284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1069

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

Table Of Contents for Q1069

1) SEMI-VOLATILE DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 8

5) Conformance/Non Conformance 9

6) QA Checklist 12

7) Chronicle 13

8) Hit Summary 14

9) QC Data Summary For SVOC-TCL BNA -20 15

- 9.1) Deuterated Monitoring Compound Summary 16
- 9.2) MS/MSD Summary 18
- 9.3) LCS/LCSD Summary 22
- 9.4) Method Blank Summary 26
- 9.5) GS/MS Tune Summary 28
- 9.6) Internal Standard Area and RT Summary 30

10) Sample Data 32

- 10.1) RW7B-CARBON-20250109 33
- 10.2) RW7B-CARBON-20250109RX 56

11) Calibration Data Summary 69

- 11.1) Initial Calibration Data 3
  - 11.1.1) BF011025 70
- 11.2) Continued Calibration Data 480
  - 11.2.1) BF141163.D 480
  - 11.2.2) BF141177.D 537

12) QC Sample Data 594

- 12.1) Tune Raw Data 595
- 12.2) Method Blank Data 603
- 12.3) LCS Data 637
- 12.4) MS Data 741
- 12.5) MSD Data 793

13) Manual Integration 845

14) Analytical Runlogs 847

15) Percent Solid 851

16) Extraction Logs 853

- 16.1) PB166035.pdf 853

Table Of Contents for Q1069

16.2) PB166035IC.pdf 855

16.3) PB166061.pdf 856

16.4) PB166061IC.pdf 859

17) Standard Prep Logs 860

18) Shipping Document 1058

18.1) Chain Of Custody 1059

18.2) Lab Certificate 1060

19) Not Reviewed Data 1061

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Cover Page

Order ID : Q1069

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q1069-01	RW7B-CARBON-20250109
Q1069-02	RW7B-CARBON-20250109

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:29 am, Jan 23, 2025

Date: 1/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager: Ernie Wu
Chemtech Project # Q1069
Test Name: SVOC-TCL BNA -20

A. Number of Samples and Date of Receipt:
2 Solid samples were received on 01/09/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Flash Point, Ignitability, PCB, pH, SVOC-TCL BNA -20, TCLP Extraction, TCLP Mercury, TCLP Metal, TCLP VOA, TCLP ZHE Extraction and TCLPMetals Group1. 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 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for TR-06-1-10-2025MS [2,4,6-Tribromophenol - 22%, Terphenyl-d14 - 45%], TR-06-1-10-2025MSD [2,4,6-Tribromophenol - 25%, Terphenyl-d14 - 52%],due to matrix interference and no corrective action is needed, and
RW7B-CARBON-20250109 [2,4,6-Tribromophenol - 6%, 2-Fluorobiphenyl - 9%, 2-Fluorophenol - 5%, Nitrobenzene-d5 - 9%, Phenol-d6 - 5%, Terphenyl-d14 - 8%], RW7B-CARBON-20250109RX [2,4,6-Tribromophenol - 34%, 2-Fluorobiphenyl - 39%, 2-Fluorophenol - 33%, Phenol-d6 - 32% and Terphenyl-d14 - 29%]Failure sample for surrogate was reanalyzed to confirm the failure and both run were reported in Hard Copy.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1068-01MS} with File ID: BF141175.D recoveries met the requirements for all compounds except for 1,4-Dioxane[48%], 2,3,4,6-Tetrachlorophenol[23%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[12%], 4-Nitrophenol[21%] and Pentachlorophenol[24%], due to matrix interference and no corrective action is needed. .

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The MSD {Q1068-01MSD} with File ID: BF141176.D recoveries met the acceptable requirements except for 1,4-Dioxane[49%], 2,3,4,6-Tetrachlorophenol[26%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[9%], 4-Nitrophenol[25%] and Pentachlorophenol[23%], due to matrix interference and no corrective action is needed.

The RPD for {Q1068-01MSD} with File ID: BF141176.D met criteria except for 4,6-Dinitro-2-methylphenol[29%], Hexachlorocyclopentadiene[37%], due to difference in results of MS and MSD .

The Blank Spike for {PB166035BS} with File ID: BF141165.D met requirements for all samples except for Hexachlorocyclopentadiene[179%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike for {PB166061BS} with File ID: BF141172.D met requirements for all samples except for Atrazine[129%], Hexachlorocyclopentadiene[191%],The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

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

E. Additional Comments:
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The not QT review data is reported in the Miscellaneous.
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 <20% 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 > 20% 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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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_____ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:29 am, Jan 23, 2025

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1069 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for TR-06-1-10-2025MS [2,4,6-Tribromophenol - 22%, Terphenyl-d14 - 45%], TR-06-1-10-2025MSD [2,4,6-Tribromophenol - 25%, Terphenyl-d14 - 52%],due to matrix interference and no corrective action is needed, and
RW7B-CARBON-20250109 [2,4,6-Tribromophenol - 6%, 2-Fluorobiphenyl - 9%, 2-Fluorophenol - 5%, Nitrobenzene-d5 - 9%, Phenol-d6 - 5%, Terphenyl-d14 - 8%], RW7B-CARBON-20250109RX [2,4,6-Tribromophenol - 34%, 2-Fluorobiphenyl - 39%, 2-Fluorophenol - 33%, Phenol-d6 - 32% and Terphenyl-d14 - 29%]Failure sample for surrogate was reanalyzed to confirm the failure and both run were reported in Hard Copy.

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

(CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The MS {Q1068-01MS} with File ID: BF141175.D recoveries met the requirements for all compounds except for 1,4-Dioxane[48%], 2,3,4,6-Tetrachlorophenol[23%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[12%], 4-Nitrophenol[21%] and Pentachlorophenol[24%], due to matrix interference and no corrective action is needed. .

The MSD {Q1068-01MSD} with File ID: BF141176.D recoveries met the acceptable requirements except for 1,4-Dioxane[49%], 2,3,4,6-Tetrachlorophenol[26%], 2,4,6-Trichlorophenol[35%], 2,4-Dinitrophenol[0%], 4,6-Dinitro-2-methylphenol[9%], 4-Nitrophenol[25%] and Pentachlorophenol[23%], due to matrix interference and no corrective action is needed.

The Blank Spike for {PB166035BS} with File ID: BF141165.D met requirements for all samples except for Hexachlorocyclopentadiene[179%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank Spike for {PB166061BS} with File ID: BF141172.D met requirements for all samples except for Atrazine[129%], Hexachlorocyclopentadiene[191%],The associate samples have no positive hit for these compounds therefore no corrective action was taken. .

9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓

Comments:

10.	Extraction Holding Time Met			✓

If not met, list number of days exceeded for each sample:

11.	Analysis Holding Time Met			✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

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

The not QT review data is reported in the Miscellaneous.

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

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 <20% 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 > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:29 am, Jan 23, 2025

Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1069

	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 Castody	✓
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: MOHAMMAD AHMED **Date:** 01/17/2025

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LAB CHRONICLE

OrderID:	Q1069	**OrderDate:**	1/10/2025 1:20:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	M11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1069-01	**RW7B-CARBON-20250109**	**SOIL**			**01/09/25**			**01/09/25**
			SVOC-TCL BNA -20	8270E		01/13/25	01/15/25	
Q1069-01RX	**RW7B-CARBON-20250109RX**	**SOIL**			**01/09/25**			**01/09/25**
			SVOC-TCL BNA -20	8270E		01/15/25	01/15/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	LOD	RDL	Units
Client ID :	**RW7B-CARBON-20250109**									
Q1069-01	RW7B-CARBON-20250	SOIL	Bis(2-ethylhexyl)phthalate		280.000	J	160	230	310	ug/Kg
			Total Svoc :		**280.00**					
Q1069-01	RW7B-CARBON-20250	SOIL	1,2-Ethanediol, diformate	*	1,800.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	230.000	AB	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	Benzophenone	*	290.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	Ethane, 1,1,2-trichloro-	*	2,000.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	Hexasiloxane, 1,1,3,3,5,5,7,7,9,9,	*	320.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	n-Hexadecanoic acid	*	260.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	Trichloroethylene	*	14,000.000	J	0		0	ug/Kg
Q1069-01	RW7B-CARBON-20250	SOIL	Pyridine	*	230.000	J	140		310	ug/Kg
			Total Tics :		**19,130.00**					
			Total Concentration:		**19,410.00**					
Client ID :	**RW7B-CARBON-20250109RX**									
Q1069-01RX	RW7B-CARBON-20250	SOIL	Bis(2-ethylhexyl)phthalate		560.000		160	230	310	ug/Kg
Q1069-01RX	RW7B-CARBON-20250	SOIL	Di-n-octyl phthalate		210.000	J	200	480	590	ug/Kg
			Total Svoc :		**770.00**					
			Total Concentration:		**770.00**					

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166035BL	PB166035BL	2-Fluorophenol	150	137	92		35	115
		Phenol-d6	150	136	90		34	127
		Nitrobenzene-d5	100	96.4	96		37	122
		2-Fluorobiphenyl	100	97.6	98		44	115
		2,4,6-Tribromophenol	150	153	102		39	132
		Terphenyl-d14	100	82.6	83		54	127
PB166035BS	PB166035BS	2-Fluorophenol	150	128	85		35	115
		Phenol-d6	150	127	85		34	127
		Nitrobenzene-d5	100	88.7	89		37	122
		2-Fluorobiphenyl	100	88.5	89		44	115
		2,4,6-Tribromophenol	150	147	98		39	132
		Terphenyl-d14	100	88.7	89		54	127
Q1068-01MS	TR-06-1-10-2025MS	2-Fluorophenol	150	69.8	47		35	115
		Phenol-d6	150	80.8	54		34	127
		Nitrobenzene-d5	100	61.4	61		37	122
		2-Fluorobiphenyl	100	65.8	66		44	115
		2,4,6-Tribromophenol	150	33.3	22	*	39	132
		Terphenyl-d14	100	45.4	45	*	54	127
Q1068-01MSD	TR-06-1-10-2025MSD	2-Fluorophenol	150	74.2	49		35	115
		Phenol-d6	150	88.2	59		34	127
		Nitrobenzene-d5	100	62.1	62		37	122
		2-Fluorobiphenyl	100	62.6	63		44	115
		2,4,6-Tribromophenol	150	37.1	25	*	39	132
		Terphenyl-d14	100	52.3	52	*	54	127
Q1069-01	RW7B-CARBON-20250109	2-Fluorophenol	150	7.86	5	*	35	115
		Phenol-d6	150	8.17	5	*	34	127
		Nitrobenzene-d5	100	8.53	9	*	37	122
		2-Fluorobiphenyl	100	8.53	9	*	44	115
		2,4,6-Tribromophenol	150	9.68	6	*	39	132
		Terphenyl-d14	100	7.98	8	*	54	127

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Fax : 908 789 8922

Surrogate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166061BL	PB166061BL	2-Fluorophenol	150	138	92		35	115
		Phenol-d6	150	135	90		34	127
		Nitrobenzene-d5	100	96.3	96		37	122
		2-Fluorobiphenyl	100	96.1	96		44	115
		2,4,6-Tribromophenol	150	148	99		39	132
		Terphenyl-d14	100	82.0	82		54	127
PB166061BS	PB166061BS	2-Fluorophenol	150	139	92		35	115
		Phenol-d6	150	138	92		34	127
		Nitrobenzene-d5	100	95.6	96		37	122
		2-Fluorobiphenyl	100	94.8	95		44	115
		2,4,6-Tribromophenol	150	156	104		39	132
		Terphenyl-d14	100	96.5	97		54	127
Q1069-01RX	RW7B-CARBON-20250109RX	2-Fluorophenol	150	49.5	33	*	35	115
		Phenol-d6	150	48.3	32	*	34	127
		Nitrobenzene-d5	100	38.0	38		37	122
		2-Fluorobiphenyl	100	39.2	39	*	44	115
		2,4,6-Tribromophenol	150	50.3	34	*	39	132
		Terphenyl-d14	100	28.7	29	*	54	127

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1068-01MS		**Client Sample ID: TR-06-1-10-2025MS**						**DataFile: BF141175.D**			
Benzaldehyde	1100	0	120	ug/Kg	11				10	161	
Phenol	1100	0	630	ug/Kg	57				34	121	
bis(2-Chloroethyl)ether	1100	0	670	ug/Kg	61				31	120	
2-Chlorophenol	1100	0	620	ug/Kg	56				34	121	
2-Methylphenol	1100	0	640	ug/Kg	58				32	122	
2,2-oxybis(1-Chloropropane)	1100	0	640	ug/Kg	58				33	131	
Acetophenone	1100	0	690	ug/Kg	63				33	115	
3+4-Methylphenols	1100	0	640	ug/Kg	58				34	119	
N-Nitroso-di-n-propylamine	1100	0	650	ug/Kg	59				36	120	
Hexachloroethane	1100	0	620	ug/Kg	56				28	117	
Nitrobenzene	1100	0	640	ug/Kg	58				34	122	
Isophorone	1100	0	700	ug/Kg	64				30	122	
2-Nitrophenol	1100	0	530	ug/Kg	48				36	123	
2,4-Dimethylphenol	1100	0	790	ug/Kg	72				30	127	
bis(2-Chloroethoxy)methane	1100	0	690	ug/Kg	63				36	121	
2,4-Dichlorophenol	1100	0	600	ug/Kg	55				40	122	
Naphthalene	1100	0	690	ug/Kg	63				35	123	
4-Chloroaniline	1100	0	250	ug/Kg	23				17	106	
Hexachlorobutadiene	1100	0	650	ug/Kg	59				32	123	
Caprolactam	1100	0	580	ug/Kg	53				46	117	
4-Chloro-3-methylphenol	1100	0	620	ug/Kg	56				45	122	
2-Methylnaphthalene	1100	0	680	ug/Kg	62				38	122	
Hexachlorocyclopentadiene	2200	0	1400	ug/Kg	64				43	112	
2,4,6-Trichlorophenol	1100	0	380	ug/Kg	35	*			39	126	
2,4,5-Trichlorophenol	1100	0	490	ug/Kg	45				41	124	
1,1-Biphenyl	1100	0	740	ug/Kg	67				40	117	
2-Chloronaphthalene	1100	0	680	ug/Kg	62				41	114	
2-Nitroaniline	1100	0	690	ug/Kg	63				44	127	
Dimethylphthalate	1100	0	730	ug/Kg	66				48	124	
Acenaphthylene	1100	110	850	ug/Kg	67				32	132	
2,6-Dinitrotoluene	1100	0	650	ug/Kg	59				46	124	
3-Nitroaniline	1100	0	500	ug/Kg	45				33	119	
Acenaphthene	1100	0	670	ug/Kg	61				40	123	
2,4-Dinitrophenol	2200	0	0	ug/Kg	0	*			15	130	
4-Nitrophenol	2200	0	460	ug/Kg	21	*			30	132	
Dibenzofuran	1100	0	680	ug/Kg	62				44	120	
2,4-Dinitrotoluene	1100	0	620	ug/Kg	56				48	126	
Diethylphthalate	1100	0	690	ug/Kg	63				50	124	
4-Chlorophenyl-phenylether	1100	0	660	ug/Kg	60				45	121	
Fluorene	1100	0	680	ug/Kg	62				43	125	
4-Nitroaniline	1100	0	530	ug/Kg	48				35	115	
4,6-Dinitro-2-methylphenol	1100	0	130	ug/Kg	12	*			29	132	
N-Nitrosodiphenylamine	1100	0	840	ug/Kg	76				38	127	
4-Bromophenyl-phenylether	1100	0	800	ug/Kg	73				46	124	
Hexachlorobenzene	1100	0	740	ug/Kg	67				45	122	
Atrazine	1100	0	980	ug/Kg	89				47	127	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2200	0	530	ug/Kg	24	*			25	133	
Phenanthrene	1100	130	880	ug/Kg	68				50	121	
Anthracene	1100	100	880	ug/Kg	71				47	123	
Carbazole	1100	0	730	ug/Kg	66				50	123	
Di-n-butylphthalate	1100	0	790	ug/Kg	72				51	128	
Fluoranthene	1100	190	1000	ug/Kg	74				50	127	
Pyrene	1100	210	750	ug/Kg	49				47	127	
Butylbenzylphthalate	1100	0	610	ug/Kg	55				48	132	
3,3-Dichlorobenzidine	1100	0	450	ug/Kg	41				22	121	
Benzo(a)anthracene	1100	160	920	ug/Kg	69				49	126	
Chrysene	1100	130	830	ug/Kg	64				50	124	
bis(2-Ethylhexyl)phthalate	1100	0	710	ug/Kg	65				51	133	
Di-n-octyl phthalate	1100	0	860	ug/Kg	78				45	140	
Benzo(b)fluoranthene	1100	230	990	ug/Kg	69				45	132	
Benzo(k)fluoranthene	1100	110	910	ug/Kg	73				47	132	
Benzo(a)pyrene	1100	280	1100	ug/Kg	75				45	129	
Indeno(1,2,3-cd)pyrene	1100	130	660	ug/Kg	48				45	133	
Dibenz(a,h)anthracene	1100	0	550	ug/Kg	50				45	134	
Benzo(g,h,i)perylene	1100	200	690	ug/Kg	45				43	134	
1,2,4,5-Tetrachlorobenzene	1100	0	740	ug/Kg	67				37	119	
1,4-Dioxane	1100	0	530	ug/Kg	48	*			70	130	
2,3,4,6-Tetrachlorophenol	1100	0	250	ug/Kg	23	*			44	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1068-01MSD		**Client Sample ID: TR-06-1-10-2025MSD**						**DataFile: BF141176.D**			
Benzaldehyde	1100	0	130	ug/Kg	12		9		10	161	20
Phenol	1100	0	700	ug/Kg	64		12		34	121	20
bis(2-Chloroethyl)ether	1100	0	700	ug/Kg	64		5		31	120	20
2-Chlorophenol	1100	0	670	ug/Kg	61		9		34	121	20
2-Methylphenol	1100	0	700	ug/Kg	64		10		32	122	20
2,2-oxybis(1-Chloropropane)	1100	0	660	ug/Kg	60		3		33	131	20
Acetophenone	1100	0	690	ug/Kg	63		0		33	115	20
3+4-Methylphenols	1100	0	710	ug/Kg	65		11		34	119	20
N-Nitroso-di-n-propylamine	1100	0	690	ug/Kg	63		7		36	120	20
Hexachloroethane	1100	0	640	ug/Kg	58		4		28	117	20
Nitrobenzene	1100	0	640	ug/Kg	58		0		34	122	20
Isophorone	1100	0	700	ug/Kg	64		0		30	122	20
2-Nitrophenol	1100	0	550	ug/Kg	50		4		36	123	20
2,4-Dimethylphenol	1100	0	810	ug/Kg	74		3		30	127	20
bis(2-Chloroethoxy)methane	1100	0	680	ug/Kg	62		2		36	121	20
2,4-Dichlorophenol	1100	0	640	ug/Kg	58		5		40	122	20
Naphthalene	1100	0	700	ug/Kg	64		2		35	123	20
4-Chloroaniline	1100	0	290	ug/Kg	26		12		17	106	20
Hexachlorobutadiene	1100	0	630	ug/Kg	57		3		32	123	20
Caprolactam	1100	0	670	ug/Kg	61		14		46	117	20
4-Chloro-3-methylphenol	1100	0	710	ug/Kg	65		15		45	122	20
2-Methylnaphthalene	1100	0	710	ug/Kg	65		5		38	122	20
Hexachlorocyclopentadiene	2200	0	970	ug/Kg	44		37	*	43	112	20
2,4,6-Trichlorophenol	1100	0	390	ug/Kg	35	*	0		39	126	20
2,4,5-Trichlorophenol	1100	0	510	ug/Kg	46		2		41	124	20
1,1-Biphenyl	1100	0	720	ug/Kg	65		3		40	117	20
2-Chloronaphthalene	1100	0	680	ug/Kg	62		0		41	114	20
2-Nitroaniline	1100	0	730	ug/Kg	66		5		44	127	20
Dimethylphthalate	1100	0	720	ug/Kg	65		2		48	124	20
Acenaphthylene	1100	110	850	ug/Kg	67		0		32	132	20
2,6-Dinitrotoluene	1100	0	680	ug/Kg	62		5		46	124	20
3-Nitroaniline	1100	0	560	ug/Kg	51		13		33	119	20
Acenaphthene	1100	0	680	ug/Kg	62		2		40	123	20
2,4-Dinitrophenol	2200	0	0	ug/Kg	0	*	0		15	130	20
4-Nitrophenol	2200	0	540	ug/Kg	25	*	17		30	132	20
Dibenzofuran	1100	0	700	ug/Kg	64		3		44	120	20
2,4-Dinitrotoluene	1100	0	700	ug/Kg	64		13		48	126	20
Diethylphthalate	1100	0	710	ug/Kg	65		3		50	124	20
4-Chlorophenyl-phenylether	1100	0	700	ug/Kg	64		6		45	121	20
Fluorene	1100	0	720	ug/Kg	65		5		43	125	20
4-Nitroaniline	1100	0	620	ug/Kg	56		15		35	115	20
4,6-Dinitro-2-methylphenol	1100	0	99.8	ug/Kg	9	*	29	*	29	132	20
N-Nitrosodiphenylamine	1100	0	840	ug/Kg	76		0		38	127	20
4-Bromophenyl-phenylether	1100	0	780	ug/Kg	71		3		46	124	20
Hexachlorobenzene	1100	0	740	ug/Kg	67		0		45	122	20
Atrazine	1100	0	990	ug/Kg	90		1		47	127	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	2200	0	510	ug/Kg	23	*	4		25	133	20
Phenanthrene	1100	130	890	ug/Kg	69		1		50	121	20
Anthracene	1100	100	900	ug/Kg	73		3		47	123	20
Carbazole	1100	0	730	ug/Kg	66		0		50	123	20
Di-n-butylphthalate	1100	0	780	ug/Kg	71		1		51	128	20
Fluoranthene	1100	190	930	ug/Kg	67		10		50	127	20
Pyrene	1100	210	870	ug/Kg	60		20		47	127	20
Butylbenzylphthalate	1100	0	690	ug/Kg	63		14		48	132	20
3,3-Dichlorobenzidine	1100	0	460	ug/Kg	42		2		22	121	20
Benzo(a)anthracene	1100	160	870	ug/Kg	65		6		49	126	20
Chrysene	1100	130	900	ug/Kg	70		9		50	124	20
bis(2-Ethylhexyl)phthalate	1100	0	770	ug/Kg	70		7		51	133	20
Di-n-octyl phthalate	1100	0	830	ug/Kg	75		4		45	140	20
Benzo(b)fluoranthene	1100	230	1100	ug/Kg	79		14		45	132	20
Benzo(k)fluoranthene	1100	110	890	ug/Kg	71		3		47	132	20
Benzo(a)pyrene	1100	280	1200	ug/Kg	84		11		45	129	20
Indeno(1,2,3-cd)pyrene	1100	130	730	ug/Kg	55		14		45	133	20
Dibenz(a,h)anthracene	1100	0	610	ug/Kg	55		10		45	134	20
Benzo(g,h,i)perylene	1100	200	770	ug/Kg	52		14		43	134	20
1,2,4,5-Tetrachlorobenzene	1100	0	720	ug/Kg	65		3		37	119	20
1,4-Dioxane	1100	0	540	ug/Kg	49	*	2		70	130	20
2,3,4,6-Tetrachlorophenol	1100	0	290	ug/Kg	26	*	12		44	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141165.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166035BS	Benzaldehyde	1700	280	ug/Kg	16				10	161	
	Phenol	1700	1500	ug/Kg	88				34	121	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				31	120	
	2-Chlorophenol	1700	1600	ug/Kg	94				34	121	
	2-Methylphenol	1700	1500	ug/Kg	88				32	122	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				33	131	
	Acetophenone	1700	1500	ug/Kg	88				33	115	
	3+4-Methylphenols	1700	1500	ug/Kg	88				34	119	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				36	120	
	Hexachloroethane	1700	1500	ug/Kg	88				28	117	
	Nitrobenzene	1700	1400	ug/Kg	82				34	122	
	Isophorone	1700	1500	ug/Kg	88				30	122	
	2-Nitrophenol	1700	1600	ug/Kg	94				36	123	
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				30	127	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				36	121	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				40	122	
	Naphthalene	1700	1500	ug/Kg	88				35	123	
	4-Chloroaniline	1700	740	ug/Kg	44				17	106	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				32	123	
	Caprolactam	1700	1500	ug/Kg	88				46	117	
	4-Chloro-3-methylphenol	1700	1600	ug/Kg	94				45	122	
	2-Methylnaphthalene	1700	1500	ug/Kg	88				38	122	
	Hexachlorocyclopentadiene	3300	5900	ug/Kg	179		*		43	112	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				39	126	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				41	124	
	1,1-Biphenyl	1700	1500	ug/Kg	88				40	117	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				41	114	
	2-Nitroaniline	1700	1600	ug/Kg	94				44	127	
	Dimethylphthalate	1700	1500	ug/Kg	88				48	124	
	Acenaphthylene	1700	1600	ug/Kg	94				32	132	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				46	124	
	3-Nitroaniline	1700	940	ug/Kg	55				33	119	
	Acenaphthene	1700	1700	ug/Kg	100				40	123	
	2,4-Dinitrophenol	3300	3600	ug/Kg	109				15	130	
	4-Nitrophenol	3300	3400	ug/Kg	103				30	132	
	Dibenzofuran	1700	1500	ug/Kg	88				44	120	
	2,4-Dinitrotoluene	1700	1600	ug/Kg	94				48	126	
	Diethylphthalate	1700	1500	ug/Kg	88				50	124	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				45	121	
	Fluorene	1700	1500	ug/Kg	88				43	125	
	4-Nitroaniline	1700	1600	ug/Kg	94				35	115	
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				29	132	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				38	127	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				46	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141165.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166035BS	Hexachlorobenzene	1700	1600	ug/Kg	94				45	122	
	Atrazine	1700	2000	ug/Kg	118				47	127	
	Pentachlorophenol	3300	3200	ug/Kg	97				25	133	
	Phenanthrene	1700	1600	ug/Kg	94				50	121	
	Anthracene	1700	1700	ug/Kg	100				47	123	
	Carbazole	1700	1700	ug/Kg	100				50	123	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				51	128	
	Fluoranthene	1700	1700	ug/Kg	100				50	127	
	Pyrene	1700	1500	ug/Kg	88				47	127	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				48	132	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				22	121	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				49	126	
	Chrysene	1700	1500	ug/Kg	88				50	124	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				51	133	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				45	140	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				45	132	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				47	132	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				45	133	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				45	134	
	Benzo(g,h,i)perylene	1700	1400	ug/Kg	82				43	134	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				37	119	
	1,4-Dioxane	1700	1300	ug/Kg	76				70	130	
	2,3,4,6-Tetrachlorophenol	1700	1600	ug/Kg	94				44	125	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141172.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166061BS	Benzaldehyde	1700	310	ug/Kg	18				10	161	
	Phenol	1700	1700	ug/Kg	100				34	121	
	bis(2-Chloroethyl)ether	1700	1600	ug/Kg	94				31	120	
	2-Chlorophenol	1700	1700	ug/Kg	100				34	121	
	2-Methylphenol	1700	1700	ug/Kg	100				32	122	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				33	131	
	Acetophenone	1700	1700	ug/Kg	100				33	115	
	3+4-Methylphenols	1700	1700	ug/Kg	100				34	119	
	N-Nitroso-di-n-propylamine	1700	1600	ug/Kg	94				36	120	
	Hexachloroethane	1700	1600	ug/Kg	94				28	117	
	Nitrobenzene	1700	1600	ug/Kg	94				34	122	
	Isophorone	1700	1700	ug/Kg	100				30	122	
	2-Nitrophenol	1700	1800	ug/Kg	106				36	123	
	2,4-Dimethylphenol	1700	2000	ug/Kg	118				30	127	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				36	121	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				40	122	
	Naphthalene	1700	1700	ug/Kg	100				35	123	
	4-Chloroaniline	1700	690	ug/Kg	41				17	106	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				32	123	
	Caprolactam	1700	1700	ug/Kg	100				46	117	
	4-Chloro-3-methylphenol	1700	1700	ug/Kg	100				45	122	
	2-Methylnaphthalene	1700	1700	ug/Kg	100				38	122	
	Hexachlorocyclopentadiene	3300	6300	ug/Kg	191		*		43	112	
	2,4,6-Trichlorophenol	1700	1800	ug/Kg	106				39	126	
	2,4,5-Trichlorophenol	1700	1700	ug/Kg	100				41	124	
	1,1-Biphenyl	1700	1700	ug/Kg	100				40	117	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				41	114	
	2-Nitroaniline	1700	1700	ug/Kg	100				44	127	
	Dimethylphthalate	1700	1700	ug/Kg	100				48	124	
	Acenaphthylene	1700	1800	ug/Kg	106				32	132	
	2,6-Dinitrotoluene	1700	1700	ug/Kg	100				46	124	
	3-Nitroaniline	1700	960	ug/Kg	56				33	119	
	Acenaphthene	1700	1900	ug/Kg	112				40	123	
	2,4-Dinitrophenol	3300	4100	ug/Kg	124				15	130	
	4-Nitrophenol	3300	3700	ug/Kg	112				30	132	
	Dibenzofuran	1700	1700	ug/Kg	100				44	120	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				48	126	
	Diethylphthalate	1700	1700	ug/Kg	100				50	124	
	4-Chlorophenyl-phenylether	1700	1700	ug/Kg	100				45	121	
	Fluorene	1700	1700	ug/Kg	100				43	125	
	4-Nitroaniline	1700	1700	ug/Kg	100				35	115	
	4,6-Dinitro-2-methylphenol	1700	2000	ug/Kg	118				29	132	
	N-Nitrosodiphenylamine	1700	1700	ug/Kg	100				38	127	
	4-Bromophenyl-phenylether	1700	1700	ug/Kg	100				46	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1069

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270E **DataFile:** BF141172.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166061BS	Hexachlorobenzene	1700	1800	ug/Kg	106				45	122	
	Atrazine	1700	2200	ug/Kg	129		*		47	127	
	Pentachlorophenol	3300	3500	ug/Kg	106				25	133	
	Phenanthrene	1700	1800	ug/Kg	106				50	121	
	Anthracene	1700	1900	ug/Kg	112				47	123	
	Carbazole	1700	1800	ug/Kg	106				50	123	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				51	128	
	Fluoranthene	1700	1900	ug/Kg	112				50	127	
	Pyrene	1700	1700	ug/Kg	100				47	127	
	Butylbenzylphthalate	1700	1800	ug/Kg	106				48	132	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65				22	121	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				49	126	
	Chrysene	1700	1700	ug/Kg	100				50	124	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				51	133	
	Di-n-octyl phthalate	1700	1700	ug/Kg	100				45	140	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				45	132	
	Benzo(k)fluoranthene	1700	1800	ug/Kg	106				47	132	
	Benzo(a)pyrene	1700	1900	ug/Kg	112				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				45	133	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				45	134	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				43	134	
	1,2,4,5-Tetrachlorobenzene	1700	1700	ug/Kg	100				37	119	
	1,4-Dioxane	1700	1400	ug/Kg	82				70	130	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				44	125	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166035BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141169.D Lab Sample ID: PB166035BL

Instrument ID: BNA_F Date Extracted: 01/13/2025

Matrix: (soil/water) SOIL Date Analyzed: 01/15/2025

Level: (low/med) LOW Time Analyzed: 12:11

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166035BS	PB166035BS	BF141165.D	01/15/2025
TR-06-1-10-2025MS	Q1068-01MS	BF141175.D	01/15/2025
TR-06-1-10-2025MSD	Q1068-01MSD	BF141176.D	01/15/2025
RW7B-CARBON-20250109	Q1069-01	BF141173.D	01/15/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166061BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141171.D Lab Sample ID: PB166061BL

Instrument ID: BNA_F Date Extracted: 01/15/2025

Matrix: (soil/water) SOIL Date Analyzed: 01/15/2025

Level: (low/med) LOW Time Analyzed: 13:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166061BS	PB166061BS	BF141172.D	01/15/2025
RW7B-CARBON-20250109RX	Q1069-01RX	BF141174.D	01/15/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141108.D DFTPP Injection Date: 01/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 11:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	49.8
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	6.6
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.1 (19.4) 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	BF141109.D	01/10/2025	11:58
SSTDICC005	SSTDICC005	BF141110.D	01/10/2025	12:25
SSTDICC010	SSTDICC010	BF141111.D	01/10/2025	13:17
SSTDICC020	SSTDICC020	BF141112.D	01/10/2025	14:10
SSTDICCC040	SSTDICCC040	BF141113.D	01/10/2025	14:36
SSTDICC050	SSTDICC050	BF141117.D	01/10/2025	16:53
SSTDICC060	SSTDICC060	BF141118.D	01/10/2025	17:19
SSTDICC080	SSTDICC080	BF141119.D	01/10/2025	17:45

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: Q1069 SDG NO.: Q1069

Lab File ID: BF141162.D DFTPP Injection Date: 01/15/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	48.1
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	6.9
275	10.0 - 60.0% of mass 198	30.4
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.5 (18.5) 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	BF141163.D	01/15/2025	09:34
PB166035BS	PB166035BS	BF141165.D	01/15/2025	10:26
PB166035BL	PB166035BL	BF141169.D	01/15/2025	12:11
PB166061BL	PB166061BL	BF141171.D	01/15/2025	13:12
PB166061BS	PB166061BS	BF141172.D	01/15/2025	13:38
RW7B-CARBON-20250109	Q1069-01	BF141173.D	01/15/2025	14:13
RW7B-CARBON-20250109RX	Q1069-01RX	BF141174.D	01/15/2025	14:39
TR-06-1-10-2025MS	Q1068-01MS	BF141175.D	01/15/2025	15:05
TR-06-1-10-2025MSD	Q1068-01MSD	BF141176.D	01/15/2025	16:40
SSTDCCC040EC	SSTDCCC040	BF141177.D	01/15/2025	17:10

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/15/2025

Lab File ID: BF141163.D Time Analyzed: 09:34

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	160442	6.822	621128	8.10	331065	9.86
	UPPER LIMIT	320884	7.322	1242260	8.604	662130	10.363
	LOWER LIMIT	80221	6.322	310564	7.604	165533	9.363
	EPA SAMPLE NO.						
01	PB166035BS	141578	6.82	559409	8.10	296383	9.86
02	PB166035BL	136764	6.82	539364	8.10	276861	9.86
03	PB166061BL	139696	6.82	549482	8.10	287376	9.86
04	PB166061BS	125655	6.82	494978	8.10	264175	9.86
05	TR-06-1-10-2025MS	151239	6.82	561441	8.10	265282	9.86
06	TR-06-1-10-2025MSD	143081	6.82	569188	8.10	294771	9.86
07	RW7B-CARBON-20250109	131077	6.82	520865	8.10	287776	9.86
08	RW7B-CARBON-20250109RX	130568	6.82	511298	8.10	277574	9.86

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG NO.: Q1069

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/15/2025

Lab File ID: BF141163.D Time Analyzed: 09:34

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	558521	11.345	351337	13.986	315529	15.445
	UPPER LIMIT	1117040	11.845	702674	14.486	631058	15.945
	LOWER LIMIT	279261	10.845	175669	13.486	157765	14.945
	EPA SAMPLE NO.						
01	PB166035BS	515619	11.35	346259	13.99	300143	15.45
02	PB166035BL	476305	11.34	381699	13.98	303475	15.44
03	PB166061BL	484833	11.35	391933	13.98	312524	15.45
04	PB166061BS	452645	11.35	303424	13.99	262459	15.45
05	TR-06-1-10-2025MS	349564	11.35	322664	13.99	314686	15.45
06	TR-06-1-10-2025MSD	427420	11.35	307236	13.99	256318	15.47
07	RW7B-CARBON-20250109	491216	11.34	326348	13.98	301825	15.44
08	RW7B-CARBON-20250109RX	450100	11.34	280945	13.98	283392	15.44

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.

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SAMPLE DATA

Raw Data: **BF141173.D**

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.03 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
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	490	U	330	490	590	ug/Kg
108-95-2	Phenol	230	U	150	230	310	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	150	230	310	ug/Kg
95-57-8	2-Chlorophenol	230	U	150	230	310	ug/Kg
95-48-7	2-Methylphenol	230	U	140	230	310	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	160	230	310	ug/Kg
98-86-2	Acetophenone	230	U	160	230	310	ug/Kg
65794-96-9	3+4-Methylphenols	490	U	140	490	590	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	140	U	72.4	140	140	ug/Kg
67-72-1	Hexachloroethane	230	U	150	230	310	ug/Kg
98-95-3	Nitrobenzene	230	U	160	230	310	ug/Kg
78-59-1	Isophorone	230	U	150	230	310	ug/Kg
88-75-5	2-Nitrophenol	230	U	170	230	310	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	170	230	310	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	310	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	140	230	310	ug/Kg
91-20-3	Naphthalene	230	U	150	230	310	ug/Kg
106-47-8	4-Chloroaniline	230	U	150	230	310	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	150	230	310	ug/Kg
105-60-2	Caprolactam	490	U	160	490	590	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	140	230	310	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	150	230	310	ug/Kg
77-47-4	Hexachlorocyclopentadiene	490	UQ	280	490	590	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	130	230	310	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	130	230	310	ug/Kg
92-52-4	1,1-Biphenyl	230	U	160	230	310	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	150	230	310	ug/Kg
88-74-4	2-Nitroaniline	230	U	170	230	310	ug/Kg
131-11-3	Dimethylphthalate	230	U	150	230	310	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.03 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
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	230	U	160	230	310	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	150	230	310	ug/Kg
99-09-2	3-Nitroaniline	230	U	160	230	310	ug/Kg
83-32-9	Acenaphthene	230	U	150	230	310	ug/Kg
51-28-5	2,4-Dinitrophenol	490	U	440	490	590	ug/Kg
100-02-7	4-Nitrophenol	490	U	210	490	590	ug/Kg
132-64-9	Dibenzofuran	230	U	150	230	310	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	150	230	310	ug/Kg
84-66-2	Diethylphthalate	230	U	140	230	310	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	150	230	310	ug/Kg
86-73-7	Fluorene	230	U	150	230	310	ug/Kg
100-01-6	4-Nitroaniline	230	U	190	230	310	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	490	U	210	490	590	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	150	230	310	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	140	230	310	ug/Kg
118-74-1	Hexachlorobenzene	230	U	150	230	310	ug/Kg
1912-24-9	Atrazine	230	U	160	230	310	ug/Kg
87-86-5	Pentachlorophenol	490	U	140	490	590	ug/Kg
85-01-8	Phenanthrene	230	U	150	230	310	ug/Kg
120-12-7	Anthracene	230	U	150	230	310	ug/Kg
86-74-8	Carbazole	230	U	140	230	310	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	150	230	310	ug/Kg
206-44-0	Fluoranthene	230	U	150	230	310	ug/Kg
129-00-0	Pyrene	230	U	150	230	310	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	170	230	310	ug/Kg
91-94-1	3,3-Dichlorobenzidine	490	U	180	490	590	ug/Kg
56-55-3	Benzo(a)anthracene	230	U	140	230	310	ug/Kg
218-01-9	Chrysene	230	U	140	230	310	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	280	J	160	230	310	ug/Kg
117-84-0	Di-n-octyl phthalate	490	U	200	490	590	ug/Kg
205-99-2	Benzo(b)fluoranthene	230	U	150	230	310	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.03 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
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	230	U	150	230	310	ug/Kg
50-32-8	Benzo(a)pyrene	230	U	170	230	310	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	230	U	140	230	310	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	150	230	310	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	U	140	230	310	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	160	230	310	ug/Kg
123-91-1	1,4-Dioxane	230	U	200	230	310	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	130	230	310	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	7.86	*	35 - 115		5%	SPK: 150
13127-88-3	Phenol-d6	8.17	*	34 - 127		5%	SPK: 150
4165-60-0	Nitrobenzene-d5	8.53	*	37 - 122		9%	SPK: 100
321-60-8	2-Fluorobiphenyl	8.53	*	44 - 115		9%	SPK: 100
118-79-6	2,4,6-Tribromophenol	9.68	*	39 - 132		6%	SPK: 150
1718-51-0	Terphenyl-d14	7.98	*	54 - 127		8%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	131000	6.822				
1146-65-2	Naphthalene-d8	521000	8.104				
15067-26-2	Acenaphthene-d10	288000	9.857				
1517-22-2	Phenanthrene-d10	491000	11.339				
1719-03-5	Chrysene-d12	326000	13.98				
1520-96-3	Perylene-d12	302000	15.439				
TENTATIVE IDENTIFIED COMPOUNDS							
000995-82-4	Hexasiloxane, 1,1,3,3,5,5,7,7,9,9,	320	J			2.14	ug/Kg
000079-01-6	Trichloroethylene	14000	J			2.43	ug/Kg
110-86-1	Pyridine	230	J			3.31	ug/Kg
000079-00-5	Ethane, 1,1,2-trichloro-	2000	J			4.09	ug/Kg
000629-15-2	1,2-Ethanediol, diformate	1800	J			4.99	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	230	AB			5.03	ug/Kg
000119-61-9	Benzophenone	290	J			10.6	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109	SDG No.:	Q1069
Lab Sample ID:	Q1069-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
Sample Wt/Vol:	30.03 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
BF141173.D	1	01/13/25 08:54	01/15/25 14:13	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000057-10-3	n-Hexadecanoic acid	260	J			11.9	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\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Quant Time: Jan 15 14:34:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

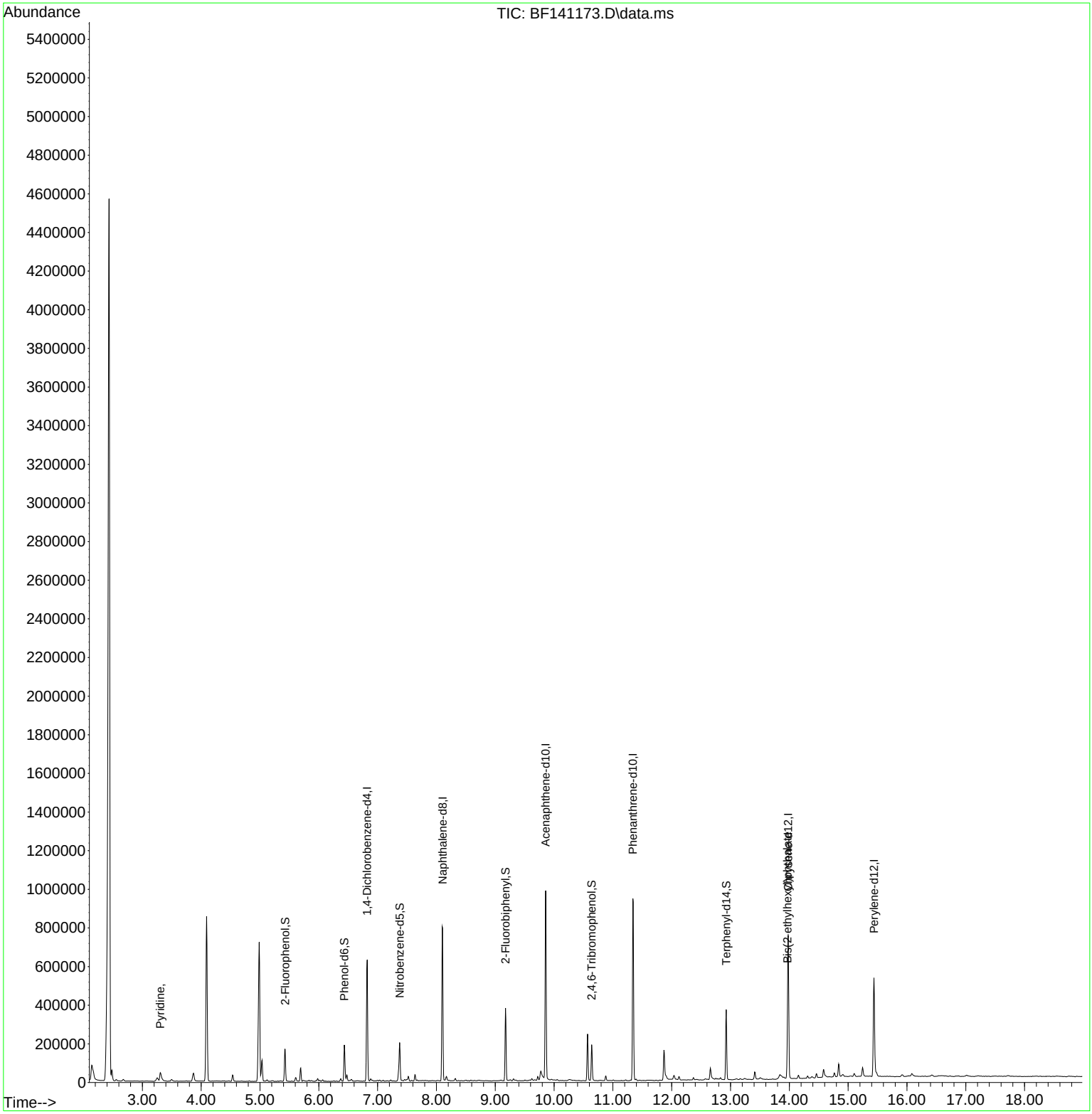
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	131077	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	520865	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	287776	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	491216	20.000	ng	0.00
76) Chrysene-d12	13.980	240	326348	20.000	ng	0.00
86) Perylene-d12	15.439	264	301825	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	66661	7.856	ng	0.00
7) Phenol-d6	6.434	99	87820	8.171	ng	-0.01
23) Nitrobenzene-d5	7.375	82	83781	8.526	ng	-0.01
42) 2,4,6-Tribromophenol	10.639	330	31725	9.675	ng	-0.01
45) 2-Fluorobiphenyl	9.175	172	160676	8.526	ng	0.00
79) Terphenyl-d14	12.927	244	175195	7.979	ng	0.00
Target Compounds						Qvalue
3) Pyridine	3.305	79	36219	3.909	ng	97
84) Bis(2-ethylhexyl)phtha...	13.969	149	57753	4.632	ng	96

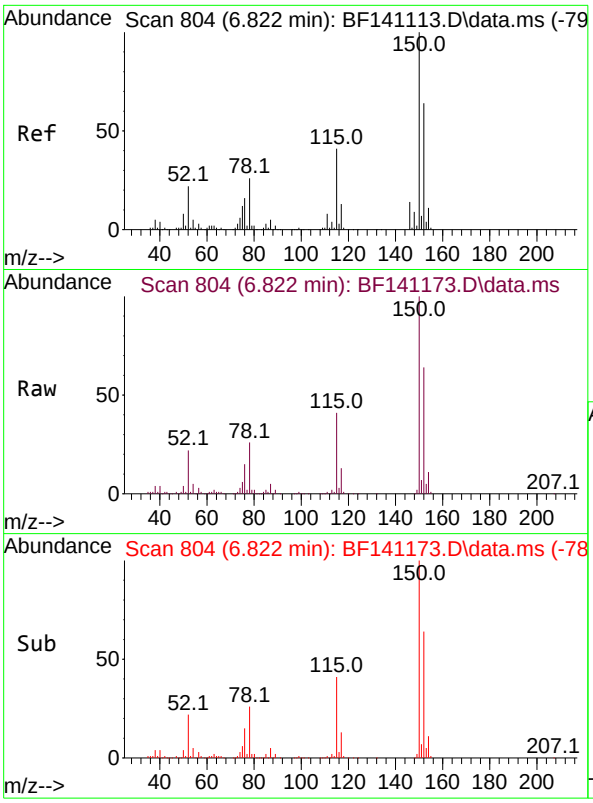
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Quant Time: Jan 15 14:34:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



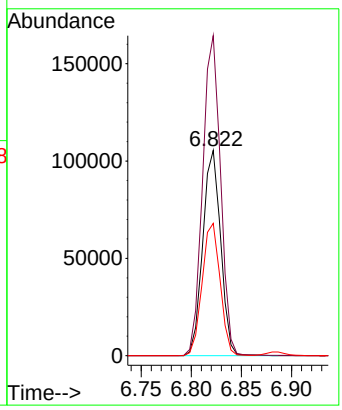


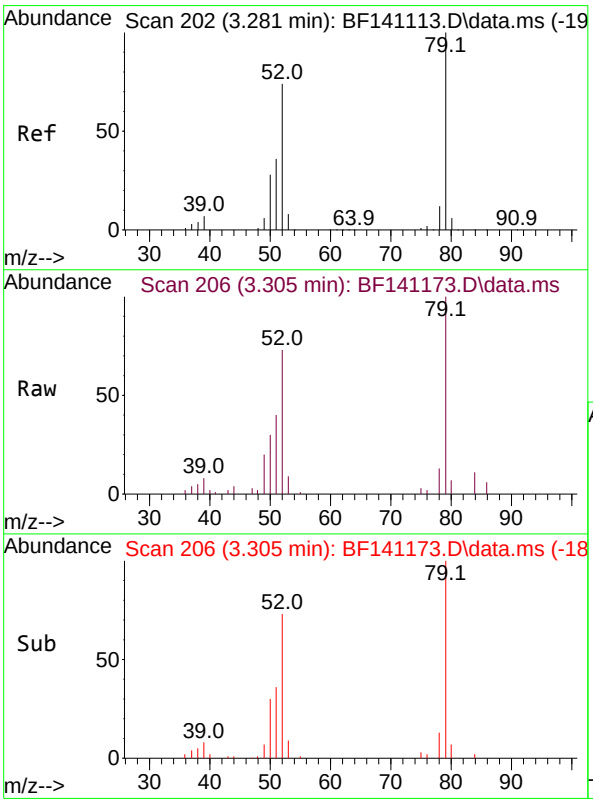
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:152 Resp: 131077

