278 100
139 15.5 11.8 17.6
279 23.3 19.1 28.7

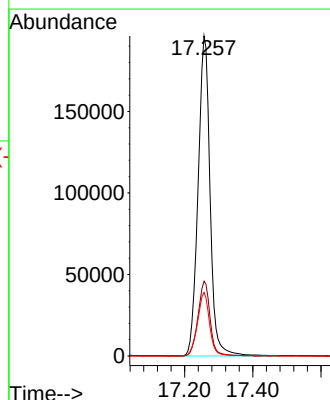
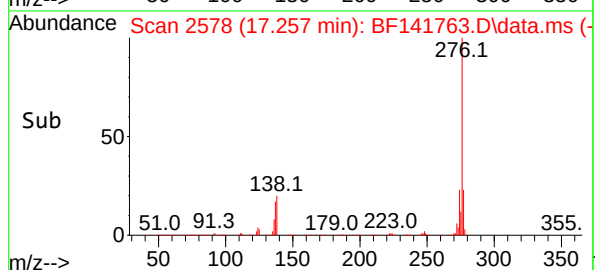
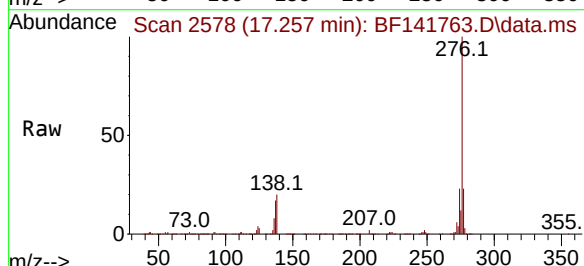
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 02/26/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 48.968 ng
RT: 17.257 min Scan# 2578
Delta R.T. -0.059 min
Lab File: BF141763.D
Acq: 25 Feb 2025 14:36

Tgt Ion:276 Resp: 479696
Ion Ratio Lower Upper
276 100
277 23.3 18.6 28.0
138 19.9 15.9 23.9



Manual Integration Report

Sequence:

bf020625

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141474.D	Acenaphthene	Jagrut	2/7/2025 3:49:22 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software
SSTDICC020	BF141475.D	Acenaphthene	Jagrut	2/7/2025 3:49:24 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF022525	Instrument	BNA_f
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1421-02MS	BF141762.D	Caprolactam	anahy	2/26/2025 11:12:43 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software
Q1421-03MSD	BF141763.D	Caprolactam	anahy	2/26/2025 11:13:27 AM	mohammad	2/28/2025 7:32:59 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BF022625

Instrument

BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166853BS	BF141777.D	Caprolactam	anahy	2/27/2025 10:06:47 AM	Jagrut	2/27/2025 12:19:42 PM	Peak Integrated by Software
PB166875BS	BF141781.D	Caprolactam	anahy	2/27/2025 10:09:48 AM	Jagrut	2/27/2025 12:19:47 PM	Peak Integrated by Software
PB166875BSD	BF141782.D	Caprolactam	anahy	2/27/2025 10:10:58 AM	Jagrut	2/27/2025 12:19:49 PM	Peak Integrated by Software

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM
SubDirectory	BF020625	HP Acquire Method	BNA_F
		HP Processing Method	bf020625
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12650,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141471.D	06 Feb 2025 10:41	RC/JU	Ok
2	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07	RC/JU	Ok
3	SSTDICC005	BF141473.D	06 Feb 2025 11:34	RC/JU	Ok
4	SSTDICC010	BF141474.D	06 Feb 2025 12:00	RC/JU	Ok,M
5	SSTDICC020	BF141475.D	06 Feb 2025 12:26	RC/JU	Ok,M
6	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	RC/JU	Ok
7	SSTDICC050	BF141477.D	06 Feb 2025 13:21	RC/JU	Ok
8	SSTDICC060	BF141478.D	06 Feb 2025 13:47	RC/JU	Ok
9	SSTDICC080	BF141479.D	06 Feb 2025 14:14	RC/JU	Ok
10	SSTDICV040	BF141480.D	06 Feb 2025 15:03	RC/JU	Ok
11	PB166563BL	BF141481.D	06 Feb 2025 15:43	RC/JU	Ok
12	PB166468BS	BF141482.D	06 Feb 2025 16:09	RC/JU	Ok,M
13	PB166468BSD	BF141483.D	06 Feb 2025 16:36	RC/JU	Ok,M
14	PB166468BL	BF141484.D	06 Feb 2025 17:02	RC/JU	Ok
15	Q1214-01RE	BF141485.D	06 Feb 2025 17:34	RC/JU	Confirms
16	Q1309-01	BF141486.D	06 Feb 2025 18:00	RC/JU	Ok
17	Q1309-05	BF141487.D	06 Feb 2025 18:27	RC/JU	Ok
18	Q1309-09	BF141488.D	06 Feb 2025 18:53	RC/JU	Ok
19	Q1309-13	BF141489.D	06 Feb 2025 19:19	RC/JU	Ok
20	Q1309-13MS	BF141490.D	06 Feb 2025 19:45	RC/JU	Ok,M
21	Q1309-13MSD	BF141491.D	06 Feb 2025 20:11	RC/JU	Ok,M

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM
SubDirectory	BF020625	HP Acquire Method	BNA_F
		HP Processing Method	bf020625
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12650,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1309-17	BF141492.D	06 Feb 2025 20:37	RC/JU	Ok
23	Q1309-21	BF141493.D	06 Feb 2025 21:03	RC/JU	Ok
24	Q1216-04	BF141494.D	06 Feb 2025 21:30	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM
SubDirectory	BF022525	HP Acquire Method	BNA_F
		HP Processing Method	bf020625
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12652,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141754.D	25 Feb 2025 09:06	RC/JU	Ok
2	SSTDCCC040	BF141755.D	25 Feb 2025 10:34	RC/JU	Ok
3	PB166840BL	BF141756.D	25 Feb 2025 11:04	RC/JU	Ok
4	PB166840BS	BF141757.D	25 Feb 2025 11:33	RC/JU	Ok,M
5	PB166843BL	BF141758.D	25 Feb 2025 12:03	RC/JU	Ok
6	PB166843BS	BF141759.D	25 Feb 2025 12:33	RC/JU	Ok,M
7	PB166824TB	BF141760.D	25 Feb 2025 13:02	RC/JU	Ok
8	Q1421-01	BF141761.D	25 Feb 2025 13:37	RC/JU	Ok
9	Q1421-02MS	BF141762.D	25 Feb 2025 14:07	RC/JU	Ok,M
10	Q1421-03MSD	BF141763.D	25 Feb 2025 14:36	RC/JU	Ok,M
11	Q1421-07	BF141764.D	25 Feb 2025 15:06	RC/JU	Ok
12	Q1421-09	BF141765.D	25 Feb 2025 15:35	RC/JU	Ok
13	Q1415-04	BF141766.D	25 Feb 2025 16:05	RC/JU	Ok
14	Q1415-03	BF141767.D	25 Feb 2025 16:35	RC/JU	Ok
15	Q1415-02	BF141768.D	25 Feb 2025 17:05	RC/JU	Ok
16	Q1415-01	BF141769.D	25 Feb 2025 17:34	RC/JU	Ok
17	Q1420-01	BF141770.D	25 Feb 2025 18:04	RC/JU	Ok
18	Q1420-05	BF141771.D	25 Feb 2025 18:34	RC/JU	ReRun
19	Q1416-01	BF141772.D	25 Feb 2025 19:03	RC/JU	Ok
20	Q1418-01	BF141773.D	25 Feb 2025 19:33	RC/JU	Ok,M

M : Manual Integration

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM
SubDirectory	BF022625	HP Acquire Method	BNA_F
		HP Processing Method	bf020625
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729		
CCC	SP6725		
Internal Standard/PEM	S12653,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141774.D	26 Feb 2025 10:16	RC/JU	Ok
2	SSTDCCC040	BF141775.D	26 Feb 2025 10:45	RC/JU	Ok
3	PB166853BL	BF141776.D	26 Feb 2025 11:49	RC/JU	Ok
4	PB166853BS	BF141777.D	26 Feb 2025 12:19	RC/JU	Ok,M
5	PB166870BL	BF141778.D	26 Feb 2025 12:56	RC/JU	Ok
6	PB166870BS	BF141779.D	26 Feb 2025 13:26	RC/JU	Ok,M
7	PB166875BL	BF141780.D	26 Feb 2025 13:55	RC/JU	Ok
8	PB166875BS	BF141781.D	26 Feb 2025 14:24	RC/JU	Ok,M
9	PB166875BSD	BF141782.D	26 Feb 2025 14:54	RC/JU	Ok,M
10	Q1422-01	BF141783.D	26 Feb 2025 15:29	RC/JU	Ok
11	Q1422-01MS	BF141784.D	26 Feb 2025 15:59	RC/JU	Ok,M
12	Q1422-01MSD	BF141785.D	26 Feb 2025 16:28	RC/JU	Ok,M
13	Q1422-02	BF141786.D	26 Feb 2025 16:57	RC/JU	Ok
14	Q1415-06	BF141787.D	26 Feb 2025 17:27	RC/JU	Ok
15	Q1415-05	BF141788.D	26 Feb 2025 17:56	RC/JU	Ok
16	Q1427-01	BF141789.D	26 Feb 2025 18:25	RC/JU	Ok,M
17	Q1420-05	BF141790.D	26 Feb 2025 18:55	RC/JU	Ok
18	Q1428-01	BF141791.D	26 Feb 2025 19:25	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM
SubDirectory	BF020625	HP Acquire Method	BNA_F
		HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141471.D	06 Feb 2025 10:41		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141473.D	06 Feb 2025 11:34	Compound #32,41,54 and #65 removed from 5PPM	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141474.D	06 Feb 2025 12:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141475.D	06 Feb 2025 12:26		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141477.D	06 Feb 2025 13:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141478.D	06 Feb 2025 13:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141479.D	06 Feb 2025 14:14	Compound #9 removed from 80ppm	RC/JU	Ok
10	SSTDICV040	ICVBF020625	BF141480.D	06 Feb 2025 15:03		RC/JU	Ok
11	PB166563BL	PB166563BL	BF141481.D	06 Feb 2025 15:43		RC/JU	Ok
12	PB166468BS	PB166468BS	BF141482.D	06 Feb 2025 16:09		RC/JU	Ok,M
13	PB166468BSD	PB166468BSD	BF141483.D	06 Feb 2025 16:36		RC/JU	Ok,M
14	PB166468BL	PB166468BL	BF141484.D	06 Feb 2025 17:02		RC/JU	Ok
15	Q1214-01RE	PARAMUS-CONDENS	BF141485.D	06 Feb 2025 17:34	Surrogate Fail	RC/JU	Confirms
16	Q1309-01	WC-2	BF141486.D	06 Feb 2025 18:00		RC/JU	Ok
17	Q1309-05	WC-3	BF141487.D	06 Feb 2025 18:27		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729				
CCC	SP6725				
Internal Standard/PEM	S12650,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