Ion	Ratio	Lower	Upper
152	100		
150	155.9	125.8	188.8
115	64.5	51.4	77.2

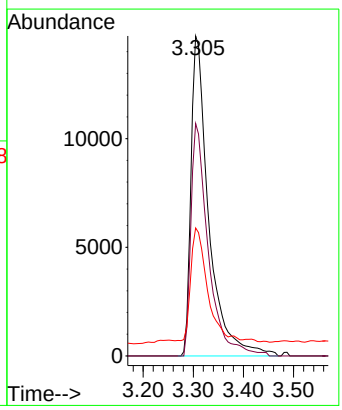


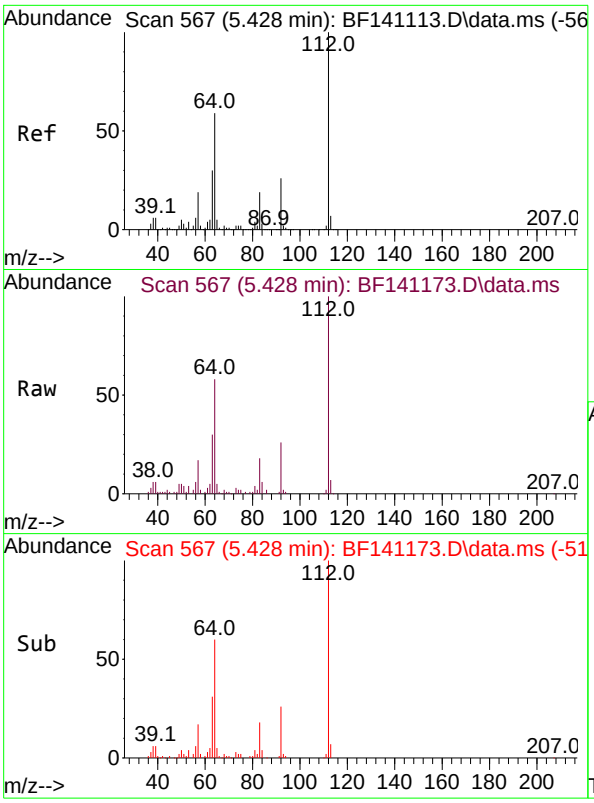


#3
Pyridine
Concen: 3.909 ng
RT: 3.305 min Scan# 206
Delta R.T. 0.024 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion: 79 Resp: 36219

Ion	Ratio	Lower	Upper
79	100		
52	72.6	58.9	88.3
51	40.0	29.1	43.7



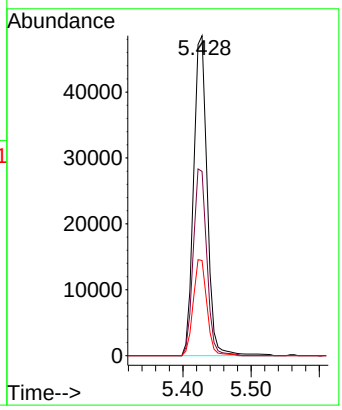


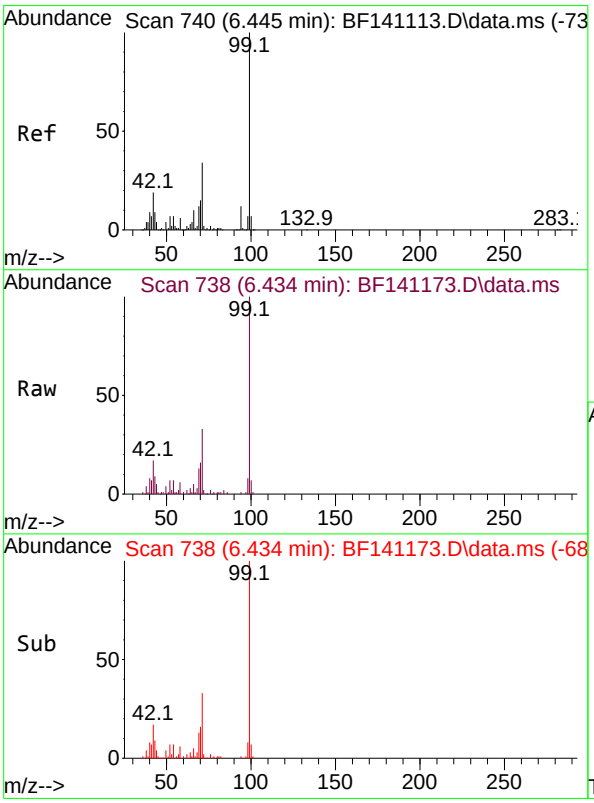
#5
2-Fluorophenol
Concen: 7.856 ng
RT: 5.428 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:112 Resp: 66661

Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.3	70.9
63	29.8	24.2	36.2

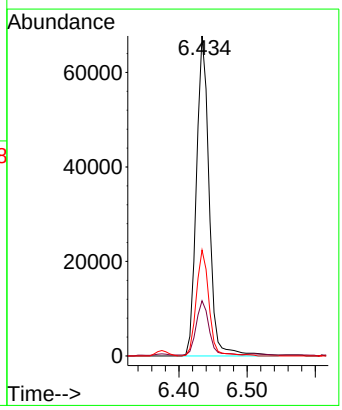


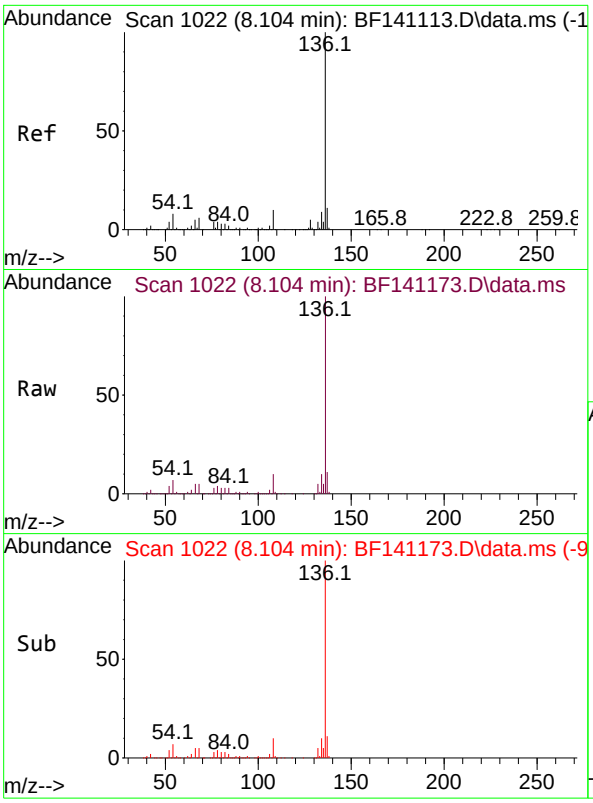


#7
Phenol-d6
Concen: 8.171 ng
RT: 6.434 min Scan# 738
Delta R.T. -0.012 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion: 99 Resp: 87820

Ion	Ratio	Lower	Upper
99	100		
42	17.2	15.0	22.4
71	33.1	27.6	41.4



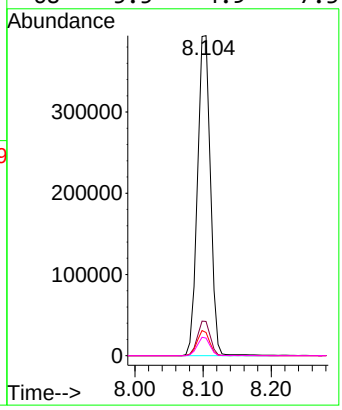


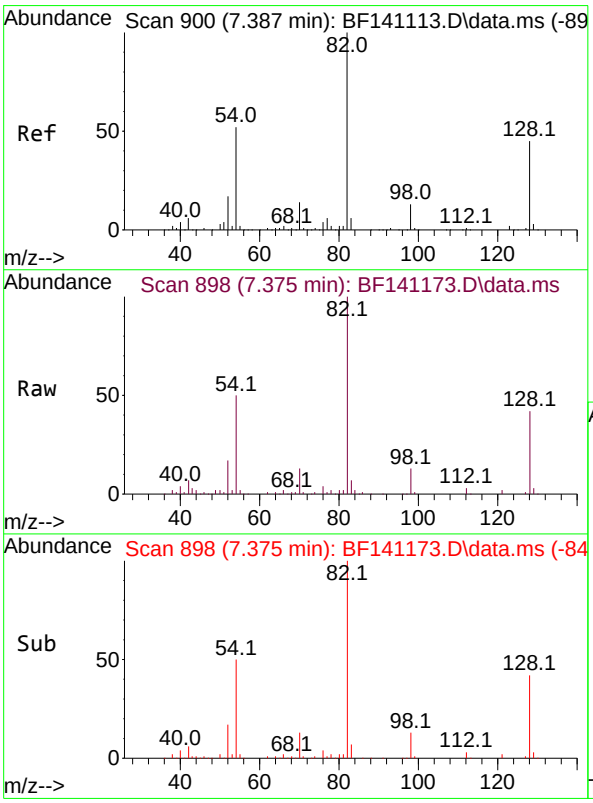
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:136 Resp: 520865

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	7.2	6.3	9.5
68	5.5	4.9	7.3

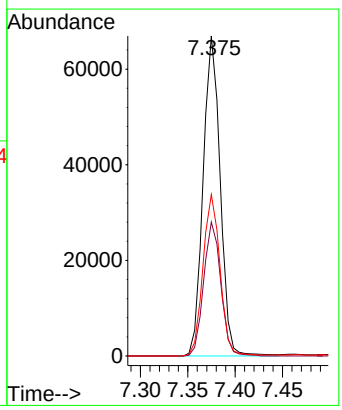


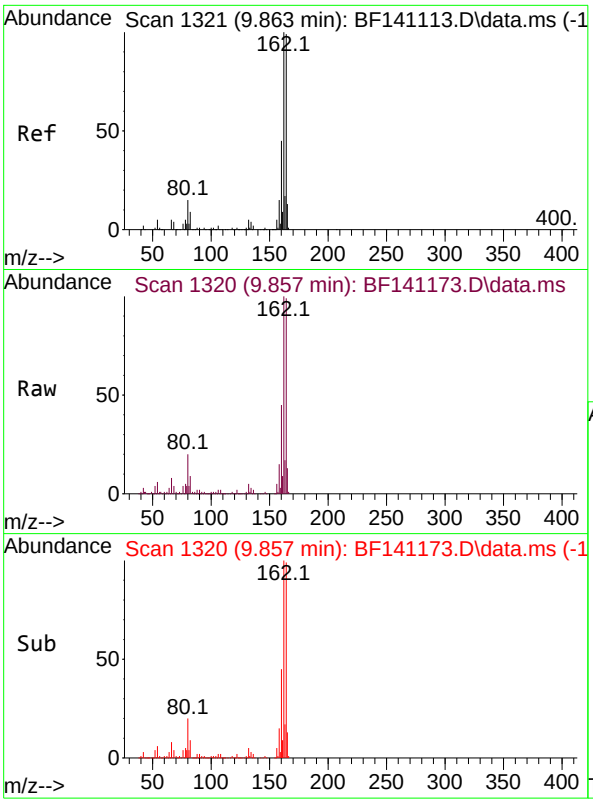


#23
Nitrobenzene-d5
Concen: 8.526 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.012 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion: 82 Resp: 83781

Ion	Ratio	Lower	Upper
82	100		
128	41.9	36.1	54.1
54	50.4	41.0	61.4



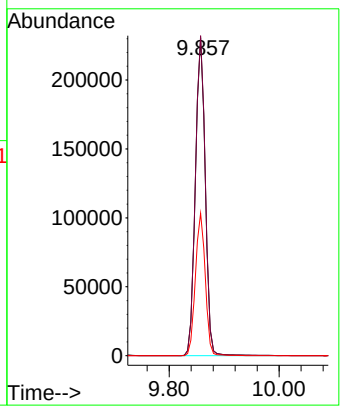


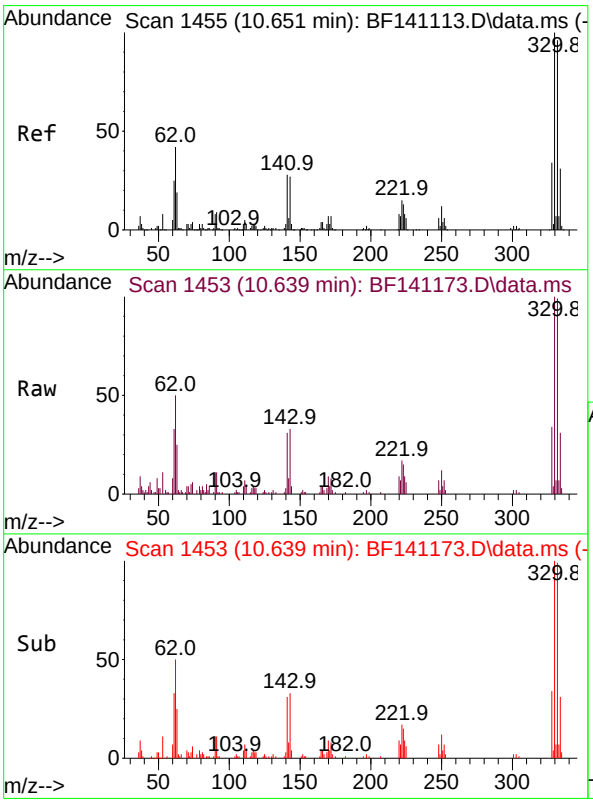
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:164 Resp: 287776

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.0	121.4
160	44.8	36.1	54.1

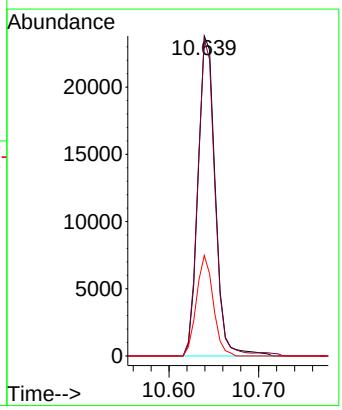


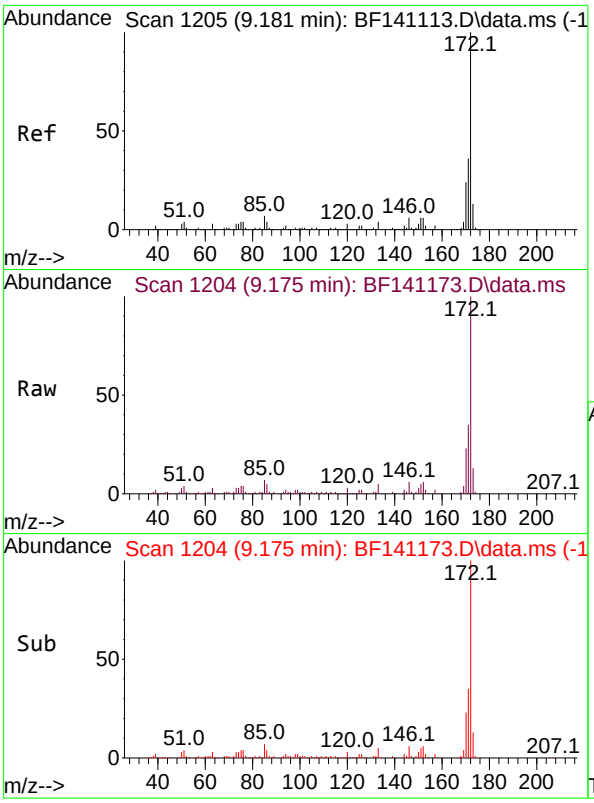


#42
2,4,6-Tribromophenol
Concen: 9.675 ng
RT: 10.639 min Scan# 1453
Delta R.T. -0.012 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion:330 Resp: 31725

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.9	115.3
141	30.5	25.2	37.8



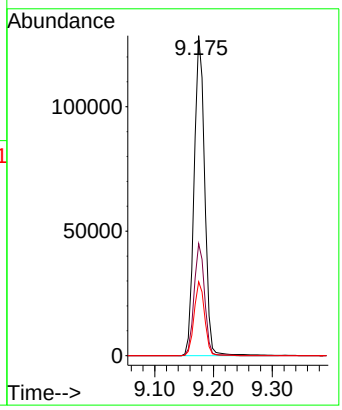


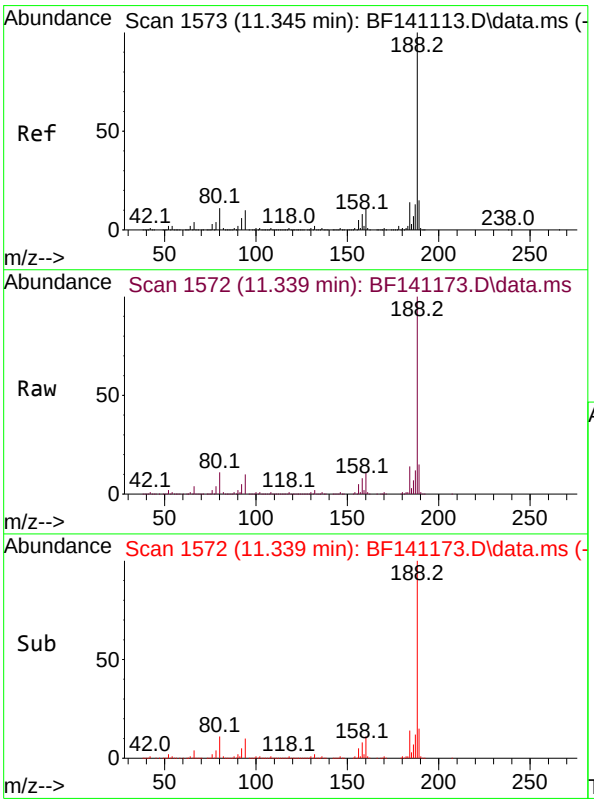
#45
2-Fluorobiphenyl
Concen: 8.526 ng
RT: 9.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:172 Resp: 160676

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.7	43.1
170	23.1	19.0	28.6

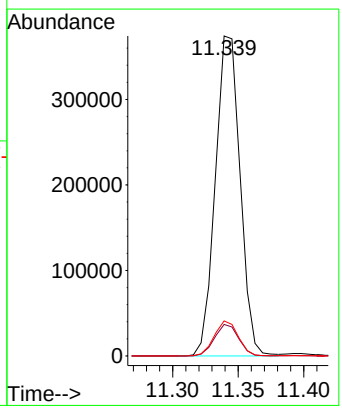


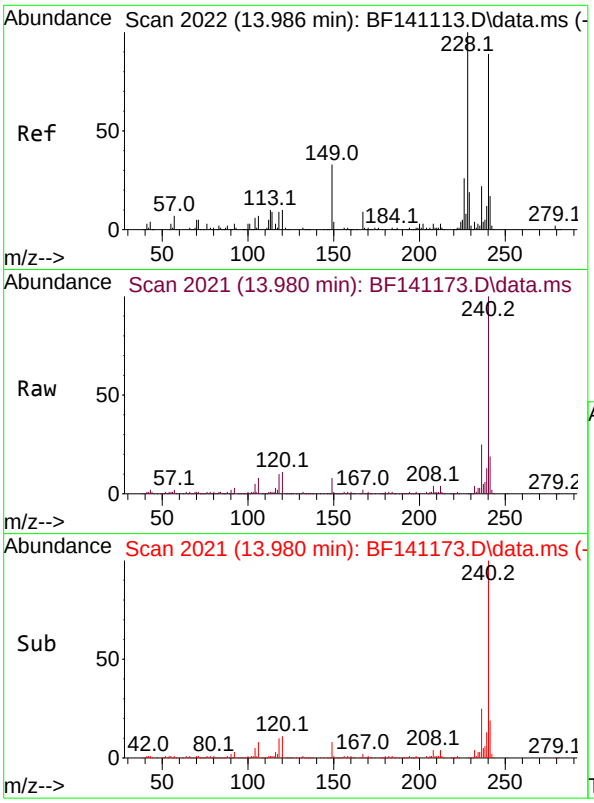


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion:188 Resp: 491216

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.3	12.5
80	11.0	9.0	13.4



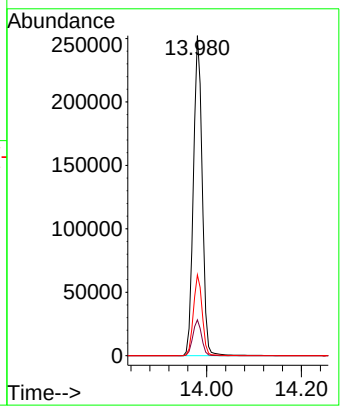


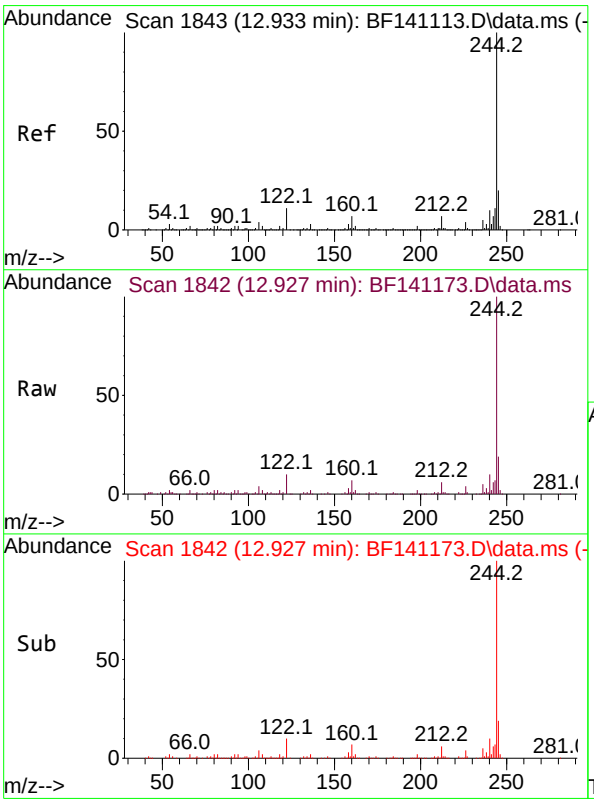
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:240 Resp: 326348

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.1	13.7
236	25.2	19.8	29.6

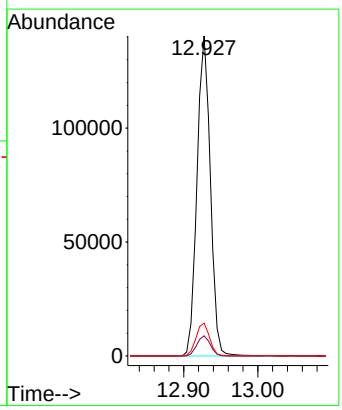


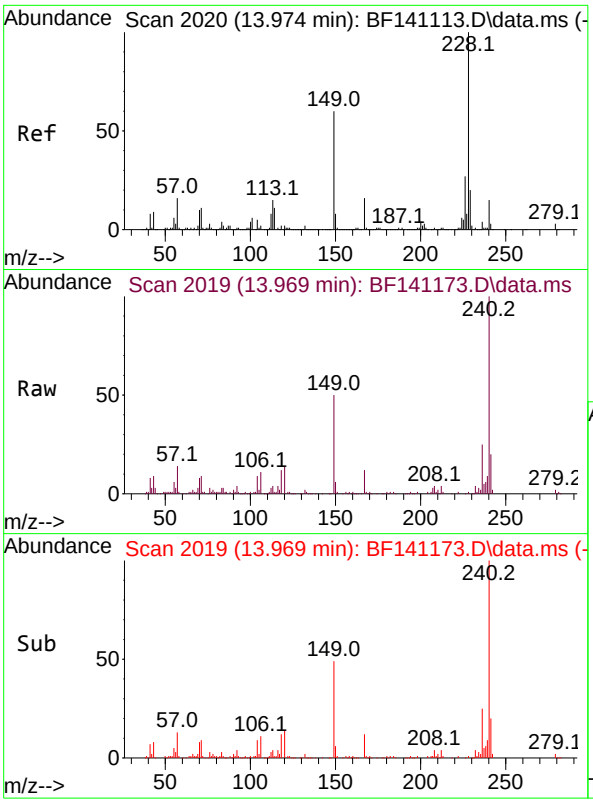


#79
Terphenyl-d14
Concen: 7.979 ng
RT: 12.927 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion:244 Resp: 175195

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.2
122	10.3	8.8	13.2



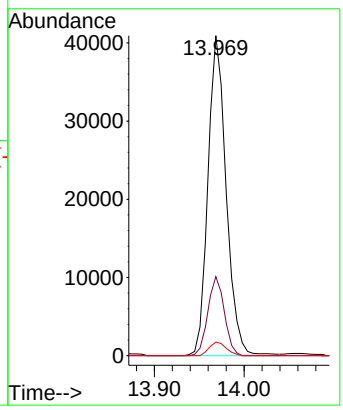


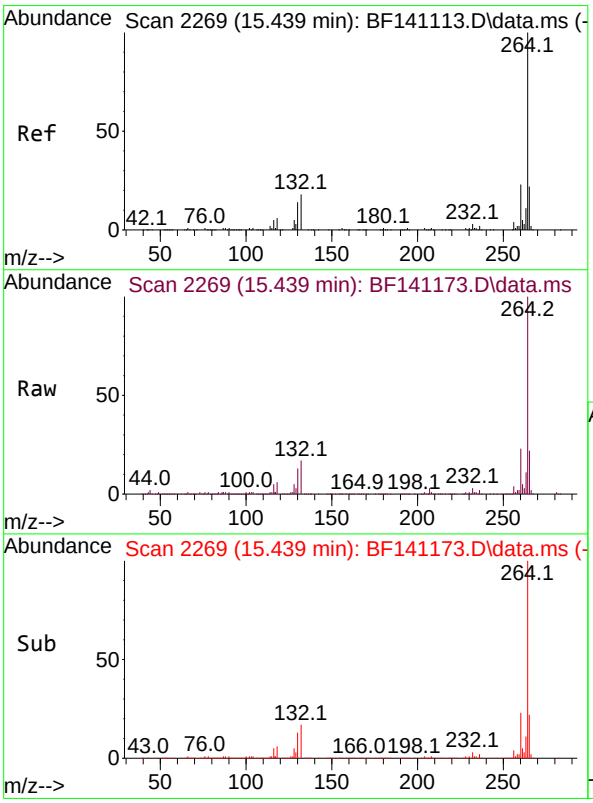
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.632 ng
RT: 13.969 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Tgt Ion:149 Resp: 57753

Ion	Ratio	Lower	Upper
149	100		
167	24.7	21.4	32.2
279	4.2	3.4	5.2

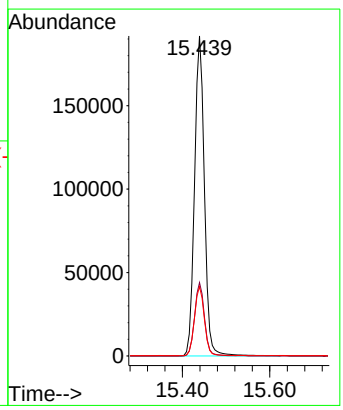




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF141173.D
Acq: 15 Jan 2025 14:13

Tgt Ion:264 Resp: 301825

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.7	17.4	26.0



Sample Results: **BF141173.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

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-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141173.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.140	3	8	26	rVB3	77456	212109	2.28%	1.001%
2	2.434	42	58	64	rBV	4564522	9304909	100.00%	43.911%
3	3.305	202	206	227	rVB	44506	107232	1.15%	0.506%
4	4.093	333	340	352	rVB	853689	1297729	13.95%	6.124%
5	4.987	484	492	496	rBV	719850	1202673	12.93%	5.676%
6	5.034	496	500	505	rVB	107577	154536	1.66%	0.729%
7	5.422	559	566	577	rBV	166432	231450	2.49%	1.092%
8	6.434	733	738	743	rBV	187589	252731	2.72%	1.193%
9	6.822	798	804	811	rBV	628178	794956	8.54%	3.751%
10	7.375	887	898	903	rBV2	199779	309188	3.32%	1.459%
11	8.098	1016	1021	1027	rBV	797984	1043340	11.21%	4.924%
12	9.175	1199	1204	1209	rBV	376437	459948	4.94%	2.171%
13	9.775	1301	1306	1315	rBV	45098	115480	1.24%	0.545%
14	9.857	1315	1320	1332	rVB	979618	1235112	13.27%	5.829%
15	10.569	1436	1441	1448	rBV	241360	298077	3.20%	1.407%
16	10.639	1448	1453	1464	rVB	185315	237804	2.56%	1.122%
17	11.339	1567	1572	1579	rBV	940278	1228022	13.20%	5.795%
18	11.869	1657	1662	1676	rBV2	156122	271441	2.92%	1.281%
19	12.657	1791	1796	1808	rBV	58592	103155	1.11%	0.487%
20	12.927	1837	1842	1851	rVB	362487	453127	4.87%	2.138%
21	13.980	2014	2021	2032	rVB2	738425	1053913	11.33%	4.974%
22	15.439	2263	2269	2284	rBV	510111	823618	8.85%	3.887%

Sum of corrected areas: 21190550

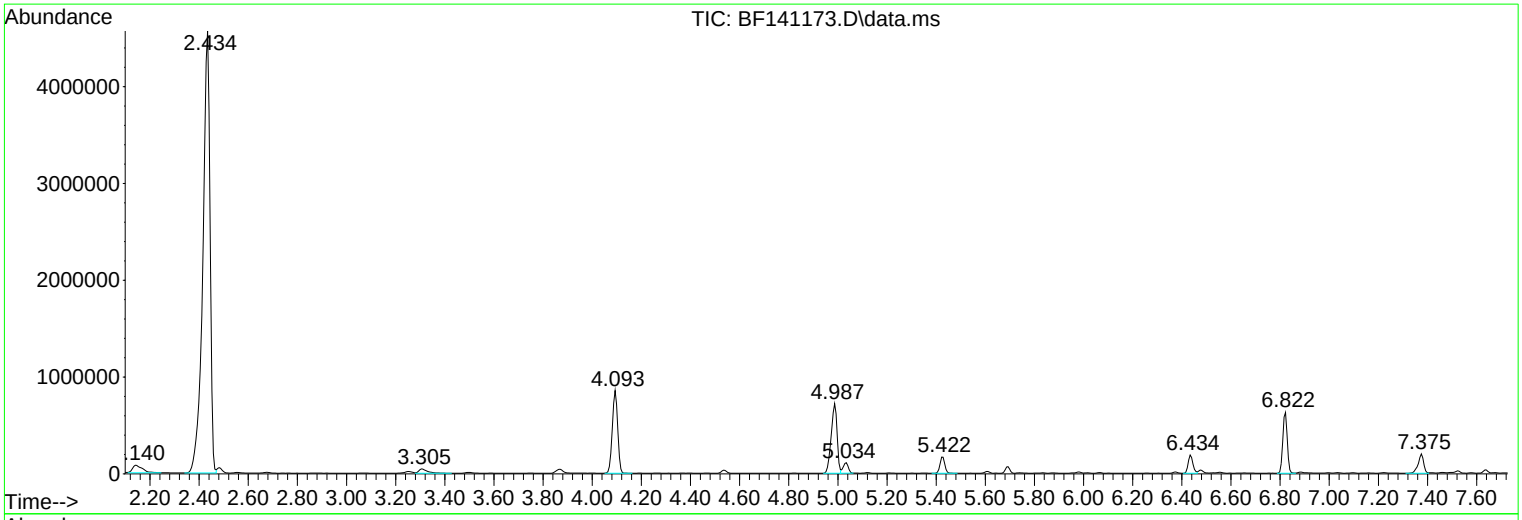
Sample Results: **BF141173.D**

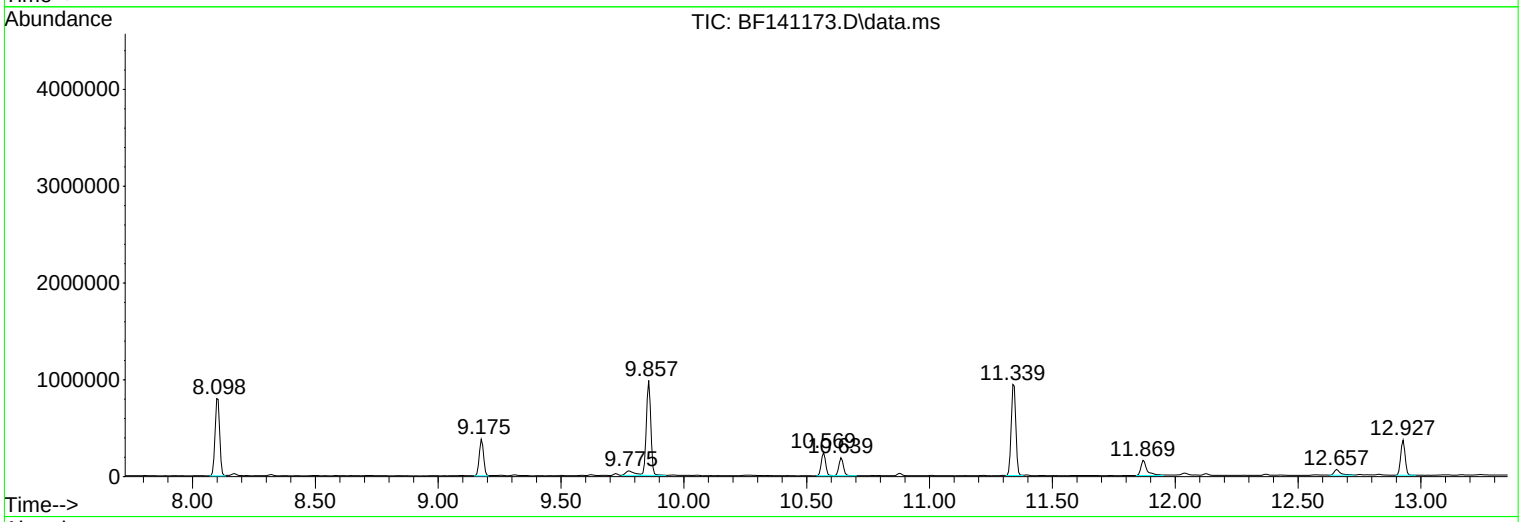
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

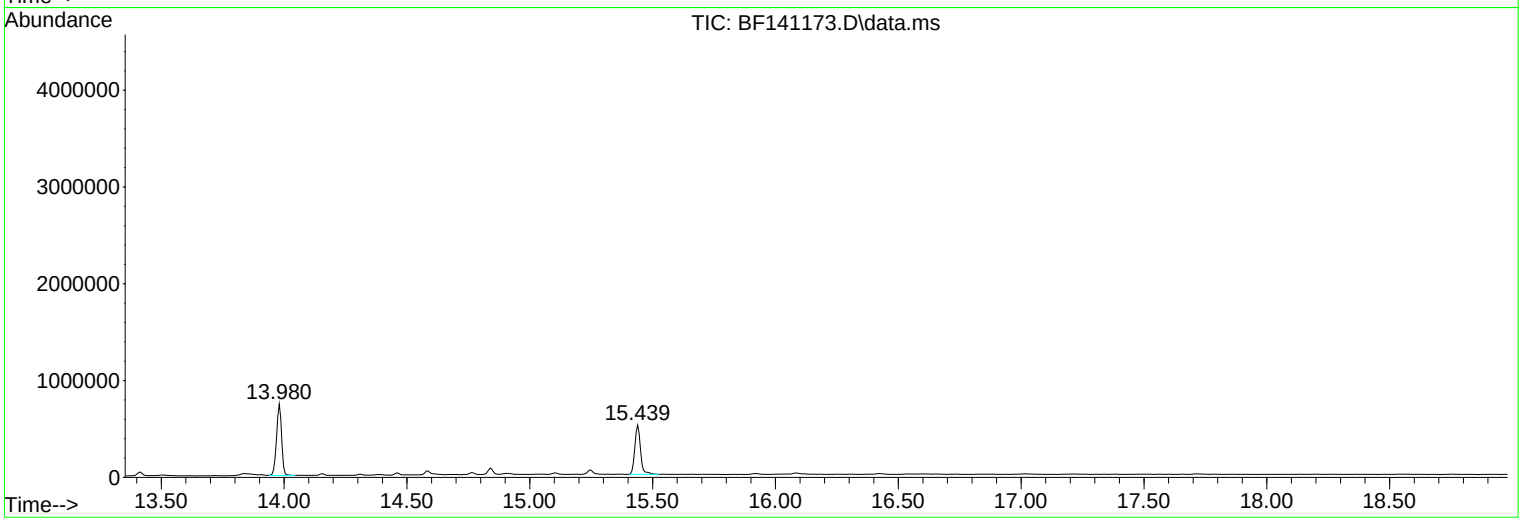
Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.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\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

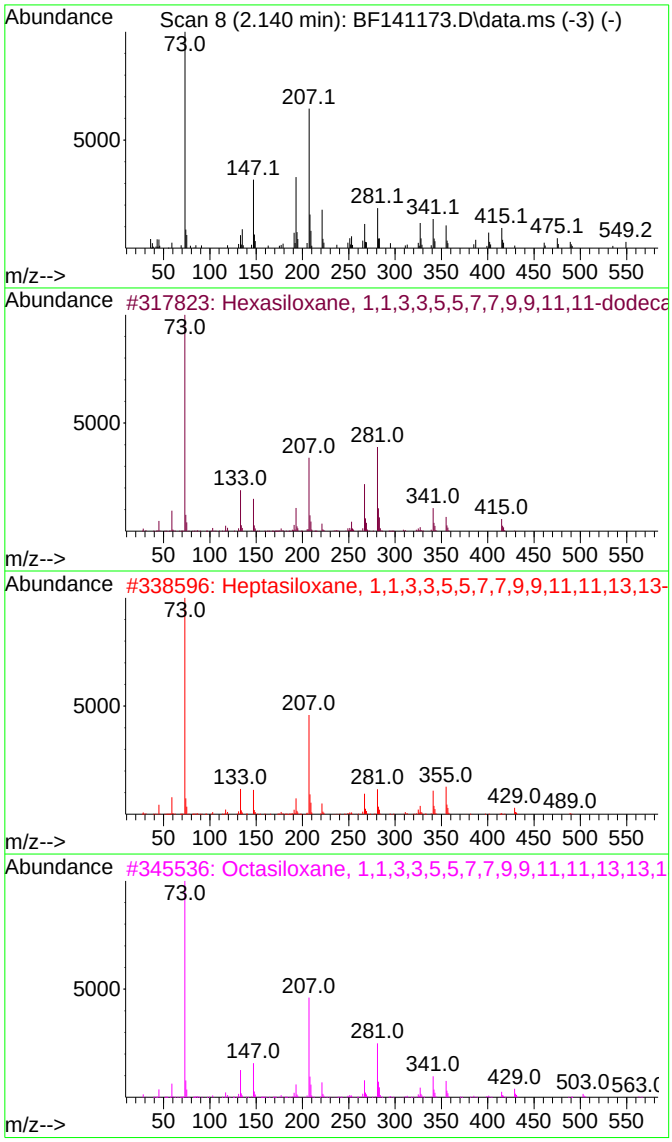
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

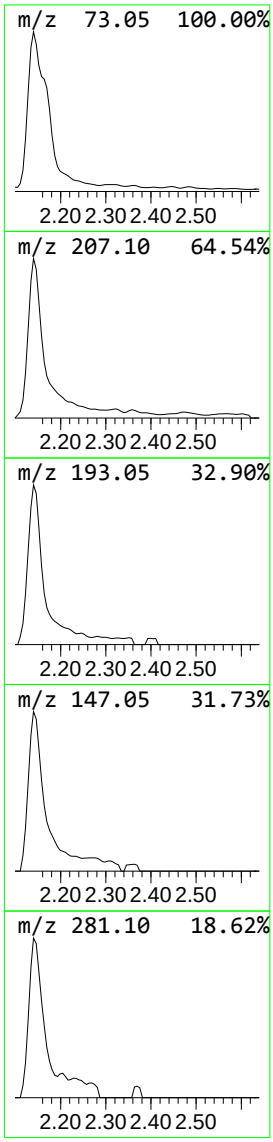
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Hexasiloxane, 1,1,3,3,5,5,7... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.140	5.34 ng	212109	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexasiloxane, 1,1,3,3,5,5,7,7,9,...	430	C12H38O5Si6	000995-82-4	59
2	Heptasiloxane, 1,1,3,3,5,5,7,7,9...	504	C14H44O6Si7	019095-23-9	58
3	Octasiloxane, 1,1,3,3,5,5,7,7,9,...	578	C16H50O7Si8	019095-24-0	40
4	Methyltris(trimethylsiloxy)silane	310	C10H30O3Si4	017928-28-8	27
5	2-(1H-Benzimidazol-2-ylthio)-N,N...	293	C14H23N3SSi	1000485-02-6	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

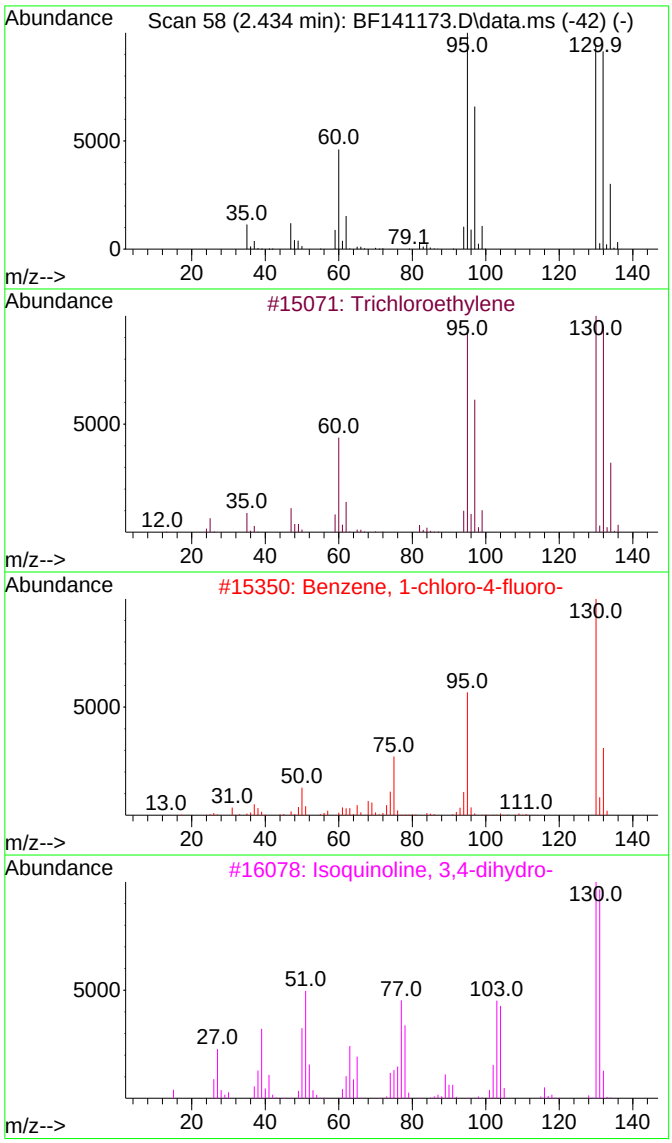
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

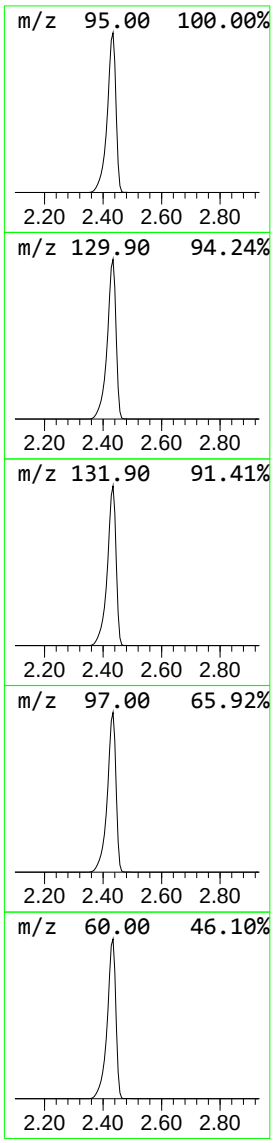
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Trichloroethylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.434	234.10 ng	9304910	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trichloroethylene	130	C2HCl3	000079-01-6	99
2	Benzene, 1-chloro-4-fluoro-	130	C6H4ClF	000352-33-0	22
3	Isoquinoline, 3,4-dihydro-	131	C9H9N	003230-65-7	12
4	1,3-Oxathiane, 4,6-dimethyl-, tr...	132	C6H12OS	022452-26-2	10
5	1H-1,2,4-Triazol-3-amine, 5-(met...	130	C3H6N4S	045534-08-5	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

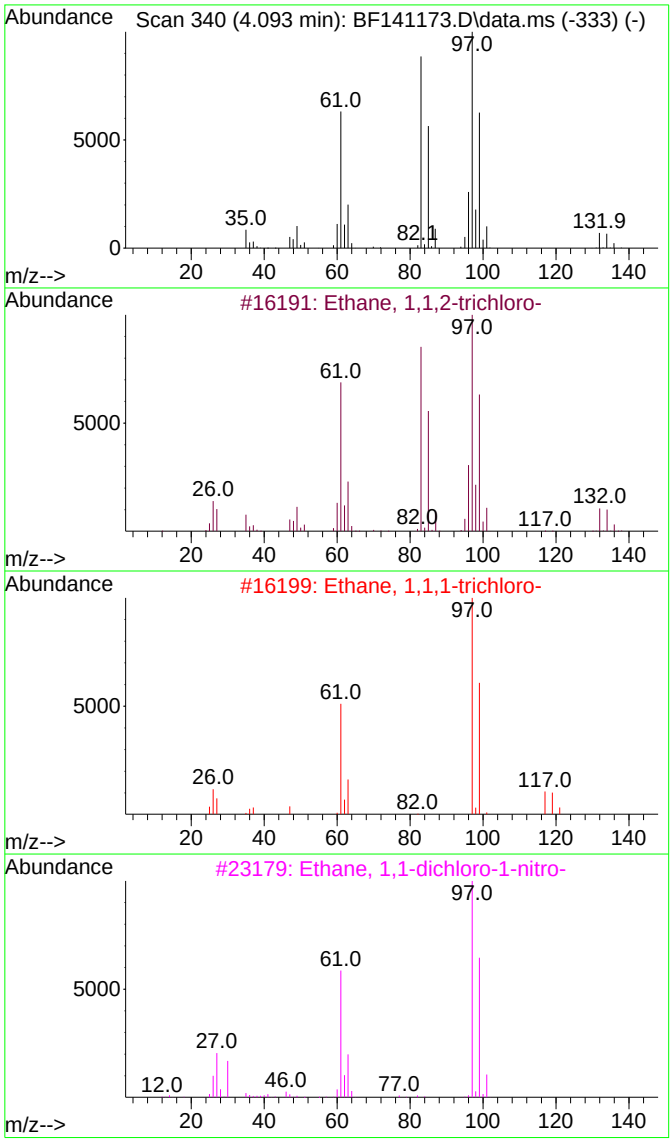
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

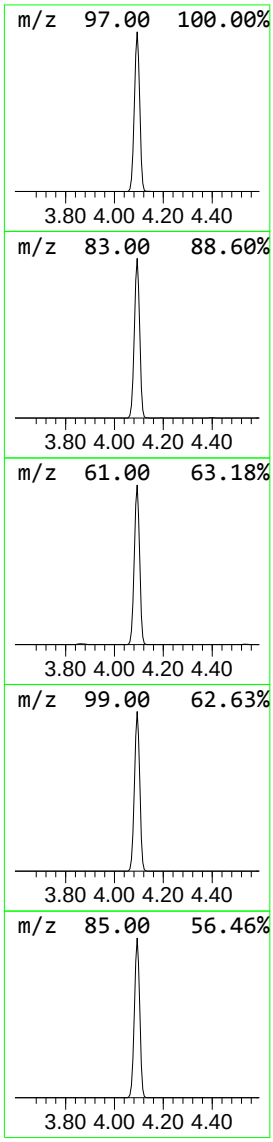
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Ethane, 1,1,2-trichloro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.093	32.65 ng	1297730	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1,2-trichloro-	132	C2H3Cl3	000079-00-5	97
2	Ethane, 1,1,1-trichloro-	132	C2H3Cl3	000071-55-6	43
3	Ethane, 1,1-dichloro-1-nitro-	143	C2H3Cl2NO2	000594-72-9	43
4	Propanoyl chloride, 2,2-dichloro-	160	C3H3Cl3O	026073-26-7	32
5	Propane, 1,2,2-trichloro-	146	C3H5Cl3	003175-23-3	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