18	Q1309-09	WC-4	BF141488.D	06 Feb 2025 18:53		RC/JU	Ok
19	Q1309-13	WC-5	BF141489.D	06 Feb 2025 19:19		RC/JU	Ok
20	Q1309-13MS	WC-5MS	BF141490.D	06 Feb 2025 19:45		RC/JU	Ok,M
21	Q1309-13MSD	WC-5MSD	BF141491.D	06 Feb 2025 20:11		RC/JU	Ok,M
22	Q1309-17	WC-6	BF141492.D	06 Feb 2025 20:37		RC/JU	Ok
23	Q1309-21	WC-8	BF141493.D	06 Feb 2025 21:03		RC/JU	Ok
24	Q1216-04	JPP-18.1-012825	BF141494.D	06 Feb 2025 21:30		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM
SubDirectory	BF022525	HP Acquire Method	BNA_F
		HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141754.D	25 Feb 2025 09:06		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141755.D	25 Feb 2025 10:34		RC/JU	Ok
3	PB166840BL	PB166840BL	BF141756.D	25 Feb 2025 11:04		RC/JU	Ok
4	PB166840BS	PB166840BS	BF141757.D	25 Feb 2025 11:33		RC/JU	Ok,M
5	PB166843BL	PB166843BL	BF141758.D	25 Feb 2025 12:03		RC/JU	Ok
6	PB166843BS	PB166843BS	BF141759.D	25 Feb 2025 12:33		RC/JU	Ok,M
7	PB166824TB	PB166824TB	BF141760.D	25 Feb 2025 13:02		RC/JU	Ok
8	Q1421-01	P001-CLAY-CF01-01	BF141761.D	25 Feb 2025 13:37		RC/JU	Ok
9	Q1421-02MS	P001-CLAY-CF01-01M	BF141762.D	25 Feb 2025 14:07		RC/JU	Ok,M
10	Q1421-03MSD	P001-CLAY-CF01-01M	BF141763.D	25 Feb 2025 14:36		RC/JU	Ok,M
11	Q1421-07	P001-CLAY-CF01-02	BF141764.D	25 Feb 2025 15:06		RC/JU	Ok
12	Q1421-09	P001-CLAY-CF02-01	BF141765.D	25 Feb 2025 15:35		RC/JU	Ok
13	Q1415-04	B-172-SB02	BF141766.D	25 Feb 2025 16:05		RC/JU	Ok
14	Q1415-03	B-163-SB02	BF141767.D	25 Feb 2025 16:35		RC/JU	Ok
15	Q1415-02	B-172-SB01	BF141768.D	25 Feb 2025 17:05		RC/JU	Ok
16	Q1415-01	B-163-SB01	BF141769.D	25 Feb 2025 17:34		RC/JU	Ok
17	Q1420-01	TP-1-WC	BF141770.D	25 Feb 2025 18:04		RC/JU	Ok
18	Q1420-05	TP-2-WC	BF141771.D	25 Feb 2025 18:34	Internal Standard Fail	RC/JU	ReRun

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF022525

Review By	anahy	Review On	2/26/2025 11:15:06 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:59 AM		
SubDirectory	BF022525	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1416-01	OK-01-022425	BF141772.D	25 Feb 2025 19:03		RC/JU	Ok
20	Q1418-01	TR-06-02242025	BF141773.D	25 Feb 2025 19:33		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM
SubDirectory	BF022625	HP Acquire Method	BNA_F
		HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141774.D	26 Feb 2025 10:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141775.D	26 Feb 2025 10:45		RC/JU	Ok
3	PB166853BL	PB166853BL	BF141776.D	26 Feb 2025 11:49		RC/JU	Ok
4	PB166853BS	PB166853BS	BF141777.D	26 Feb 2025 12:19		RC/JU	Ok,M
5	PB166870BL	PB166870BL	BF141778.D	26 Feb 2025 12:56		RC/JU	Ok
6	PB166870BS	PB166870BS	BF141779.D	26 Feb 2025 13:26		RC/JU	Ok,M
7	PB166875BL	PB166875BL	BF141780.D	26 Feb 2025 13:55		RC/JU	Ok
8	PB166875BS	PB166875BS	BF141781.D	26 Feb 2025 14:24		RC/JU	Ok,M
9	PB166875BSD	PB166875BSD	BF141782.D	26 Feb 2025 14:54		RC/JU	Ok,M
10	Q1422-01	B-154-SB01	BF141783.D	26 Feb 2025 15:29		RC/JU	Ok
11	Q1422-01MS	B-154-SB01MS	BF141784.D	26 Feb 2025 15:59		RC/JU	Ok,M
12	Q1422-01MSD	B-154-SB01MSD	BF141785.D	26 Feb 2025 16:28		RC/JU	Ok,M
13	Q1422-02	B-154-SB02	BF141786.D	26 Feb 2025 16:57		RC/JU	Ok
14	Q1415-06	B-173-GW01	BF141787.D	26 Feb 2025 17:27		RC/JU	Ok
15	Q1415-05	FB02222025	BF141788.D	26 Feb 2025 17:56		RC/JU	Ok
16	Q1427-01	VNJ-227	BF141789.D	26 Feb 2025 18:25		RC/JU	Ok,M
17	Q1420-05	TP-2-WC	BF141790.D	26 Feb 2025 18:55		RC/JU	Ok
18	Q1428-01	NB-07-022525	BF141791.D	26 Feb 2025 19:25		RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF022625

Review By	anahy	Review On	2/27/2025 10:16:58 AM		
Supervise By	Jagrut	Supervise On	2/27/2025 12:20:32 PM		
SubDirectory	BF022625	HP Acquire Method	BNA_F	HP Processing Method	bf020625
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729				
CCC	SP6725				
Internal Standard/PEM	S12653,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration



PERCENT SOLID

Supervisor: Nilesh
Analyst: Upendra
Date: 2/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134780

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1401-07	BP-VPB-192-GW-825-827	1	1.15	8.83	9.98	2.04	10.1	sludge sample
Q1401-08	BP-VPB-192-GW-860-862	2	1.13	8.65	9.78	1.93	9.2	sludge sample
Q1401-09	BP-VPB-192-GW-880-882	3	1.13	8.68	9.81	1.64	5.9	sludge sample
Q1403-05	SVOC-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1403-06	PEST-GPC-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q1403-07	PEST-GPC-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q1403-08	PCB-GPC-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1403-09	PCB-GPC-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1403-10	SVOC-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1403-11	PEST-GPC2-BLANK	10	1.00	1.00	2.00	2.00	100.0	
Q1403-12	PEST-GPC2-BLANK-SPIKE	11	1.00	1.00	2.00	2.00	100.0	
Q1403-13	PCB-GPC2-BLANK	12	1.00	1.00	2.00	2.00	100.0	
Q1403-14	PCB-GPC2-BLANK-SPIKE	13	1.00	1.00	2.00	2.00	100.0	
Q1407-01	022125	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1411-01	HR-02-02212025	15	1.16	8.48	9.64	9.09	93.5	
Q1411-02	HR-02-02212025-E2	16	1.15	8.70	9.85	9.12	91.6	
Q1411-03	HR-03-02212025	17	1.15	8.81	9.96	9.2	91.4	
Q1411-04	HR-03-02212025-E2	18	1.14	8.43	9.57	8.93	92.4	
Q1412-01	GAS-FUEL-ISLAND-MAT	19	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
Q1413-01	BU-2-022125	20	1.18	8.58	9.76	9.28	94.4	
Q1413-02	BU-2-022125	21	1.19	8.45	9.64	9.22	95.0	
Q1414-01	BUR-1316	22	1.12	8.78	9.9	6.68	63.3	
Q1415-01	B-163-SB01	23	1.15	8.80	9.95	8.94	88.5	
Q1415-02	B-172-SB01	24	1.17	8.60	9.77	8.62	86.6	
Q1415-03	B-163-SB02	25	1.13	8.85	9.98	7.54	72.4	
Q1415-04	B-172-SB02	26	1.18	8.77	9.95	9.05	89.7	
Q1416-01	OK-01-022425	27	1.15	8.48	9.63	8.58	87.6	
Q1416-02	OK-01-022425-E2	28	1.16	8.69	9.85	8.77	87.6	