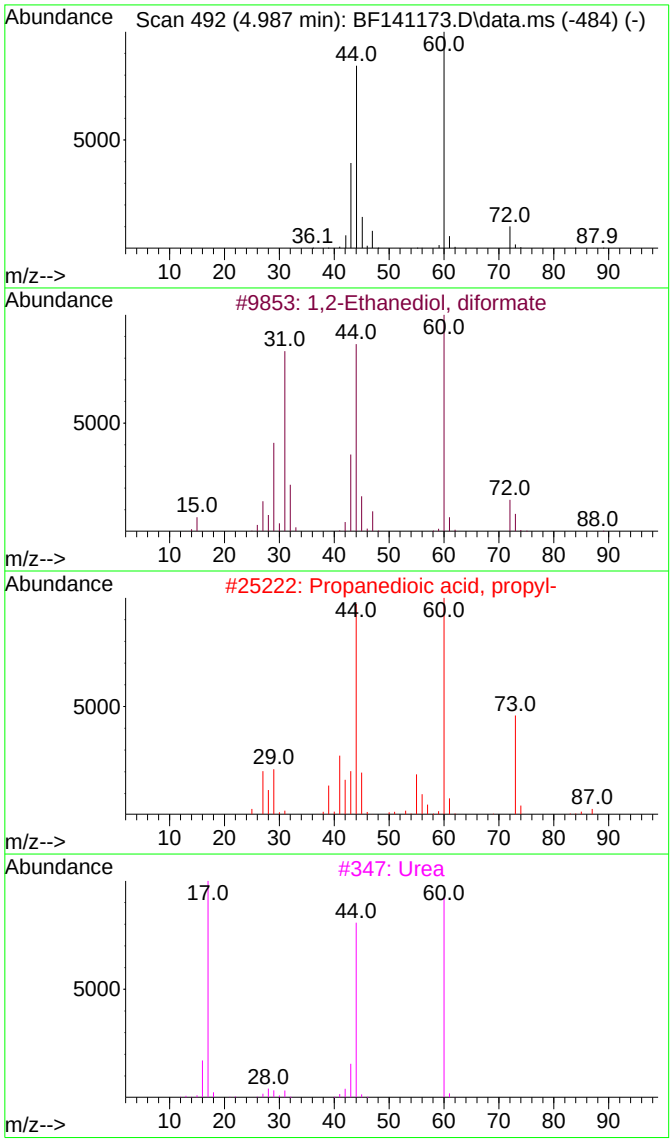
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

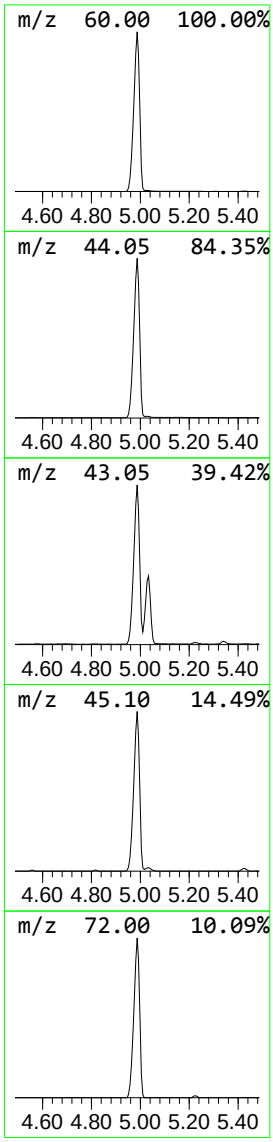
****

Peak Number 4 1,2-Ethanediol, diformate Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.987	30.26 ng	1202670	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Ethanediol, diformate	118	C4H6O4	000629-15-2	78
2	Propanedioic acid, propyl-	146	C6H10O4	000616-62-6	72
3	Urea	60	CH4N2O	000057-13-6	9
4	1,2-Propanediamine	74	C3H10N2	000078-90-0	7
5	Ethyne, chloro-	60	C2HCl	000593-63-5	7





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

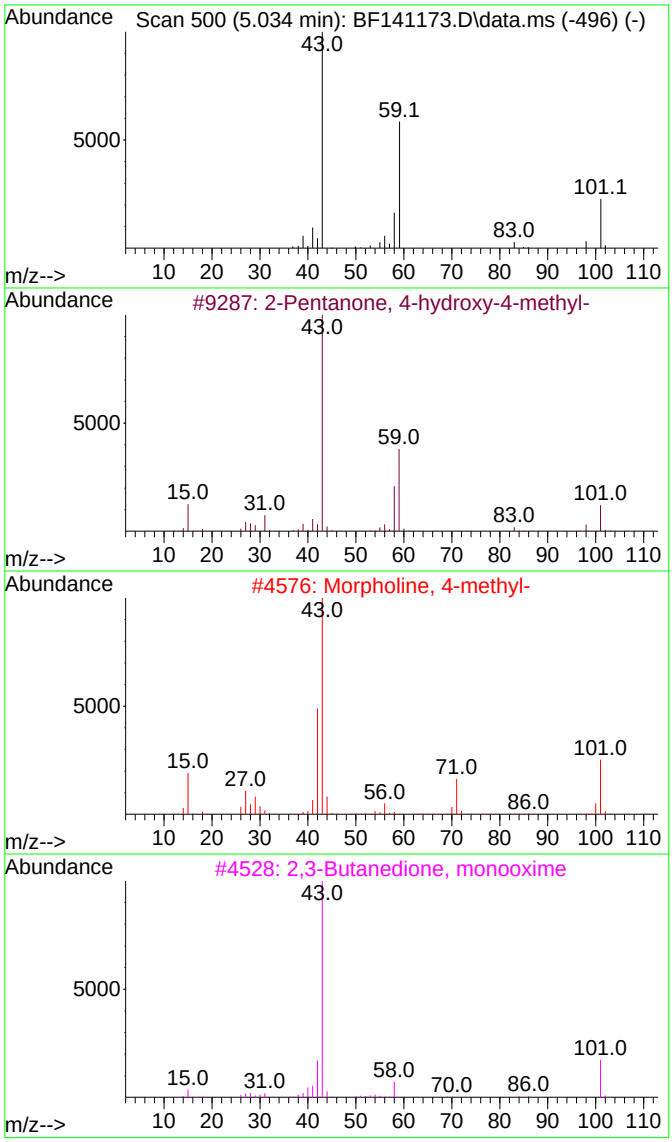
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

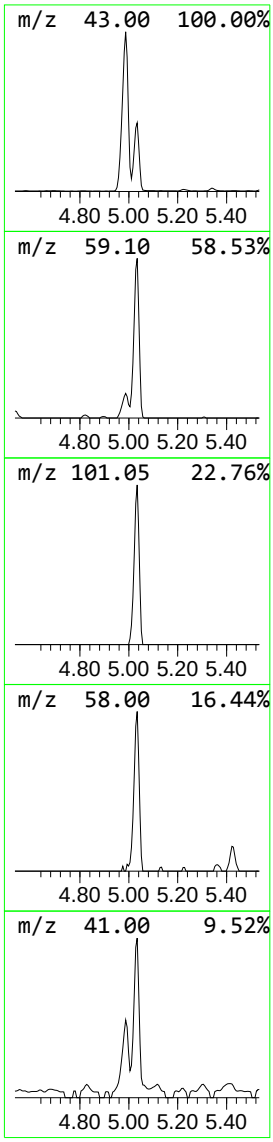
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.034	3.89 ng	154536	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	9
5	n-Propyl t-butyl ether	116	C7H16O	1000334-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

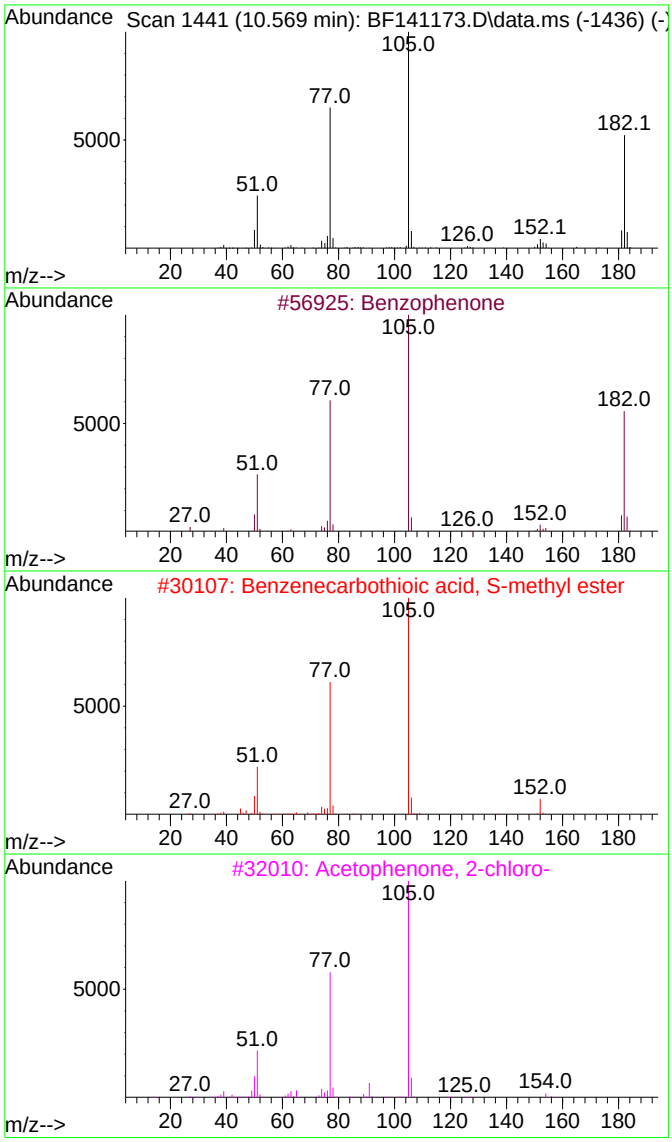
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

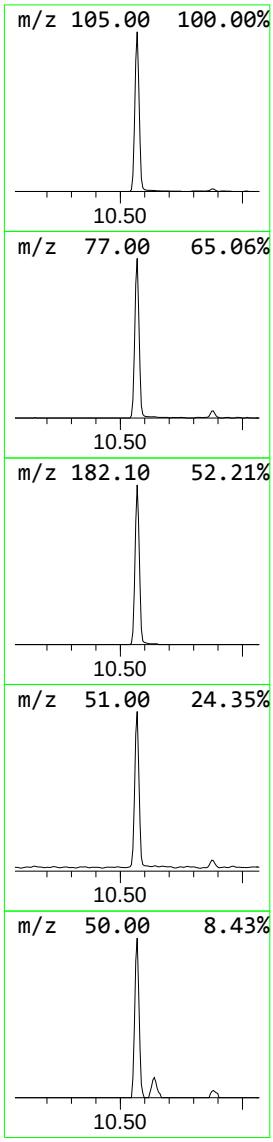
****

Peak Number 6 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.569	4.83 ng	298077	Acenaphthene-d10	9.857

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	50
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	47





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Data File : BF141173.D
Acq On    : 15 Jan 2025  14:13
Operator  : RC/JU
Sample    : Q1069-01
Misc      :
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

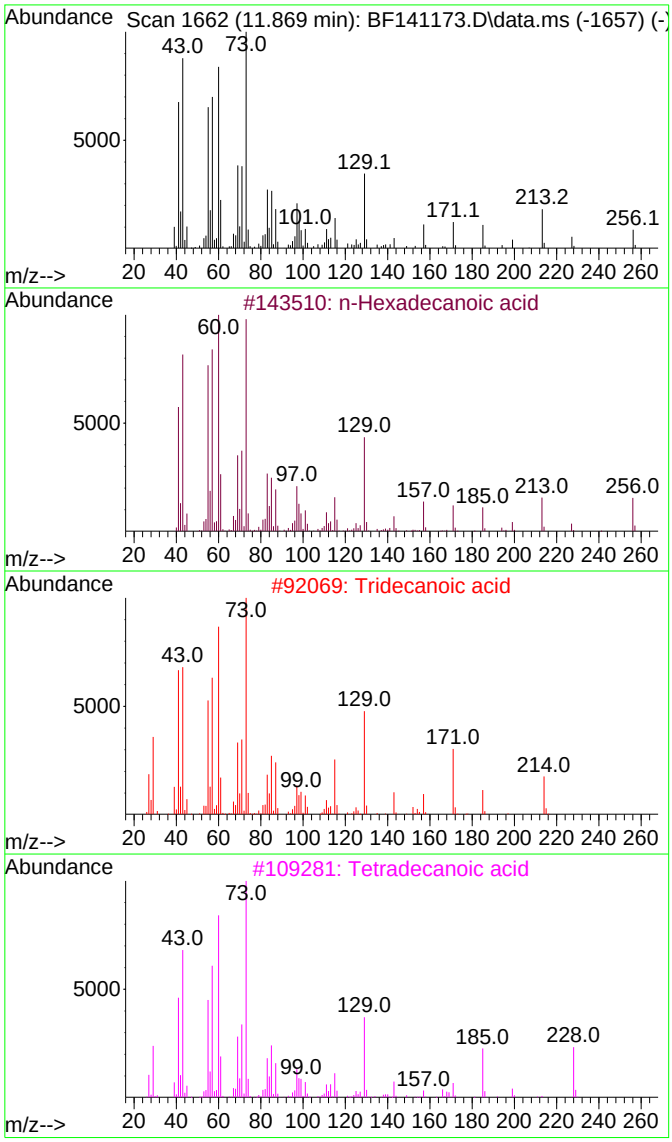
Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

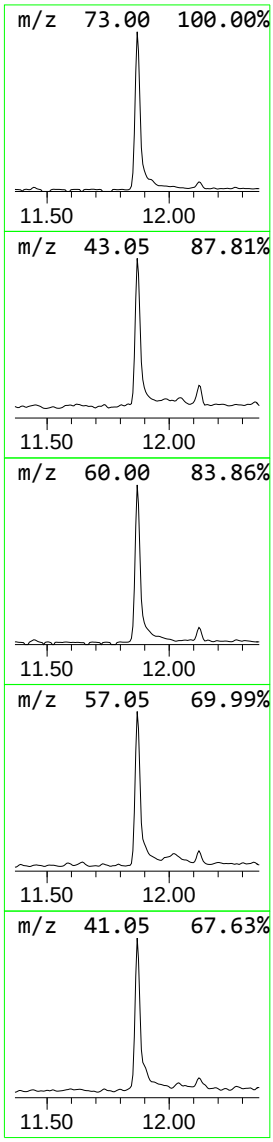
****

Peak Number 7 n-Hexadecanoic acid Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.869	4.42 ng	271441	Phenanthrene-d10	11.339

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	92
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	91
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	60





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Data File : BF141173.D
Acq On : 15 Jan 2025 14:13
Operator : RC/JU
Sample : Q1069-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexasiloxane, 1...	2.140	5.3	ng	212109	1	6.822	794956	20.0
Trichloroethylene	2.434	234.1	ng	9304910	1	6.822	794956	20.0
Ethane, 1,1,2-t...	4.093	32.6	ng	1297730	1	6.822	794956	20.0
1,2-Ethanediol,...	4.987	30.3	ng	1202670	1	6.822	794956	20.0
2-Pentanone, 4-...	5.034	3.9	ng	154536	1	6.822	794956	20.0
Benzophenone	10.569	4.8	ng	298077	3	9.857	1235110	20.0
n-Hexadecanoic ...	11.869	4.4	ng	271441	4	11.339	1228020	20.0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109RX	SDG No.:	Q1069
Lab Sample ID:	Q1069-01RX	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
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
BF141174.D	1	01/15/25 09:15	01/15/25 14:39	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	480	U	330	480	590	ug/Kg
108-95-2	Phenol	230	U	150	230	310	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	150	230	310	ug/Kg
95-57-8	2-Chlorophenol	230	U	150	230	310	ug/Kg
95-48-7	2-Methylphenol	230	U	140	230	310	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	160	230	310	ug/Kg
98-86-2	Acetophenone	230	U	160	230	310	ug/Kg
65794-96-9	3+4-Methylphenols	480	U	140	480	590	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	140	U	72.3	140	140	ug/Kg
67-72-1	Hexachloroethane	230	U	150	230	310	ug/Kg
98-95-3	Nitrobenzene	230	U	160	230	310	ug/Kg
78-59-1	Isophorone	230	U	150	230	310	ug/Kg
88-75-5	2-Nitrophenol	230	U	170	230	310	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	170	230	310	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	310	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	140	230	310	ug/Kg
91-20-3	Naphthalene	230	U	150	230	310	ug/Kg
106-47-8	4-Chloroaniline	230	U	150	230	310	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	150	230	310	ug/Kg
105-60-2	Caprolactam	480	U	160	480	590	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	140	230	310	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	150	230	310	ug/Kg
77-47-4	Hexachlorocyclopentadiene	480	UQ	280	480	590	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	130	230	310	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	130	230	310	ug/Kg
92-52-4	1,1-Biphenyl	230	U	160	230	310	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	150	230	310	ug/Kg
88-74-4	2-Nitroaniline	230	U	170	230	310	ug/Kg
131-11-3	Dimethylphthalate	230	U	150	230	310	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109RX	SDG No.:	Q1069
Lab Sample ID:	Q1069-01RX	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
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
BF141174.D	1	01/15/25 09:15	01/15/25 14:39	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	230	U	160	230	310	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	150	230	310	ug/Kg
99-09-2	3-Nitroaniline	230	U	160	230	310	ug/Kg
83-32-9	Acenaphthene	230	U	150	230	310	ug/Kg
51-28-5	2,4-Dinitrophenol	480	U	440	480	590	ug/Kg
100-02-7	4-Nitrophenol	480	U	210	480	590	ug/Kg
132-64-9	Dibenzofuran	230	U	150	230	310	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	150	230	310	ug/Kg
84-66-2	Diethylphthalate	230	U	140	230	310	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	150	230	310	ug/Kg
86-73-7	Fluorene	230	U	150	230	310	ug/Kg
100-01-6	4-Nitroaniline	230	U	190	230	310	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	480	U	210	480	590	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	150	230	310	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	140	230	310	ug/Kg
118-74-1	Hexachlorobenzene	230	U	150	230	310	ug/Kg
1912-24-9	Atrazine	230	UQ	160	230	310	ug/Kg
87-86-5	Pentachlorophenol	480	U	140	480	590	ug/Kg
85-01-8	Phenanthrene	230	U	150	230	310	ug/Kg
120-12-7	Anthracene	230	U	150	230	310	ug/Kg
86-74-8	Carbazole	230	U	140	230	310	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	150	230	310	ug/Kg
206-44-0	Fluoranthene	230	U	150	230	310	ug/Kg
129-00-0	Pyrene	230	U	150	230	310	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	170	230	310	ug/Kg
91-94-1	3,3-Dichlorobenzidine	480	U	180	480	590	ug/Kg
56-55-3	Benzo(a)anthracene	230	U	140	230	310	ug/Kg
218-01-9	Chrysene	230	U	140	230	310	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	560		160	230	310	ug/Kg
117-84-0	Di-n-octyl phthalate	210	J	200	480	590	ug/Kg
205-99-2	Benzo(b)fluoranthene	230	U	150	230	310	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/09/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/09/25
Client Sample ID:	RW7B-CARBON-20250109RX	SDG No.:	Q1069
Lab Sample ID:	Q1069-01RX	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	55.6
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
BF141174.D	1	01/15/25 09:15	01/15/25 14:39	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	230	U	150	230	310	ug/Kg
50-32-8	Benzo(a)pyrene	230	U	170	230	310	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	230	U	140	230	310	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	150	230	310	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	U	140	230	310	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	160	230	310	ug/Kg
123-91-1	1,4-Dioxane	230	U	200	230	310	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	130	230	310	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	49.5	*	35 - 115		33%	SPK: 150
13127-88-3	Phenol-d6	48.3	*	34 - 127		32%	SPK: 150
4165-60-0	Nitrobenzene-d5	38.0		37 - 122		38%	SPK: 100
321-60-8	2-Fluorobiphenyl	39.2	*	44 - 115		39%	SPK: 100
118-79-6	2,4,6-Tribromophenol	50.3	*	39 - 132		34%	SPK: 150
1718-51-0	Terphenyl-d14	28.7	*	54 - 127		29%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	131000	6.822				
1146-65-2	Naphthalene-d8	511000	8.104				
15067-26-2	Acenaphthene-d10	278000	9.857				
1517-22-2	Phenanthrene-d10	450000	11.339				
1719-03-5	Chrysene-d12	281000	13.98				
1520-96-3	Perylene-d12	283000	15.439				

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\BF011525\
Data File : BF141174.D
Acq On : 15 Jan 2025 14:39
Operator : RC/JU
Sample : Q1069-01RX
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Quant Time: Jan 15 15:17:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

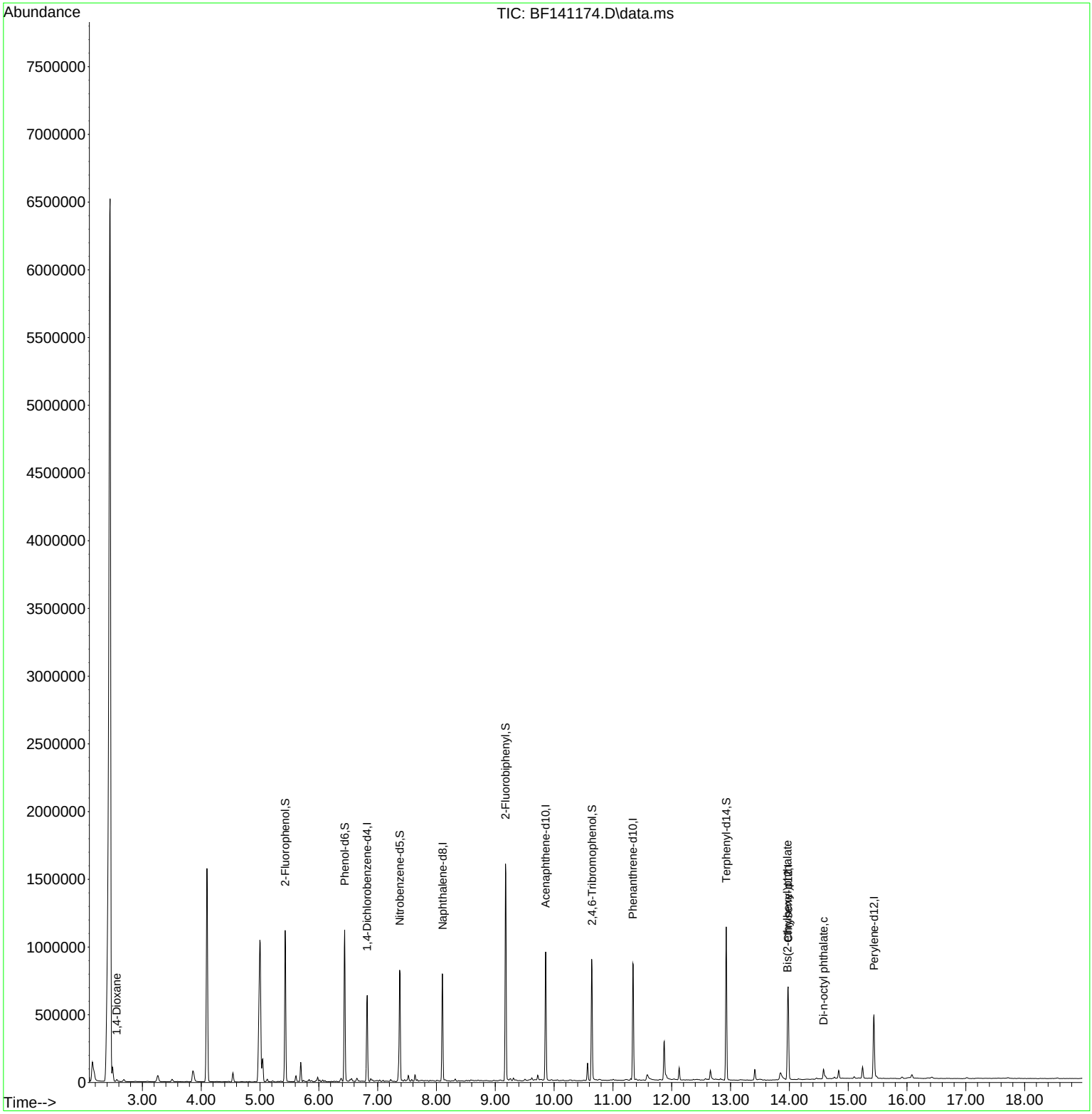
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	130568	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	511298	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	277574	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	450100	20.000	ng	0.00
76) Chrysene-d12	13.980	240	280945	20.000	ng	0.00
86) Perylene-d12	15.439	264	283392	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	418792	49.549	ng	0.00
7) Phenol-d6	6.439	99	517567	48.342	ng	0.00
23) Nitrobenzene-d5	7.375	82	366655	38.013	ng	-0.01
42) 2,4,6-Tribromophenol	10.645	330	159084	50.299	ng	0.00
45) 2-Fluorobiphenyl	9.175	172	712202	39.181	ng	0.00
79) Terphenyl-d14	12.927	244	542897	28.721	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.563	88	8683	2.307	ng	98
84) Bis(2-ethylhexyl)phtha...	13.968	149	101289	9.436	ng	98
85) Di-n-octyl phthalate	14.580	149	56716	3.499	ng	96

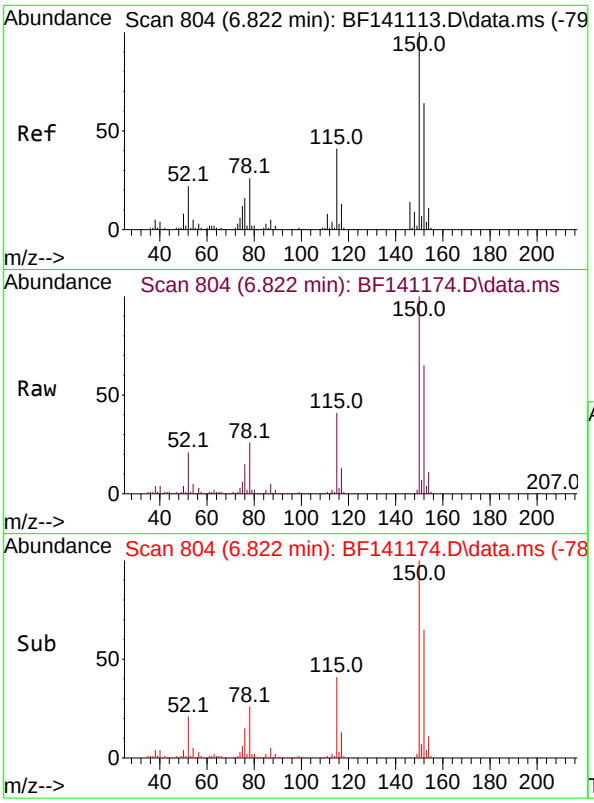
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141174.D
Acq On : 15 Jan 2025 14:39
Operator : RC/JU
Sample : Q1069-01RX
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Quant Time: Jan 15 15:17:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



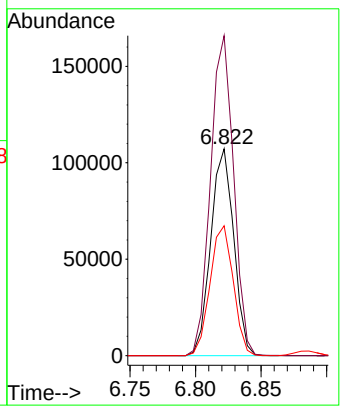


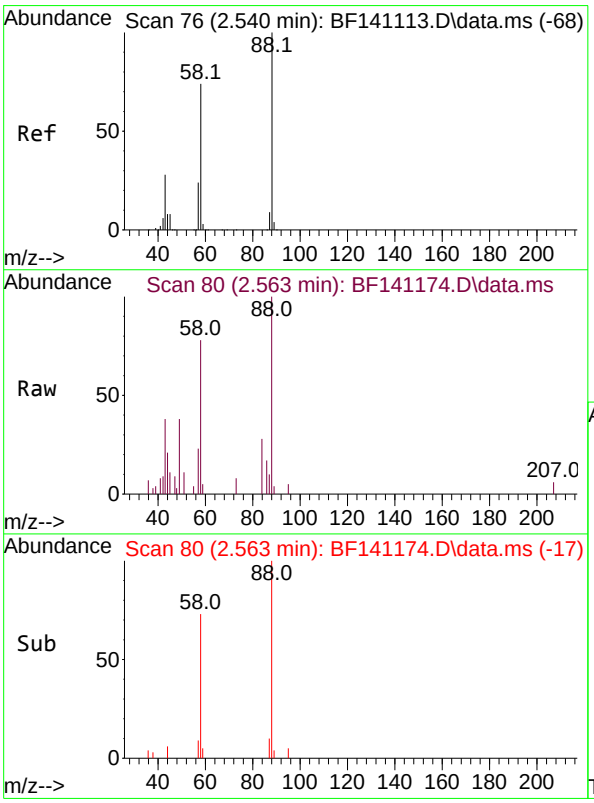
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:152 Resp: 130568

Ion	Ratio	Lower	Upper
152	100		
150	154.7	125.8	188.8
115	62.8	51.4	77.2

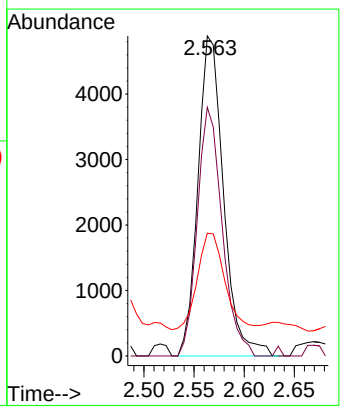


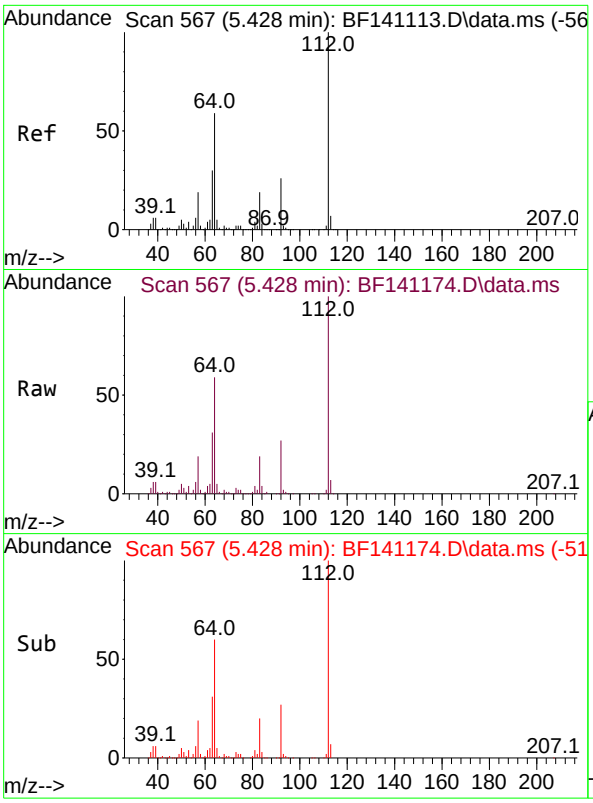


#2
1,4-Dioxane
Concen: 2.307 ng
RT: 2.563 min Scan# 80
Delta R.T. 0.023 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion: 88 Resp: 8683

Ion	Ratio	Lower	Upper
88	100		
58	75.5	60.1	90.1
43	32.1	23.1	34.7



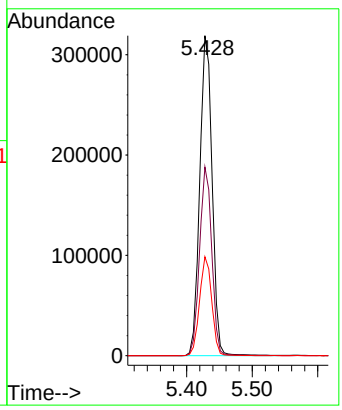


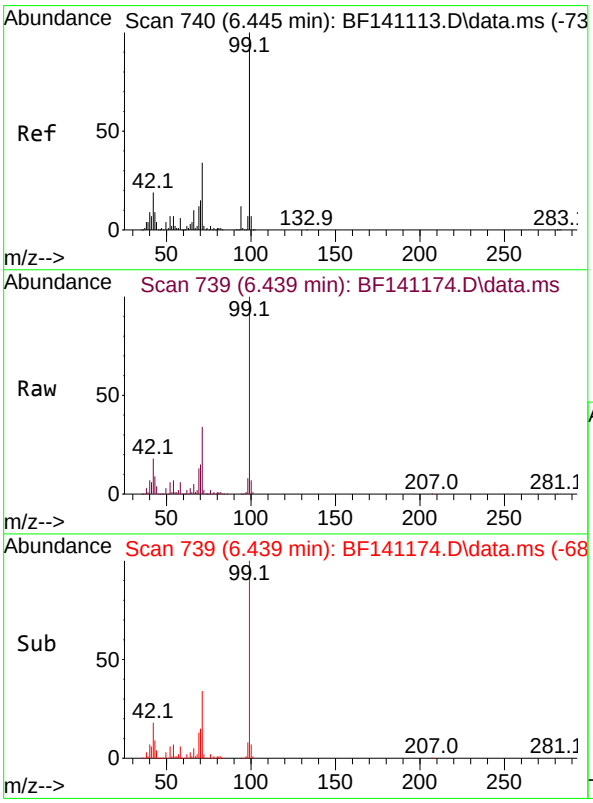
#5
2-Fluorophenol
Concen: 49.549 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:112 Resp: 418792

Ion	Ratio	Lower	Upper
112	100		
64	59.0	47.3	70.9
63	30.9	24.2	36.2

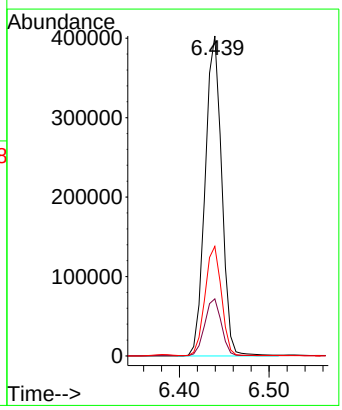


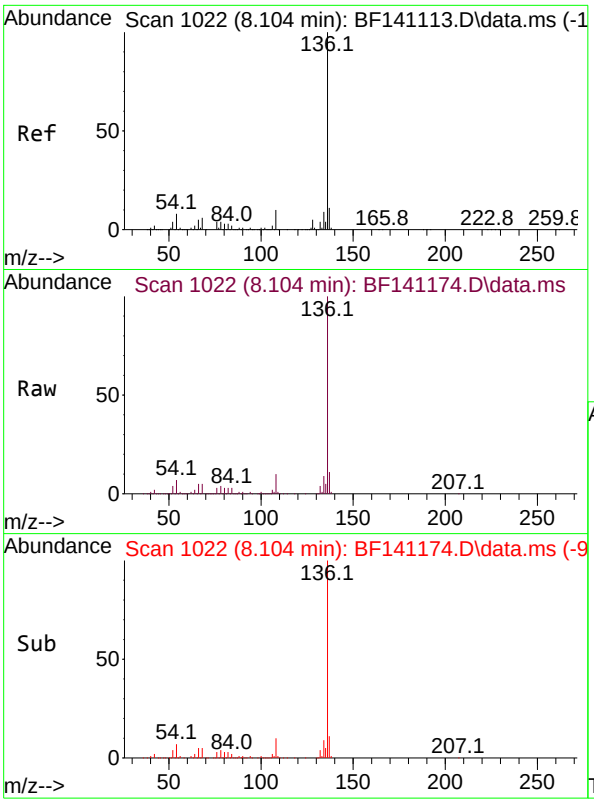


#7
Phenol-d6
Concen: 48.342 ng
RT: 6.439 min Scan# 739
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion: 99 Resp: 517567

Ion	Ratio	Lower	Upper
99	100		
42	17.9	15.0	22.4
71	34.2	27.6	41.4



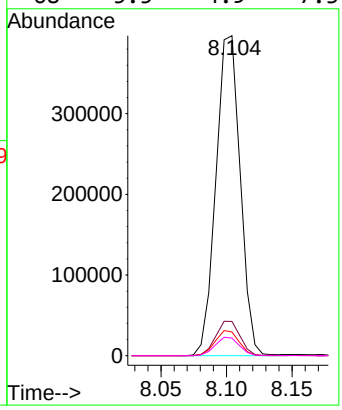


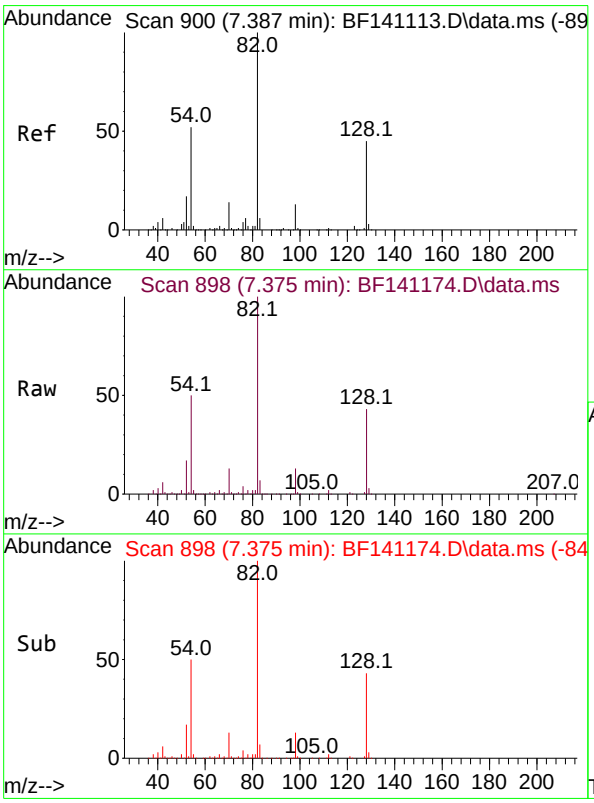
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:136 Resp: 511298

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	7.4	6.3	9.5
68	5.5	4.9	7.3

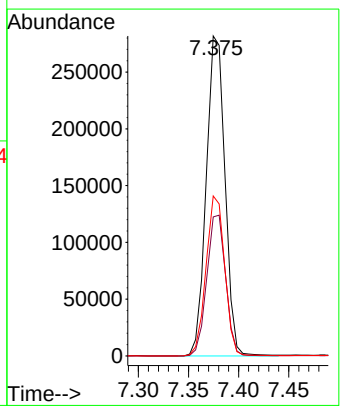


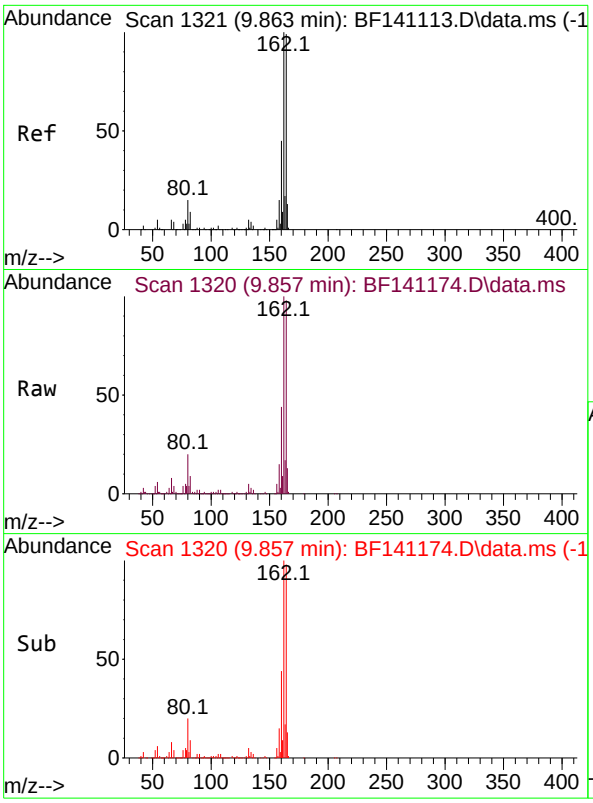


#23
Nitrobenzene-d5
Concen: 38.013 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.012 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion: 82 Resp: 366655

Ion	Ratio	Lower	Upper
82	100		
128	43.4	36.1	54.1
54	50.0	41.0	61.4



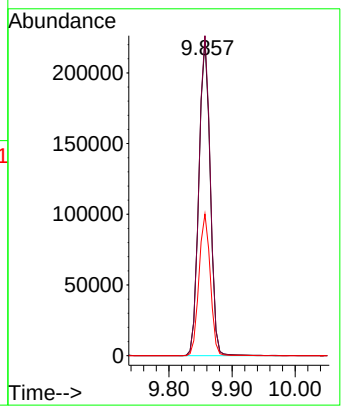


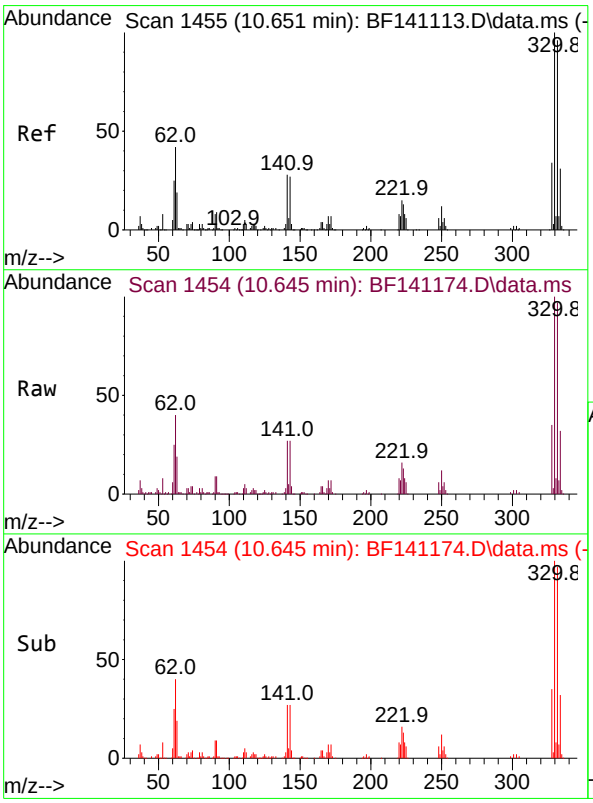
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:164 Resp: 277574

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.0	121.4
160	45.0	36.1	54.1

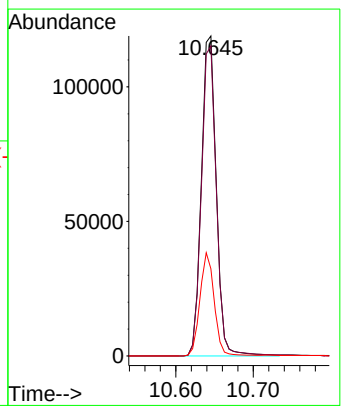


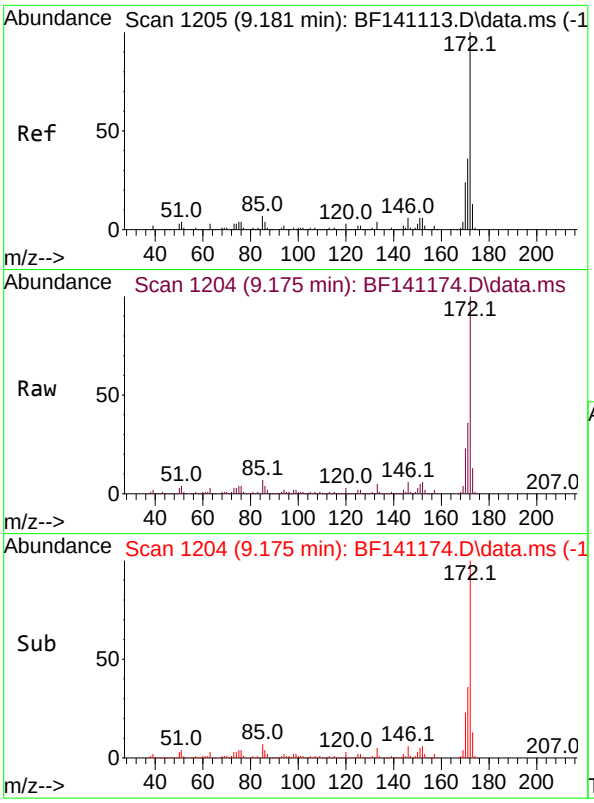


#42
2,4,6-Tribromophenol
Concen: 50.299 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion:330 Resp: 159084

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.9	115.3
141	30.9	25.2	37.8



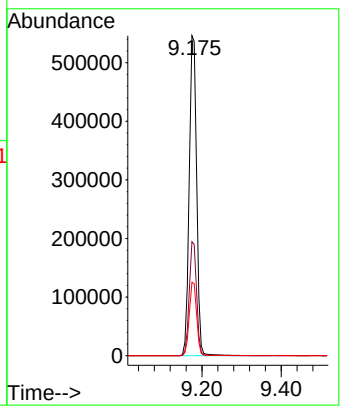


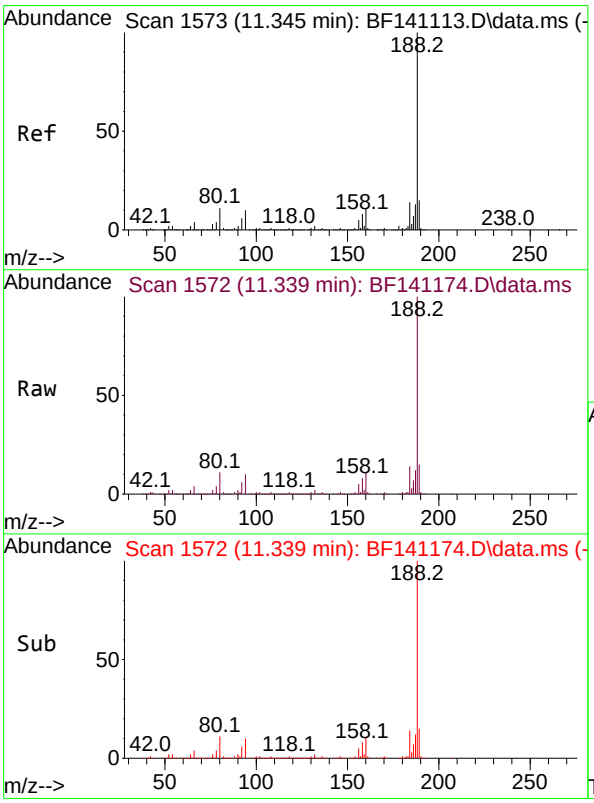
#45
2-Fluorobiphenyl
Concen: 39.181 ng
RT: 9.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:172 Resp: 712202

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.0	19.0	28.6

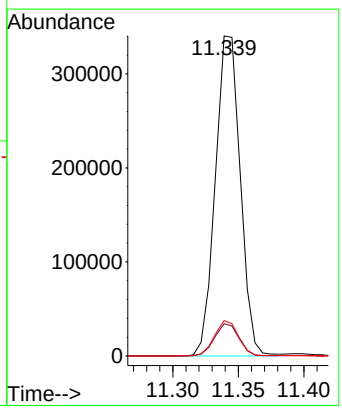


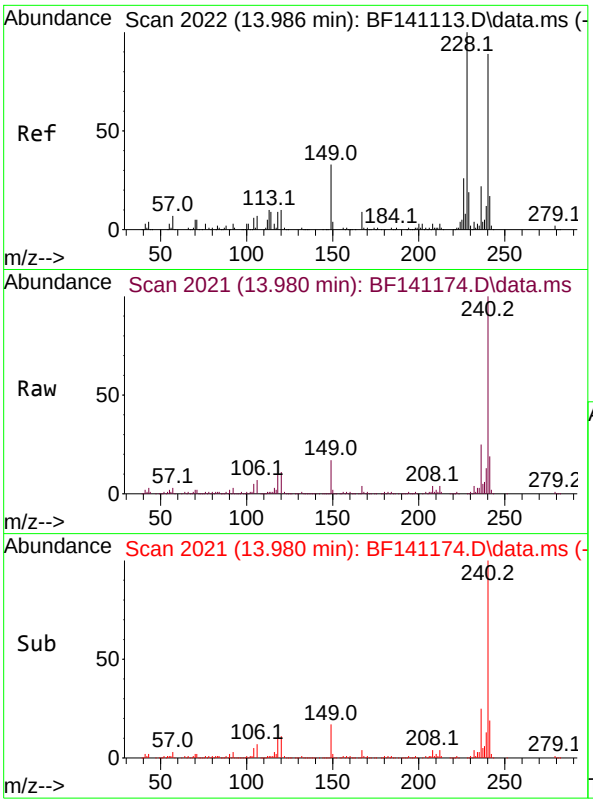


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion:188 Resp: 450100

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.3	12.5
80	11.0	9.0	13.4



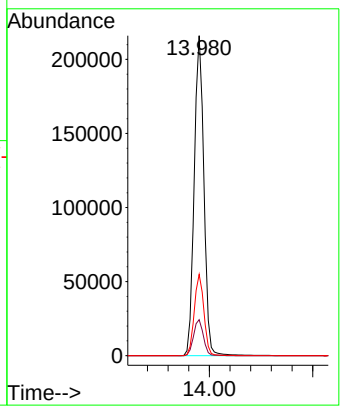


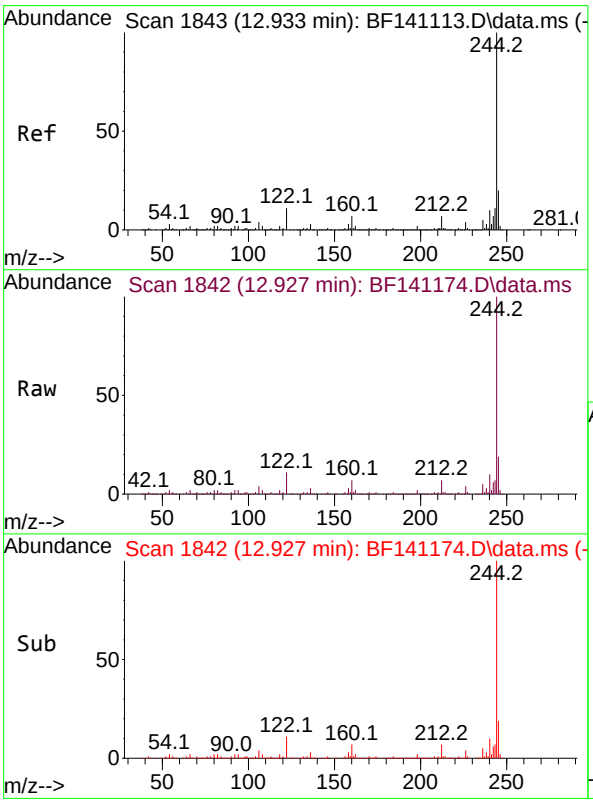
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:240 Resp: 280945

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.1	13.7
236	25.4	19.8	29.6

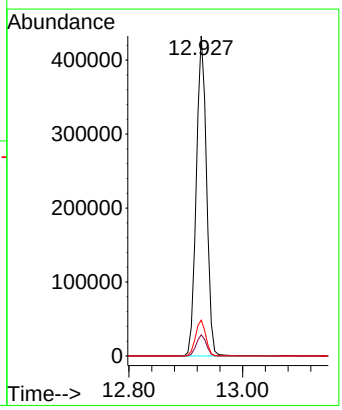


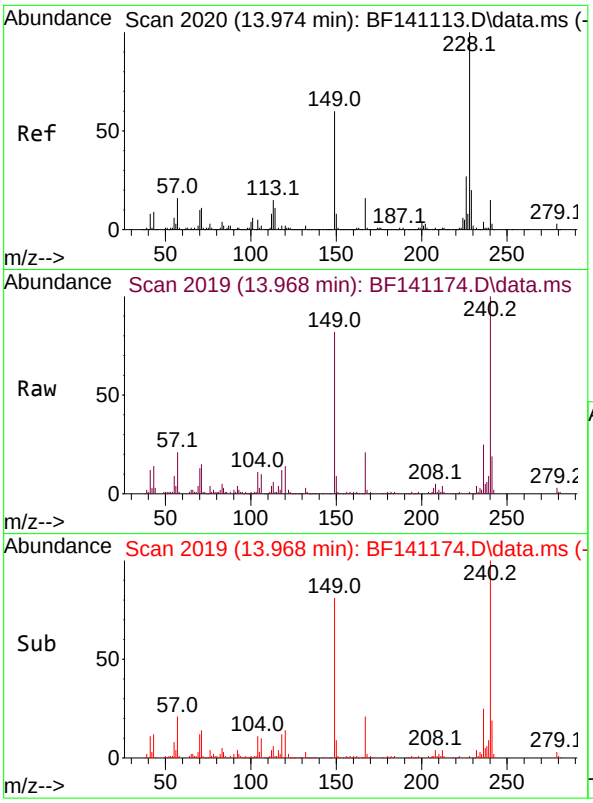


#79
Terphenyl-d14
Concen: 28.721 ng
RT: 12.927 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion:244 Resp: 542897

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	11.2	8.8	13.2



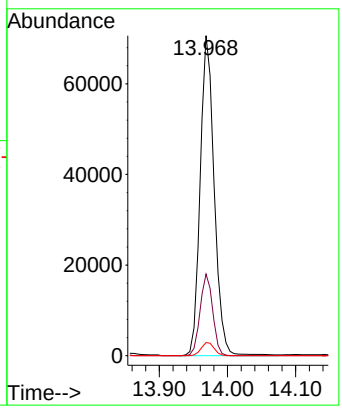


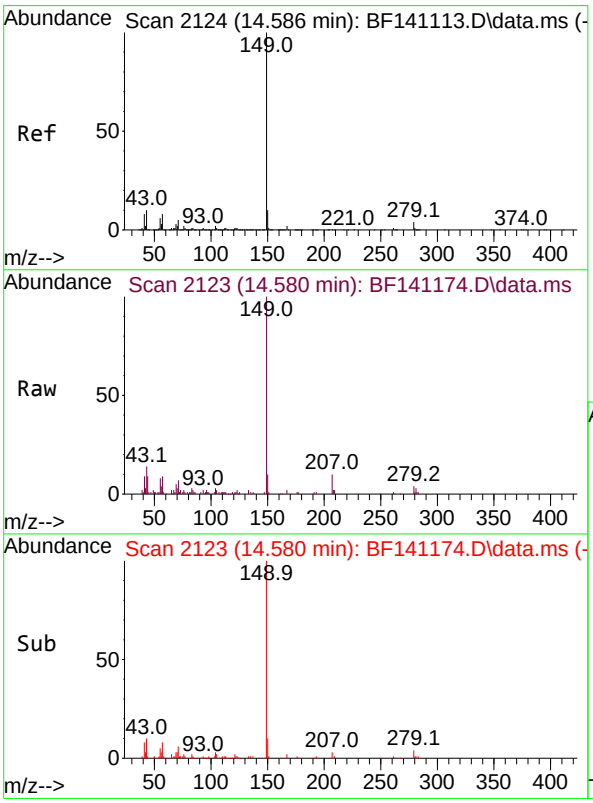
#84
Bis(2-ethylhexyl)phthalate
Concen: 9.436 ng
RT: 13.968 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:149 Resp: 101289

Ion	Ratio	Lower	Upper
149	100		
167	25.5	21.4	32.2
279	4.1	3.4	5.2

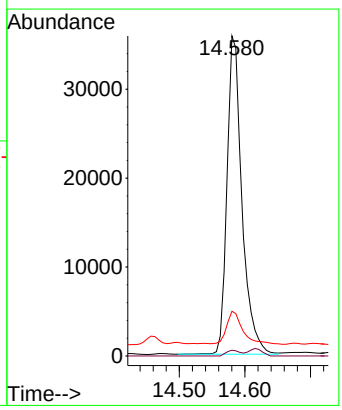


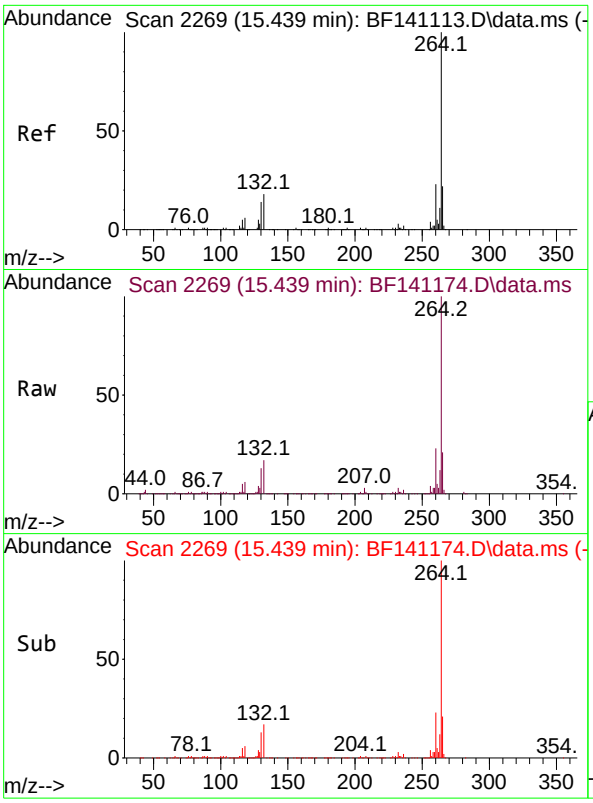


#85
Di-n-octyl phthalate
Concen: 3.499 ng
RT: 14.580 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Tgt Ion:149 Resp: 56716

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	12.2	8.4	12.6



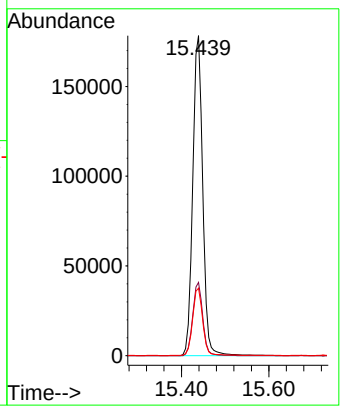


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141174.D
Acq: 15 Jan 2025 14:39

Instrument :
BNA_F
ClientSampleId :
RW7B-CARBON-20250109RX

Tgt Ion:264 Resp: 283392

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	21.1	17.4	26.0



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 10 22:54:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141109.D 5 =BF141110.D 10 =BF141111.D 20 =BF141112.D 40 =BF141113.D 50 =BF141117.D 60 =BF141118.D 80 =BF1411
19.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.616	0.596	0.598	0.563	0.573	0.564	0.525	0.577	5.24
3)		Pyridine		1.579	1.520	1.486	1.360	1.364	1.346	1.242	1.414	8.34
4)		n-Nitrosodimet...		0.716	0.715	0.709	0.678	0.688	0.688	0.644	0.691	3.71
5)	S	2-Fluorophenol		1.453	1.400	1.378	1.248	1.236	1.227	1.121	1.295	9.11
6)		Aniline		1.656	1.583	1.561	1.424	1.385	1.360	1.222	1.456	10.39
7)	S	Phenol-d6		1.834	1.773	1.736	1.566	1.569	1.547	1.454	1.640	8.56
8)		2-Chlorophenol		1.561	1.476	1.458	1.345	1.338	1.321	1.225	1.389	8.20
9)		Benzaldehyde		1.215	1.139	1.040	0.849	0.782	0.771		0.966	19.81
10)	C	Phenol		1.943	1.902	1.861	1.701	1.665	1.668	1.548	1.756	8.38
11)		bis(2-Chloroet...		1.445	1.372	1.363	1.256	1.279	1.264	1.178	1.308	6.86
12)		1,3-Dichlorobe...		1.714	1.662	1.648	1.476	1.506	1.466	1.372	1.549	8.14
13)	C	1,4-Dichlorobe...		1.766	1.653	1.668	1.495	1.495	1.480	1.370	1.561	8.81
14)		1,2-Dichlorobe...		1.670	1.579	1.572	1.382	1.388	1.363	1.239	1.456	10.50
15)		Benzyl Alcohol		1.291	1.240	1.244	1.158	1.164	1.144	1.048	1.184	6.85
16)		2,2'-oxybis(1-...		2.046	1.913	1.939	1.766	1.746	1.730	1.640	1.826	7.82
17)		2-Methylphenol		1.209	1.175	1.182	1.088	1.091	1.077	1.027	1.121	6.00
18)		Hexachloroethane		0.610	0.591	0.595	0.548	0.551	0.550	0.507	0.565	6.35
19)	P	n-Nitroso-di-n...	1.062	1.068	1.011	1.009	0.906	0.915	0.902	0.854	0.966	8.40
20)		3+4-Methylphenols		1.631	1.529	1.527	1.375	1.342	1.319	1.180	1.415	10.93
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.539	0.516	0.507	0.445	0.455	0.449	0.417	0.475	9.43
23)	S	Nitrobenzene-d5		0.400	0.390	0.394	0.365	0.370	0.372	0.349	0.377	4.82
24)		Nitrobenzene		0.419	0.410	0.411	0.377	0.384	0.388	0.364	0.393	5.20
25)		Isophorone		0.692	0.668	0.674	0.617	0.629	0.628	0.605	0.645	5.09
26)	C	2-Nitrophenol		0.161	0.173	0.190	0.178	0.184	0.187	0.179	0.179	5.30
27)		2,4-Dimethylph...		0.252	0.244	0.250	0.236	0.239	0.238	0.229	0.241	3.27
28)		bis(2-Chloroet...		0.435	0.419	0.430	0.387	0.393	0.393	0.377	0.405	5.61
29)	C	2,4-Dichloroph...		0.296	0.296	0.300	0.277	0.286	0.284	0.266	0.287	4.31
30)		1,2,4-Trichlor...		0.356	0.344	0.348	0.314	0.317	0.316	0.299	0.328	6.49
31)		Naphthalene		1.178	1.126	1.131	0.998	1.023	0.997	0.929	1.055	8.60
32)		Benzoic acid		0.182	0.211	0.231	0.238	0.251	0.258	0.250	0.231	11.68
33)		4-Chloroaniline		0.397	0.390	0.386	0.345	0.349	0.355	0.331	0.365	7.09
34)	C	Hexachlorobuta...		0.213	0.207	0.208	0.188	0.194	0.191	0.180	0.197	6.17
35)		Caprolactam		0.096	0.092	0.099	0.091	0.094	0.094	0.091	0.094	3.00
36)	C	4-Chloro-3-met...		0.331	0.322	0.327	0.302	0.313	0.307	0.293	0.313	4.39
37)		2-Methylnaphth...		0.751	0.719	0.710	0.638	0.654	0.637	0.595	0.672	8.30
38)		1-Methylnaphth...		0.747	0.712	0.710	0.625	0.635	0.627	0.581	0.662	9.11

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.632	0.601	0.604	0.554	0.552	0.554	0.520	0.574	6.83
41)	P	Hexachlorocycl...	0.170	0.181	0.201	0.200	0.189	0.191	0.182	0.188	5.74
42)	S	2,4,6-Tribromo...	0.233	0.233	0.235	0.219	0.230	0.226	0.220	0.228	2.96
43)	C	2,4,6-Trichlor...	0.399	0.384	0.412	0.380	0.382	0.377	0.377	0.387	3.37
44)		2,4,5-Trichlor...	0.429	0.419	0.418	0.401	0.411	0.407	0.377	0.409	4.07
45)	S	2-Fluorobiphenyl	1.582	1.459	1.408	1.225	1.224	1.176	1.094	1.310	13.42
46)		1,1'-Biphenyl	1.761	1.671	1.654	1.490	1.491	1.452	1.354	1.553	9.28
47)		2-Chloronaphth...	1.345	1.288	1.273	1.164	1.174	1.145	1.079	1.210	7.78
48)		2-Nitroaniline	0.360	0.358	0.365	0.351	0.365	0.365	0.347	0.359	2.04
49)		Acenaphthylene	1.915	1.820	1.830	1.660	1.678	1.654	1.540	1.728	7.54
50)		Dimethylphthalate	1.447	1.406	1.404	1.299	1.318	1.292	1.232	1.343	5.76
51)		2,6-Dinitrotol...	0.308	0.317	0.328	0.312	0.315	0.312	0.294	0.312	3.27
52)	C	Acenaphthene	1.317	1.267	1.274	1.165	1.185	1.160	1.086	1.208	6.69
53)		3-Nitroaniline	0.321	0.324	0.333	0.316	0.320	0.312	0.295	0.317	3.73
54)	P	2,4-Dinitrophenol		0.097	0.133	0.155	0.168	0.167	0.171	0.148	19.39
55)		Dibenzofuran	1.866	1.736	1.738	1.586	1.585	1.546	1.440	1.642	8.77
56)	P	4-Nitrophenol	0.224	0.241	0.255	0.250	0.264	0.258	0.248	0.248	5.29
57)		2,4-Dinitrotol...	0.372	0.401	0.423	0.395	0.424	0.411	0.390	0.402	4.69
58)		Fluorene	1.488	1.403	1.359	1.197	1.213	1.182	1.091	1.276	11.13
59)		2,3,4,6-Tetrac...	0.353	0.358	0.354	0.332	0.333	0.337	0.313	0.340	4.72
60)		Diethylphthalate	1.416	1.397	1.378	1.253	1.289	1.257	1.186	1.311	6.64
61)		4-Chlorophenyl...	0.709	0.672	0.663	0.594	0.593	0.584	0.540	0.622	9.65
62)		4-Nitroaniline	0.314	0.312	0.315	0.300	0.323	0.315	0.295	0.311	3.12
63)		Azobenzene	1.430	1.363	1.353	1.245	1.264	1.233	1.166	1.293	7.05
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.077	0.095	0.120	0.129	0.130	0.132	0.128	0.116	18.43
66)	c	n-Nitrosodiphe...	0.706	0.677	0.683	0.651	0.603	0.622	0.574	0.645	7.39
67)		4-Bromophenyl-...	0.241	0.237	0.238	0.232	0.220	0.229	0.215	0.230	4.20
68)		Hexachlorobenzene	0.273	0.263	0.266	0.257	0.244	0.252	0.239	0.256	4.81
69)		Atrazine	0.213	0.201	0.170	0.141	0.184	0.169	0.138	0.174	16.26
70)	C	Pentachlorophenol	0.142	0.162	0.171	0.173	0.169	0.171	0.160	0.164	6.59
71)		Phenanthrene	1.218	1.152	1.122	1.064	1.014	1.012	0.935	1.074	8.98
72)		Anthracene	1.162	1.111	1.095	1.042	0.994	0.997	0.908	1.044	8.22
73)		Carbazole	1.052	1.025	1.011	0.944	0.935	0.901	0.833	0.957	8.09
74)		Di-n-butylphth...	1.186	1.177	1.139	1.087	1.079	1.043	0.958	1.096	7.33
75)	C	Fluoranthene	1.211	1.188	1.104	1.037	1.051	0.987	0.923	1.071	9.70
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.380	0.309	0.310	0.409	0.340	0.418	0.430	0.371	13.83
78)		Pyrene	1.952	1.977	2.081	1.848	1.839	1.955	1.720	1.910	6.14
79)	S	Terphenyl-d14	1.444	1.424	1.483	1.272	1.280	1.352	1.164	1.346	8.44
80)		Butylbenzylpht...	0.583	0.629	0.663	0.614	0.677	0.669	0.623	0.637	5.39
81)		Benzo(a)anthra...	1.473	1.420	1.427	1.245	1.329	1.367	1.266	1.361	6.28
82)		3,3'-Dichlorob...	0.434	0.422	0.444	0.418	0.426	0.441	0.448	0.433	2.72
83)		Chrysene	1.382	1.316	1.336	1.207	1.237	1.238	1.200	1.274	5.54
84)		Bis(2-ethylhex...	0.734	0.768	0.807	0.726	0.819	0.783	0.712	0.764	5.41
85)	c	Di-n-octyl pht...	0.950	1.039	1.169	1.151	1.235	1.244	1.291	1.154	10.51

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF011025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.472	1.420	1.558	1.472	1.421	1.539	1.374	1.465	4.55
88)		Benzo(b)fluora...	1.461	1.415	1.290	1.201	1.315	1.191	1.156	1.290	9.03
89)		Benzo(k)fluora...	1.128	1.102	1.141	1.043	1.038	1.103	1.074	1.090	3.67
90)	C	Benzo(a)pyrene	1.103	1.090	1.095	1.039	1.048	1.067	1.007	1.064	3.29
91)		Dibenzo(a,h)an...	1.174	1.178	1.262	1.197	1.150	1.247	1.088	1.185	4.95
92)		Benzo(g,h,i)pe...	1.256	1.221	1.347	1.263	1.195	1.296	1.051	1.233	7.65

(#) = Out of Range

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141109.D
Acq On : 10 Jan 2025 11:58
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 10 22:17:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

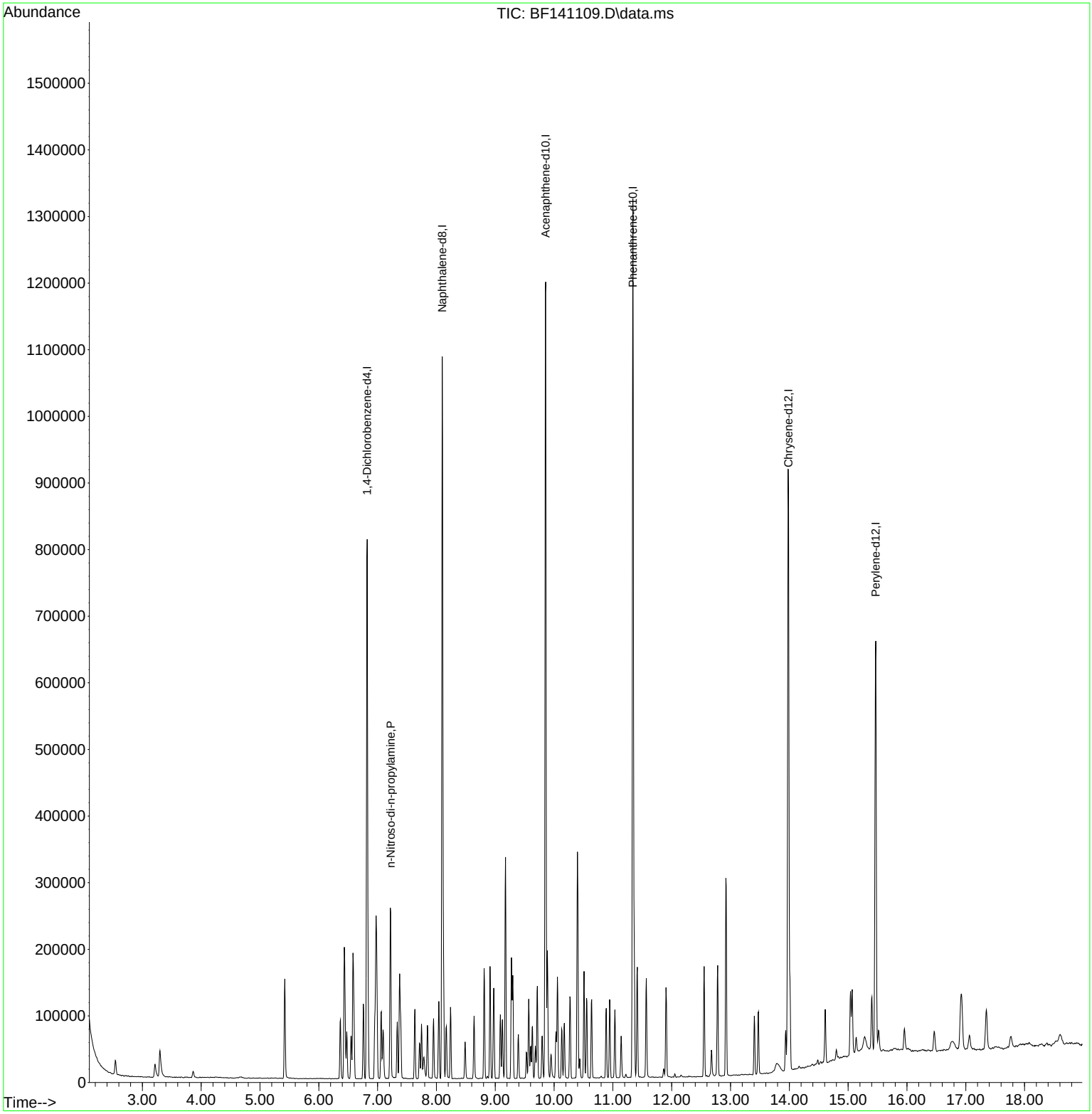
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	168291	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	666433	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	361428	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	653596	20.000	ng	0.00
76) Chrysene-d12	13.986	240	377428	20.000	ng	0.00
86) Perylene-d12	15.468	264	355792	20.000	ng	0.03
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						Qvalue
19) n-Nitroso-di-n-propyla...	7.222	70	22337	2.748	ng	98

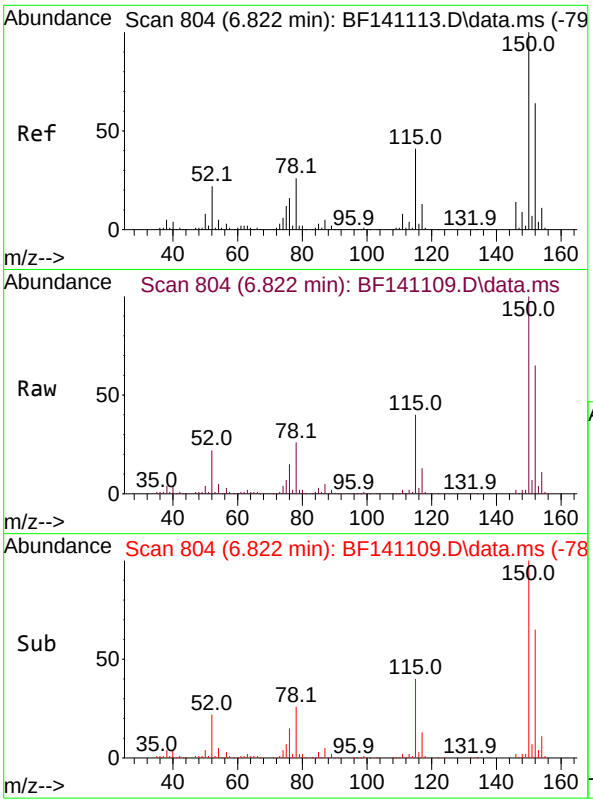
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141109.D
Acq On : 10 Jan 2025 11:58
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 10 22:17:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



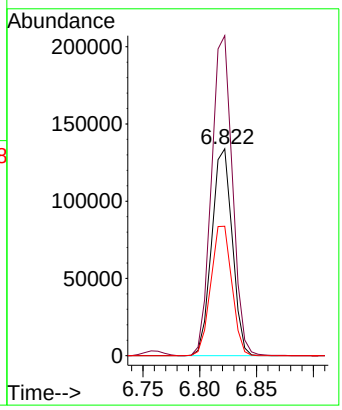


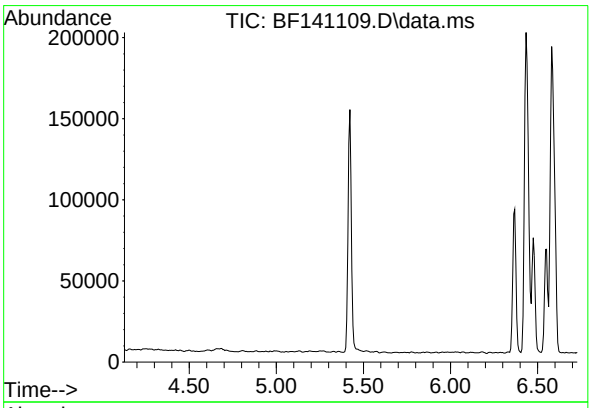
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 168291

Ion	Ratio	Lower	Upper
152	100		
150	154.7	125.8	188.8
115	62.6	51.4	77.2



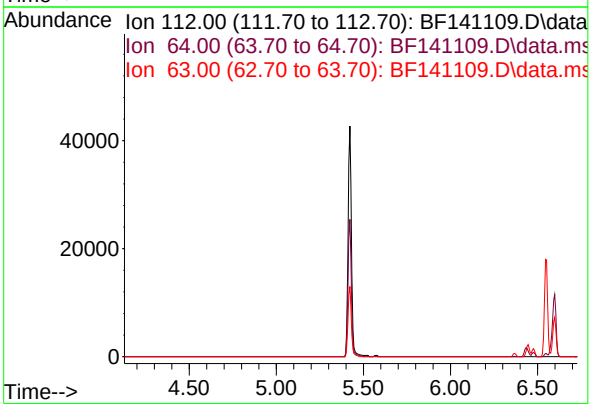


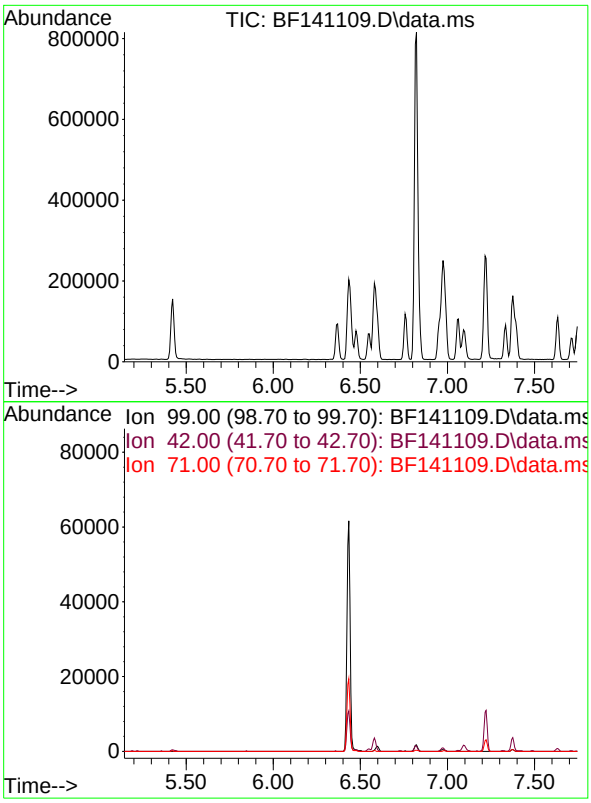
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.43 min

Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	59.1
63	30.2





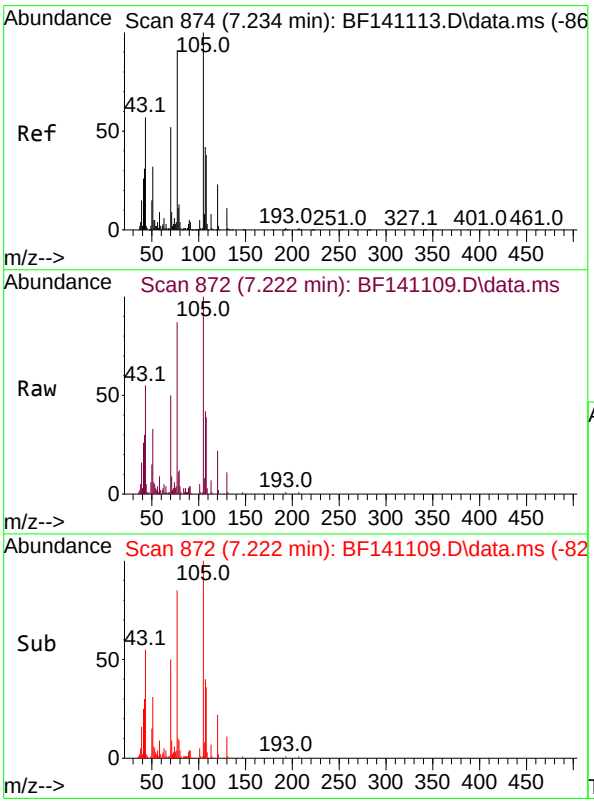
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.45 min

Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

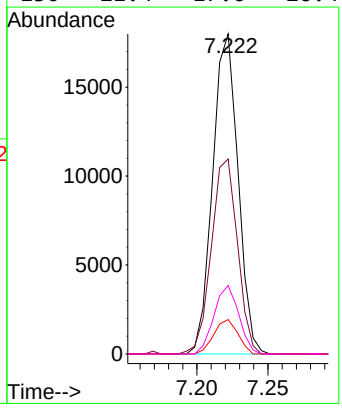
Sig	Exp Ratio
99	100
42	18.7
71	34.5

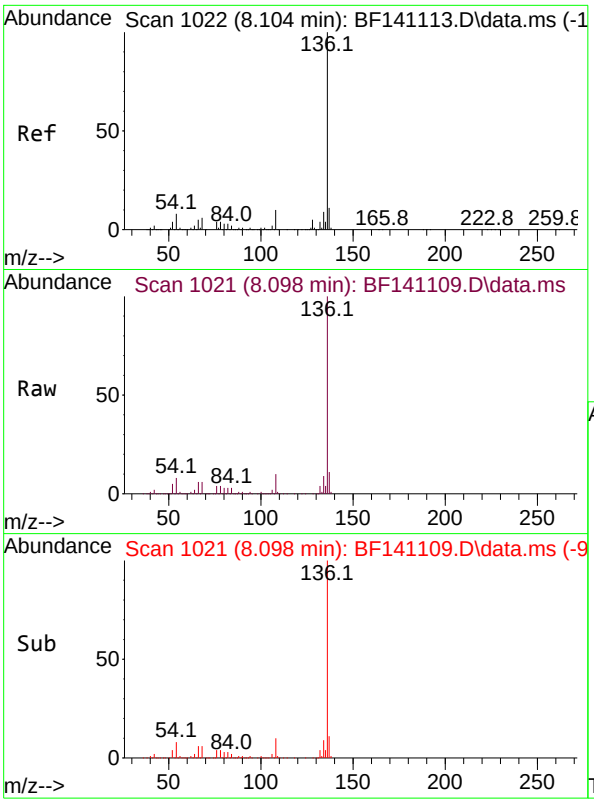


#19
n-Nitroso-di-n-propylamine
Concen: 2.748 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.012 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Tgt Ion: 70 Resp: 22337

Ion	Ratio	Lower	Upper
70	100		
42	61.0	47.8	71.6
101	10.7	7.9	11.9
130	21.4	17.6	26.4



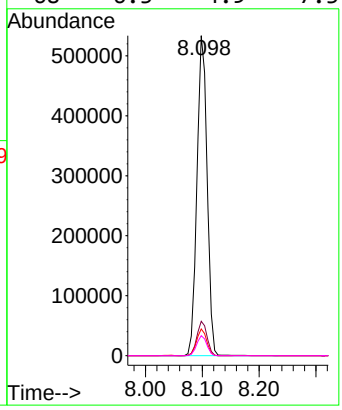


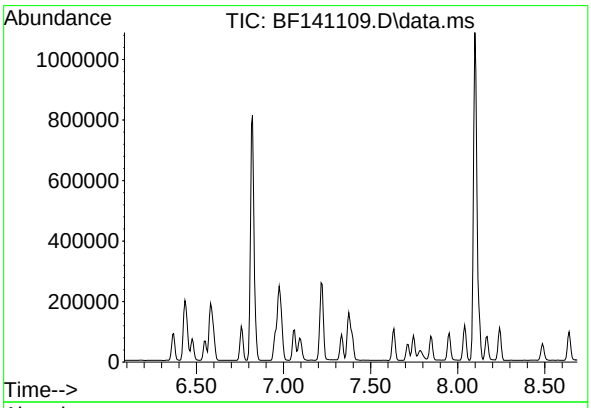
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 666433

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	8.3	6.3	9.5
68	6.3	4.9	7.3



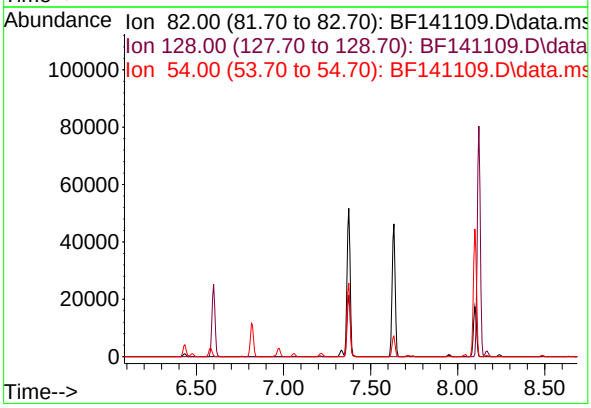


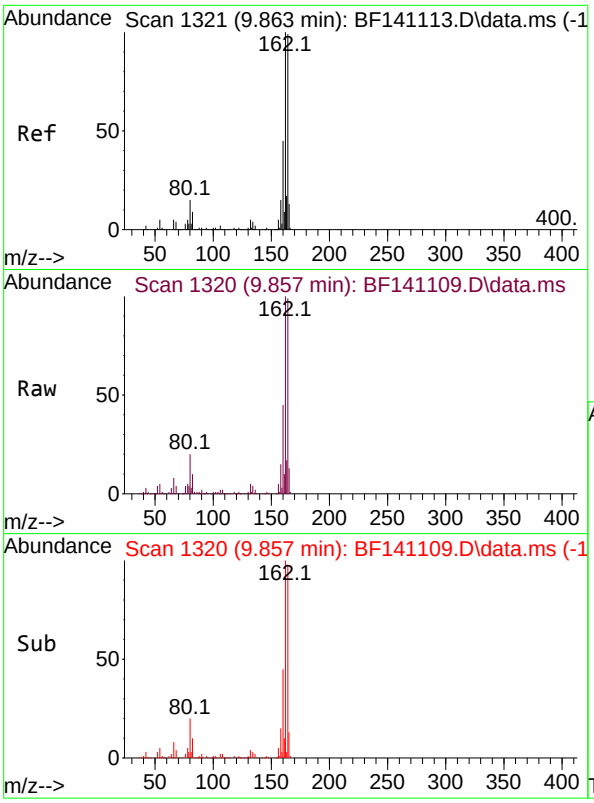
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.39 min

Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	45.1
54	51.2



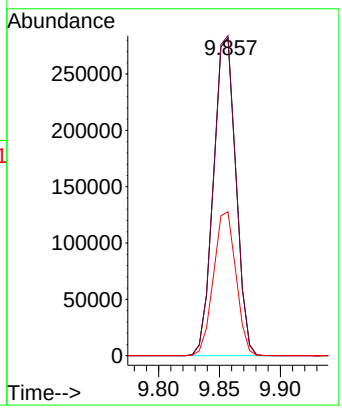


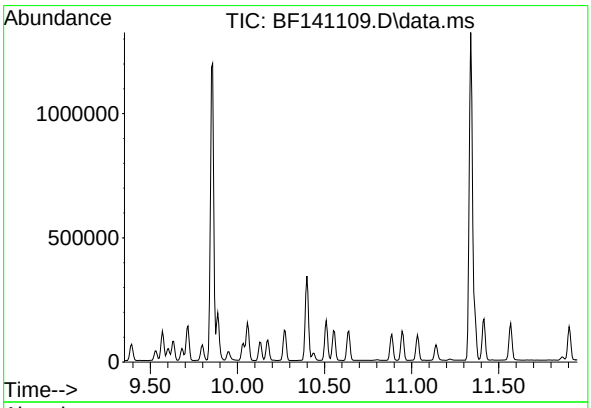
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 361428

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.0	121.4
160	45.3	36.1	54.1



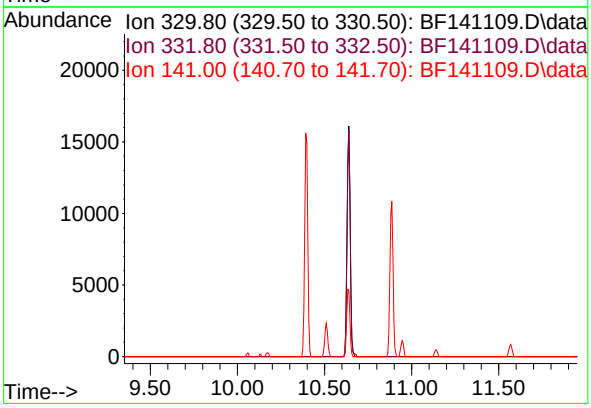


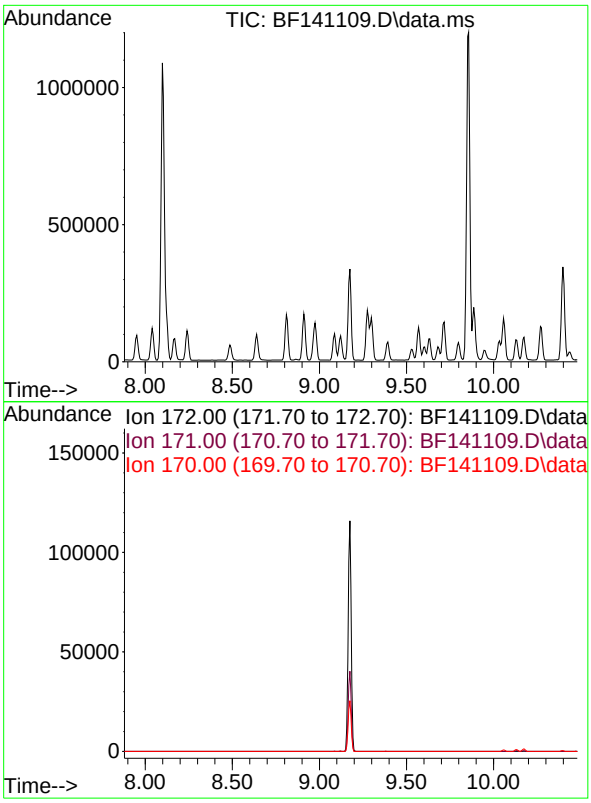
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.65 min

Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.1
141	31.5





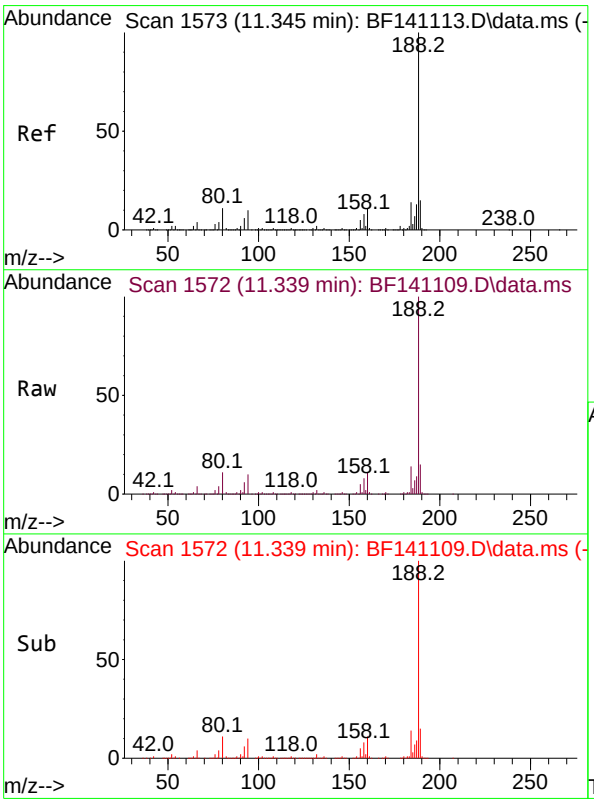
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.18 min

Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

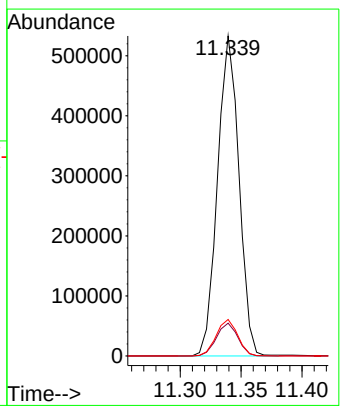
Sig	Exp Ratio
172	100
171	35.9
170	23.8

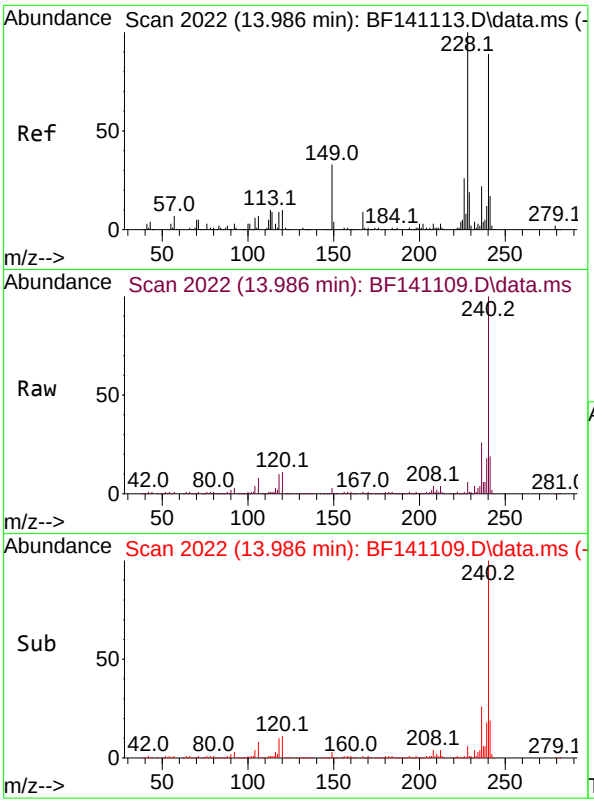


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Tgt Ion:188 Resp: 653596

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.3	12.5
80	11.4	9.0	13.4



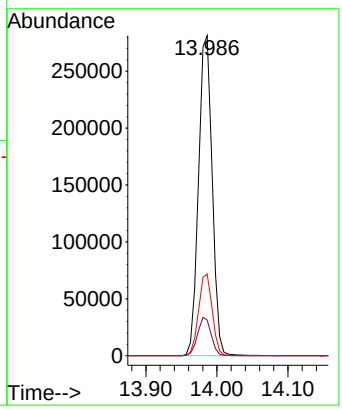


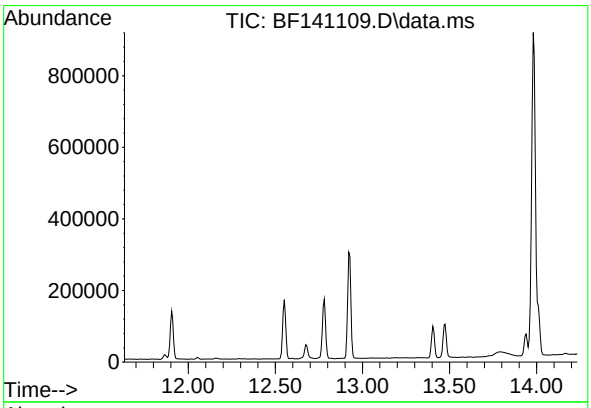
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 377428

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.1	13.7
236	25.5	19.8	29.6



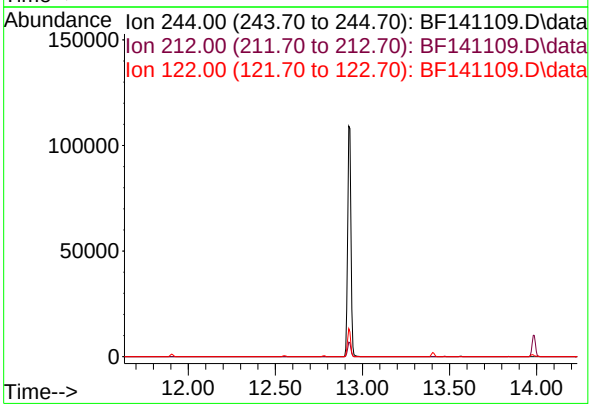


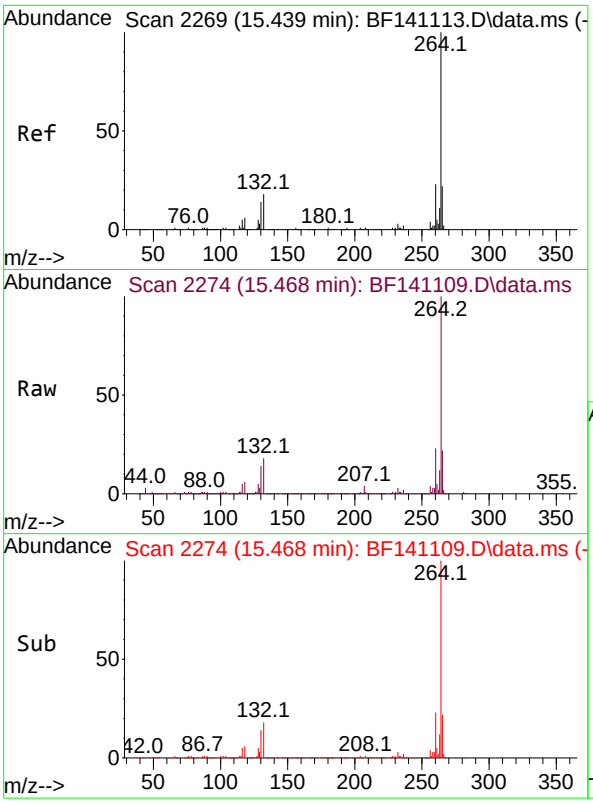
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.93 min

Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.8
122	11.0



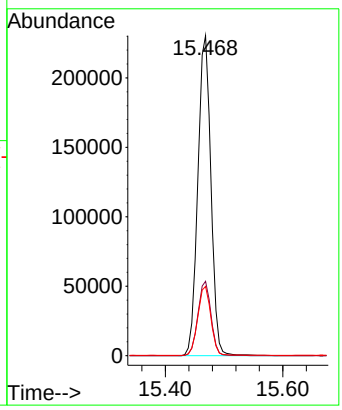


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141109.D
Acq: 10 Jan 2025 11:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 355792