PERCENT SOLID

Supervisor: Nilesh
Analyst: Upendra
Date: 2/28/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:05
In Date: 02/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB134780

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1418-01	TR-06-02242025	35	1.15	8.71	9.86	8.87	88.6	
Q1418-02	TR-06-02242025-E2	36	1.12	8.75	9.87	8.76	87.3	
Q1420-01	TP-1-WC	29	1.15	8.82	9.97	9.04	89.5	
Q1420-02	TP-1-WC-EPH	30	1.12	8.76	9.88	8.96	89.5	
Q1420-03	TP-1-WC-VOC	31	1.14	8.85	9.99	9.18	90.8	
Q1420-05	TP-2-WC	32	1.15	8.62	9.77	8.79	88.6	
Q1420-06	TP-2-WC-EPH	33	1.15	8.40	9.55	8.63	89.0	
Q1420-07	TP-2-WC-VOC	34	1.14	8.85	9.99	9.00	88.8	
Q1421-01	P001-CLAY-CF01-01	37	1.17	8.60	9.77	7.22	70.3	
Q1421-02	Q1421-01MS	38	1.17	8.60	9.77	7.22	70.3	
Q1421-03	Q1421-01MSD	39	1.17	8.60	9.77	7.22	70.3	
Q1421-04	P001-CLAY-CF01-01	40	1.17	8.60	9.77	9.77	100.0	
Q1421-05	Q1421-04MS	41	1.17	8.60	9.77	9.77	100.0	
Q1421-06	Q1421-04MSD	42	1.17	8.60	9.77	9.77	100.0	
Q1421-07	P001-CLAY-CF01-02	43	1.12	8.55	9.67	7.55	75.2	
Q1421-08	P001-CLAY-CF01-02	44	1.12	8.55	9.67	9.67	100.0	
Q1421-09	P001-CLAY-CF02-01	45	1.11	8.74	9.85	7.96	78.4	
Q1421-10	P001-CLAY-CF02-01	46	1.11	8.74	9.85	9.85	100.0	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

134780

WorkList Name : %1-022425 WorkList ID : 187836 Department : Wet-Chemistry Date : 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1401-07	BP-VPB-192-GW-825-827	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-08	BP-VPB-192-GW-860-862	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1401-09	BP-VPB-192-GW-880-882	Solid	Percent Solids	1:1 HCl to pH < 2	TETR06	H31	02/17/2025	Chemtech -SO
Q1403-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1403-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1407-01	022125	Solid	Percent Solids	Cool 4 deg C	CHEM02	H11	02/21/2025	Chemtech -SO
Q1411-01	HR-02-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG03	H23	02/21/2025	Chemtech -SO
Q1411-02	HR-02-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-03	HR-03-02212025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1411-04	HR-03-02212025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1412-01	GAS-FUEL-ISLAND-MAT	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO
Q1413-01	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1413-02	BU-2-022125	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	02/21/2025	Chemtech -SO

Date/Time 02/24/25 15:25 Date/Time 02/24/25 17:10

Raw Sample Received by: JR wpc Raw Sample Received by: OR SN

Raw Sample Relinquished by: OR SN Raw Sample Relinquished by: OR SN

WORKLIST(Hardcopy Internal Chain)

134780

WorkList Name : %1-022425 WorkList ID : 187836 Department : Wet-Chemistry Date : 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1414-01	BUR-1316	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	02/21/2025	Chemtech -SO
Q1415-01	B-163-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-02	B-172-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-03	B-163-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1415-04	B-172-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	N31	02/22/2025	Chemtech -SO
Q1416-01	OK-01-022425	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/22/2025	Chemtech -SO
Q1416-02	OK-01-022425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	N41	02/24/2025	Chemtech -SO
Q1418-01	TR-06-02242025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1418-02	TR-06-02242025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H41	02/24/2025	Chemtech -SO
Q1420-01	TP-1-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-02	TP-1-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-03	TP-1-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-05	TP-2-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-06	TP-2-WC-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1420-07	TP-2-WC-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	N41	02/24/2025	Chemtech -SO
Q1421-01	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-02	Q1421-01MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-03	Q1421-01MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-04	P001-CLAY-CF01-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-05	Q1421-04MS	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-06	Q1421-04MSD	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time 02/24/25 15:23
 Raw Sample Received by: SP WDC
 Raw Sample Relinquished by: SP WDC
 Date/Time 02/24/25 17:10
 Raw Sample Received by: SP
 Raw Sample Relinquished by: SP WDC

WORKLIST(Hardcopy Internal Chain)

2134780

WorkList Name : %1-022425 WorkList ID : 187836 Department : Wet-Chemistry Date : 02-24-2025 07:59:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-07	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-08	P001-CLAY-CF01-02	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-09	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO
Q1421-10	P001-CLAY-CF02-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	H31	02/24/2025	Chemtech -SO

Date/Time

02/24/25

15:25

Raw Sample Received by:

SPW

afgr

Raw Sample Relinquished by:

SPW

afgr

Date/Time

02/24/25

17:10

Raw Sample Received by:

afgr

afgr

Raw Sample Relinquished by:

SPW

afgr

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix: Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date: 02/25/2025

Extraction Start Time: 09:30

Extraction End Date: 02/25/2025

Extraction End Time: 12:30

Concentration By: EH

Supervisor By: RUPESH

Extraction Method: ☐ Separatory Funnel

☐ Continuous Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2582
Baked Na2SO4	N/A	EP2589
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/25/25	RS (Ext Lab)	AC/SVOC
12:35	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 02/25/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166853BL	SBLK853	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166853BS	SLCS853	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1415-01	B-163-SB01	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
Q1415-02	B-172-SB01	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
Q1415-03	B-163-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
Q1415-04	B-172-SB02	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		6
Q1416-01	OK-01-022425	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		U3-1
Q1418-01	TR-06-02242025	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		2
Q1420-01	TP-1-WC	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q1420-05	TP-2-WC	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		4
Q1421-01	P001-CLAY-CF01-01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		5
Q1421-02	Q1421-01MS	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q1421-03	Q1421-01MSD	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U4-1
Q1421-07	P001-CLAY-CF01-02	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	F		2
Q1421-09	P001-CLAY-CF02-01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3

* Extracts relinquished on the same date as received.

Rg
2/25

1613850
9:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1416BN WorkList ID : 187863 Department : Extraction Date : 02-25-2025 08:37:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1415-01	B-163-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-02	B-172-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-03	B-163-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1415-04	B-172-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	N31	02/22/2025	8270E
Q1416-01	OK-01-022425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	N41	02/24/2025	8270E
Q1418-01	TR-06-02242025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H41	02/24/2025	8270E
Q1420-01	TP-1-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1420-05	TP-2-WC	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	N41	02/24/2025	8270E
Q1421-01	P001-CLAY-CF01-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-02	Q1421-01MS	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-03	Q1421-01MSD	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-07	P001-CLAY-CF01-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E
Q1421-09	P001-CLAY-CF02-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	ROYF02	H31	02/24/2025	8270E

Date/Time 2/25/25 9:25
Raw Sample Received by: RJ(EXT-646)
Raw Sample Relinquished by: CP SM

Date/Time 2/25/25 9:55
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ(EXT-646)

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Extraction Start Date : 02/26/2025

Matrix : Water

Extraction Start Time : 08:45

Welgh By: N/A

Extraction By: RS

Extraction End Date : 02/26/2025

Balance check: N/A

Filter By: RS

Extraction End Time : 13:45

Balance ID: N/A

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: E3880

Hood ID: 4,6,7

Supervisor By : rajesh

Extraction Method: ☒ Seperatory Funnel

☐ Continious Liquid/Liquid

☐ Sonication

☐ Waste Dilution

☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.Q1415-05 Limited volume received.