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.6	17.4	26.0



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141110.D
Acq On : 10 Jan 2025 12:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jan 10 22:17:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	153416	20.000	ng		0.00
21) Naphthalene-d8	8.098	136	614947	20.000	ng		0.00
39) Acenaphthene-d10	9.857	164	332087	20.000	ng		0.00
64) Phenanthrene-d10	11.339	188	581741	20.000	ng		0.00
76) Chrysene-d12	13.986	240	370828	20.000	ng		0.00
86) Perylene-d12	15.463	264	306986	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	111466	11.224	ng		0.00
7) Phenol-d6	6.434	99	140674	11.182	ng		-0.01
23) Nitrobenzene-d5	7.375	82	123133	10.614	ng		-0.01
42) 2,4,6-Tribromophenol	10.639	330	38615	10.205	ng		-0.01
45) 2-Fluorobiphenyl	9.175	172	262701	12.080	ng		0.00
79) Terphenyl-d14	12.927	244	267821	10.734	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.534	88	23641	5.346	ng		98
3) Pyridine	3.281	79	60557	5.584	ng		99
4) n-Nitrosodimethylamine	3.205	42	27465	5.179	ng	#	99
6) Aniline	6.475	93	63517	5.687	ng		100
8) 2-Chlorophenol	6.598	128	59870	5.619	ng		98
9) Benzaldehyde	6.369	77	46588	6.629	ng		97
10) Phenol	6.446	94	74522	5.534	ng		98
11) bis(2-Chloroethyl)ether	6.551	93	55432	5.523	ng		97
12) 1,3-Dichlorobenzene	6.757	146	65753	5.533	ng		99
13) 1,4-Dichlorobenzene	6.840	146	67741	5.657	ng		98
14) 1,2-Dichlorobenzene	6.987	146	64051	5.734	ng		98
15) Benzyl Alcohol	6.951	79	49532	5.452	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.093	45	78464	5.603	ng		99
17) 2-Methylphenol	7.063	107	46377	5.391	ng		98
18) Hexachloroethane	7.334	117	23414	5.407	ng		96
19) n-Nitroso-di-n-propyla...	7.222	70	40948	5.526	ng		99
20) 3+4-Methylphenols	7.216	107	62539	5.763	ng	#	84
22) Acetophenone	7.222	105	82845	5.667	ng		99
24) Nitrobenzene	7.393	77	64399	5.326	ng		97
25) Isophorone	7.634	82	106336	5.364	ng		100
26) 2-Nitrophenol	7.716	139	24814	4.512	ng		95
27) 2,4-Dimethylphenol	7.745	122	38719	5.219	ng		99
28) bis(2-Chloroethoxy)met...	7.845	93	66840	5.372	ng		97
29) 2,4-Dichlorophenol	7.951	162	45561	5.171	ng		99
30) 1,2,4-Trichlorobenzene	8.040	180	54712	5.433	ng		99
31) Naphthalene	8.122	128	181124	5.585	ng		99
32) Benzoic acid	7.792	122	27905	3.921	ng		98
33) 4-Chloroaniline	8.169	127	61099	5.448	ng		99
34) Hexachlorobutadiene	8.240	225	32815	5.408	ng		99
35) Caprolactam	8.492	113	14819	5.127	ng		95
36) 4-Chloro-3-methylphenol	8.639	107	50853	5.278	ng		98
37) 2-Methylnaphthalene	8.810	142	115532	5.591	ng		98
38) 1-Methylnaphthalene	8.910	142	114809	5.637	ng		99
40) 1,2,4,5-Tetrachloroben...	8.981	216	52480	5.506	ng		100
41) Hexachlorocyclopentadiene	8.969	237	14138	4.534	ng		99
43) 2,4,6-Trichlorophenol	9.087	196	33100	5.149	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141110.D
Acq On : 10 Jan 2025 12:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jan 10 22:17:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

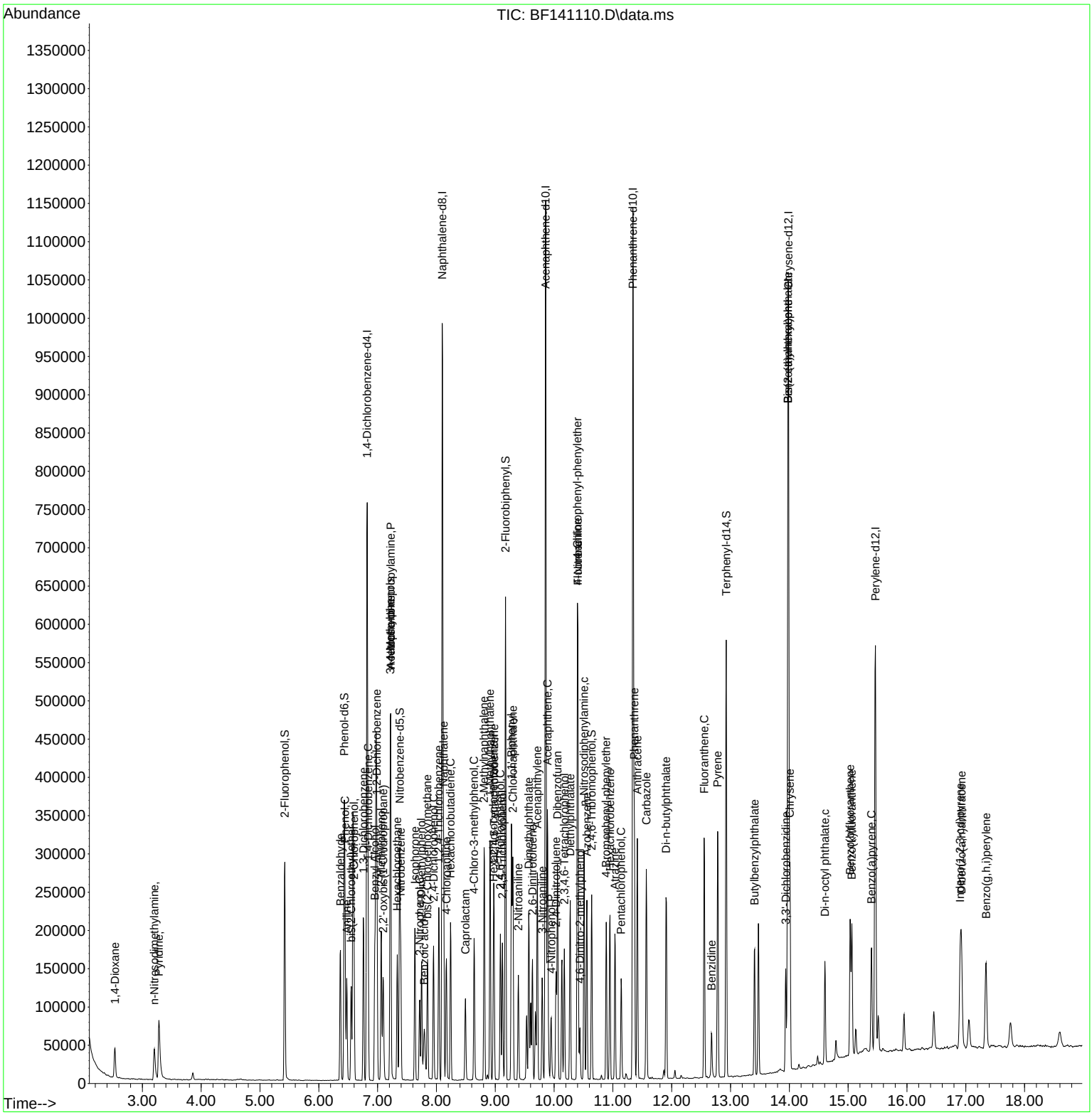
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.122	196	35605	5.244	ng	99
46) 1,1'-Biphenyl	9.275	154	146178	5.668	ng	99
47) 2-Chloronaphthalene	9.298	162	111654	5.559	ng	99
48) 2-Nitroaniline	9.392	65	29900	5.021	ng	93
49) Acenaphthylene	9.716	152	159028	5.541	ng	98
50) Dimethylphthalate	9.569	163	120152	5.389	ng	100
51) 2,6-Dinitrotoluene	9.634	165	25553	4.929	ng	93
52) Acenaphthene	9.886	154	109318	5.452	ng	98
53) 3-Nitroaniline	9.798	138	26650	5.058	ng	96
55) Dibenzofuran	10.057	168	154910	5.680	ng	98
56) 4-Nitrophenol	9.951	139	18587	4.505	ng	98
57) 2,4-Dinitrotoluene	10.034	165	30860	4.619	ng	94
58) Fluorene	10.404	166	123503	5.829	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.175	232	29338	5.199	ng	98
60) Diethylphthalate	10.275	149	117549	5.401	ng	100
61) 4-Chlorophenyl-phenyle...	10.398	204	58845	5.698	ng	99
62) 4-Nitroaniline	10.404	138	26092	5.060	ng	98
63) Azobenzene	10.557	77	118725	5.528	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	11249	3.337	ng	95
66) n-Nitrosodiphenylamine	10.510	169	102664	5.471	ng	98
67) 4-Bromophenyl-phenylether	10.886	248	35042	5.232	ng	99
68) Hexachlorobenzene	10.951	284	39756	5.332	ng	98
69) Atrazine	11.033	200	30974	6.131	ng	96
70) Pentachlorophenol	11.139	266	20711	4.338	ng	94
71) Phenanthrene	11.363	178	177095	5.670	ng	98
72) Anthracene	11.416	178	168968	5.564	ng	98
73) Carbazole	11.569	167	153065	5.497	ng	99
74) Di-n-butylphthalate	11.904	149	172526	5.414	ng	99
75) Fluoranthene	12.551	202	176105	5.650	ng	100
77) Benzidine	12.680	184	35213	5.121	ng	98
78) Pyrene	12.780	202	180982	5.110	ng	99
80) Butylbenzylphthalate	13.410	149	54011	4.574	ng	96
81) Benzo(a)anthracene	13.974	228	136580	5.412	ng	99
82) 3,3'-Dichlorobenzidine	13.939	252	40239	5.007	ng	100
83) Chrysene	14.010	228	128102	5.425	ng	98
84) Bis(2-ethylhexyl)phtha...	13.974	149	68031	4.801	ng	99
85) Di-n-octyl phthalate	14.604	149	88039	4.115	ng	100
87) Indeno(1,2,3-cd)pyrene	16.904	276	113009	5.025	ng	99
88) Benzo(b)fluoranthene	15.033	252	112121	5.664	ng	99
89) Benzo(k)fluoranthene	15.063	252	86565	5.175	ng	98
90) Benzo(a)pyrene	15.398	252	84656	5.183	ng	99
91) Dibenzo(a,h)anthracene	16.927	278	90084	4.952	ng	98
92) Benzo(g,h,i)perylene	17.345	276	96418	5.096	ng	100

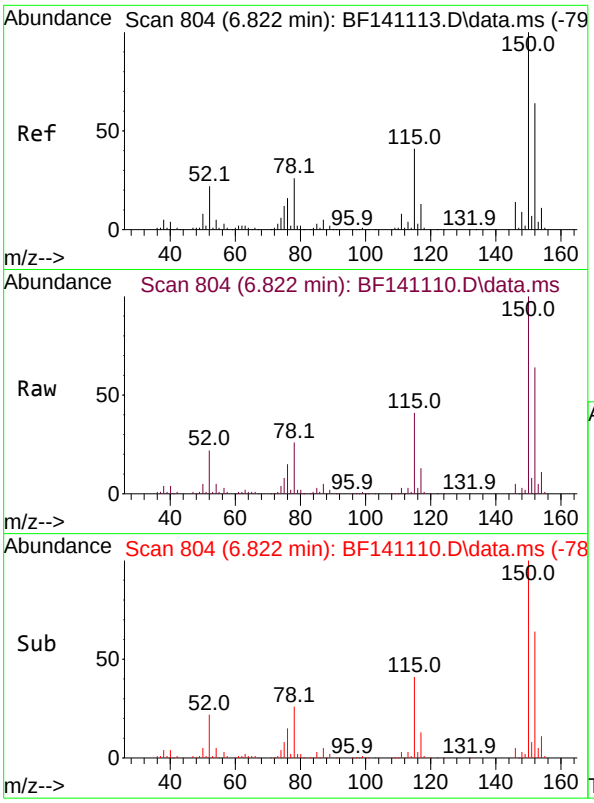
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141110.D
Acq On : 10 Jan 2025 12:25
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jan 10 22:17:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



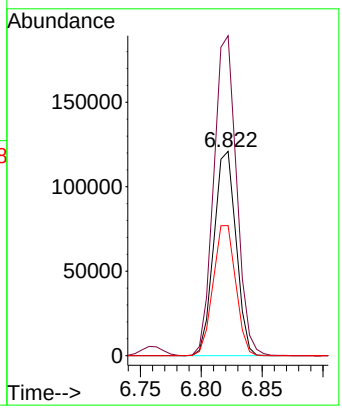


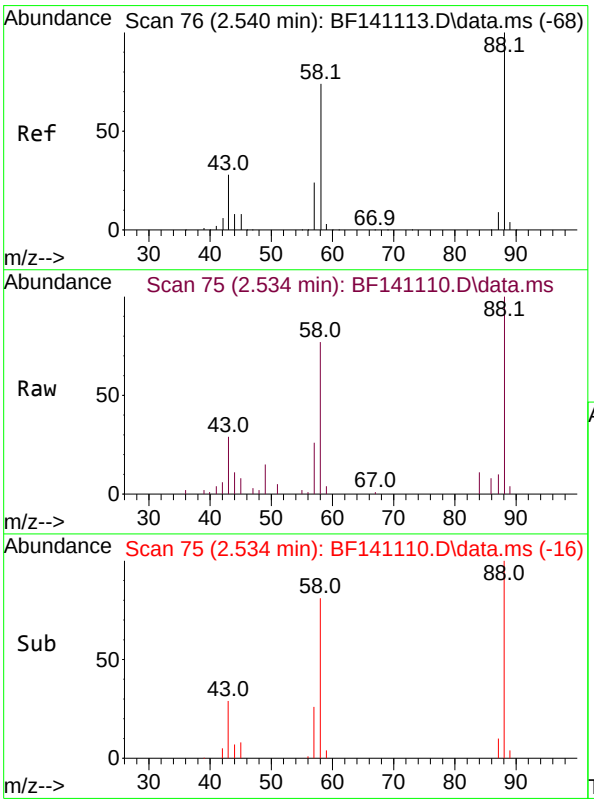
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 153416

Ion	Ratio	Lower	Upper
152	100		
150	156.7	125.8	188.8
115	63.7	51.4	77.2

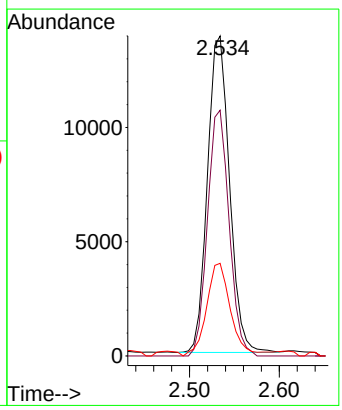


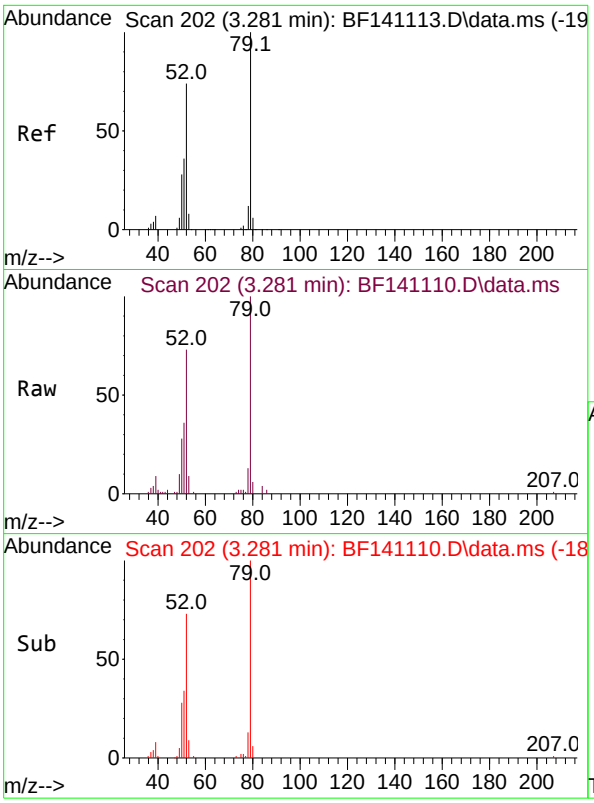


#2
1,4-Dioxane
Concen: 5.346 ng
RT: 2.534 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 88 Resp: 23641

Ion	Ratio	Lower	Upper
88	100		
58	76.0	60.1	90.1
43	31.7	23.1	34.7



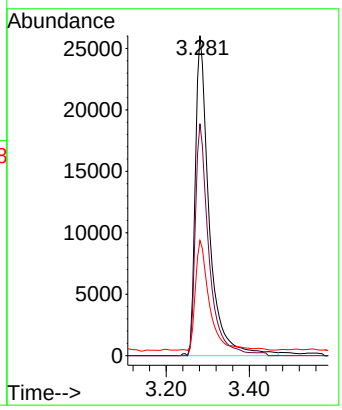


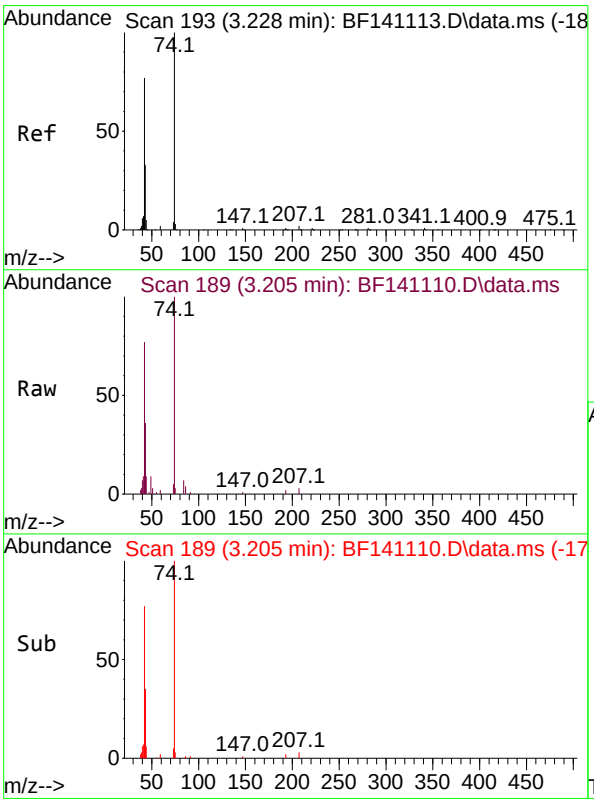
#3
Pyridine
Concen: 5.584 ng
RT: 3.281 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 60557

Ion	Ratio	Lower	Upper
79	100		
52	72.5	58.9	88.3
51	36.0	29.1	43.7

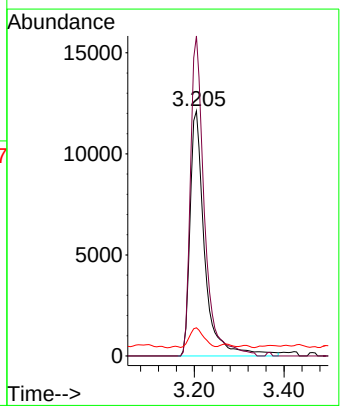


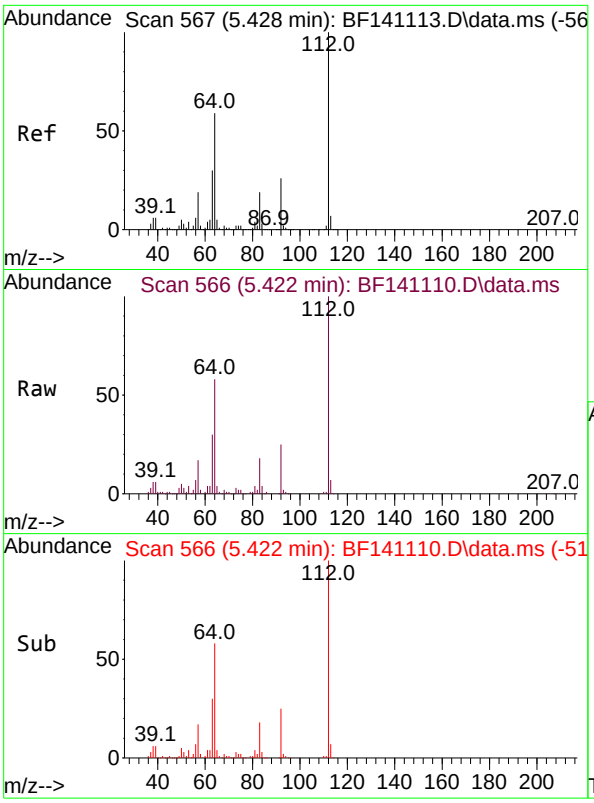


#4
n-Nitrosodimethylamine
Concen: 5.179 ng
RT: 3.205 min Scan# 189
Delta R.T. -0.023 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 42 Resp: 27465

Ion	Ratio	Lower	Upper
42	100		
74	130.6	103.8	155.6
44	11.5	5.3	7.9#



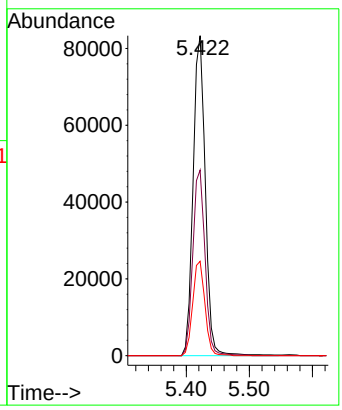


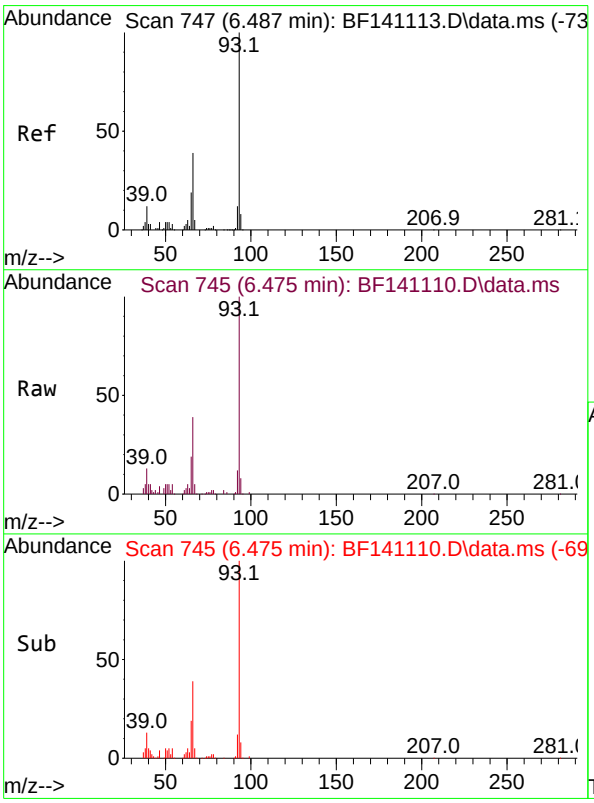
#5
2-Fluorophenol
Concen: 11.224 ng
RT: 5.422 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 111466

Ion	Ratio	Lower	Upper
112	100		
64	58.0	47.3	70.9
63	29.5	24.2	36.2

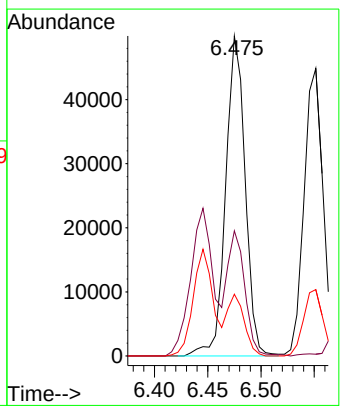


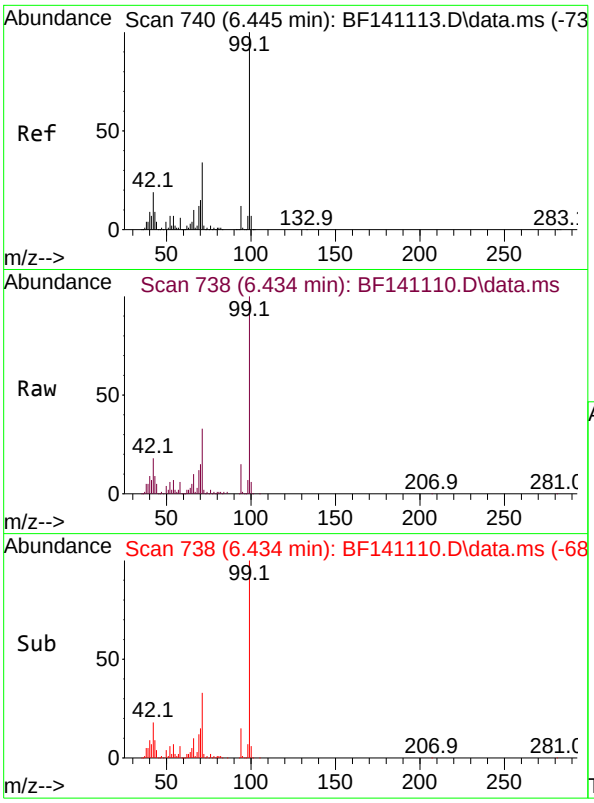


#6
Aniline
Concen: 5.687 ng
RT: 6.475 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 93 Resp: 63517

Ion	Ratio	Lower	Upper
93	100		
66	39.1	31.5	47.3
65	19.3	15.3	22.9



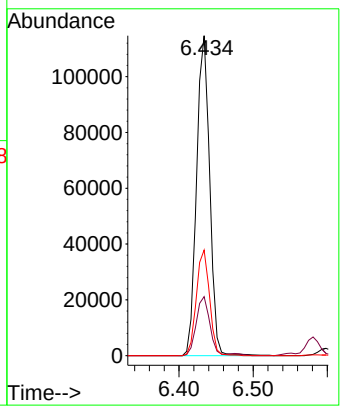


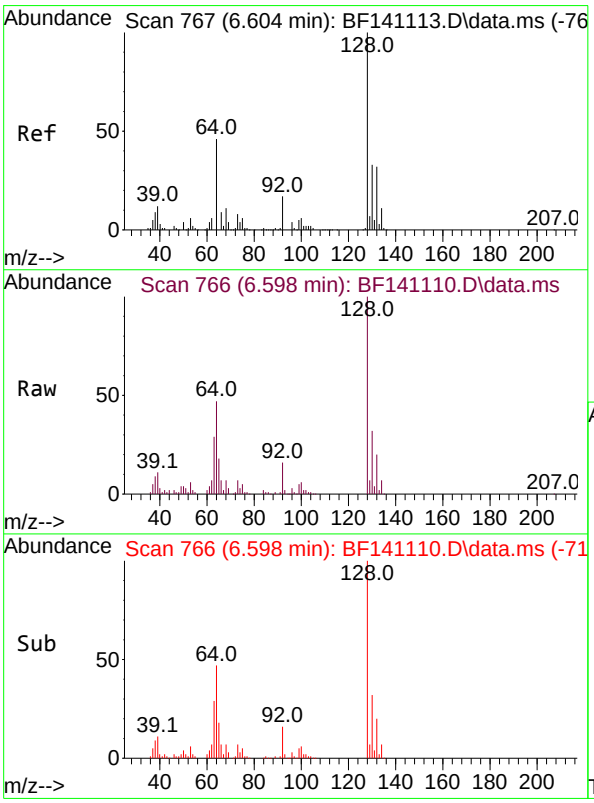
#7
Phenol-d6
Concen: 11.182 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 140674

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.0	22.4
71	33.0	27.6	41.4

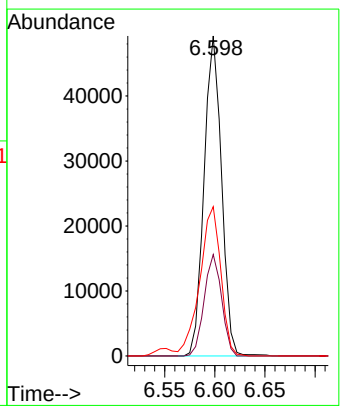


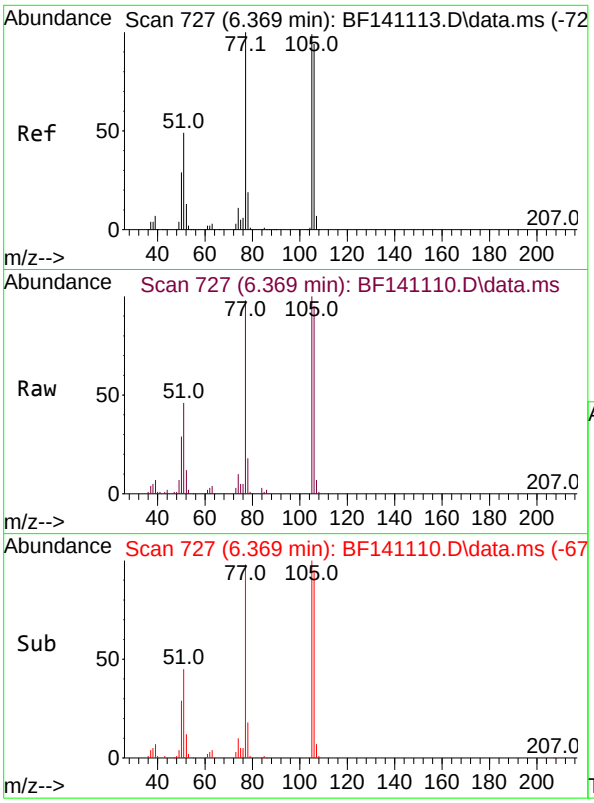


#8
2-Chlorophenol
Concen: 5.619 ng
RT: 6.598 min Scan# 766
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:128 Resp: 59870

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.5	52.5
64	46.6	28.3	68.3



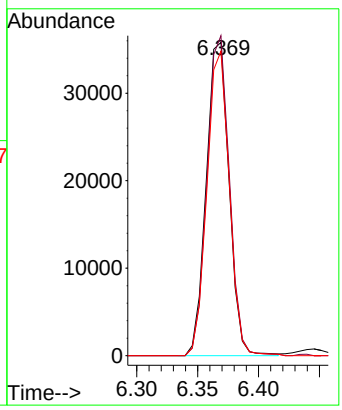


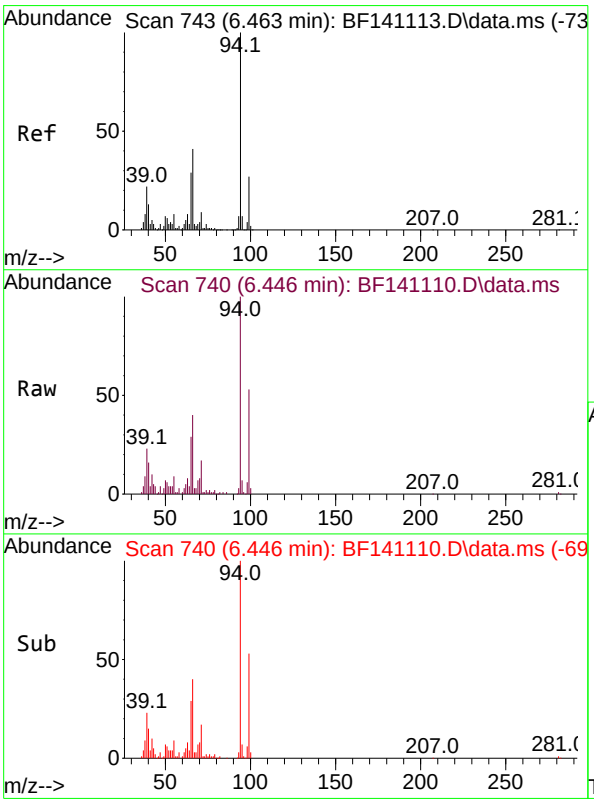
#9
Benzaldehyde
Concen: 6.629 ng
RT: 6.369 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 46588

Ion	Ratio	Lower	Upper
77	100		
105	102.1	78.9	118.9
106	97.2	73.6	113.6

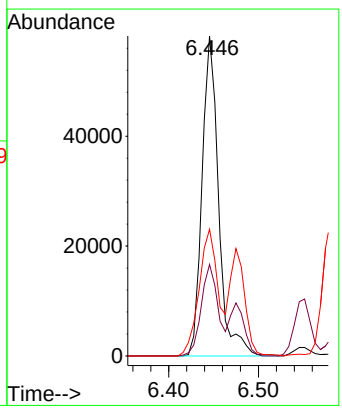


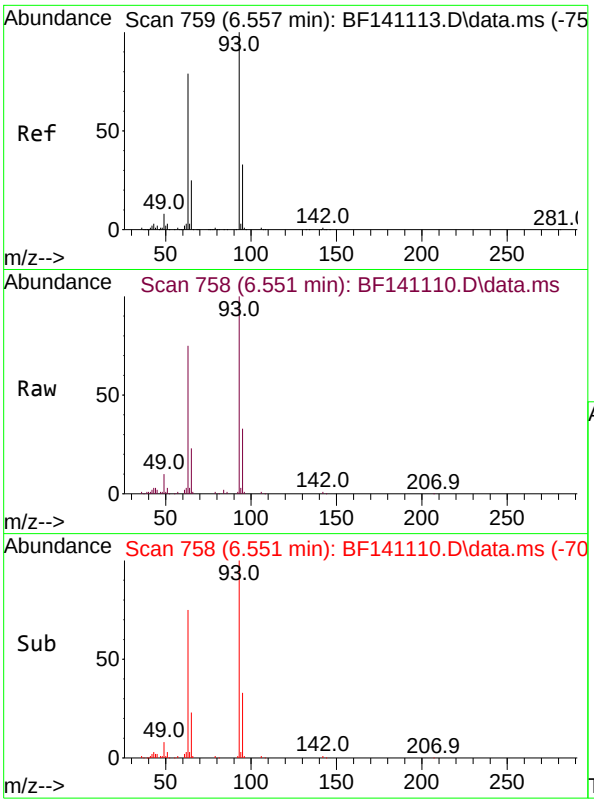


#10
Phenol
Concen: 5.534 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 94 Resp: 74522

Ion	Ratio	Lower	Upper
94	100		
65	28.6	8.9	48.9
66	39.6	21.2	61.2



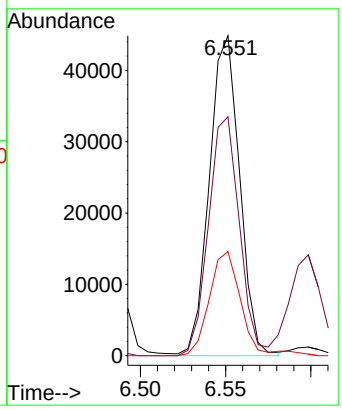


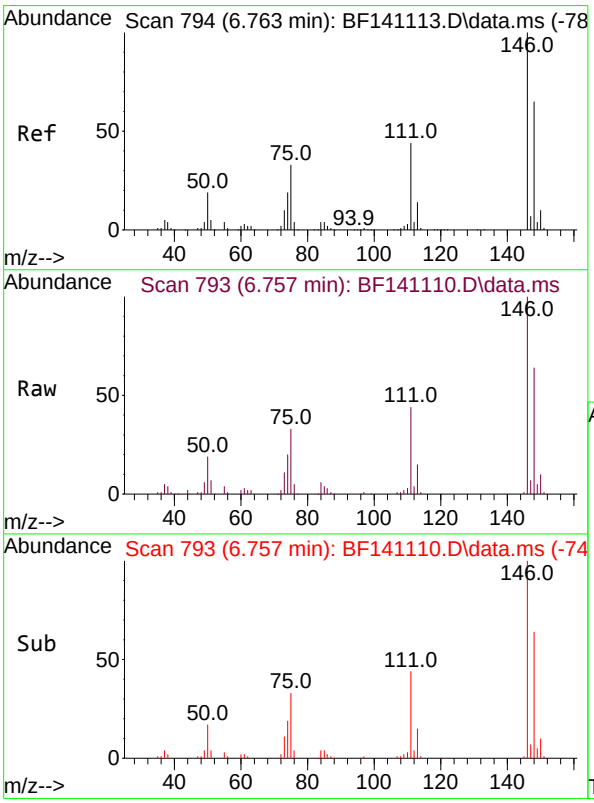
#11
bis(2-Chloroethyl)ether
Concen: 5.523 ng
RT: 6.551 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 55432

Ion	Ratio	Lower	Upper
93	100		
63	74.6	58.0	98.0
95	32.6	12.5	52.5

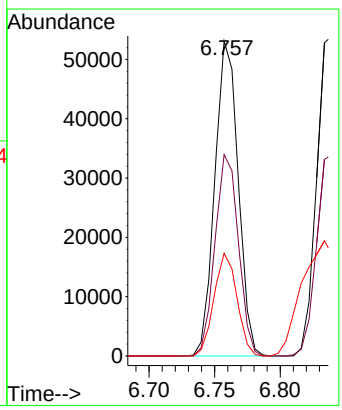


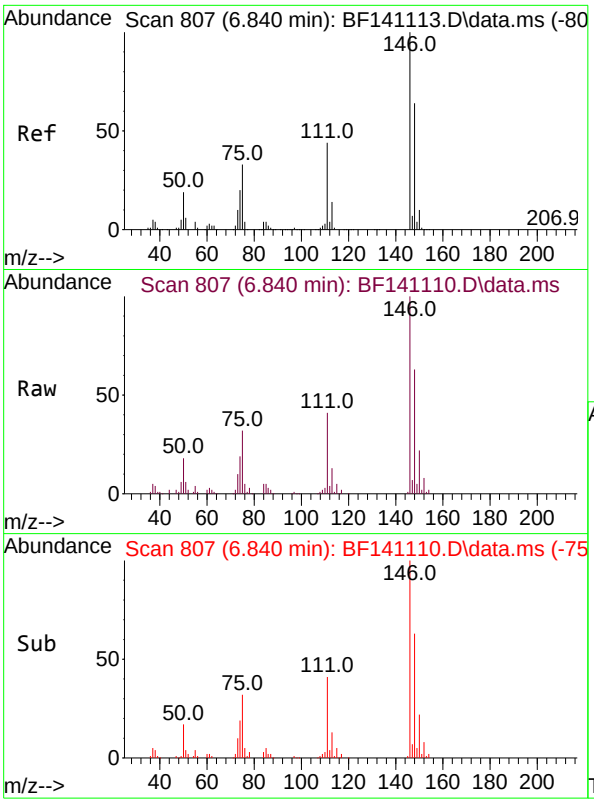


#12
1,3-Dichlorobenzene
Concen: 5.533 ng
RT: 6.757 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:146 Resp: 65753

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.6	77.4
75	32.6	26.2	39.2



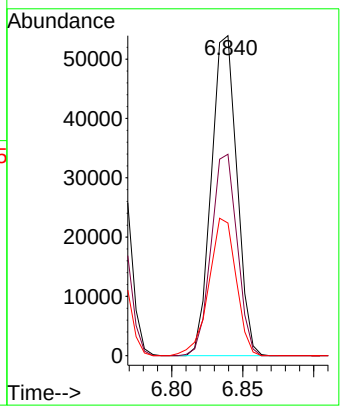


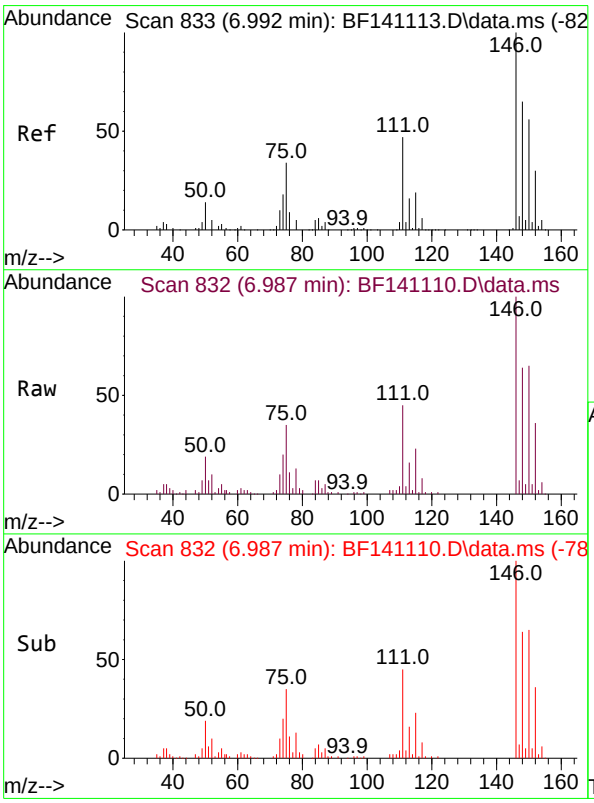
#13
1,4-Dichlorobenzene
Concen: 5.657 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 67741

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.0	76.6
111	41.4	34.9	52.3

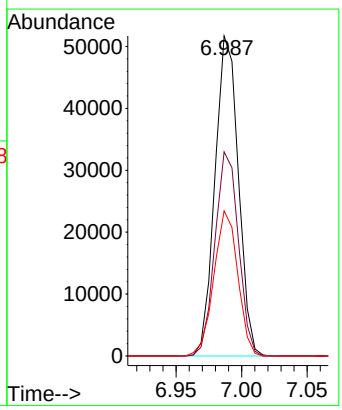


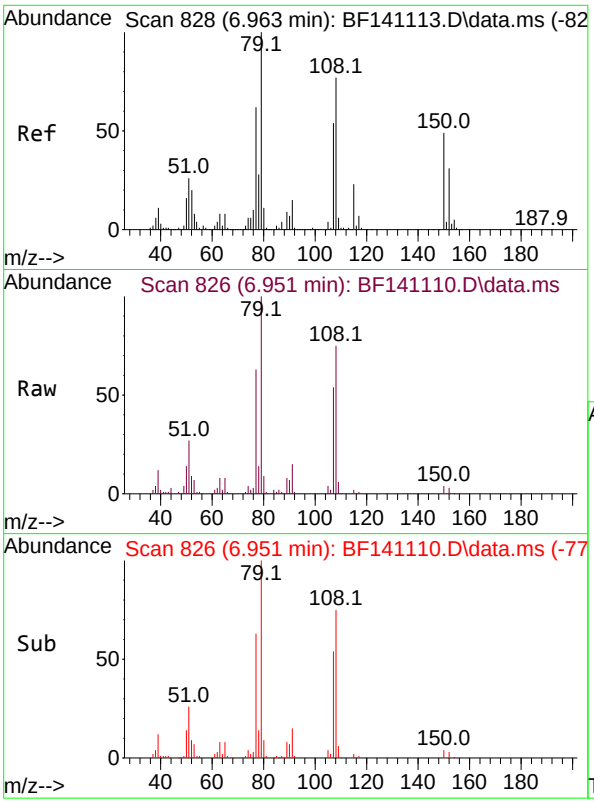


#14
1,2-Dichlorobenzene
Concen: 5.734 ng
RT: 6.987 min Scan# 832
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:146 Resp: 64051

Ion	Ratio	Lower	Upper
146	100		
148	63.8	52.2	78.4
111	45.4	37.5	56.3



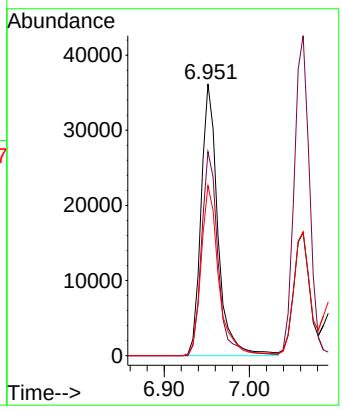


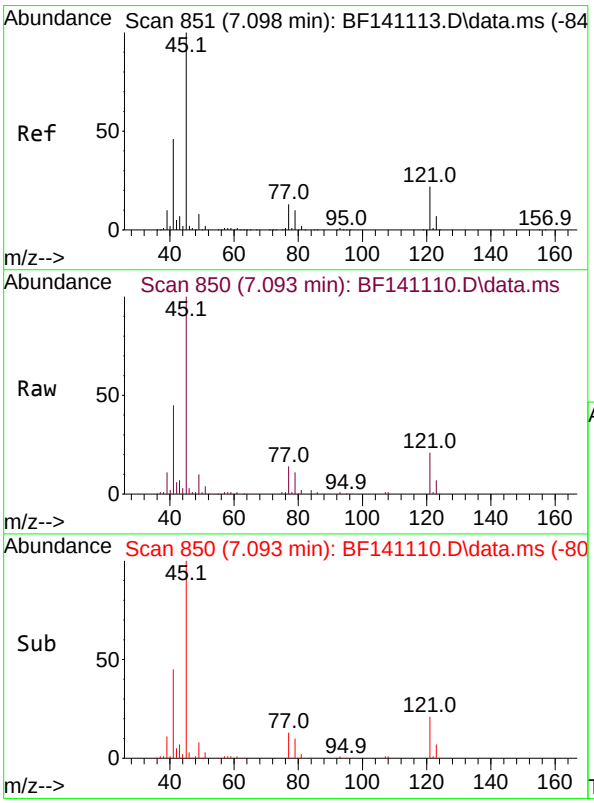
#15
Benzyl Alcohol
Concen: 5.452 ng
RT: 6.951 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 49532

Ion	Ratio	Lower	Upper
79	100		
108	75.0	61.4	92.0
77	62.6	49.8	74.6

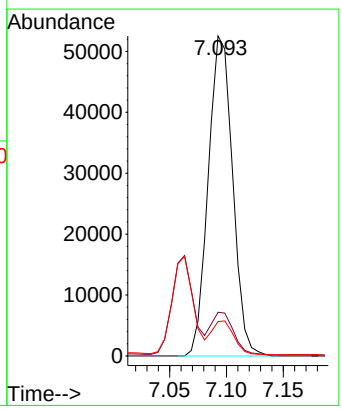


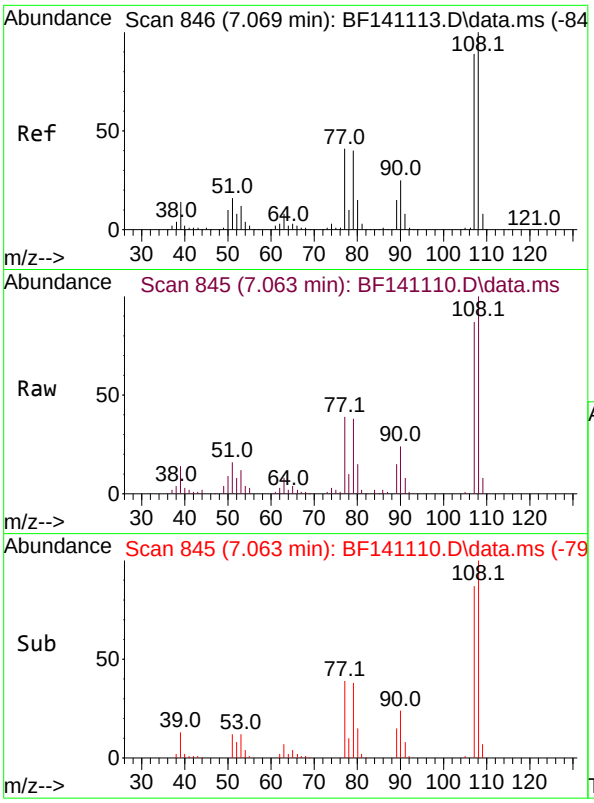


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.603 ng
RT: 7.093 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 45 Resp: 78464

Ion	Ratio	Lower	Upper
45	100		
77	13.6	0.0	34.1
79	10.8	0.0	31.0



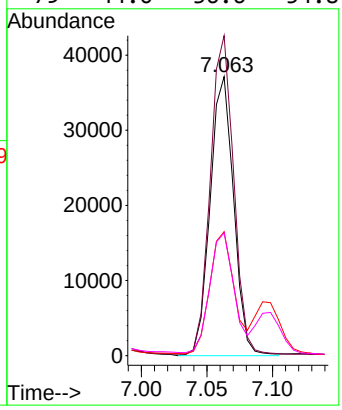


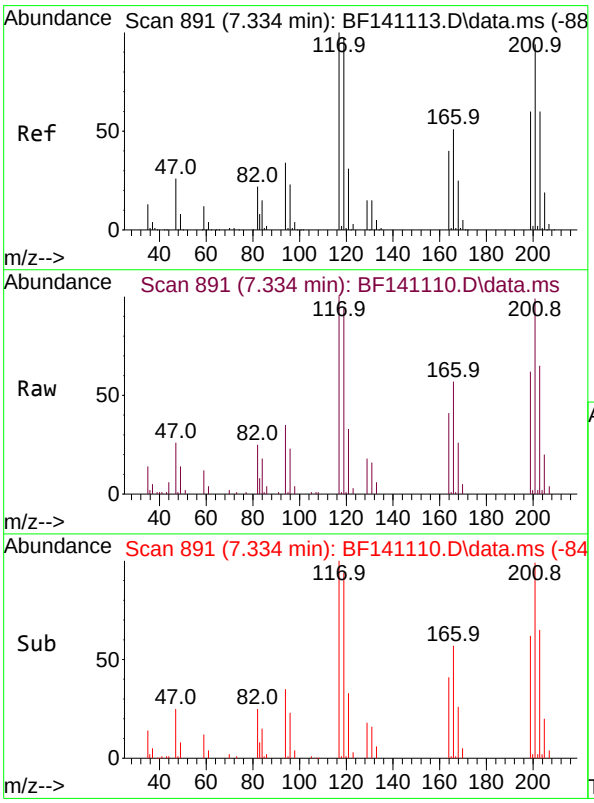
#17
2-Methylphenol
Concen: 5.391 ng
RT: 7.063 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 46377