KD Bath ID: WATER BATH-1,2

Envap ID: NEVAP-02

KD Bath Temperature: 60 °C

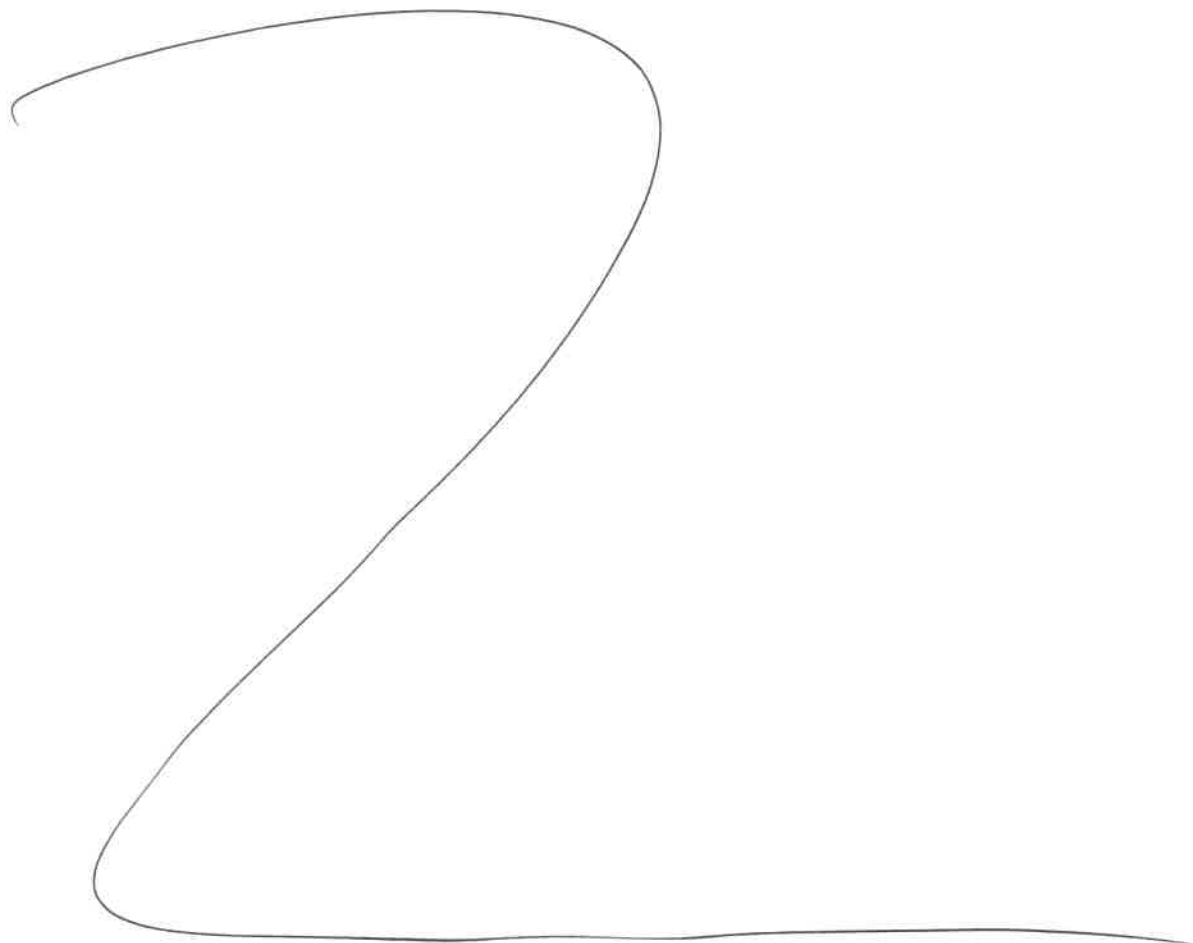
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/26/25	RS (E24-126)	AC/SVOC
13:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	g / ml	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166875BL	SBLK875	SVOC-TCL BNA -20	1000	6	RUPESEH	ritesh	1			SEP-1
PB166875BS	SLCS875	SVOC-TCL BNA -20	1000	6	RUPESEH	ritesh	1			2
PB166875BS D	SLCSD875	SVOC-TCL BNA -20	1000	6	RUPESEH	ritesh	1			3
Q1415-05	FB02222025	SVOC-TCL BNA -20	480	6	RUPESEH	ritesh	0.5	G		4
Q1415-06	B-173-GW01	SVOC-TCL BNA -20	900	6	RUPESEH	ritesh	1	F		5



RS
2/26

WORKLIST(Hardcopy Internal Chain)

Date: 02-26-2025 08:40:35

Date/Time 2/26/25 8:40
Raw Sample Received by: RS (Eck-Verbi)
Raw Sample Relinquished by: JS

Date/Time 2/26/25 8:40

Raw Sample Received by: RS (Est-Val)

Raw Sample Relinquished by:

Date/Time	9:10
2/26/25	

Raw Sample Received by:

Raw Sample Relinquished by: RS (Ex 106)

Prep Standard - Chemical Standard Summary

Order ID : Q1415

Test : SVOC-TCL BNA -20

Prepbatch ID : PB166853,PB166875,

Sequence ID/Qc Batch ID: BF022525,BF022625,

Standard ID :

EP2559,EP2565,EP2582,EP2589,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :

10ul/1000ul

sample,E2865,E3551,E3657,E3815,E3828,E3846,E3871,E3873,E3874,E3878,M5173,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12652,S12653,S12791,S12963,S12964,S12965,S12966,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024
<u>FROM</u>	1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024
<u>FROM</u> 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml								

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2582	02/04/2025	07/29/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/04/2025

FROM 8000.00000ml of E3873 + 8000.00000ml of E3874 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

[illegible][illegible]

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

[illegible][illegible]

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12145

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/26/2025	11/26/2024 / Jagrut	07/23/2024 / RAHUL	S12470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12471

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12472

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12473

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12474

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12475

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12476

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12477

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12519

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12520

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12521

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12522

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12523

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12524

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/17/2025	02/17/2025 / anahy	09/20/2024 / anahy	S12652

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/25/2025	02/25/2025 / anahy	09/20/2024 / anahy	S12653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG
S11084
to
S11088

*Not a certified value

Certified By: _____

Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

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Manufacturer's Quality System
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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
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Manufacturer's Quality System
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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

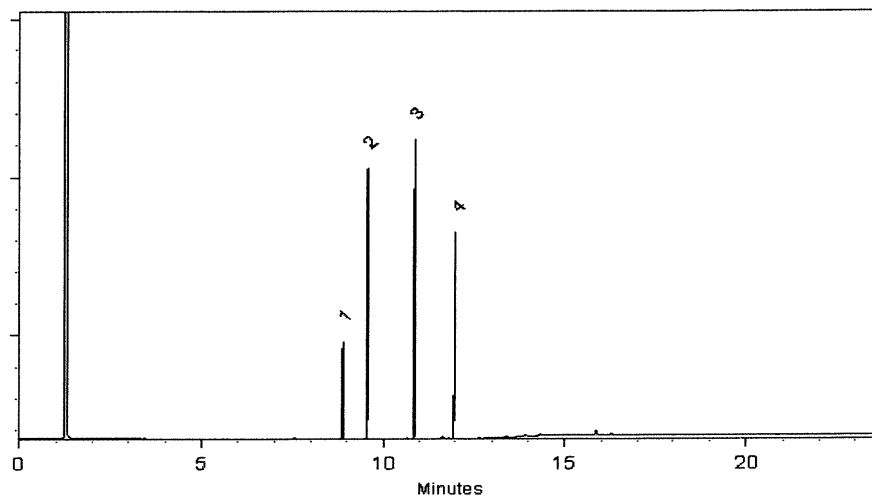
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Gravimetric Certificate



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555871 Lot No.: A0185300
Description : Custom 4-Nitrophenol Standard
Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2025 Storage: 10°C or colder
Ship: Ambient

Received by
CG ON
05/18/22
S10393
+0
S10402

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100 µg/mL Gravimetric
	CAS # 100-02-7		+/- 753.2622 µg/mL Unstressed
	Purity 99%		+/- 905.6020 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 Balance: 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate



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Received by
CG
on
07/05/22
S 10583
to
S 10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard
Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL Unstressed
	Purity 99%		+/- 512.6054 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckal - Mix Technician

Date Mixed: 16-Jun-2022 Balance: 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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Certificate of Analysis



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

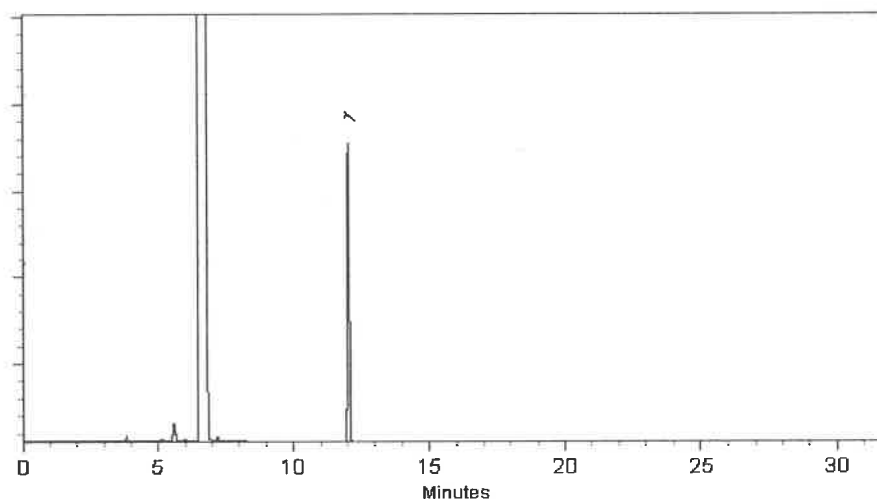
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