Ion	Ratio	Lower	Upper
107	100		
108	114.7	90.1	135.1
77	44.4	36.6	55.0
79	44.0	36.6	54.8

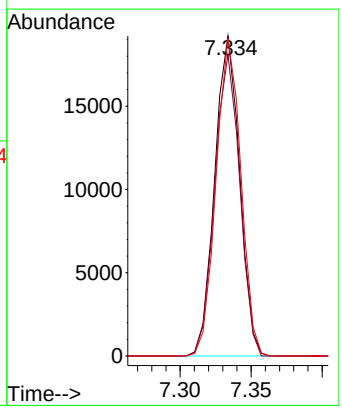


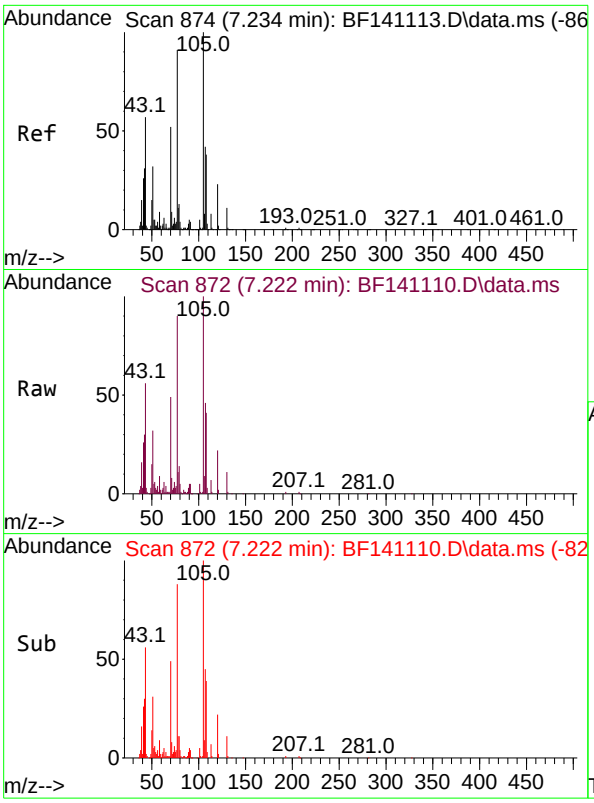


#18
Hexachloroethane
Concen: 5.407 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:117 Resp: 23414

Ion	Ratio	Lower	Upper
117	100		
119	94.1	77.6	116.4
201	99.2	75.1	112.7



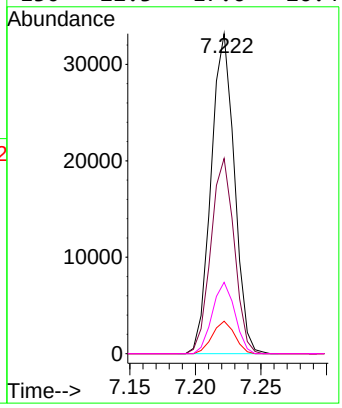


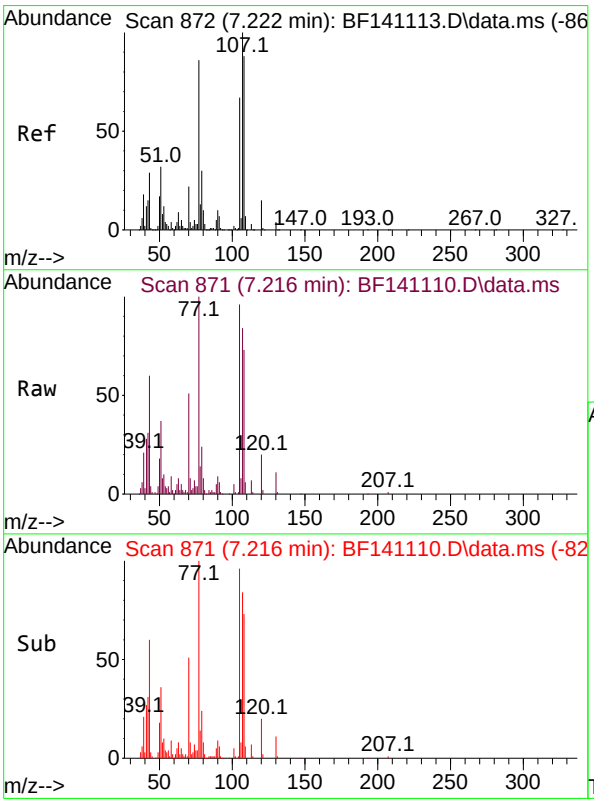
#19
n-Nitroso-di-n-propylamine
Concen: 5.526 ng
RT: 7.222 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 40948

Ion	Ratio	Lower	Upper
70	100		
42	61.0	47.8	71.6
101	10.2	7.9	11.9
130	22.3	17.6	26.4

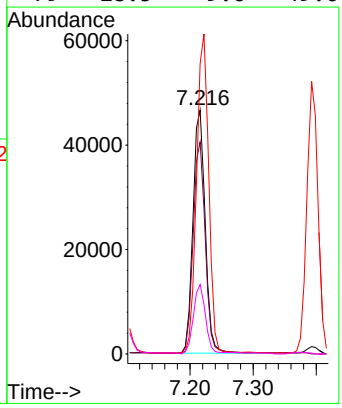


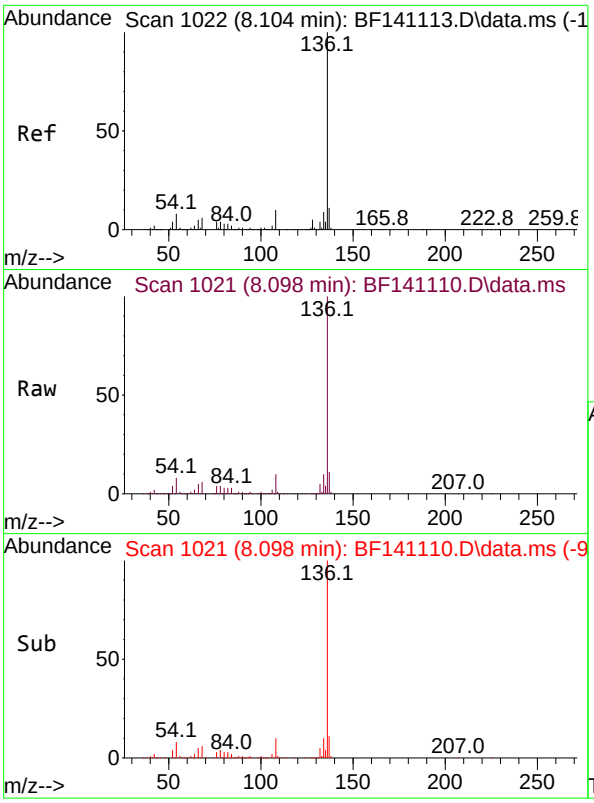


#20
3+4-Methylphenols
Concen: 5.763 ng
RT: 7.216 min Scan# 871
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:107 Resp: 62539

Ion	Ratio	Lower	Upper
107	100		
108	86.9	68.3	108.3
77	119.2	66.4	106.4#
79	28.5	9.6	49.6



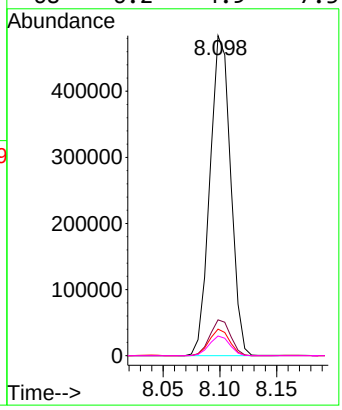


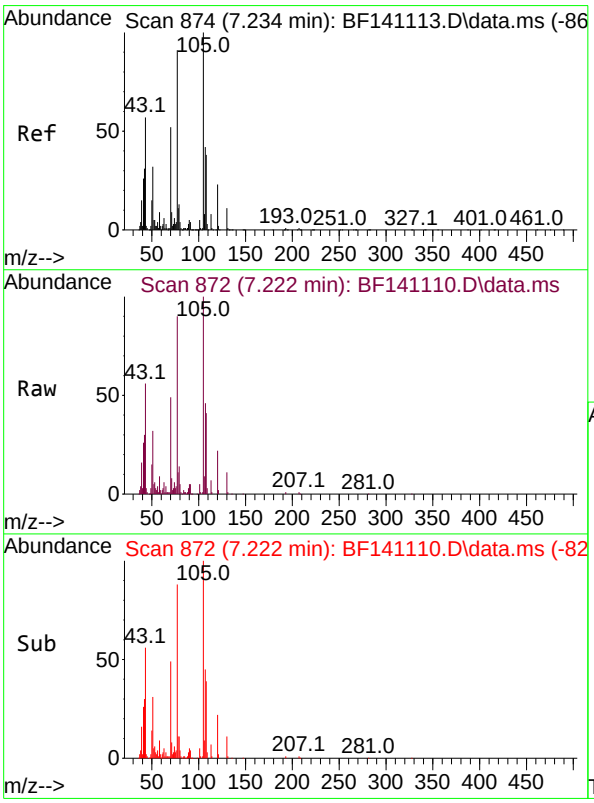
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 614947

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	8.3	6.3	9.5
68	6.2	4.9	7.3

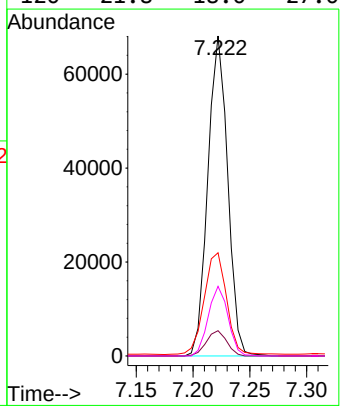


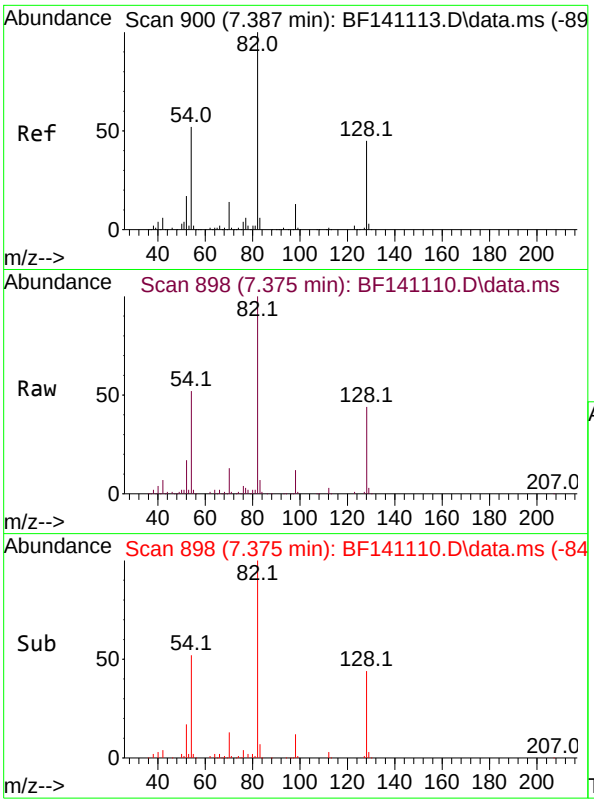


#22
Acetophenone
Concen: 5.667 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:105 Resp: 82845

Ion	Ratio	Lower	Upper
105	100		
71	7.9	7.1	10.7
51	32.2	25.4	38.2
120	21.8	18.0	27.0



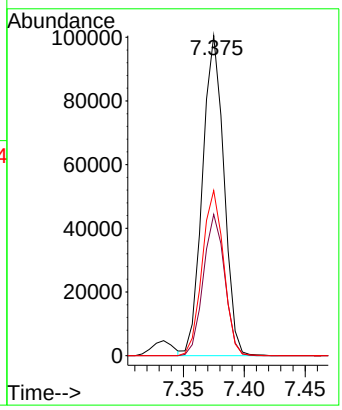


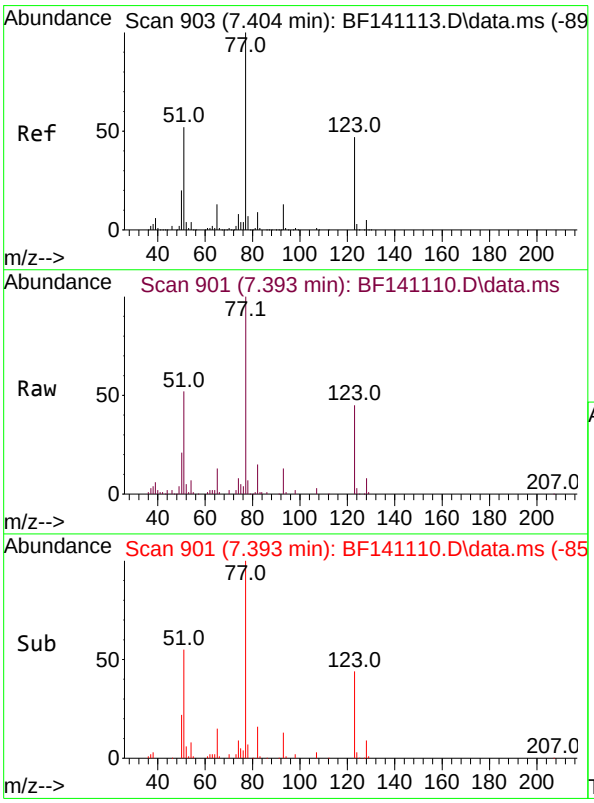
#23
Nitrobenzene-d5
Concen: 10.614 ng
RT: 7.375 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 123133

Ion	Ratio	Lower	Upper
82	100		
128	44.1	36.1	54.1
54	51.6	41.0	61.4

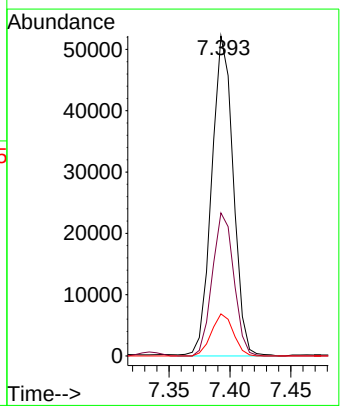


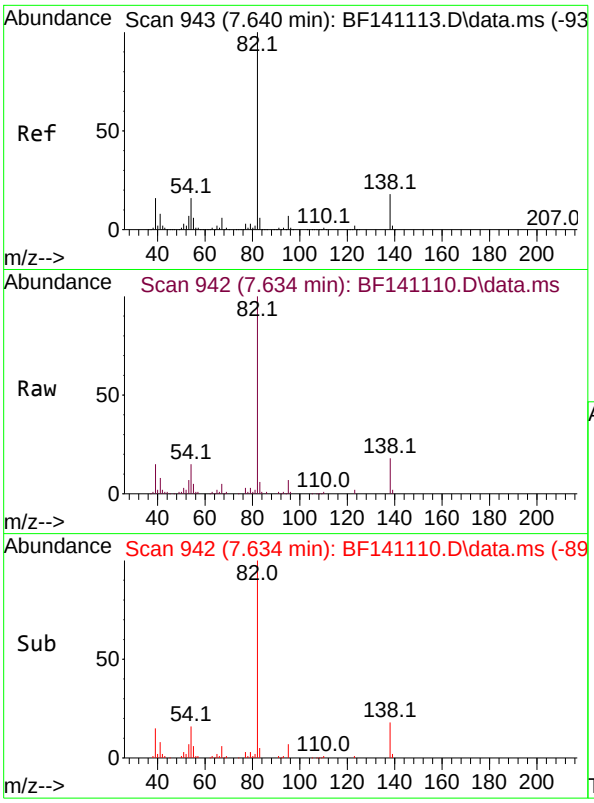


#24
Nitrobenzene
Concen: 5.326 ng
RT: 7.393 min Scan# 901
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 77 Resp: 64399

Ion	Ratio	Lower	Upper
77	100		
123	44.7	37.7	56.5
65	13.1	10.6	16.0



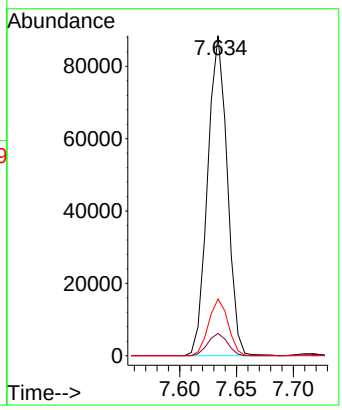


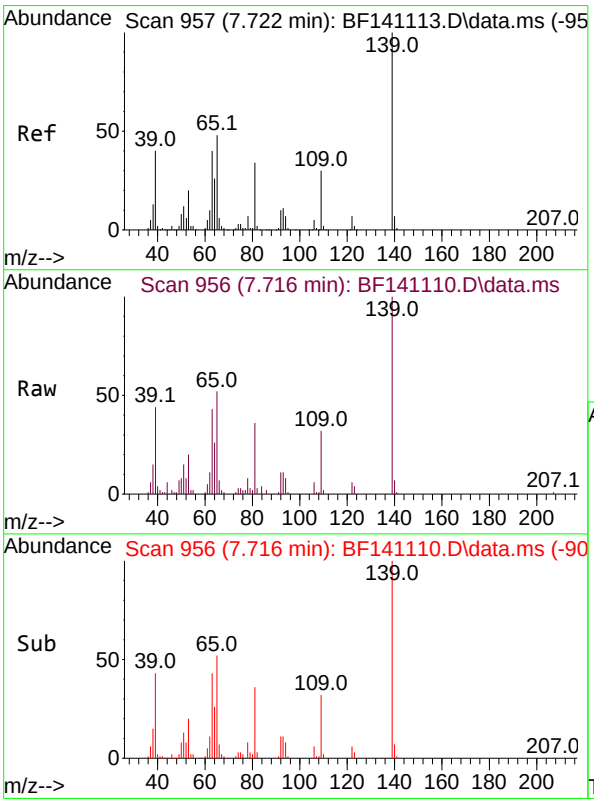
#25
Isophorone
Concen: 5.364 ng
RT: 7.634 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 106336

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.9	8.9
138	17.7	14.2	21.2

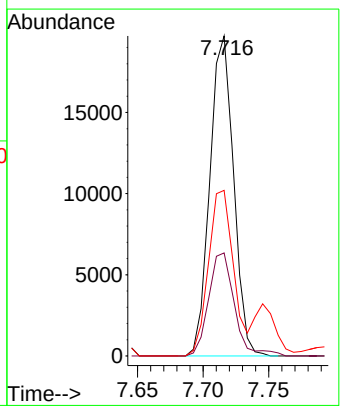


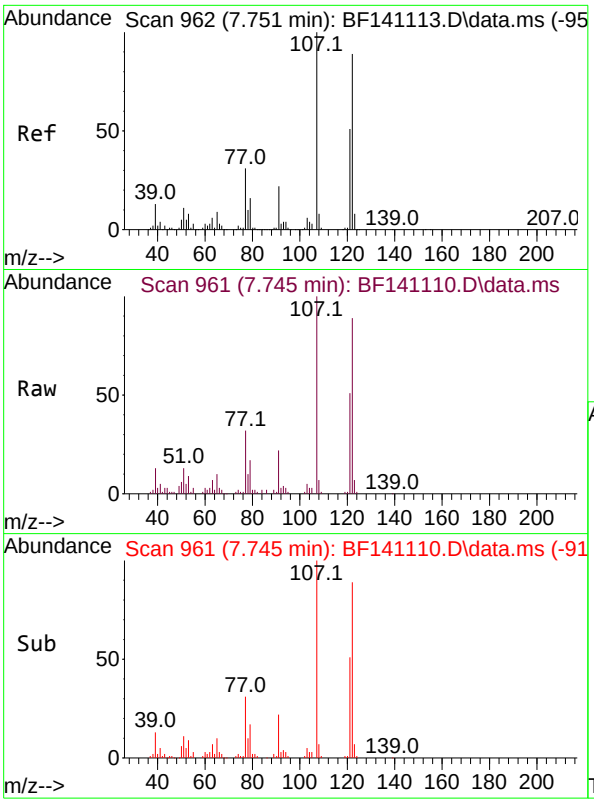


#26
2-Nitrophenol
Concen: 4.512 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:139 Resp: 24814

Ion	Ratio	Lower	Upper
139	100		
109	32.2	23.8	35.6
65	51.8	38.5	57.7



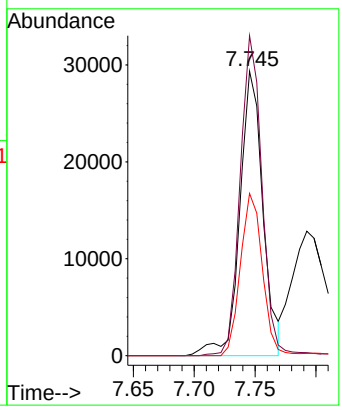


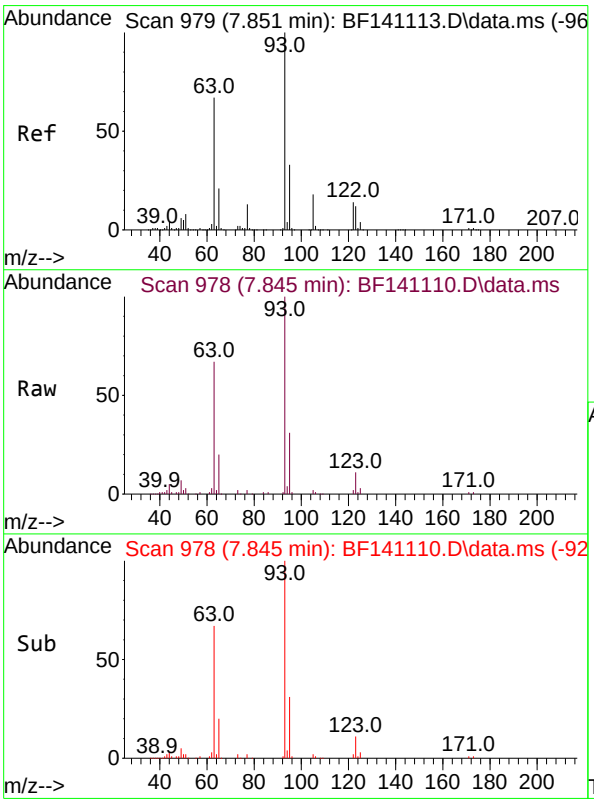
#27
2,4-Dimethylphenol
Concen: 5.219 ng
RT: 7.745 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 38719

Ion	Ratio	Lower	Upper
122	100		
107	112.5	90.3	135.5
121	57.0	46.5	69.7

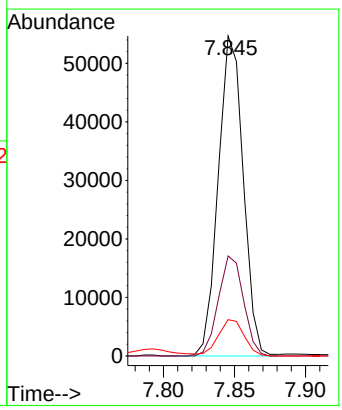


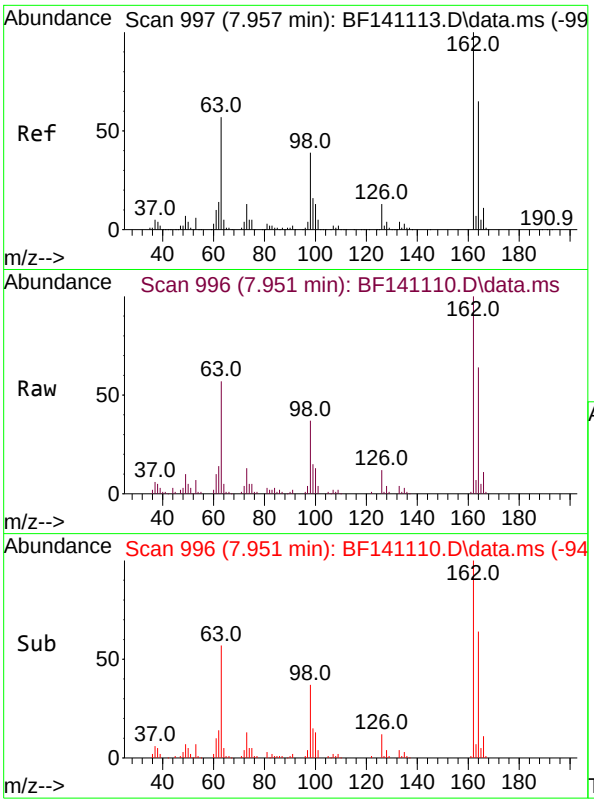


#28
bis(2-Chloroethoxy)methane
Concen: 5.372 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 93 Resp: 66840

Ion	Ratio	Lower	Upper
93	100		
95	31.3	26.2	39.4
123	11.4	10.1	15.1



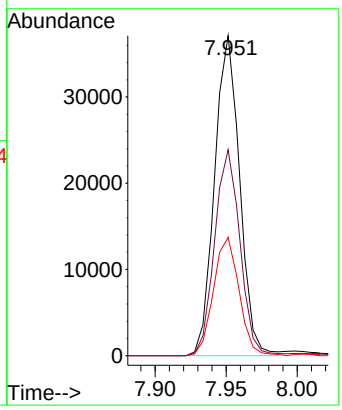


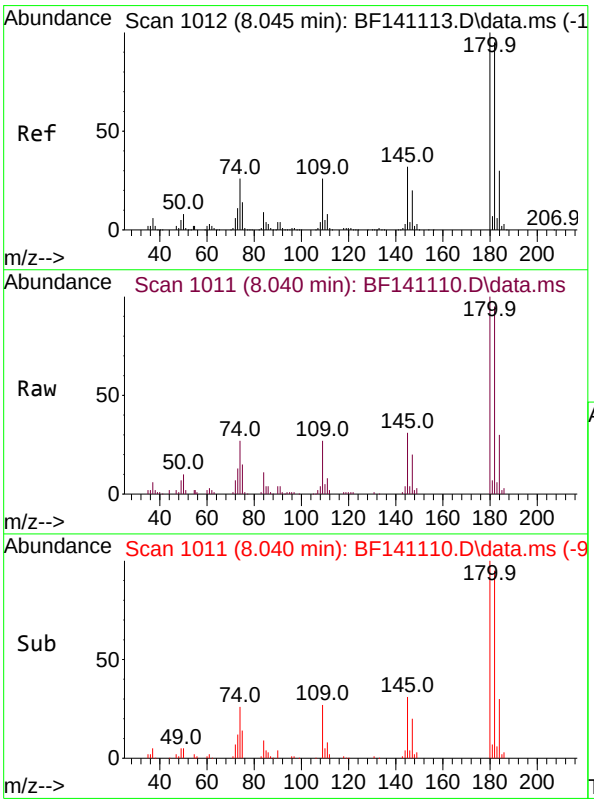
#29
2,4-Dichlorophenol
Concen: 5.171 ng
RT: 7.951 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 45561

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.5	84.5
98	36.9	18.5	58.5

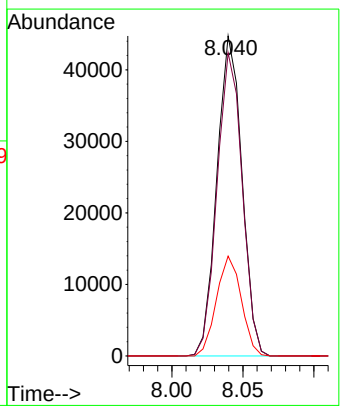


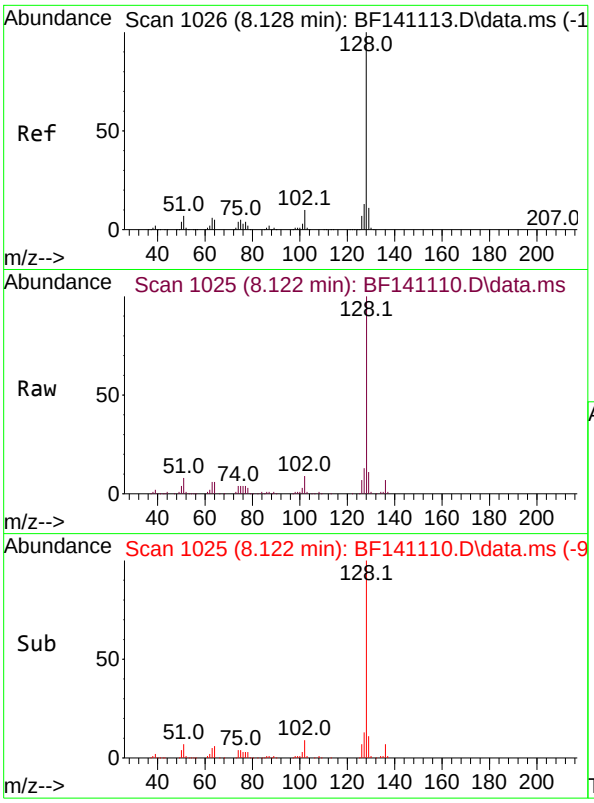


#30
1,2,4-Trichlorobenzene
Concen: 5.433 ng
RT: 8.040 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:180 Resp: 54712

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
145	31.2	25.3	37.9



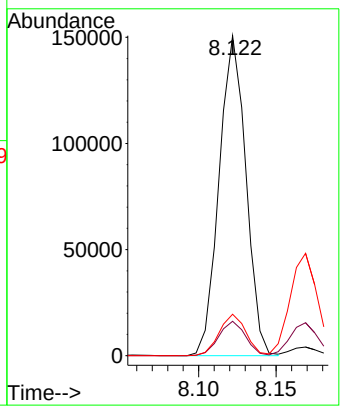


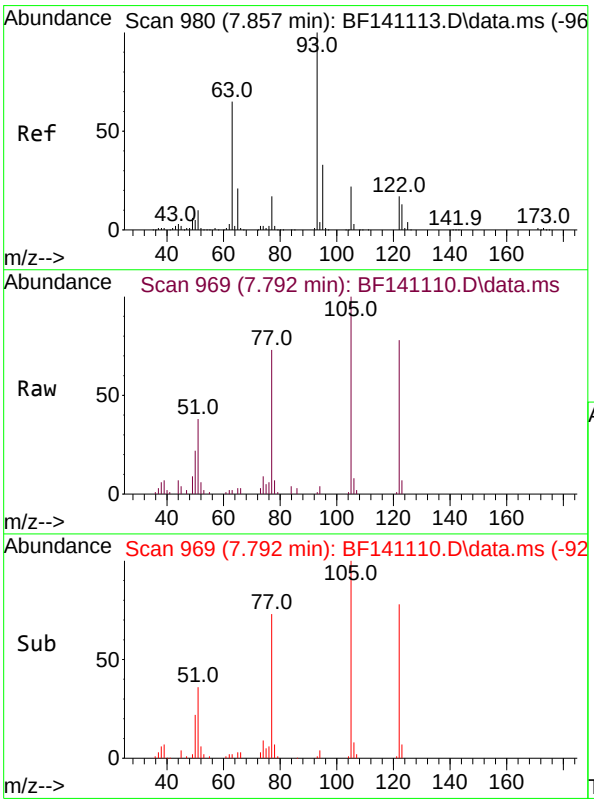
#31
Naphthalene
Concen: 5.585 ng
RT: 8.122 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 181124

Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.0	13.6
127	13.0	10.8	16.2

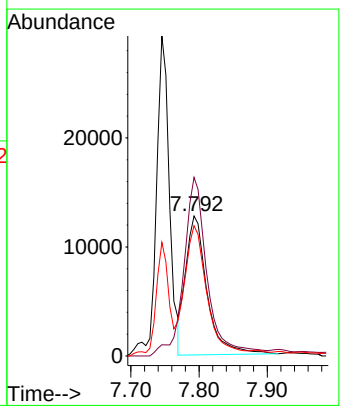


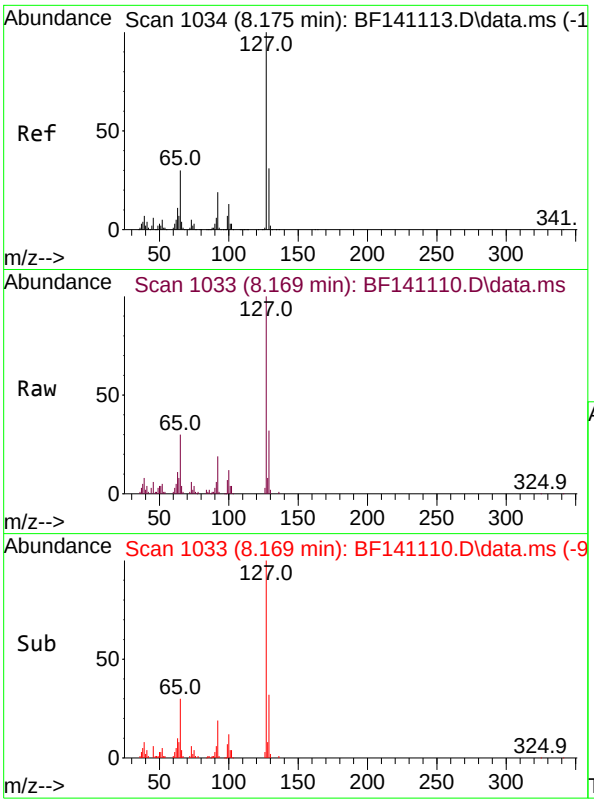


#32
Benzoic acid
Concen: 3.921 ng
RT: 7.792 min Scan# 969
Delta R.T. -0.065 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:122 Resp: 27905

Ion	Ratio	Lower	Upper
122	100		
105	127.6	105.5	145.5
77	93.1	75.1	115.1



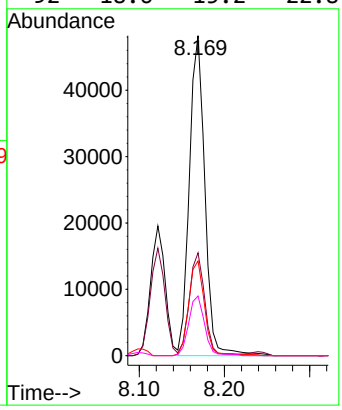


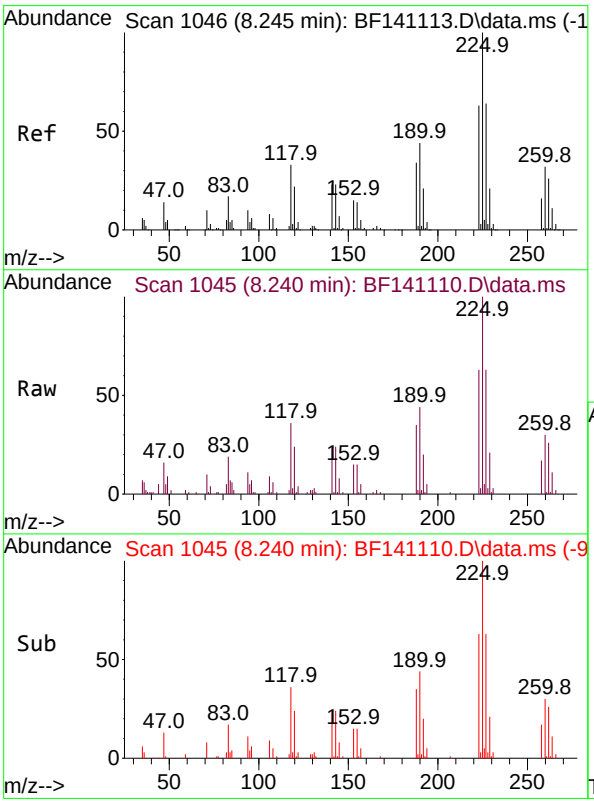
#33
4-Chloroaniline
Concen: 5.448 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:127 Resp: 61099

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	29.6	23.8	35.8
92	18.6	15.2	22.8

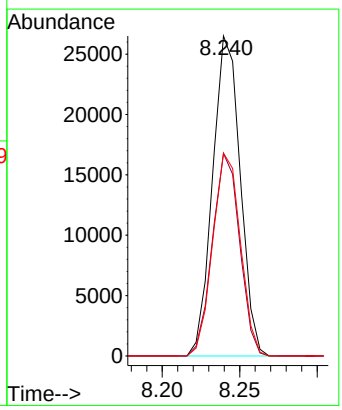


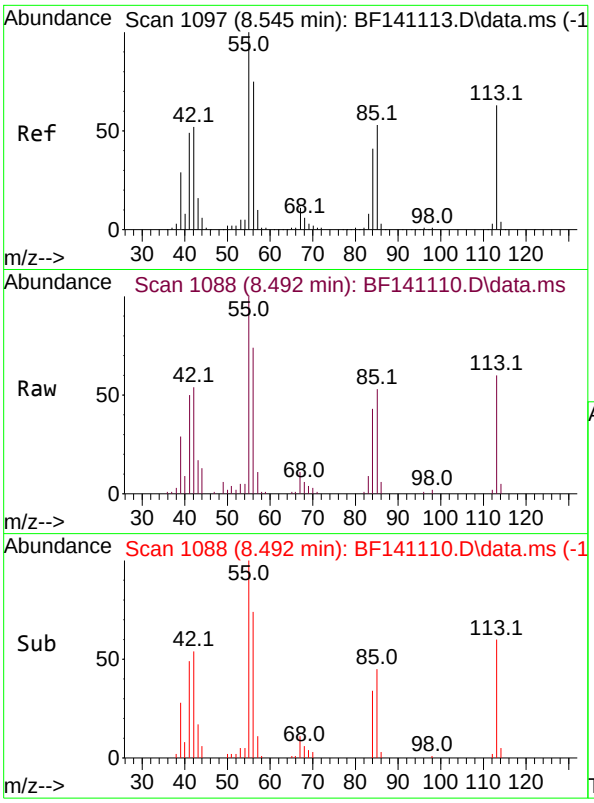


#34
Hexachlorobutadiene
Concen: 5.408 ng
RT: 8.240 min Scan# 1045
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:225 Resp: 32815

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.6	76.0
227	63.4	51.6	77.4



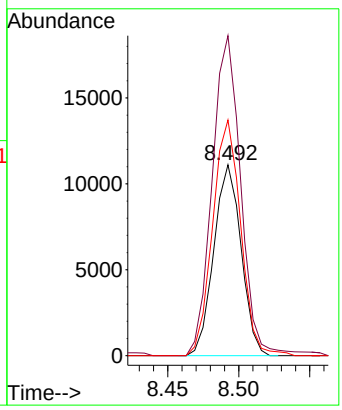


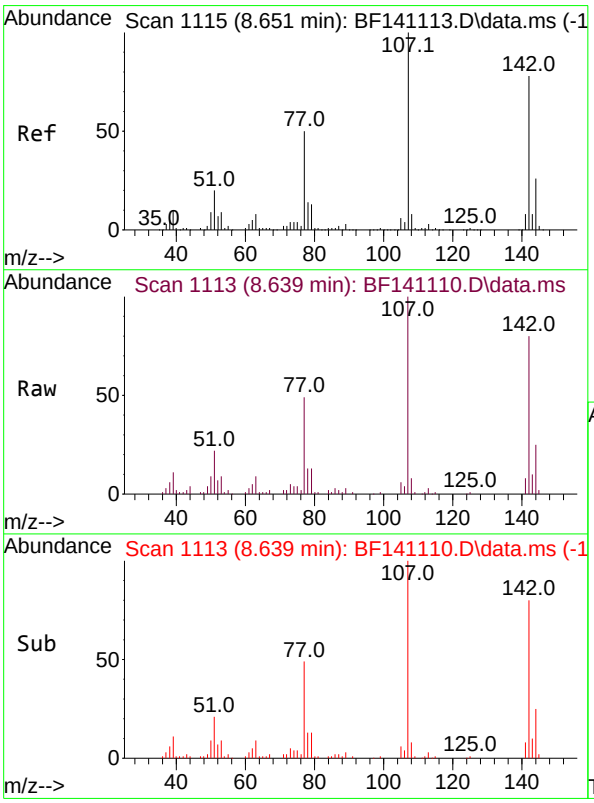
#35
Caprolactam
Concen: 5.127 ng
RT: 8.492 min Scan# 1
Delta R.T. -0.053 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:113 Resp: 14819

Ion	Ratio	Lower	Upper
113	100		
55	167.7	139.7	179.7
56	123.5	99.4	139.4

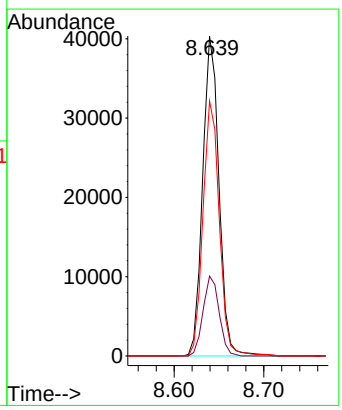


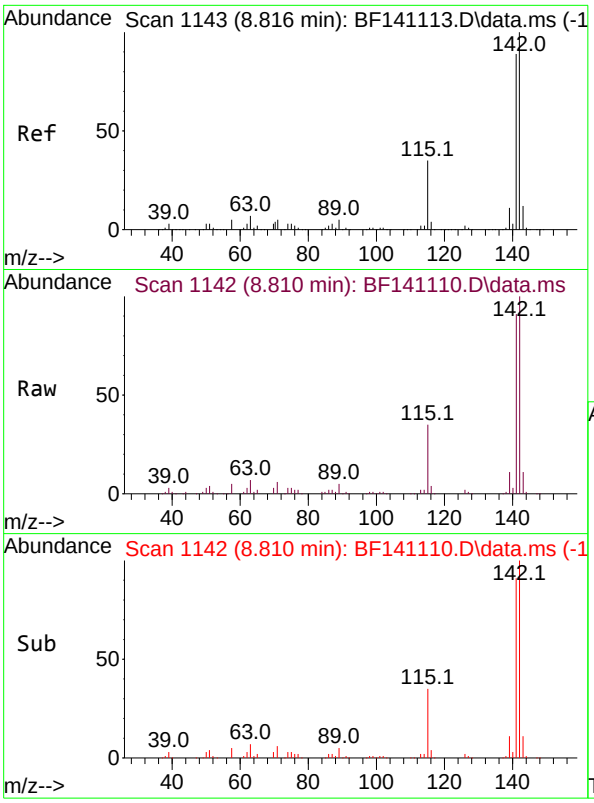


#36
4-Chloro-3-methylphenol
Concen: 5.278 ng
RT: 8.639 min Scan# 1113
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:107 Resp: 50853

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.4	30.6
142	79.7	62.2	93.2



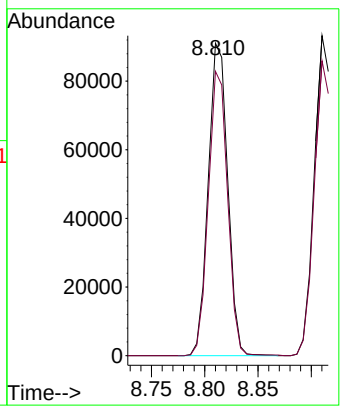


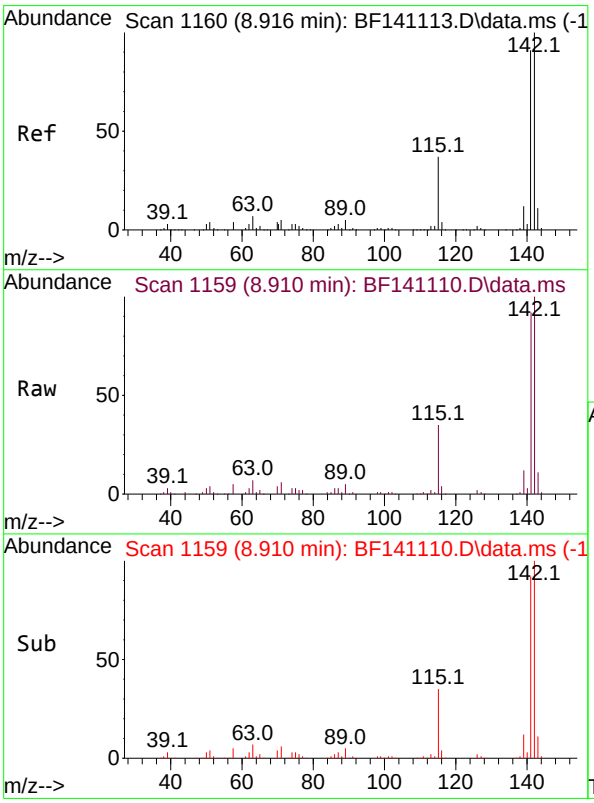
#37
2-Methylnaphthalene
Concen: 5.591 ng
RT: 8.810 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 115532

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.3	106.9

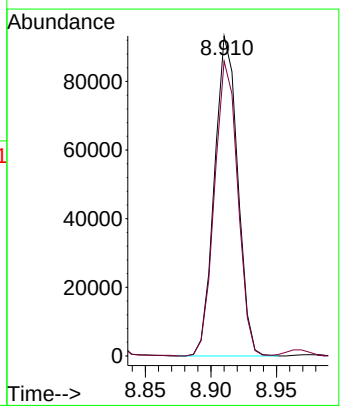


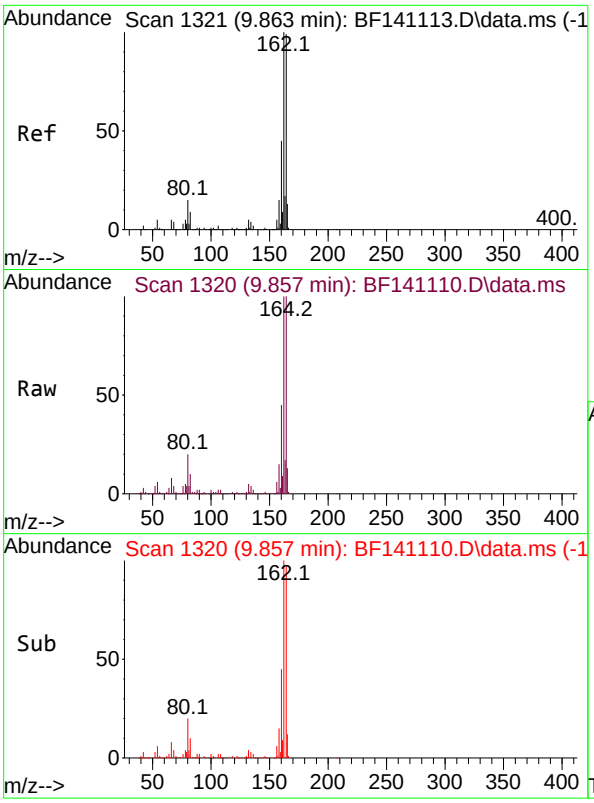


#38
1-Methylnaphthalene
Concen: 5.637 ng
RT: 8.910 min Scan# 1159
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:142 Resp: 114809

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.1	109.7



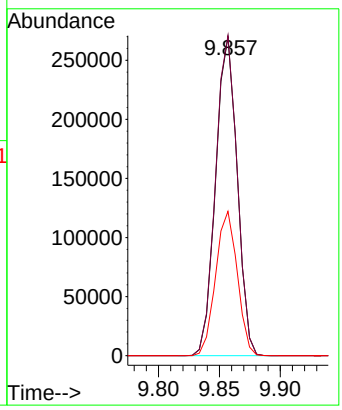


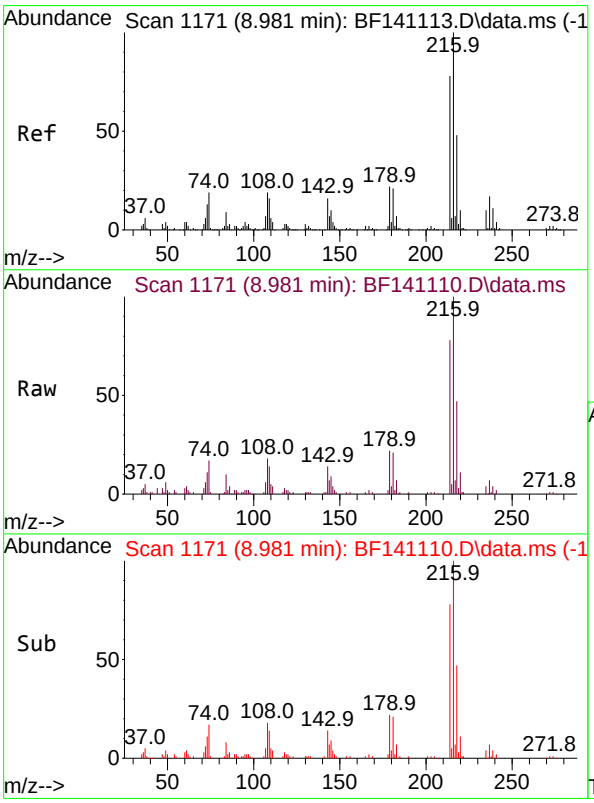
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 332087