Received by
CG on
12/28/22
S10951
FO
S10980

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

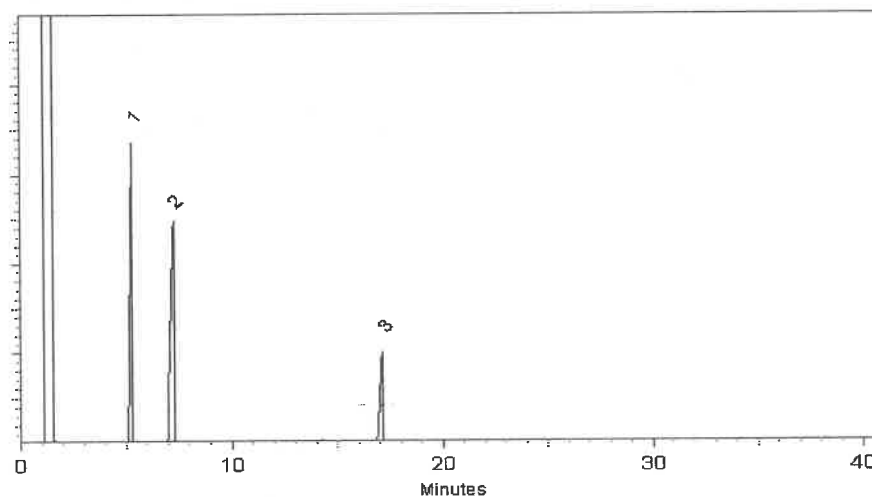
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

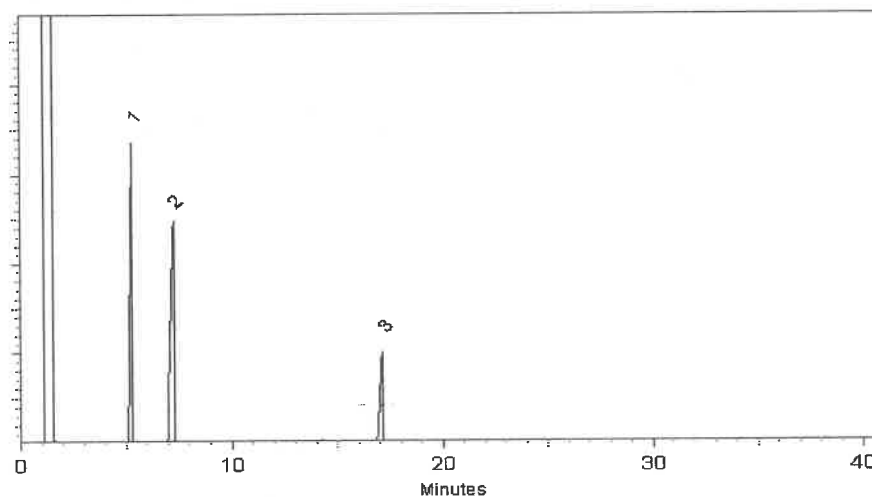
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

Received by
CG on
12/28/22
S10951
to
S10980

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

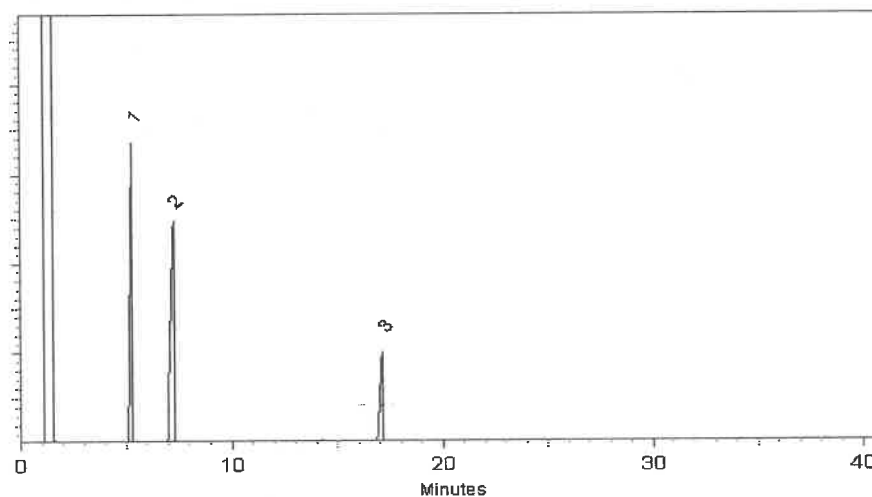
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

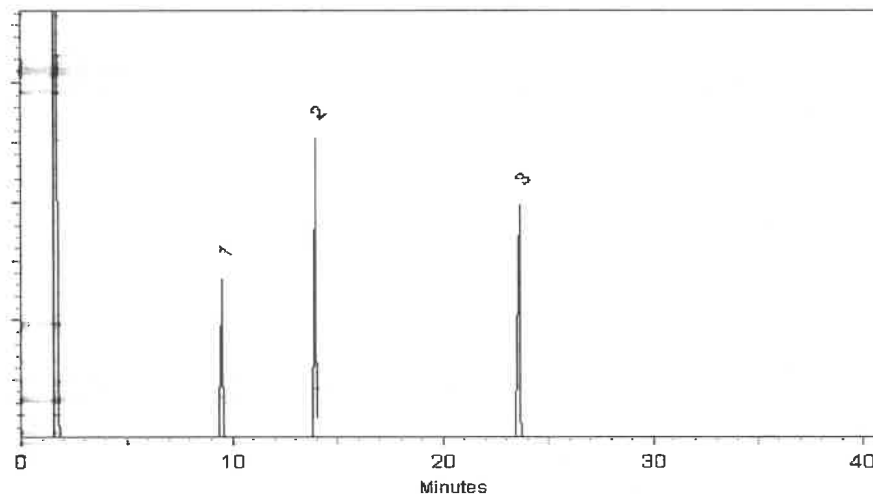
250°C

Det. Temp:

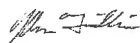
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Certificate of Analysis



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Received by
CG on
12/28/22
\$10981
to
S11010

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

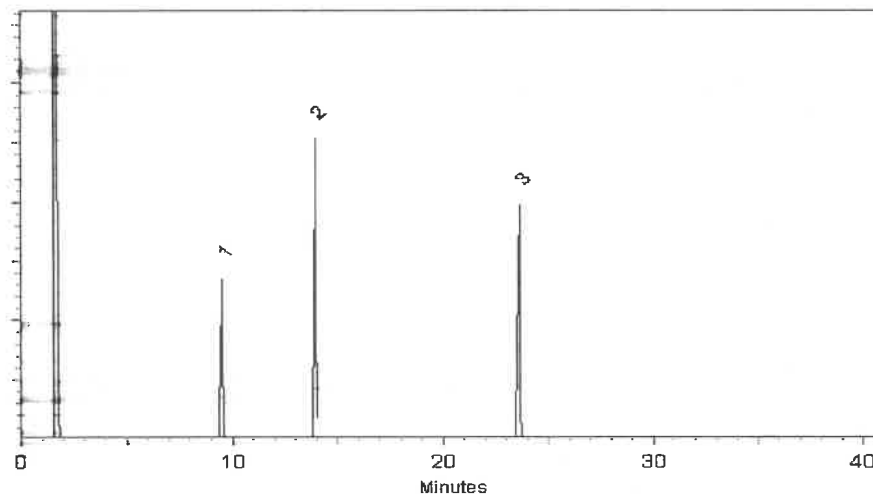
250°C

Det. Temp:

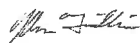
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

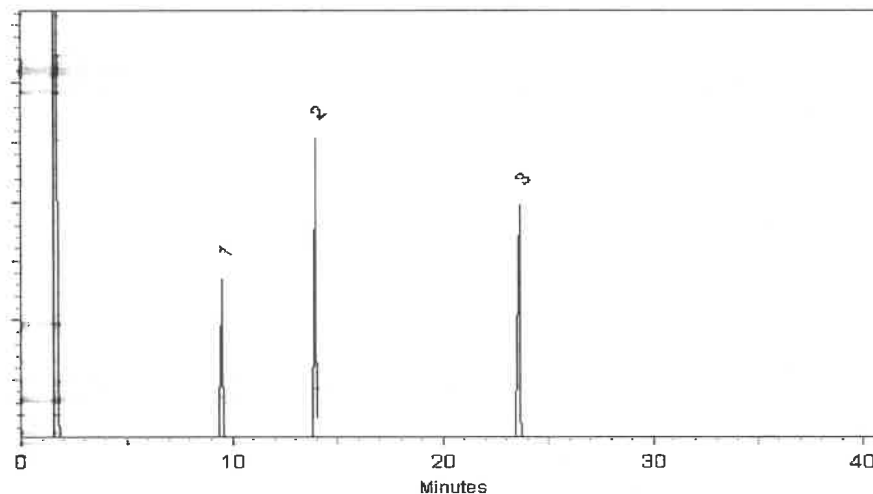
250°C

Det. Temp:

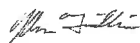
330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by
CG on
12/28/22
\$10981
to
S11010

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
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Solvent: Methylene chloride
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Purity 99%

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Column:

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Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

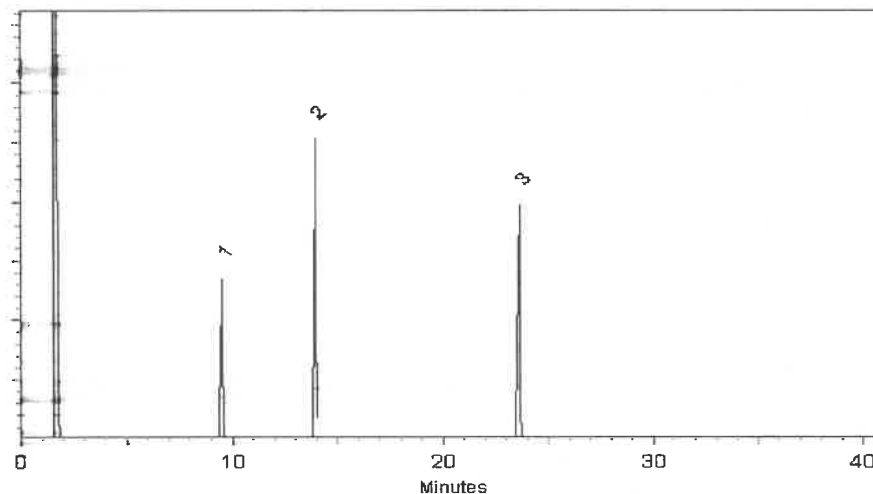
250°C

Det. Temp:

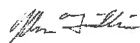
330°C

Det. Type:

FID



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John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
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to
S11010

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Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

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Rtx-5 (cat.#10223)

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hydrogen-constant pressure 10 psi.