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.4
160	45.3	36.1	54.1

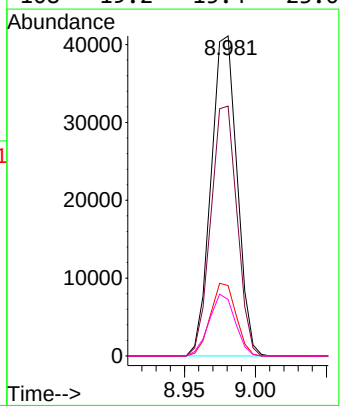


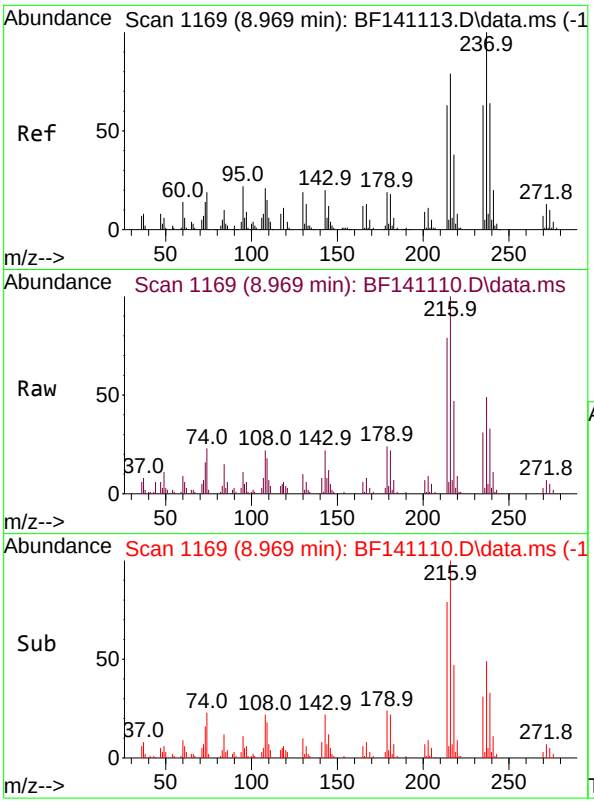


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.506 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:216 Resp: 52480

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.6	94.0
179	22.4	17.7	26.5
108	19.2	15.4	23.0



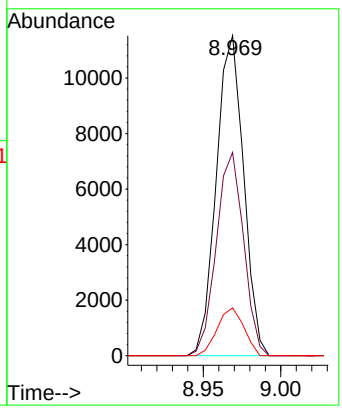


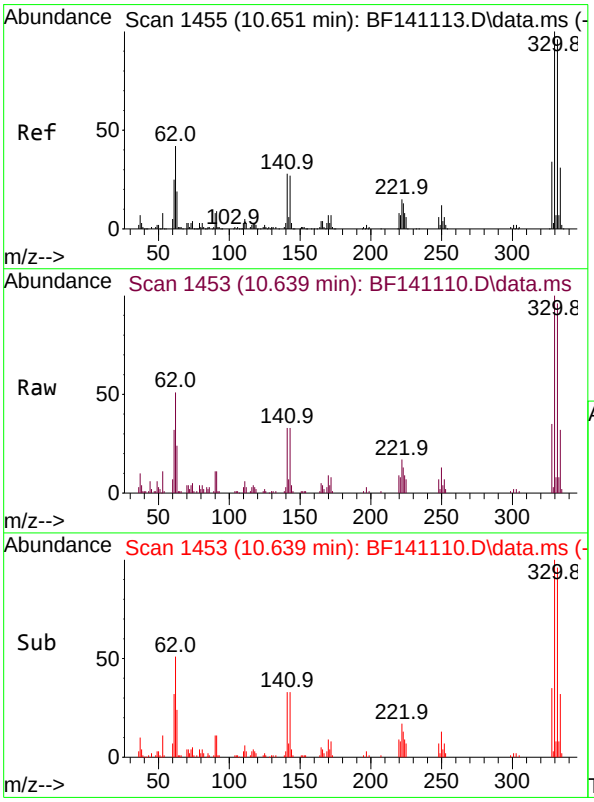
#41
Hexachlorocyclopentadiene
Concen: 4.534 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 14138

Ion	Ratio	Lower	Upper
237	100		
235	63.5	43.0	83.0
272	15.0	0.0	33.0

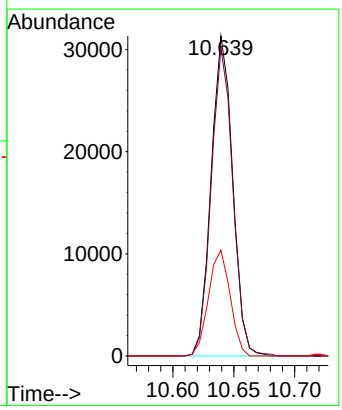


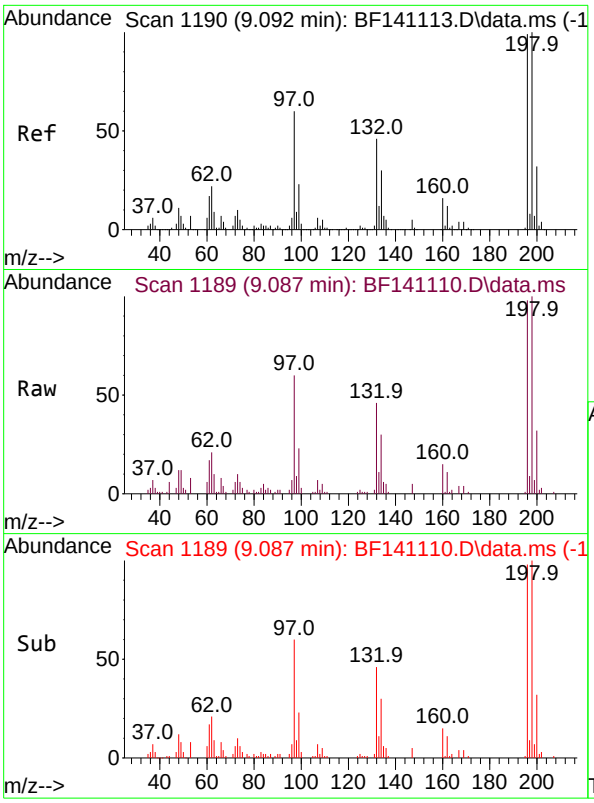


#42
2,4,6-Tribromophenol
Concen: 10.205 ng
RT: 10.639 min Scan# 1453
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:330 Resp: 38615

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	33.2	25.2	37.8



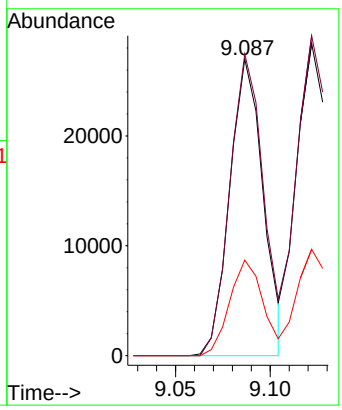


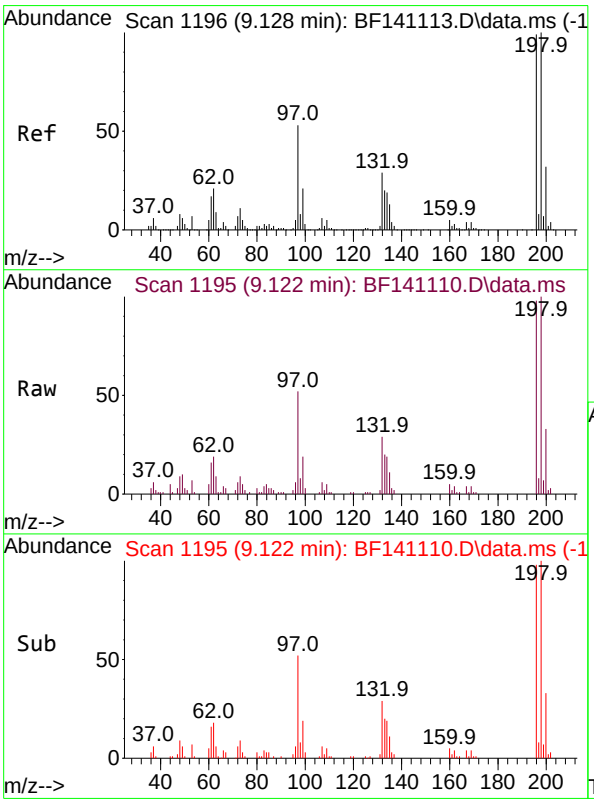
#43
2,4,6-Trichlorophenol
Concen: 5.149 ng
RT: 9.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 33100

Ion	Ratio	Lower	Upper
196	100		
198	101.7	80.8	121.2
200	32.2	25.7	38.5

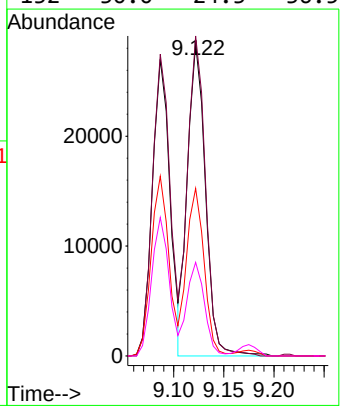


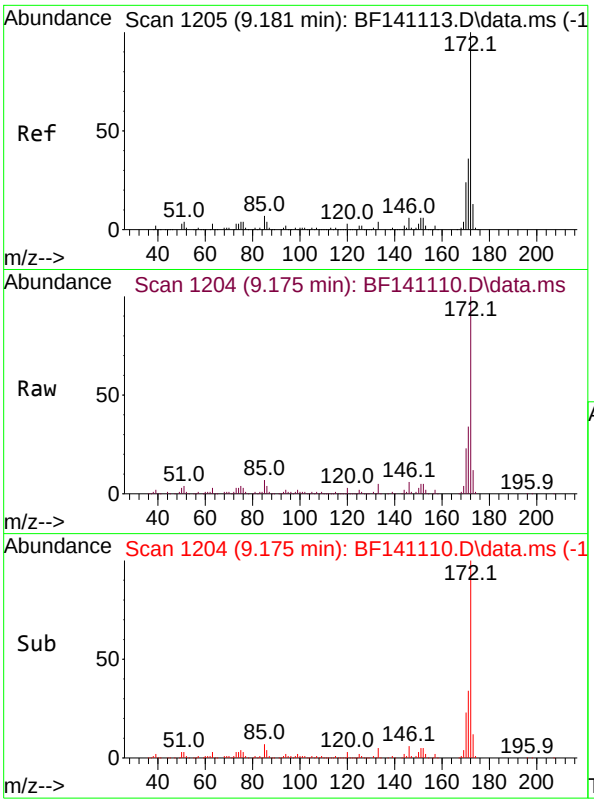


#44
2,4,5-Trichlorophenol
Concen: 5.244 ng
RT: 9.122 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:196 Resp: 35605

Ion	Ratio	Lower	Upper
196	100		
198	102.5	80.6	120.8
97	53.7	43.1	64.7
132	30.0	24.3	36.5



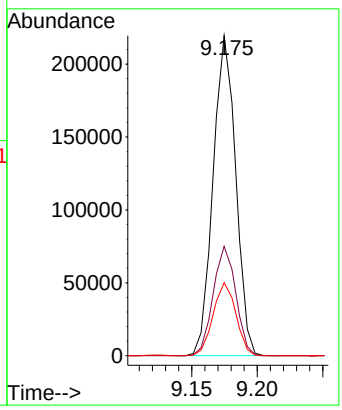


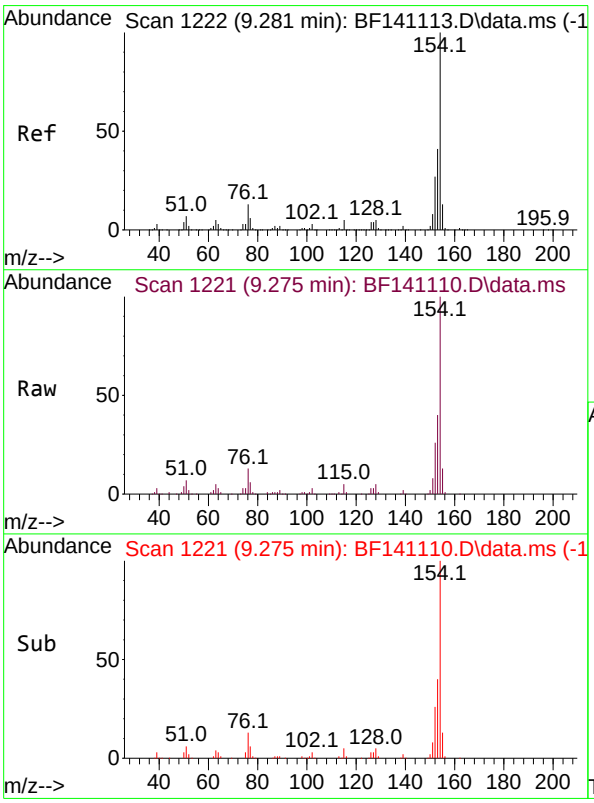
#45
2-Fluorobiphenyl
Concen: 12.080 ng
RT: 9.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 262701

Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.7	43.1
170	22.8	19.0	28.6

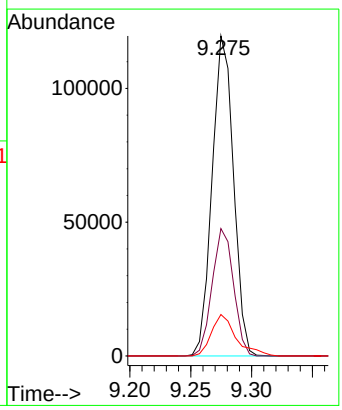


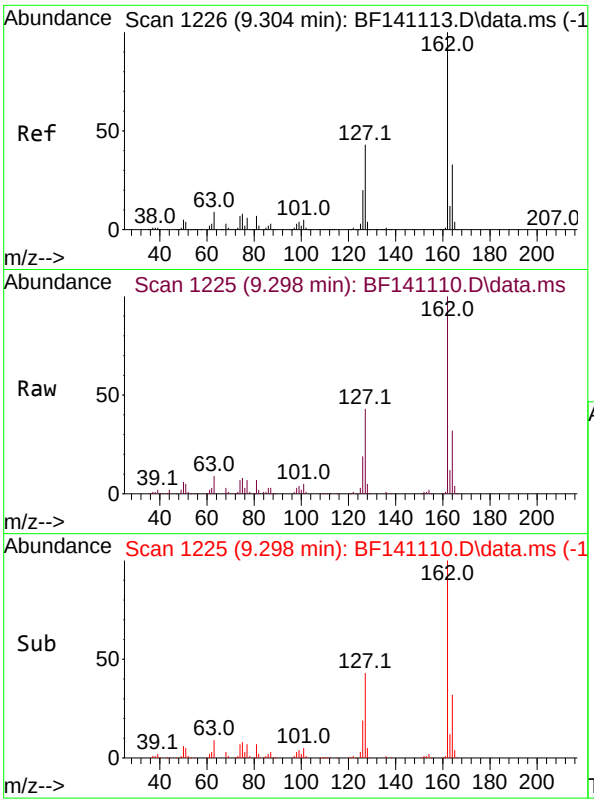


#46
1,1'-Biphenyl
Concen: 5.668 ng
RT: 9.275 min Scan# 1221
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:154 Resp: 146178

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.7	60.7
76	13.0	0.0	33.1



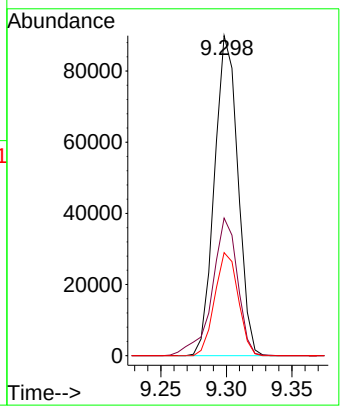


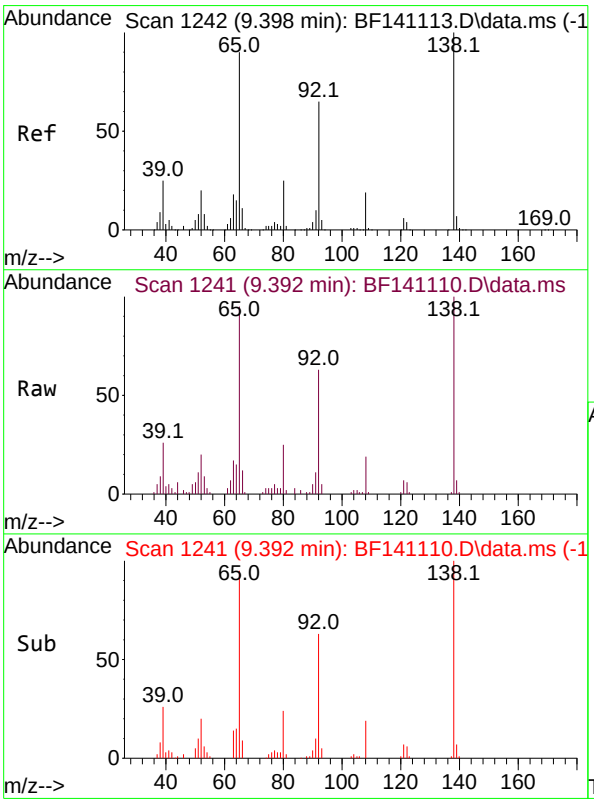
#47
2-Chloronaphthalene
Concen: 5.559 ng
RT: 9.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 111654

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.6	51.8
164	32.2	26.5	39.7

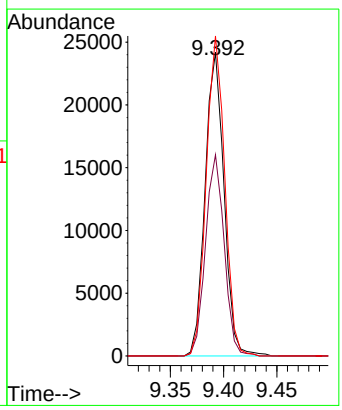


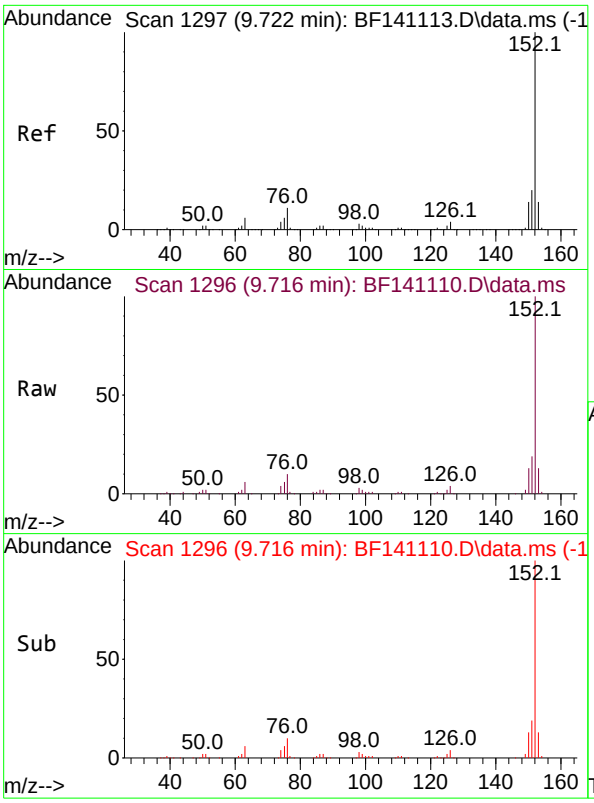


#48
2-Nitroaniline
Concen: 5.021 ng
RT: 9.392 min Scan# 1241
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 65 Resp: 29900

Ion	Ratio	Lower	Upper
65	100		
92	66.2	58.3	87.5
138	105.4	89.1	133.7



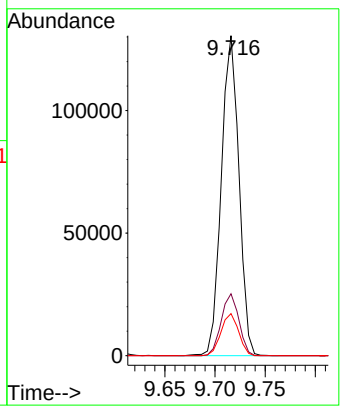


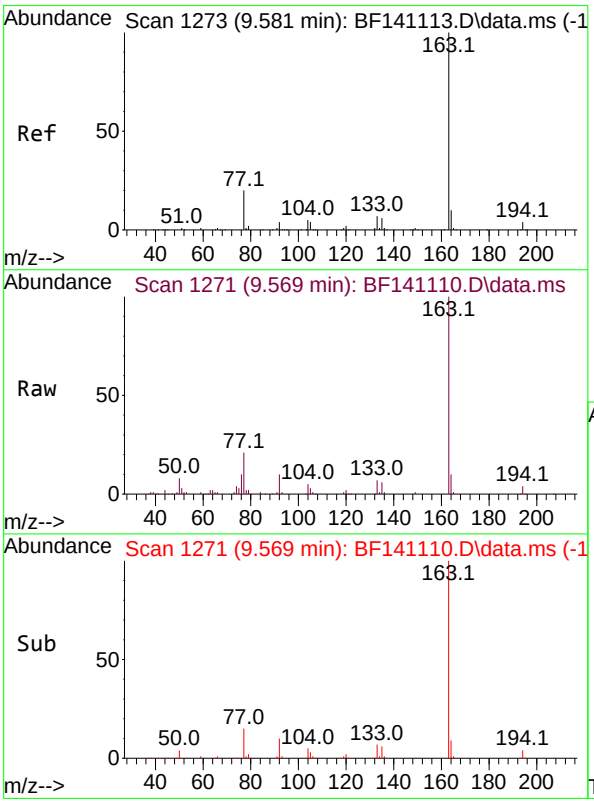
#49
Acenaphthylene
Concen: 5.541 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 159028

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.1	24.1
153	13.1	11.1	16.7

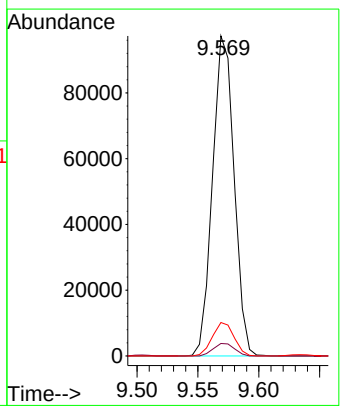


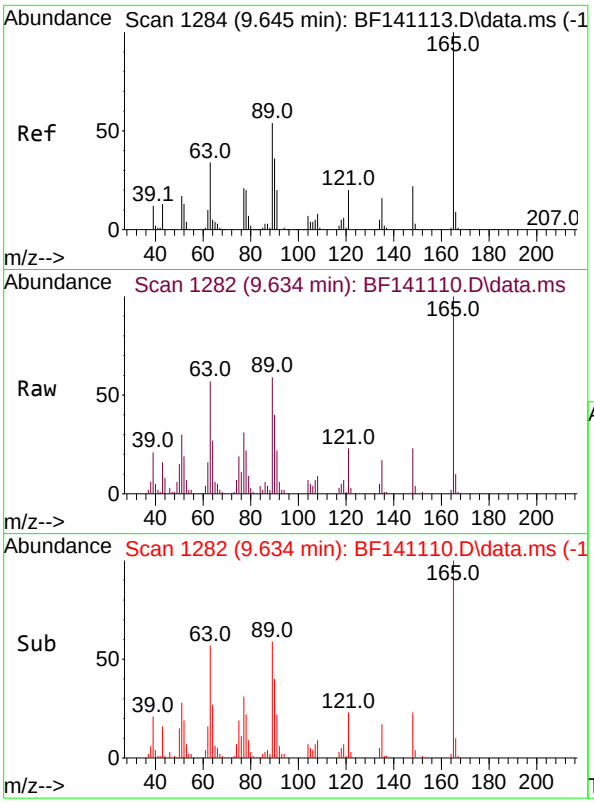


#50
Dimethylphthalate
Concen: 5.389 ng
RT: 9.569 min Scan# 1271
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:163 Resp: 120152

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.5	8.2	12.4



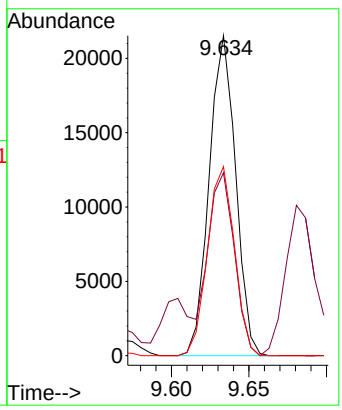


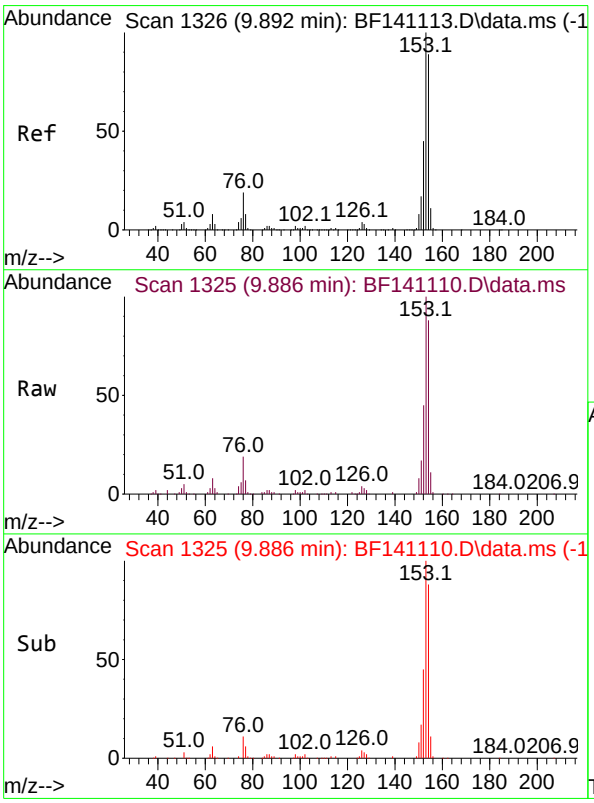
#51
2,6-Dinitrotoluene
Concen: 4.929 ng
RT: 9.634 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 25553

Ion	Ratio	Lower	Upper
165	100		
63	57.2	42.3	63.5
89	59.1	43.1	64.7

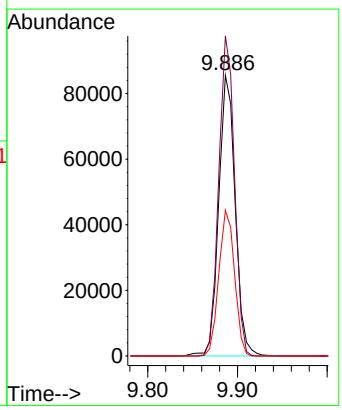


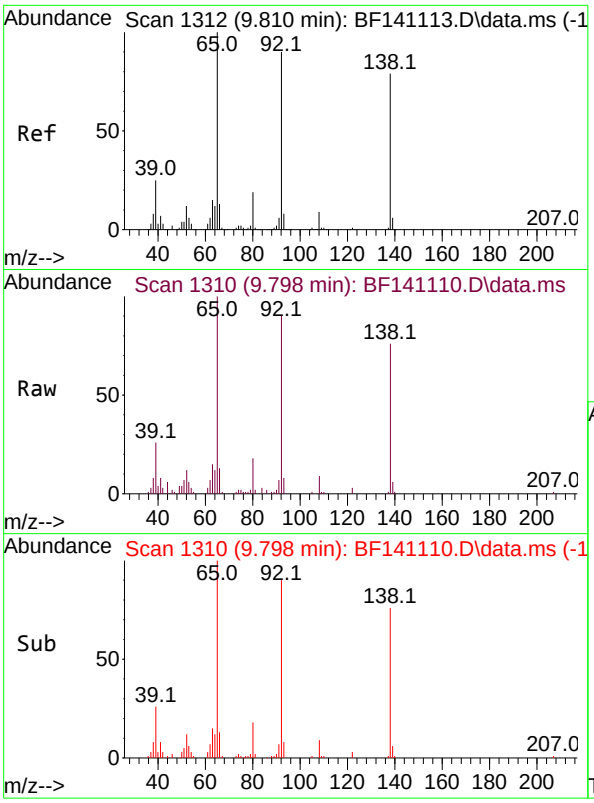


#52
Acenaphthene
Concen: 5.452 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:154 Resp: 109318

Ion	Ratio	Lower	Upper
154	100		
153	114.0	89.8	134.6
152	51.9	40.8	61.2



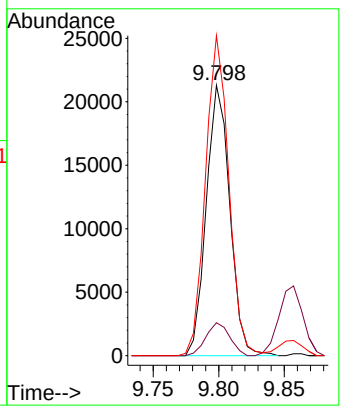


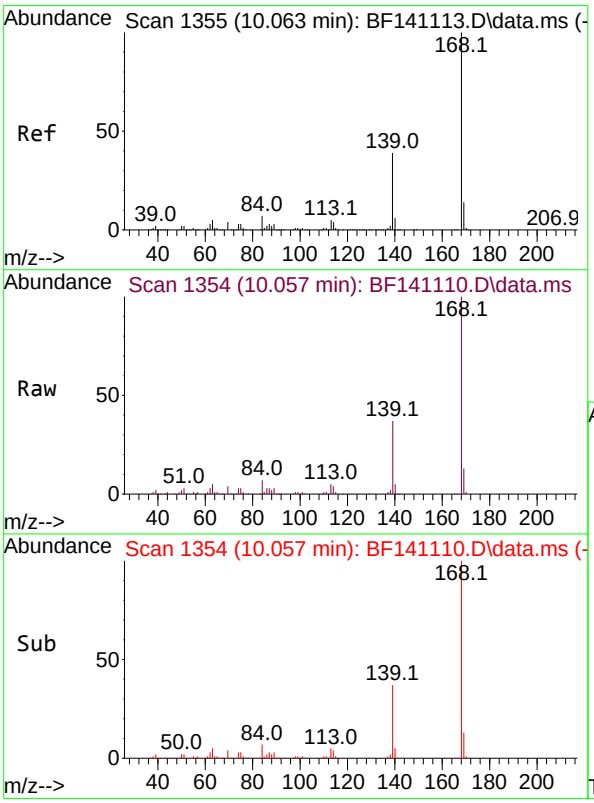
#53
3-Nitroaniline
Concen: 5.058 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 26650

Ion	Ratio	Lower	Upper
138	100		
108	12.2	8.8	13.2
92	118.4	91.3	136.9

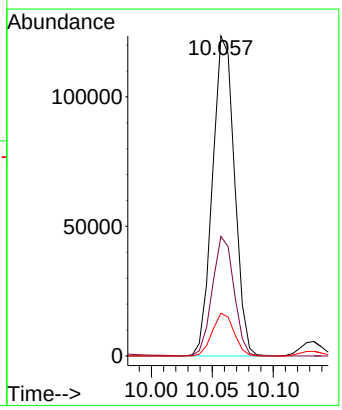


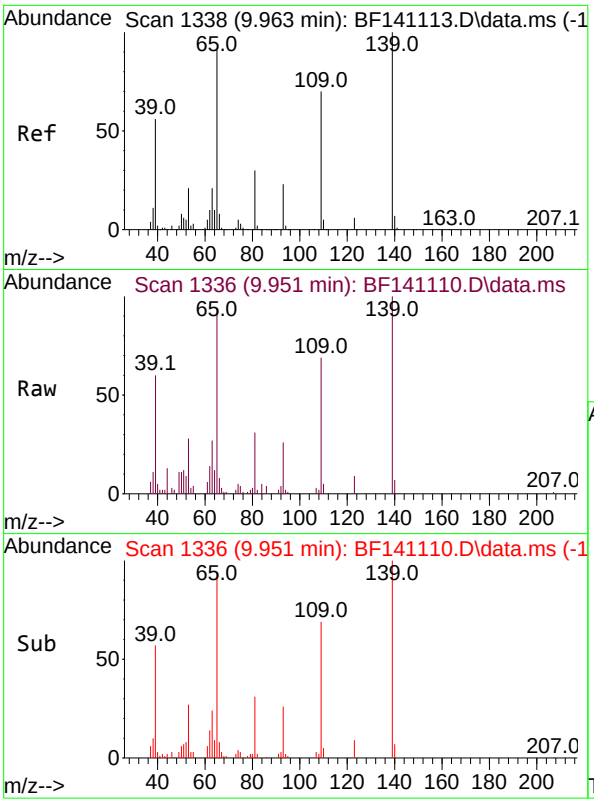


#55
Dibenzofuran
Concen: 5.680 ng
RT: 10.057 min Scan# 1354
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:168 Resp: 154910

Ion	Ratio	Lower	Upper
168	100		
139	37.3	31.4	47.0
169	13.4	10.9	16.3



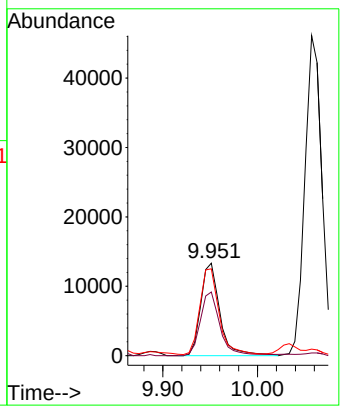


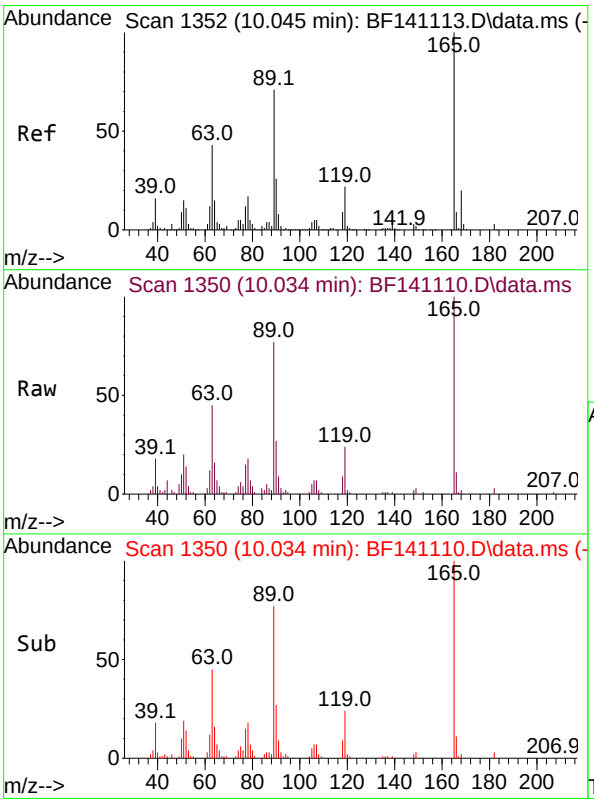
#56
4-Nitrophenol
Concen: 4.505 ng
RT: 9.951 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 18587

Ion	Ratio	Lower	Upper
139	100		
109	68.8	50.2	90.2
65	93.9	72.1	112.1

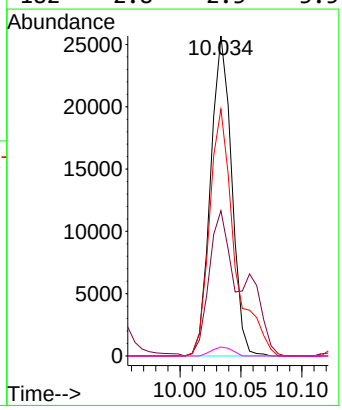


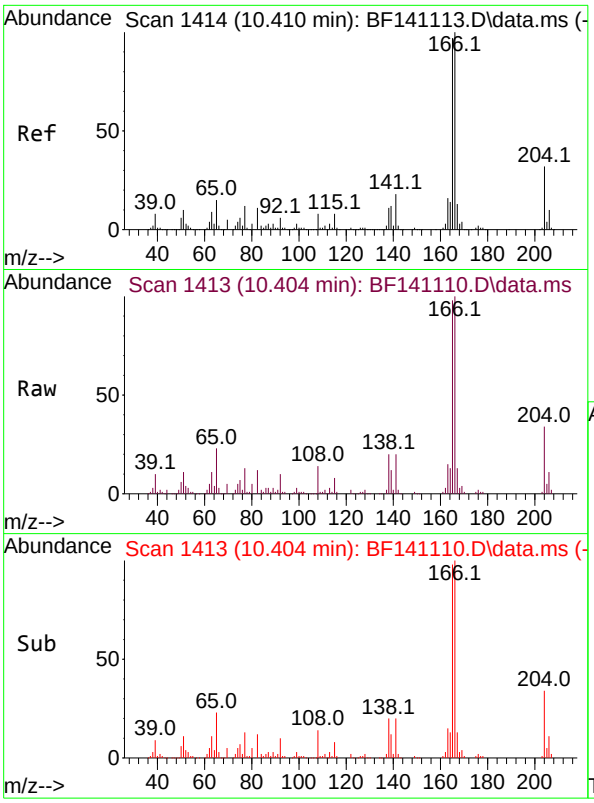


#57
2,4-Dinitrotoluene
Concen: 4.619 ng
RT: 10.034 min Scan# 1350
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:165 Resp: 30860

Ion	Ratio	Lower	Upper
165	100		
63	45.4	35.0	52.4
89	77.2	56.7	85.1
182	2.8	2.3	3.5



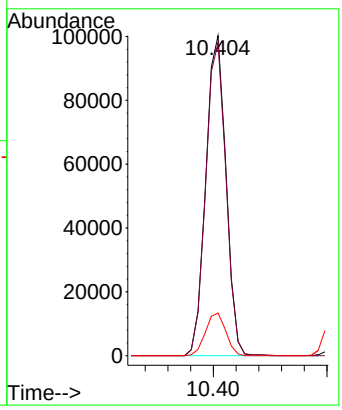


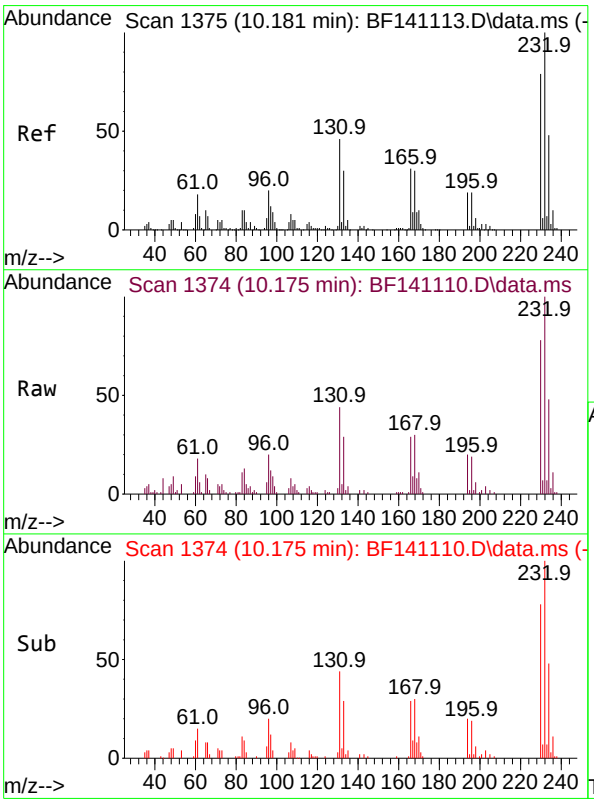
#58
Fluorene
Concen: 5.829 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 123503

Ion	Ratio	Lower	Upper
166	100		
165	97.8	77.8	116.8
167	13.3	10.8	16.2

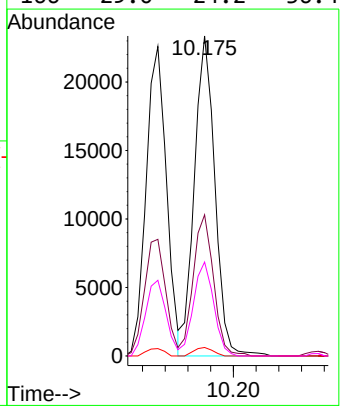


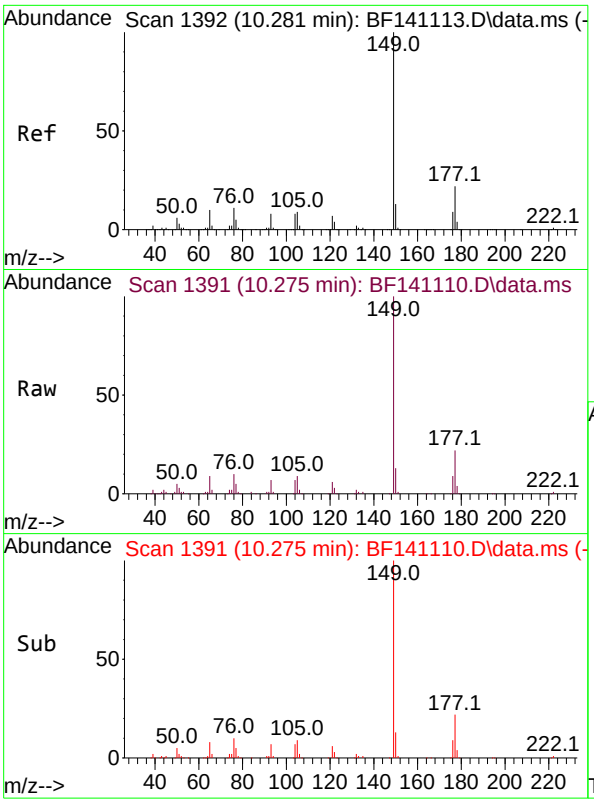


#59
2,3,4,6-Tetrachlorophenol
Concen: 5.199 ng
RT: 10.175 min Scan# 1374
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:232 Resp: 29338

Ion	Ratio	Lower	Upper
232	100		
131	43.9	36.2	54.4
130	2.4	2.0	3.0
166	29.0	24.2	36.4



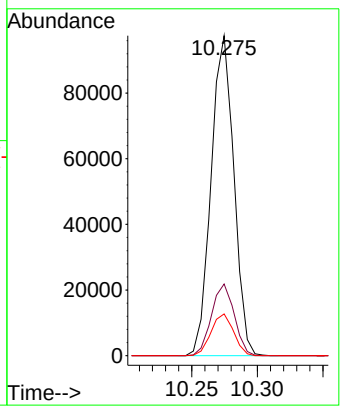


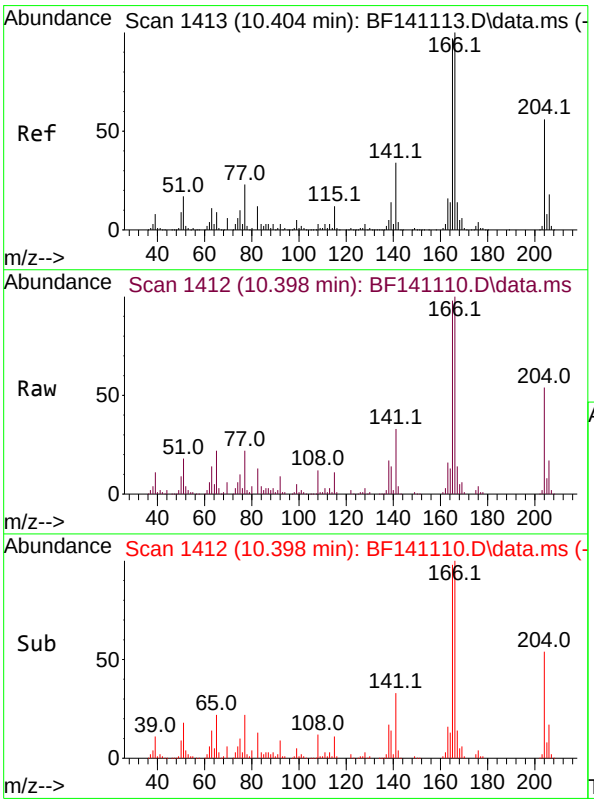
#60
Diethylphthalate
Concen: 5.401 ng
RT: 10.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 117549

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	13.0	10.2	15.2

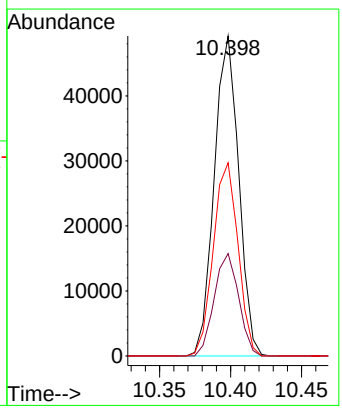


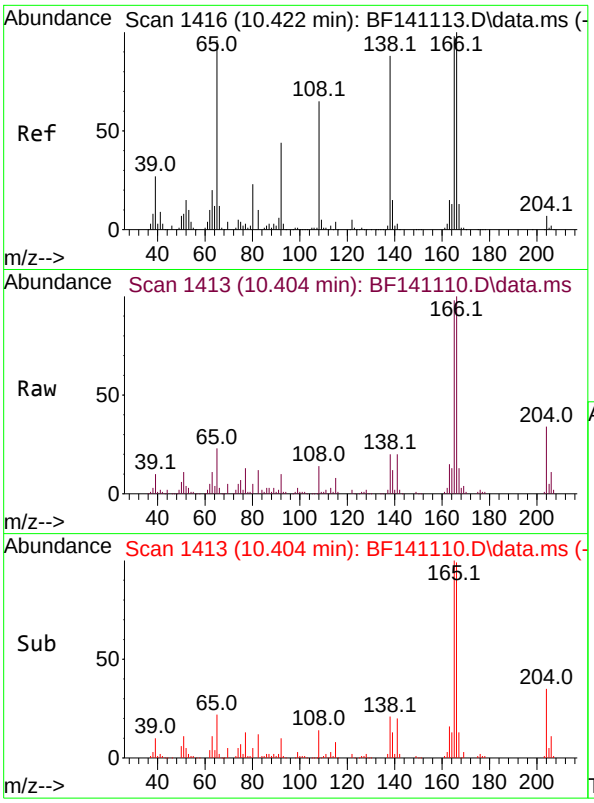


#61
4-Chlorophenyl-phenylether
Concen: 5.698 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:204 Resp: 58845

Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.9	38.9
141	60.3	49.1	73.7



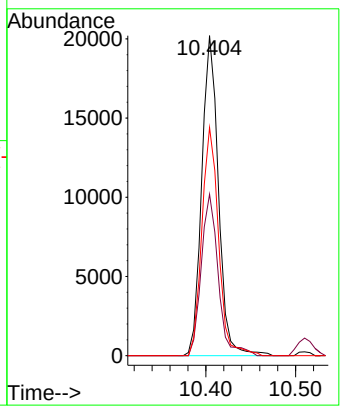


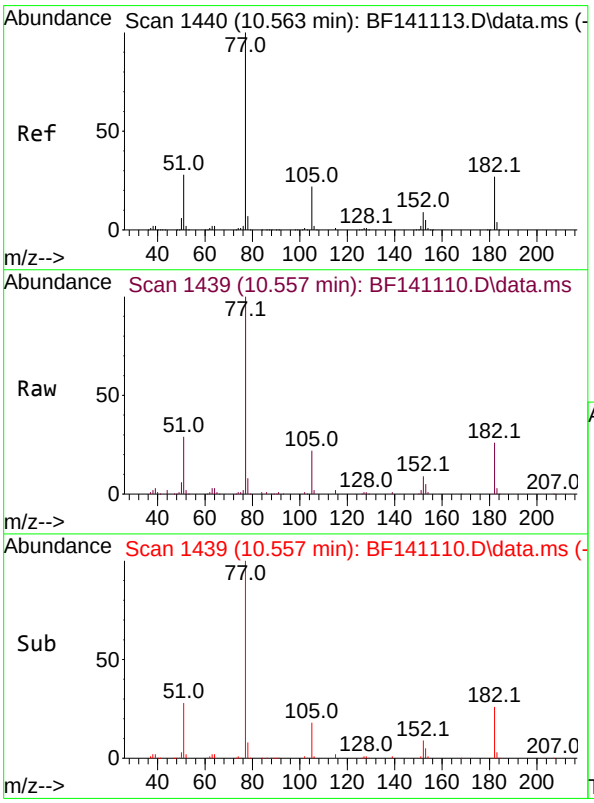
#62
4-Nitroaniline
Concen: 5.060 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 26092