Temp. Program:

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Inj. Temp:

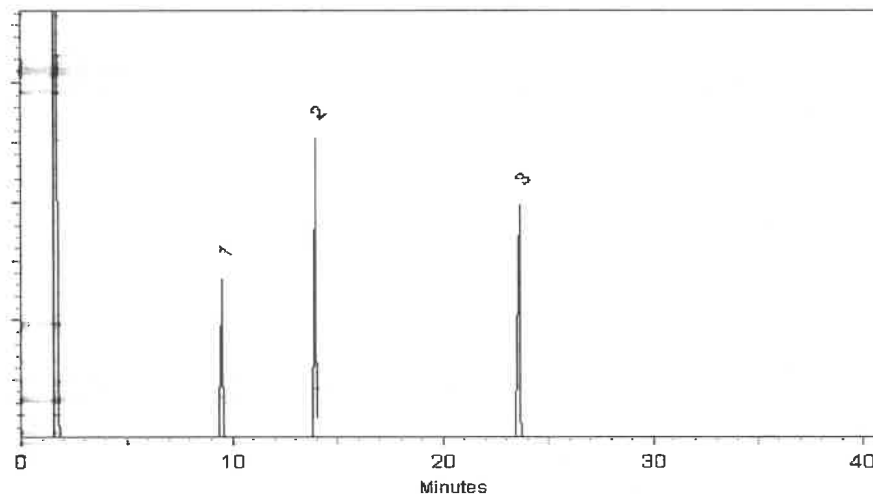
250°C

Det. Temp:

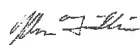
330°C

Det. Type:

FID



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John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
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\$10981
to
S11010

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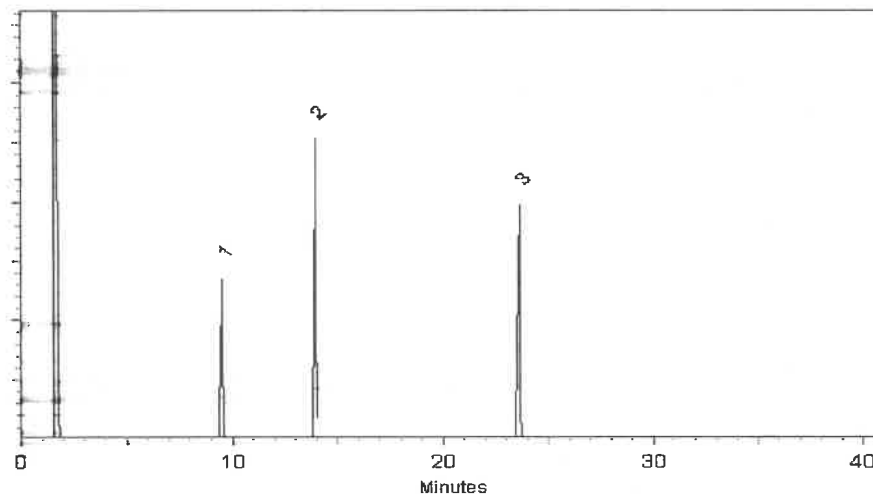
250°C

Det. Temp:

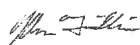
330°C

Det. Type:

FID



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John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

Received by
CG on
12/28/22
\$10981
to
S11010

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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Rtx-5 (cat.#10223)

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@ 10°C/min. (hold 10 min.)

Inj. Temp:

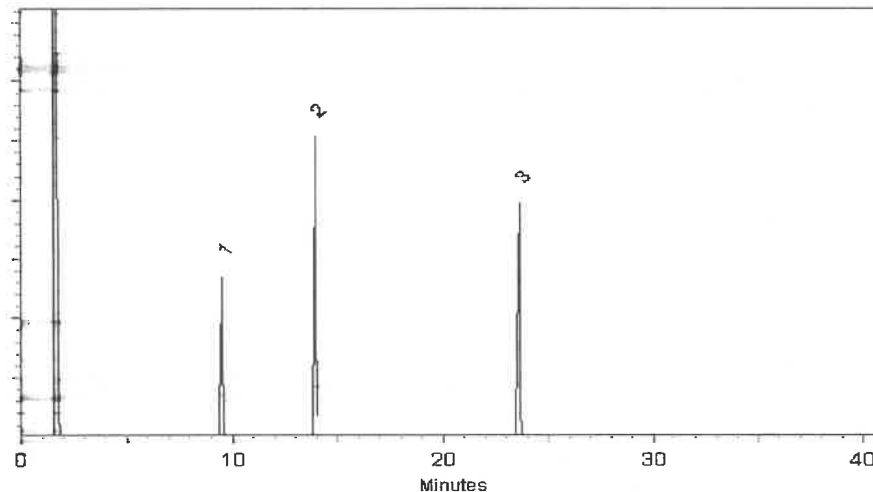
250°C

Det. Temp:

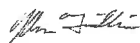
330°C

Det. Type:

FID



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John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard
Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023

Balance: B442140311

Manufactured under Restek
Registered Quality
Certificate #FM1

ified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.
nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the
ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD,
LC/MS, RI, and/or melting point.
nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A
n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the
mpound in solution.
isomeric compounds is reported as the sum of the isomers.
ues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded
ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

age factor of 2, which gives a level of confidence of approximately 95%.
ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure
nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily
traceable weights, and/or dilutions with Class A glassware.

;
the unopened product, when stored in compliance with the recommended conditions, is guaranteed through
ion displayed on the product label and certificate. Contact Restek for additional opened product stability
i, with the knowledge/understanding that open product stability is subject to the specific handling and
ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with
ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom
m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861,
des complete instructions.
solved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

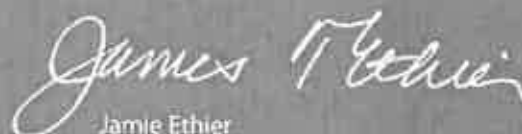
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

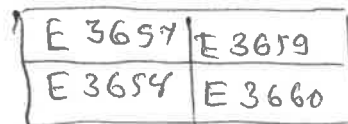
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

 **avantor**™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors™**



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP On 12/13/24

E 3846



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

12/27/24

 **avantors**



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	0.01%

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3878

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC

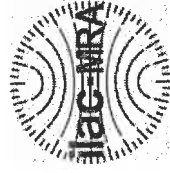

Jamie Ethier
Vice President Global Quality



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com



Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555870 Lot No.: A0200549

Description: Custom 2,4-Dinitrophenol Standard

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: August 31, 2026 Storage: 10°C or colder

Ship: Ambient

5116gh } Y.P.
↓
511693 } 08/10/28

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%


Tom Suckar, Mix Technician

Date Mixed: 02-Aug-2023 Balance: 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



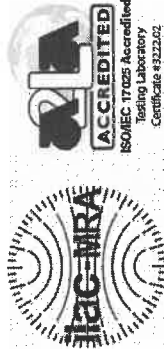
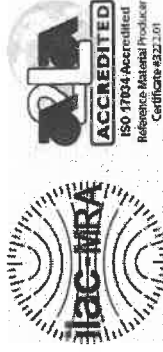
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555872 Lot No.: A0201728

Description: Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size: 2 mL Pkg Amt: > 1 mL

Expiration Date: September 30, 2026 Storage: 10°C or colder

Ship: Ambient

511649 } Y.P.
↓ 11/13/23
511658 }

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

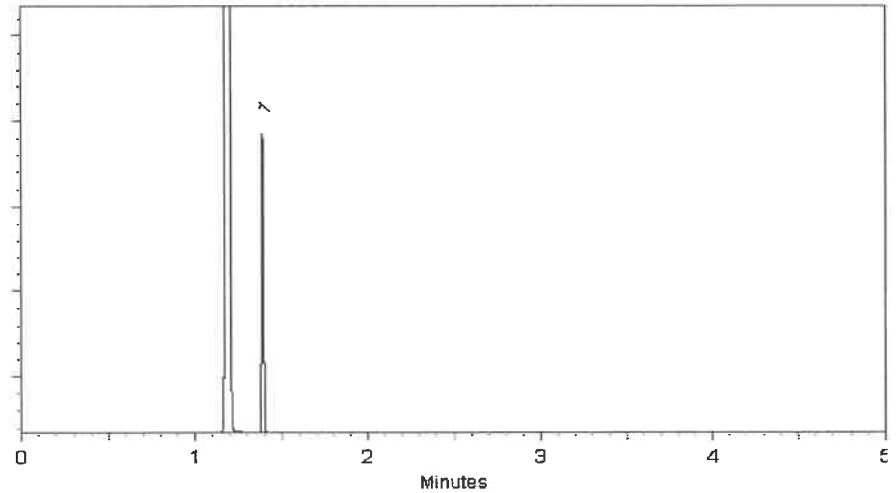
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

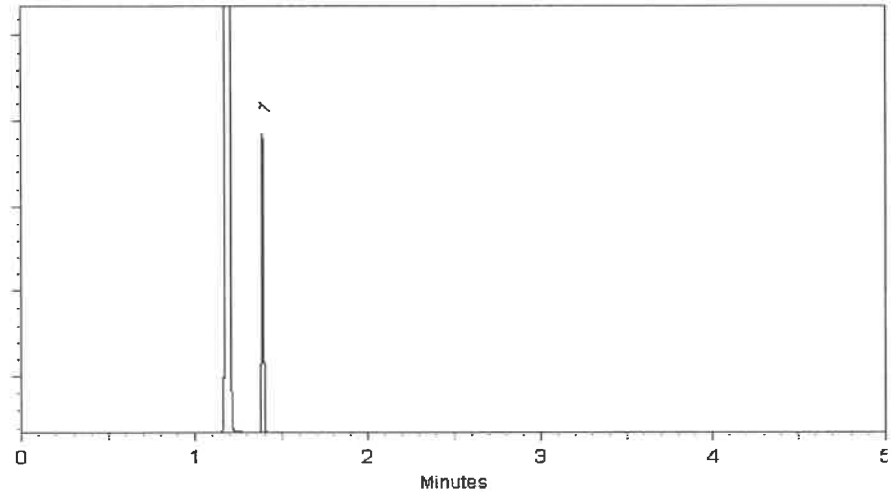
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

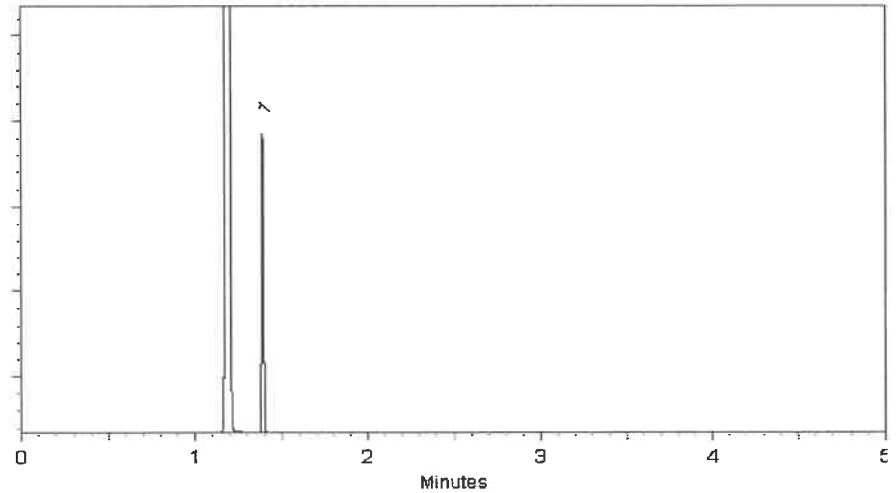
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Manufacturing Notes:

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Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

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Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

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Det. Temp:

340°C

Det. Type:

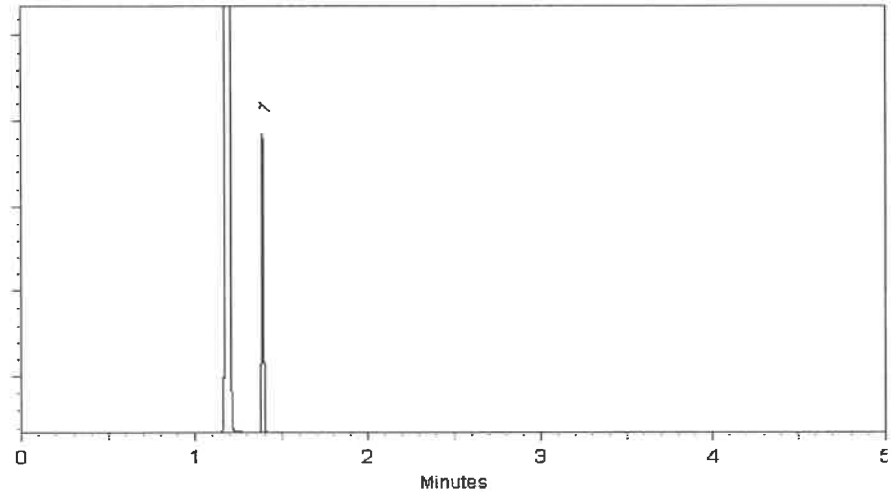
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



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Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
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S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

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Solvent: Methylene chloride
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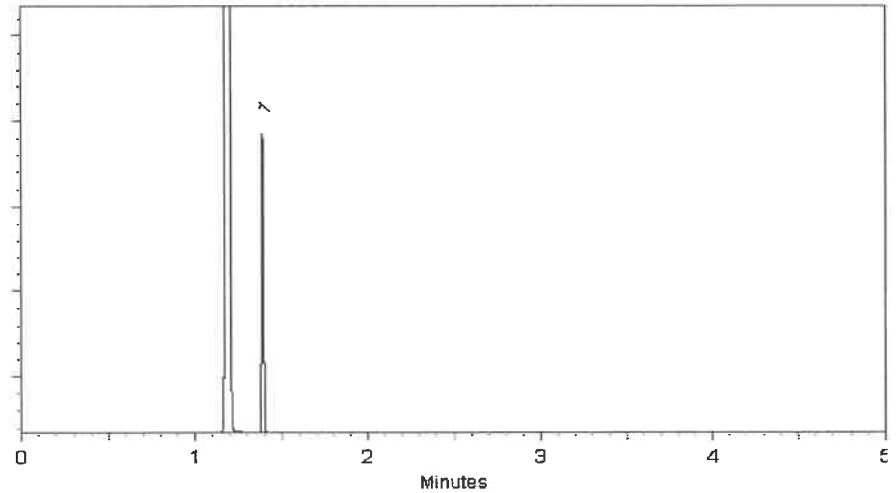
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Split Vent:

100 mL/min.

Inj. Vol

1µl



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Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane			123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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↓ 03/18/24
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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



110 Benner Circle
Bellefonte, PA 16823-8812
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

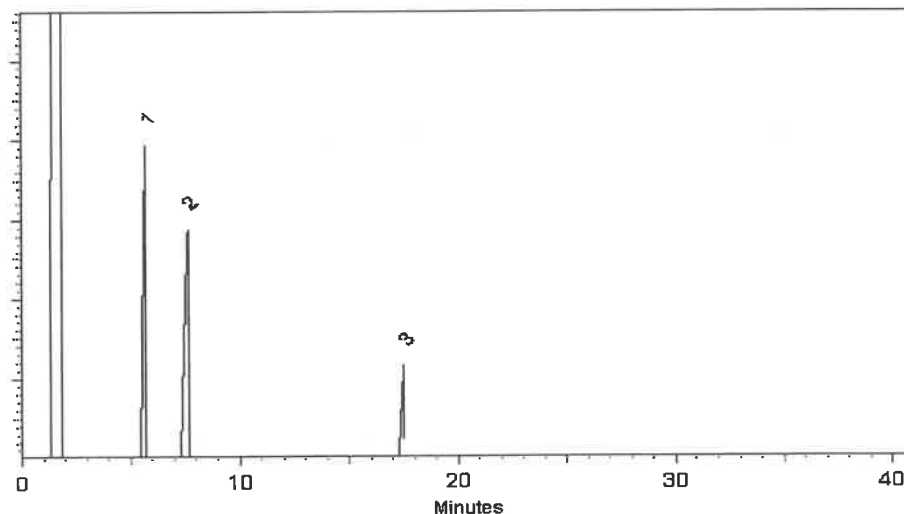
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

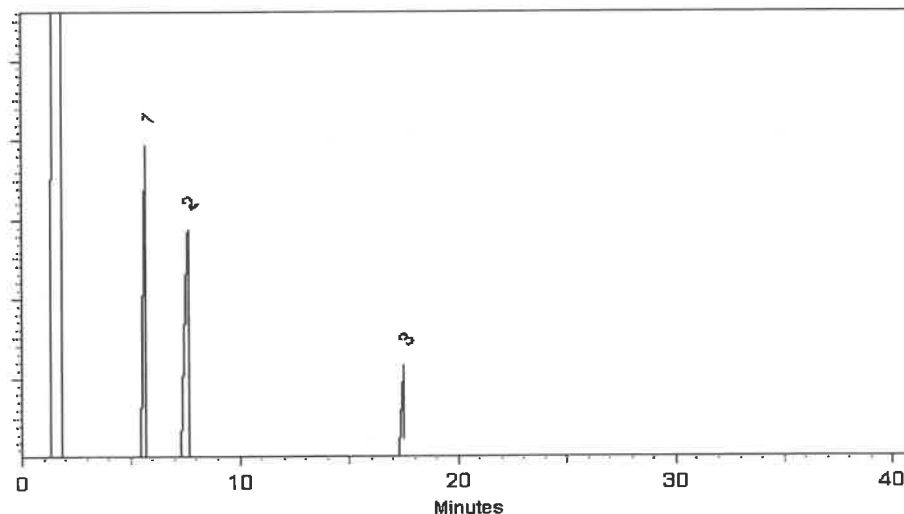
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope B. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

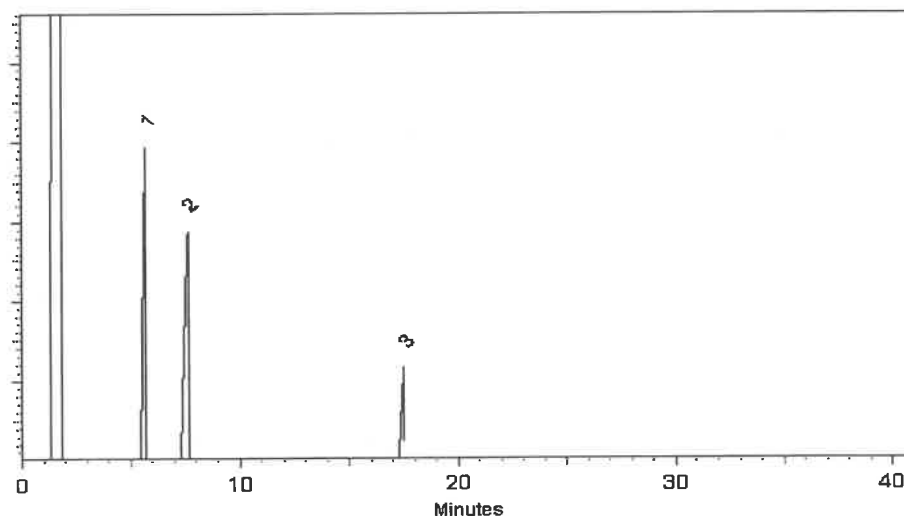
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

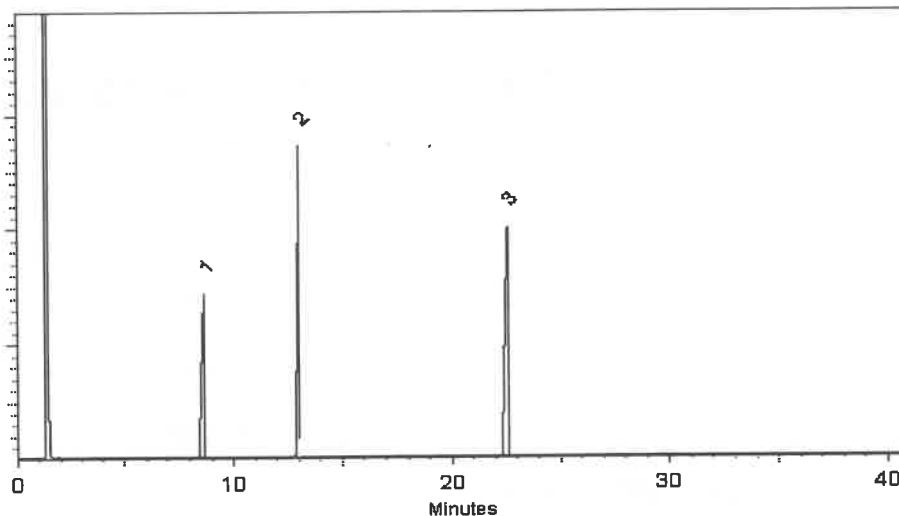
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

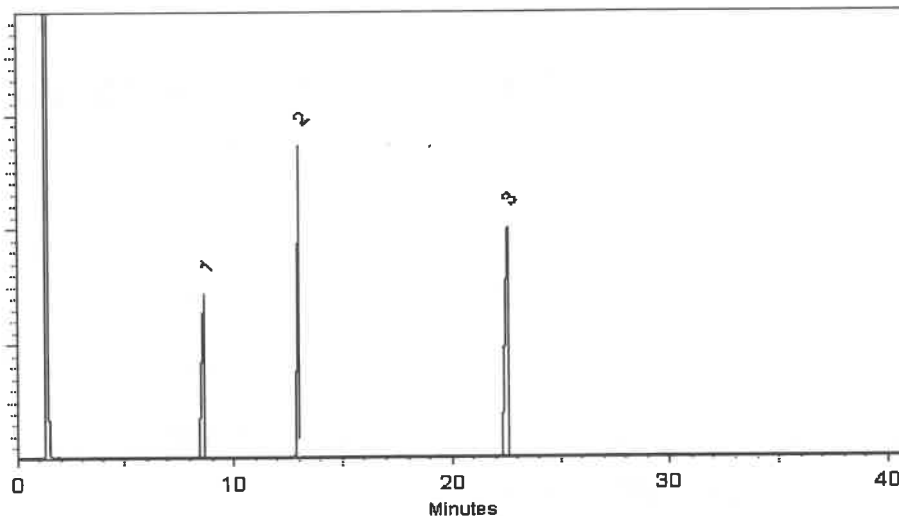
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Date Received: _____

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Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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listed are determined gravimetrically.



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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	$\leq -10^{\circ}\text{C}$	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 $\pm$ 11.49

512275 } RC/
↓
512279 } 05/24/24

*Not a certified value

Certified By: _____

S. Hunter

Scott Hunter
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

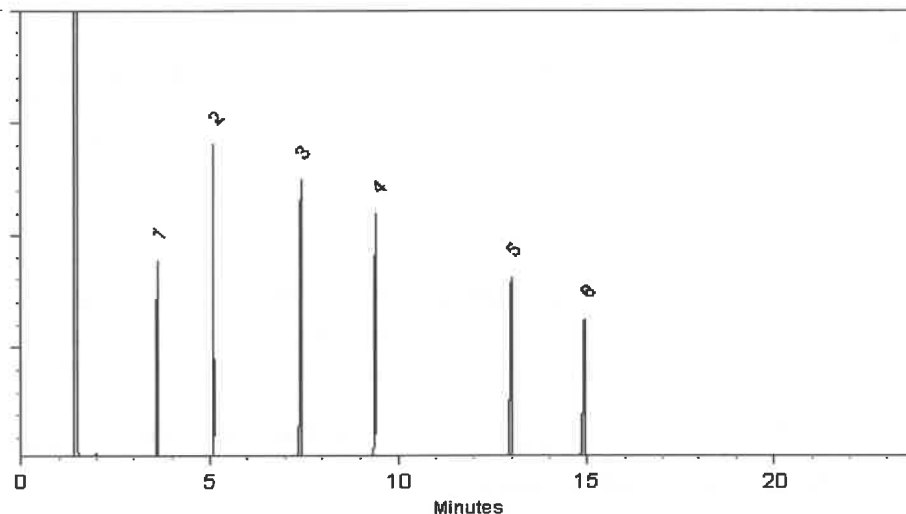
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Description : Custom 8270 Plus Standard #1

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1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Manufacturing Notes:

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Handling Notes:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
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5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
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General Certified Reference Material Notes

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



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Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
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6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
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S12992 } AC
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CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
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74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Abrams Ave
CITY: Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Kruparsky
PHONE: 600-301-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Antrak replacement of SB
PROJECT NO.: 95000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Kruparsky
e-mail: QaQc@bernsys.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Chemtec PO#:
ADDRESS: 284 Sheffield St
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: Sandra Boasy PHONE: 908-789-3148

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT BPM EDD

1. TCL VOC+H0
2. TCL PAHs
3. Gr LIII
4. Gr LVI
5. TAL metals
6. BPH
7. PCBS
8.
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	B-163-SB01	S		X	2/22/25	334	6	X	X	+	X	X	X	X				
2.	B-172-SB01	S		X		400	6	X	X									
3.	B-163-SB02	S		X		426	6	X	X									
4.	B-172-SB02	S		X		730	6	X	X									
5.	FB02222025	DIW		X		830	7	X	X									
6.	B-173-GW01	GW		X		745	8	X	X									
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Mue...</u>	DATE/TIME: <u>2/22/25 11:00</u>	RECEIVED BY: <u>[Signature]</u> 2-21-25 0700	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>4.7°C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments:
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete
☐ YES ☐ NO



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415	PORT06	Order Date : 2/24/2025 10:32:00 AM	Project Mgr :
Client Name : Portal Partners Tri-Venture		Project Name : Amtrak Sawtooth Bridges 2	Report Type : NJ Reduced
Client Contact : Joseph Krupansky		Receive DateTime : 2/24/2025 7:00:00 AM	EDD Type : EXCEL NJCLEANUP
Invoice Name : Portal Partners Tri-Venture		Purchase Order :	Hard Copy Date :
Invoice Contact : Joseph Krupansky			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1415-01	B-163-SB01	Solid	02/22/2025	15:34	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-02	B-172-SB01	Solid	02/22/2025	16:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-03	B-163-SB02	Solid	02/22/2025	16:26	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-04	B-172-SB02	Solid	02/22/2025	19:30	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1415-05	FB02222025	Water	02/22/2025	20:30	VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q1415-06	B-173-GW01	Water	02/22/2025	19:45	VOC-TCLVOA-10		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1415	PORT06	Order Date : 2/24/2025 10:32:00 AM	Project Mgr :
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LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By : CP

Date / Time : 2-24-25 11:05

Received By : ph

Date / Time : 2-24-25

Storage Area : VOA Refridgerator Room