Ion	Ratio	Lower	Upper
138	100		
92	50.5	29.4	69.4
108	71.3	53.7	93.7

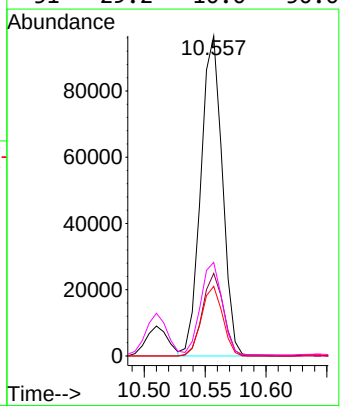


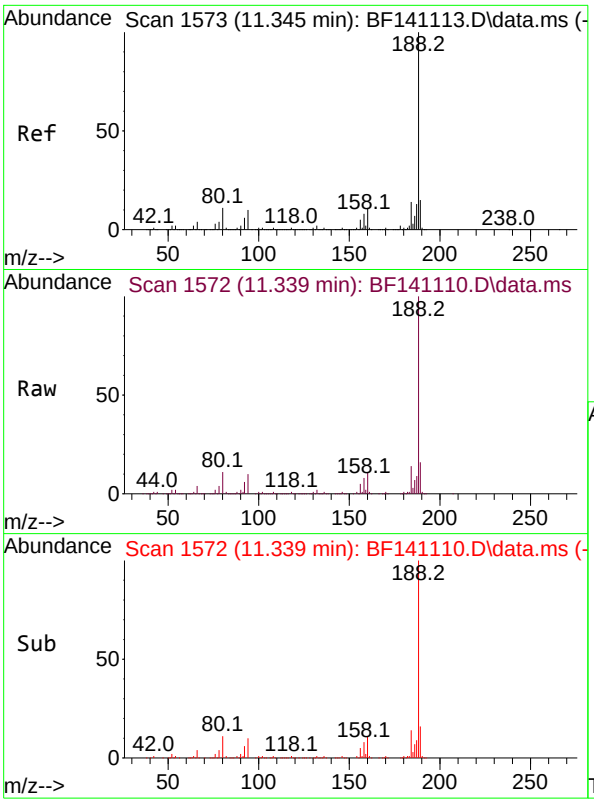


#63
Azobenzene
Concen: 5.528 ng
RT: 10.557 min Scan# 1439
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion: 77 Resp: 118725

Ion	Ratio	Lower	Upper
77	100		
182	25.8	6.1	46.1
105	21.8	2.1	42.1
51	29.2	10.0	50.0



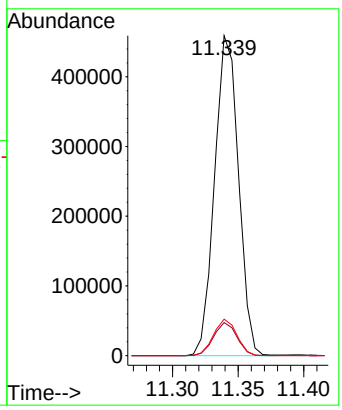


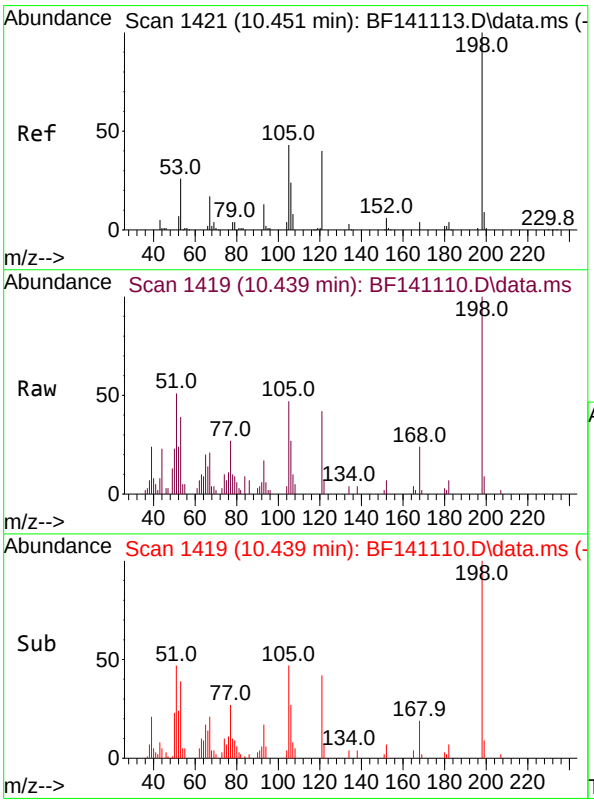
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 581741

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.3	12.5
80	11.4	9.0	13.4

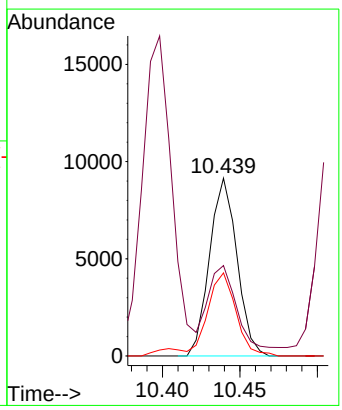


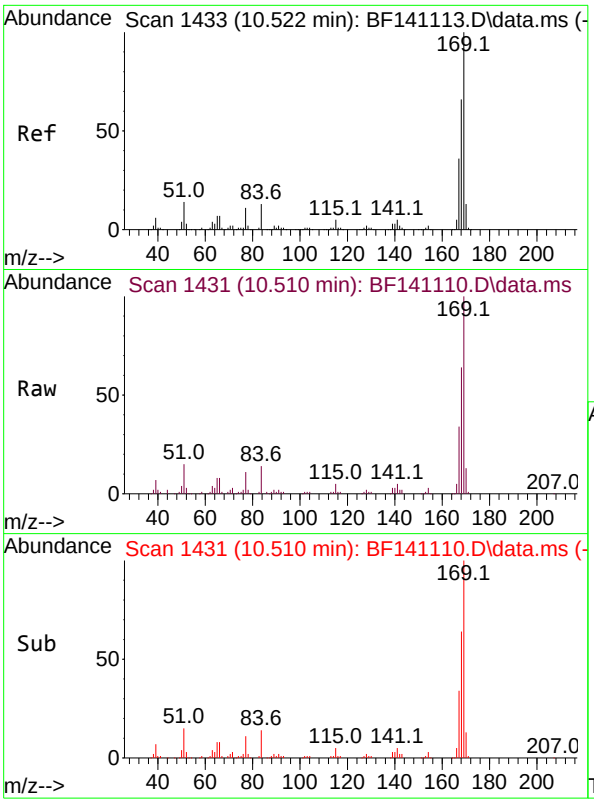


#65
4,6-Dinitro-2-methylphenol
Concen: 3.337 ng
RT: 10.439 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:198 Resp: 11249

Ion	Ratio	Lower	Upper
198	100		
51	50.8	27.1	67.1
105	46.7	24.2	64.2



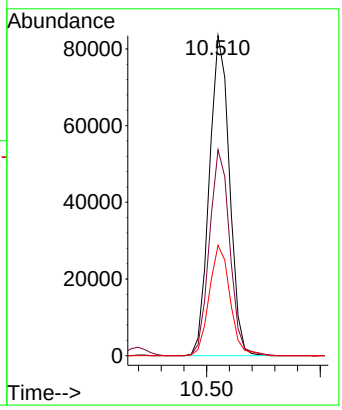


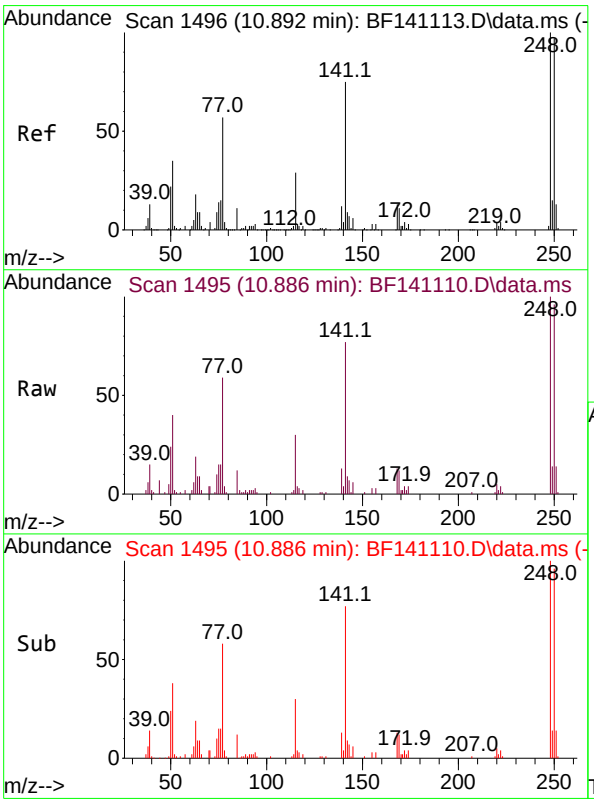
#66
n-Nitrosodiphenylamine
Concen: 5.471 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:169 Resp: 102664

Ion	Ratio	Lower	Upper
169	100		
168	64.4	52.5	78.7
167	34.5	28.9	43.3

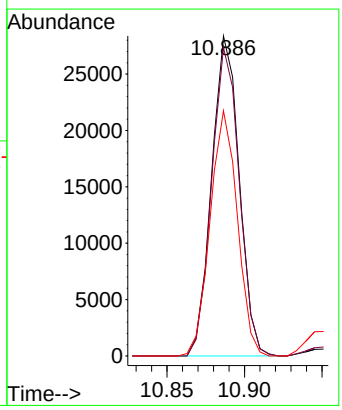


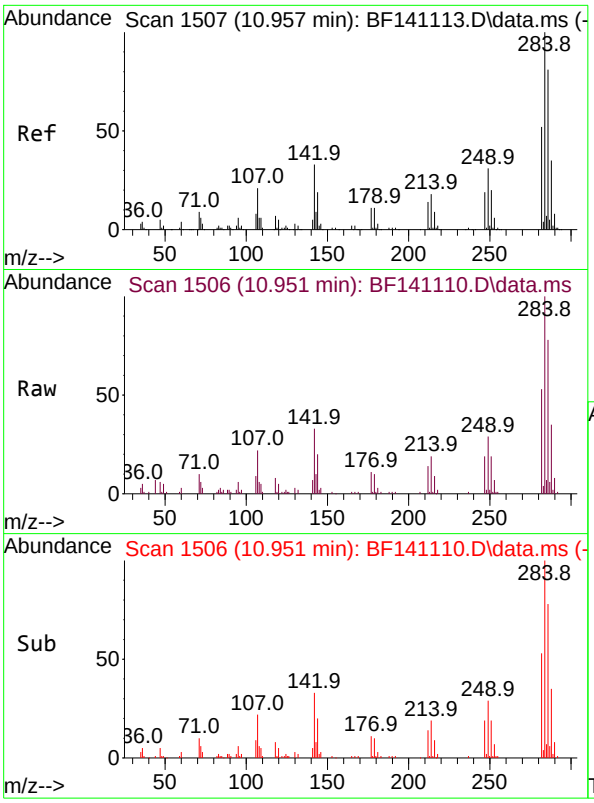


#67
4-Bromophenyl-phenylether
Concen: 5.232 ng
RT: 10.886 min Scan# 1495
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:248 Resp: 35042

Ion	Ratio	Lower	Upper
248	100		
250	96.4	77.9	116.9
141	76.6	59.9	89.9



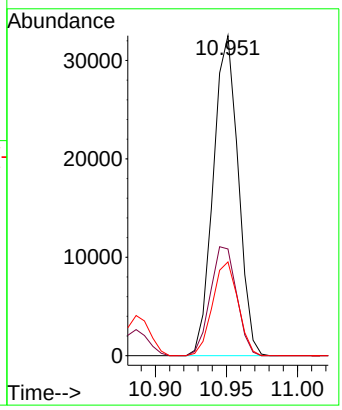


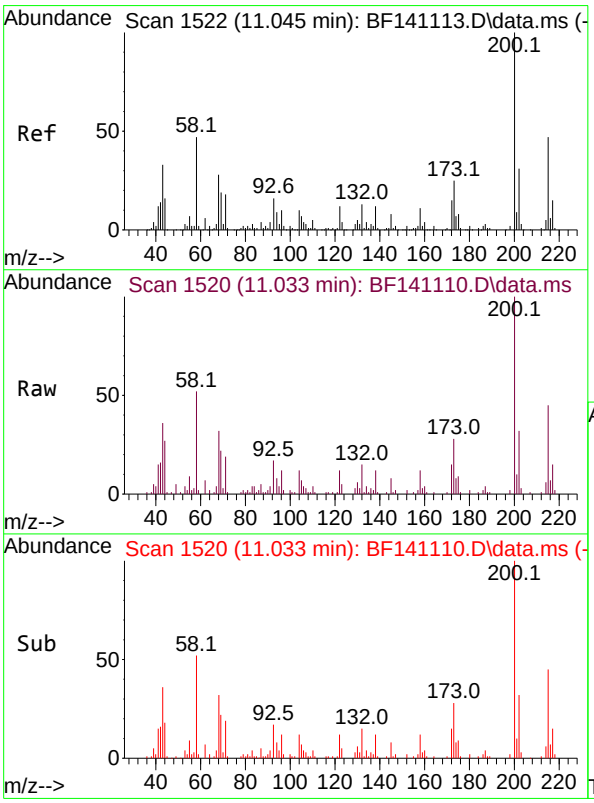
#68
Hexachlorobenzene
Concen: 5.332 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:284 Resp: 39756

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.3	39.5
249	29.3	24.9	37.3

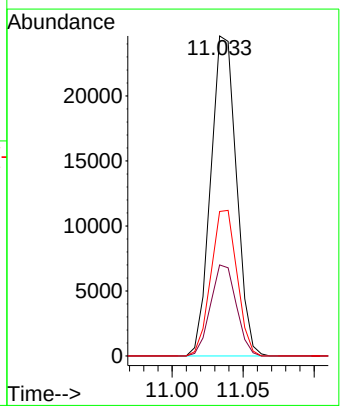


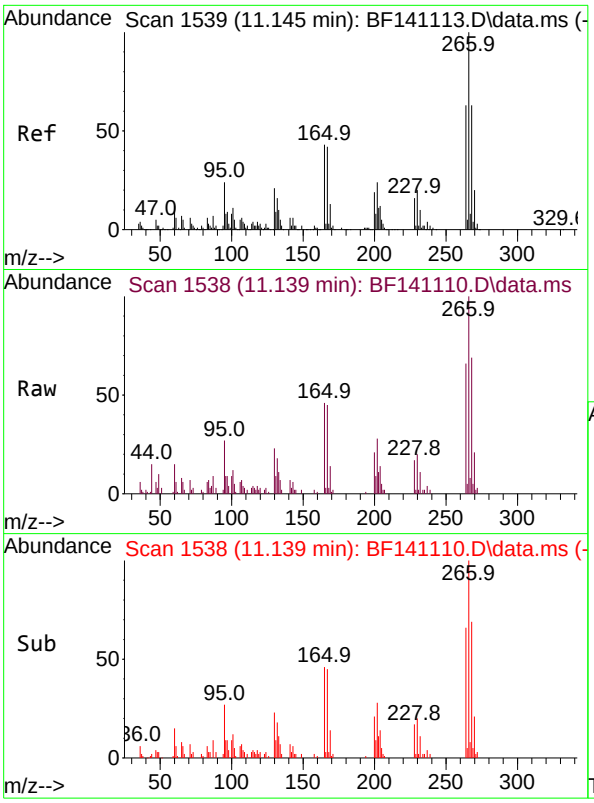


#69
Atrazine
Concen: 6.131 ng
RT: 11.033 min Scan# 1520
Delta R.T. -0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:200 Resp: 30974

Ion	Ratio	Lower	Upper
200	100		
173	28.5	5.4	45.4
215	45.2	26.6	66.6



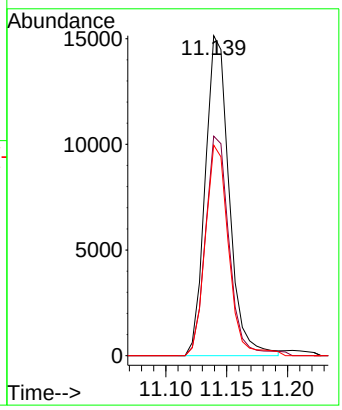


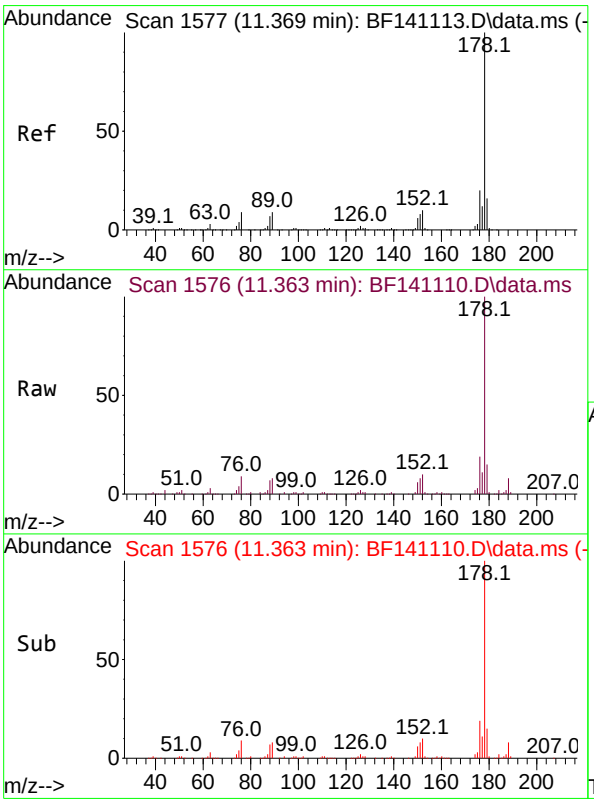
#70
Pentachlorophenol
Concen: 4.338 ng
RT: 11.139 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:266 Resp: 20711

Ion	Ratio	Lower	Upper
266	100		
268	68.6	50.4	75.6
264	65.8	50.2	75.2

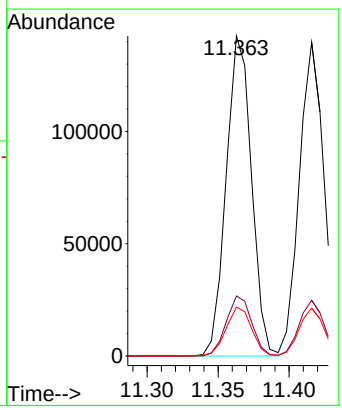


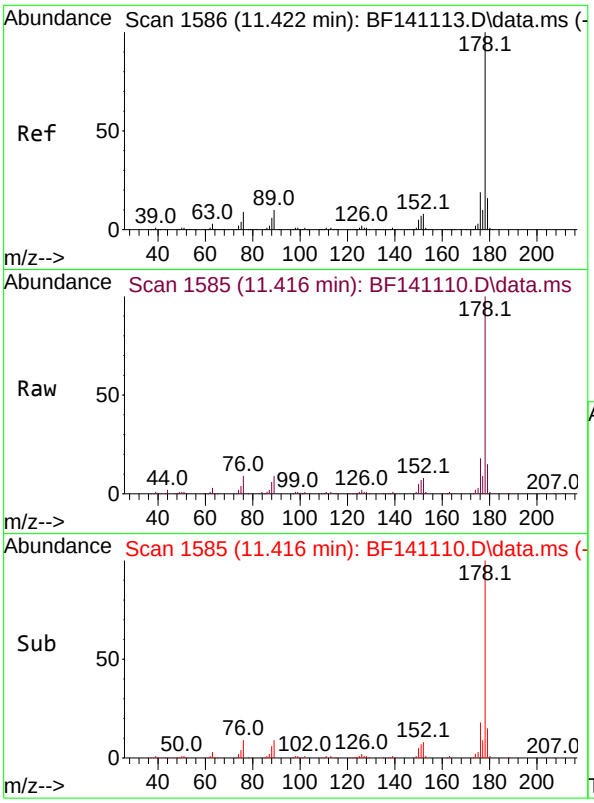


#71
Phenanthrene
Concen: 5.670 ng
RT: 11.363 min Scan# 1576
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:178 Resp: 177095

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.7	23.5
179	15.3	12.6	19.0



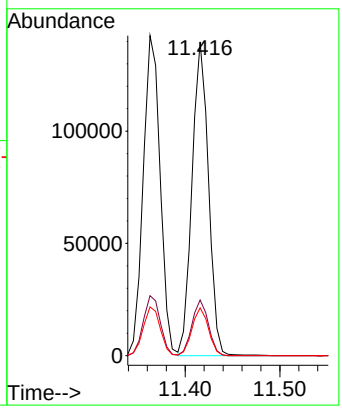


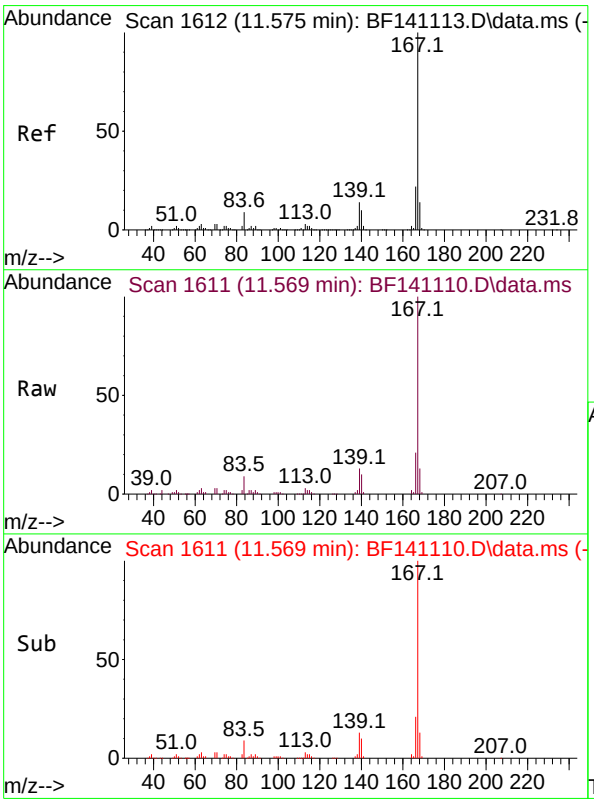
#72
Anthracene
Concen: 5.564 ng
RT: 11.416 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 168968

Ion	Ratio	Lower	Upper
178	100		
176	17.8	14.9	22.3
179	15.2	12.6	19.0

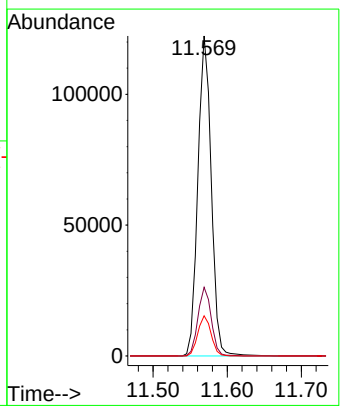


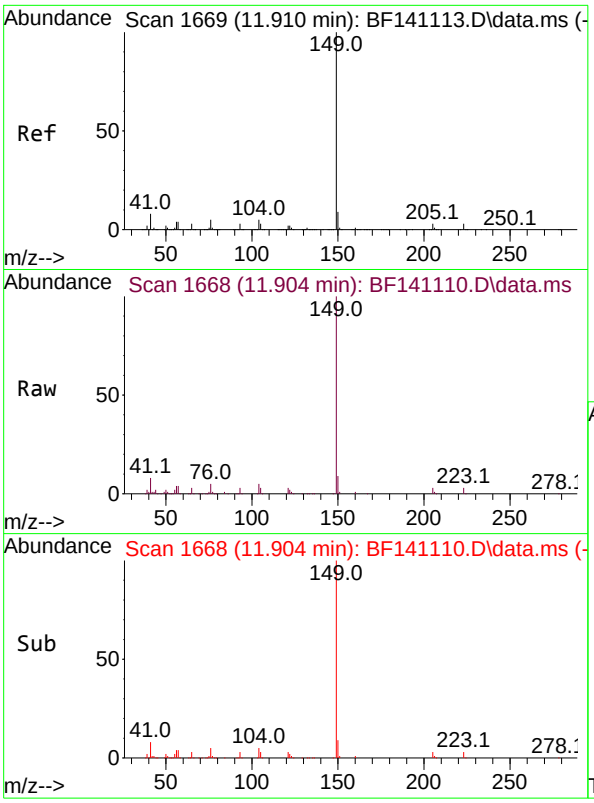


#73
Carbazole
Concen: 5.497 ng
RT: 11.569 min Scan# 1611
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:167 Resp: 153065

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.4	26.2
139	12.6	10.9	16.3



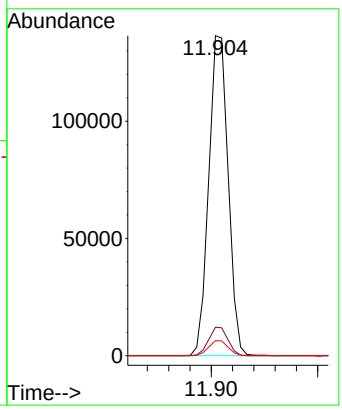


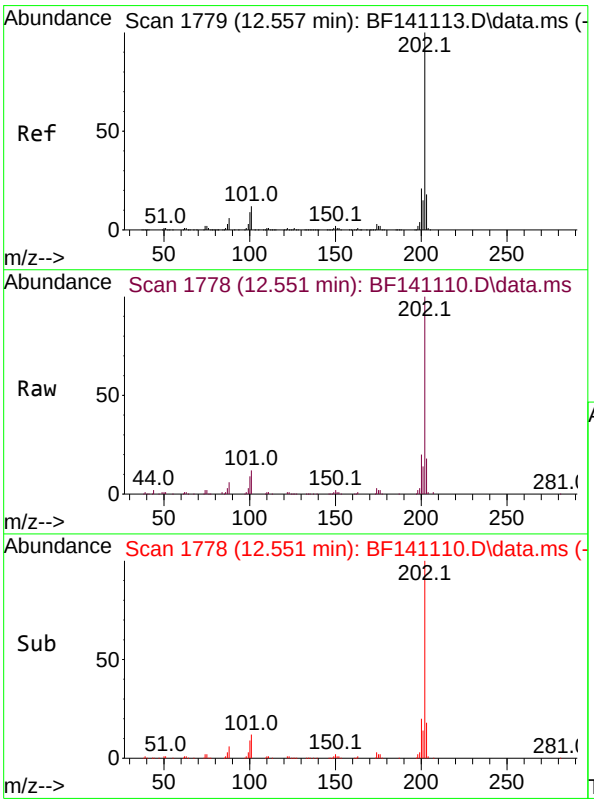
#74
Di-n-butylphthalate
Concen: 5.414 ng
RT: 11.904 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 172526

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.4	11.2
104	4.7	4.2	6.2

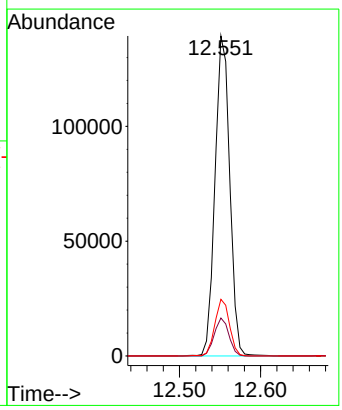


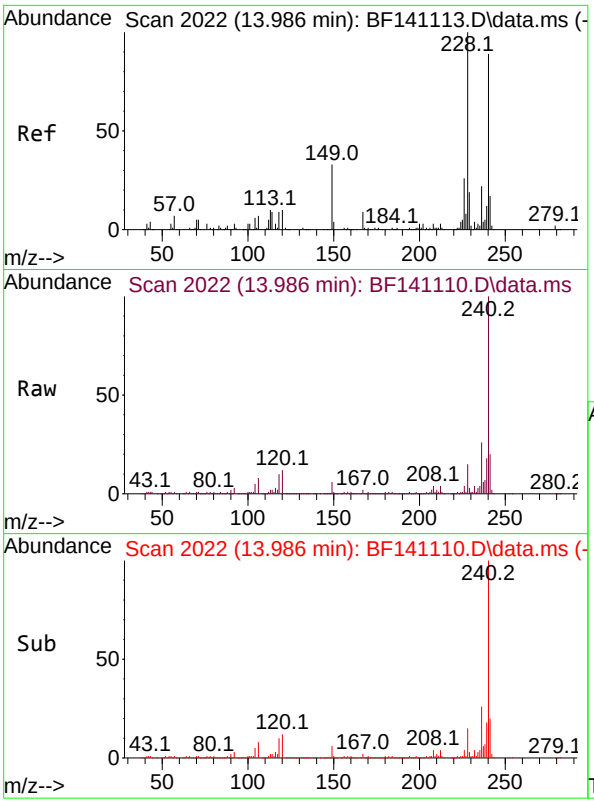


#75
Fluoranthene
Concen: 5.650 ng
RT: 12.551 min Scan# 1778
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:202 Resp: 176105

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.3
203	17.7	0.0	37.7



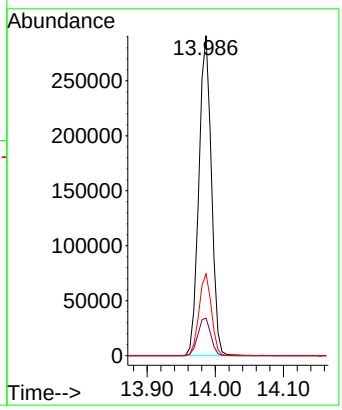


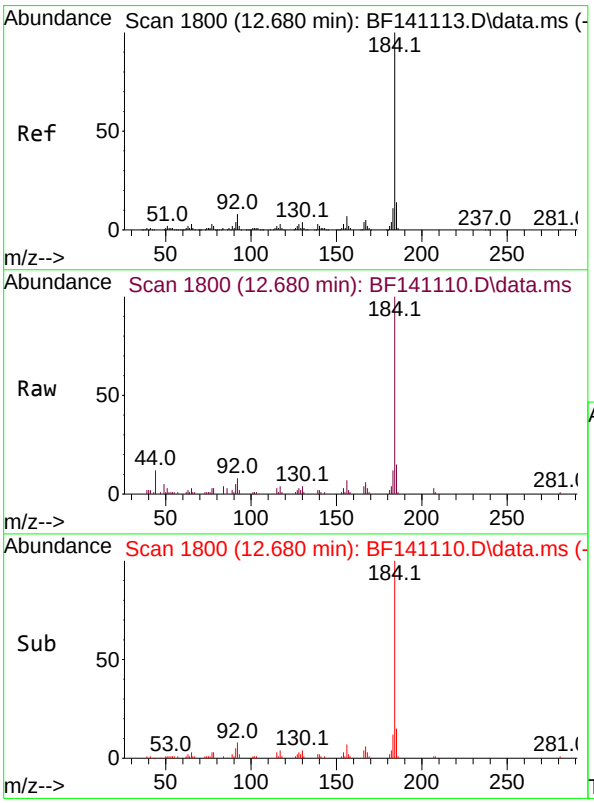
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:240 Resp: 370828

Ion	Ratio	Lower	Upper
240	100		
120	11.7	9.1	13.7
236	25.5	19.8	29.6

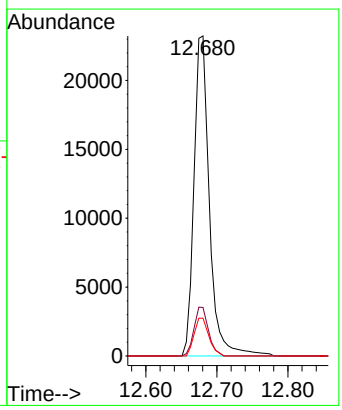


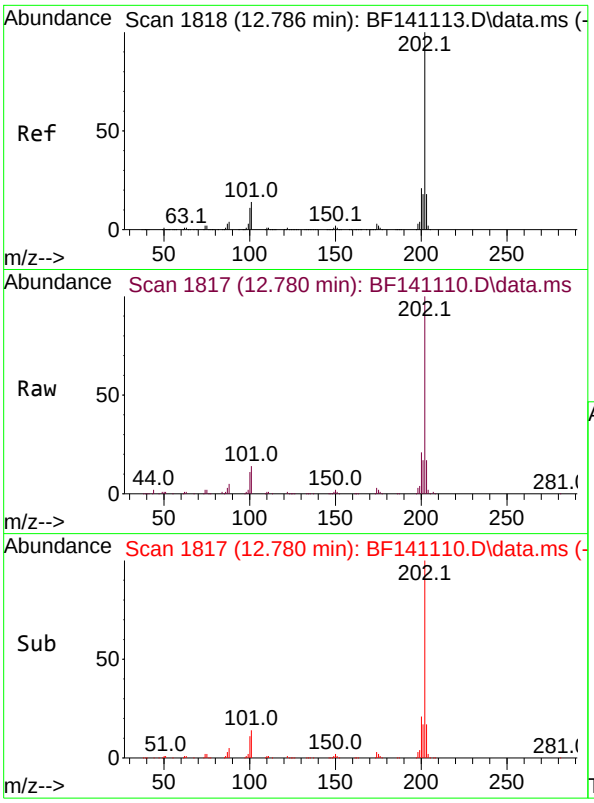


#77
Benzidine
Concen: 5.121 ng
RT: 12.680 min Scan# 1800
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:184 Resp: 35213

Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.4	17.0
183	11.8	9.2	13.8



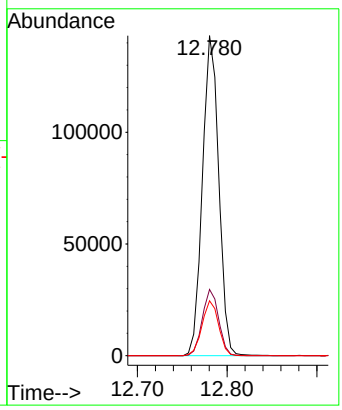


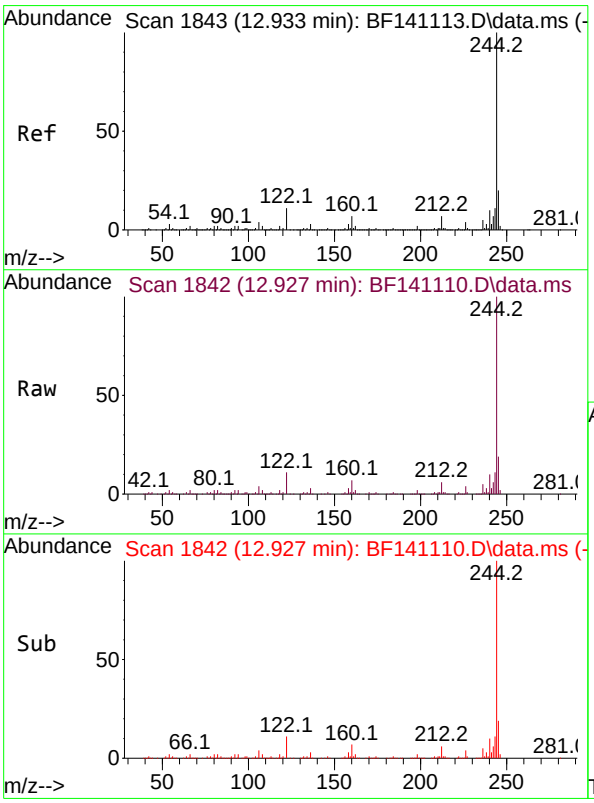
#78
Pyrene
Concen: 5.110 ng
RT: 12.780 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 180982

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	17.2	14.3	21.5

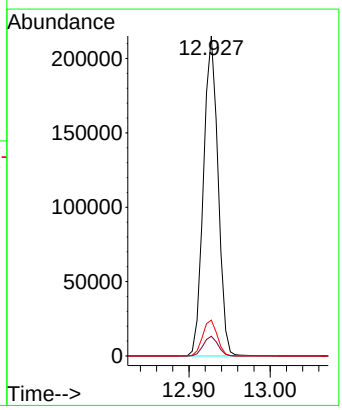


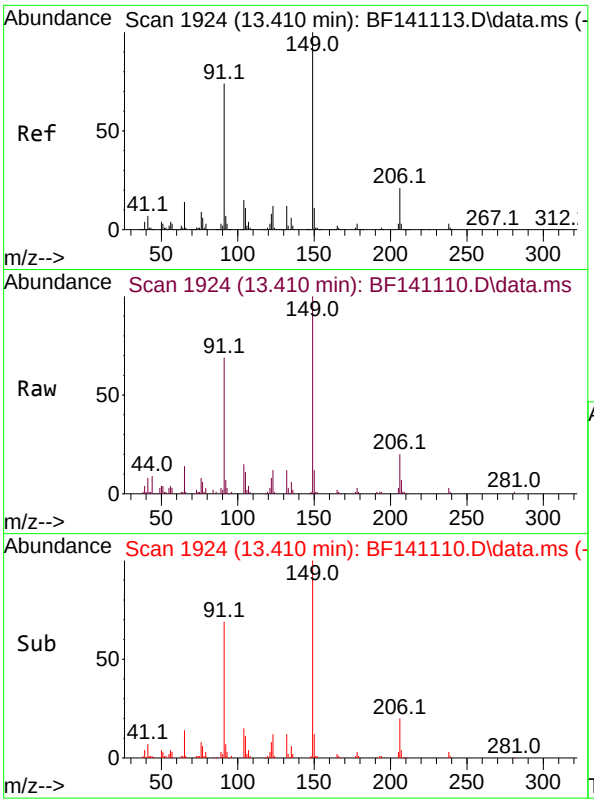


#79
Terphenyl-d14
Concen: 10.734 ng
RT: 12.927 min Scan# 1842
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:244 Resp: 267821

Ion	Ratio	Lower	Upper
244	100		
212	6.1	5.4	8.2
122	11.2	8.8	13.2



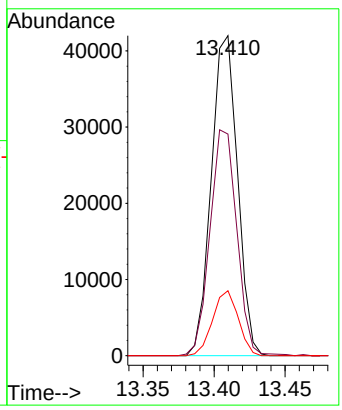


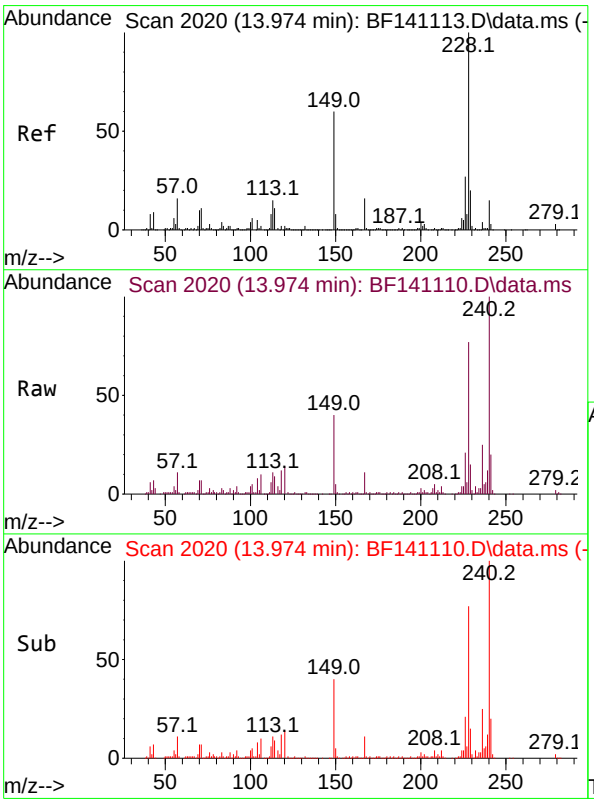
#80
Butylbenzylphthalate
Concen: 4.574 ng
RT: 13.410 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 54011

Ion	Ratio	Lower	Upper
149	100		
91	69.3	59.0	88.6
206	20.3	16.5	24.7

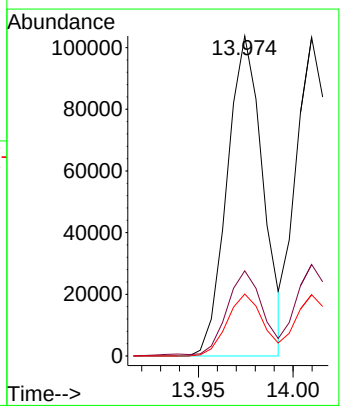


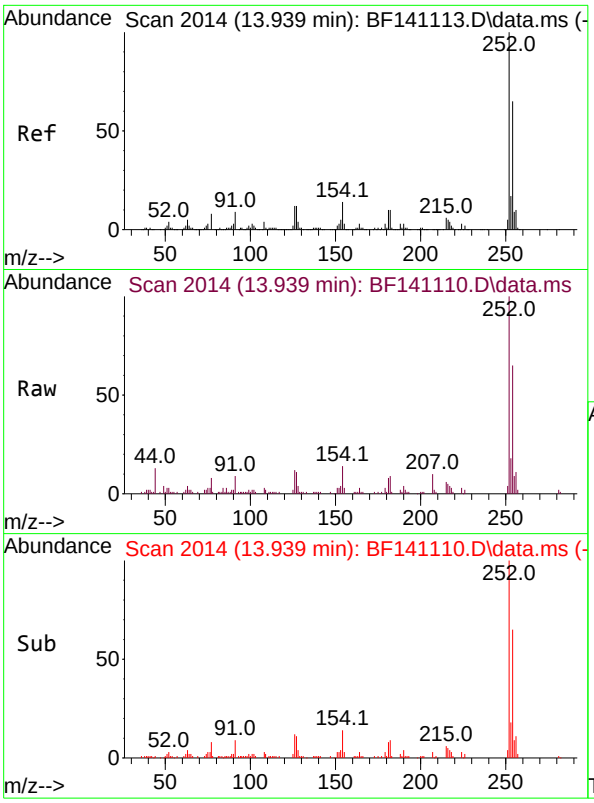


#81
Benzo(a)anthracene
Concen: 5.412 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:228 Resp: 136580

Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.7	32.5
229	19.4	15.7	23.5



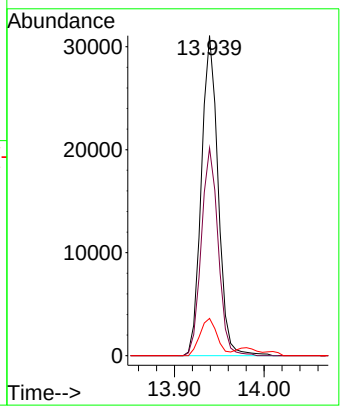


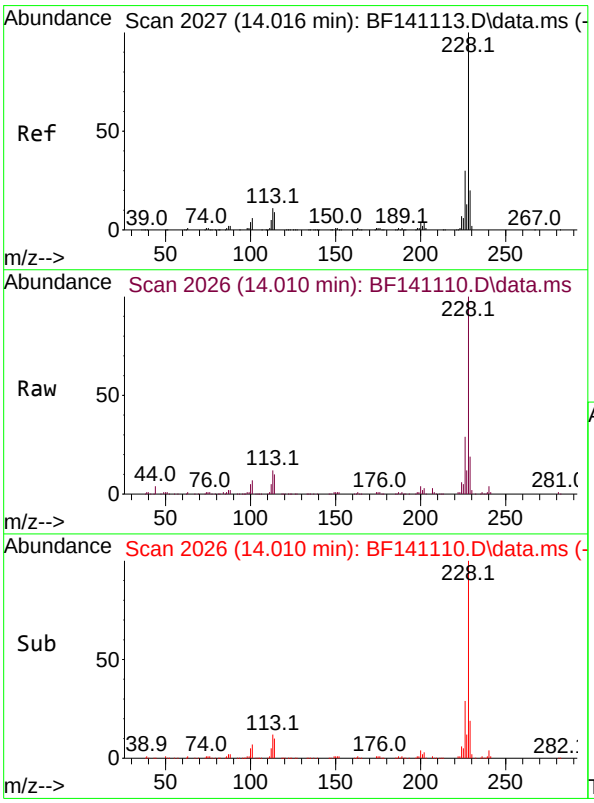
#82
3,3'-Dichlorobenzidine
Concen: 5.007 ng
RT: 13.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 40239

Ion	Ratio	Lower	Upper
252	100		
254	64.9	52.0	78.0
126	11.6	9.4	14.0

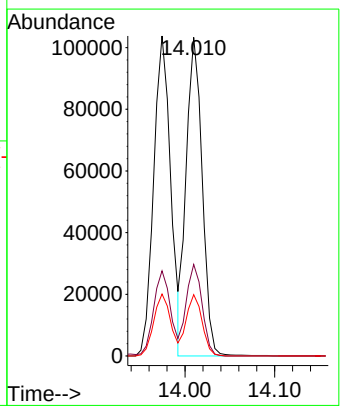


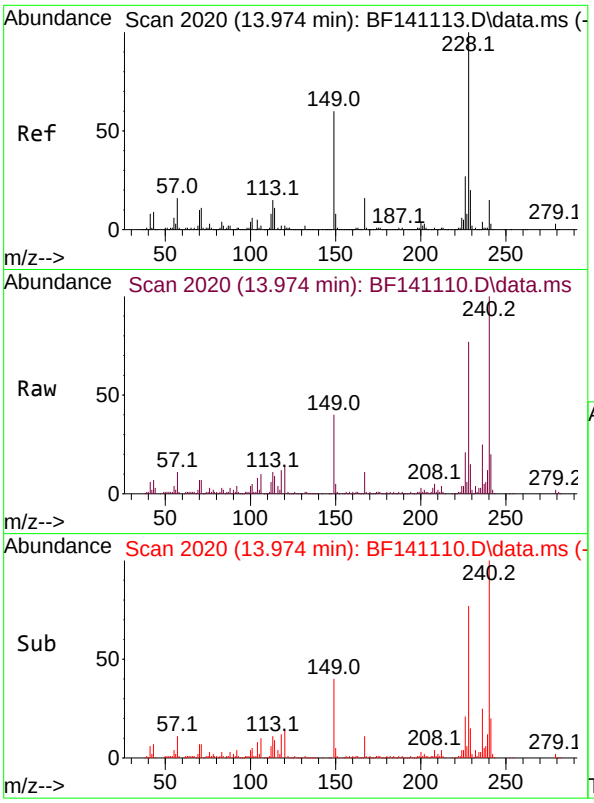


#83
Chrysene
Concen: 5.425 ng
RT: 14.010 min Scan# 2026
Delta R.T. -0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:228 Resp: 128102

Ion	Ratio	Lower	Upper
228	100		
226	28.7	23.8	35.8
229	19.2	15.8	23.8



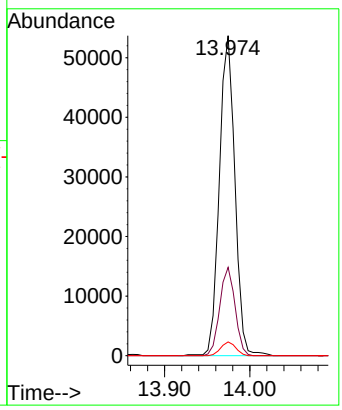


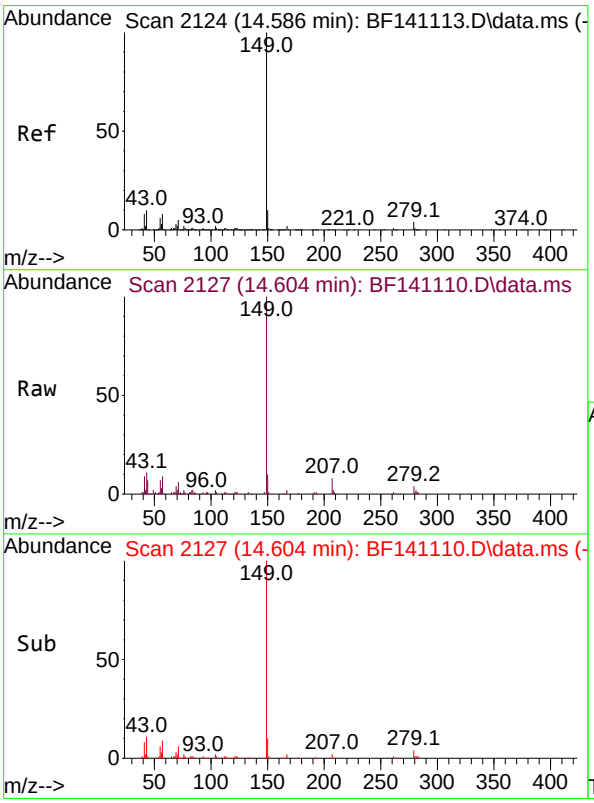
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.801 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 68031

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.4	32.2
279	4.3	3.4	5.2

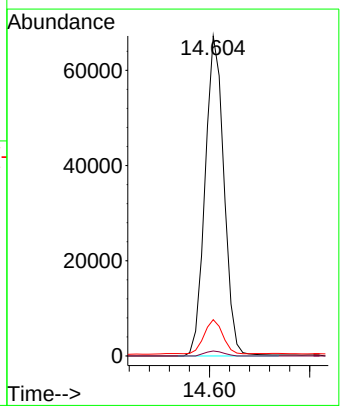


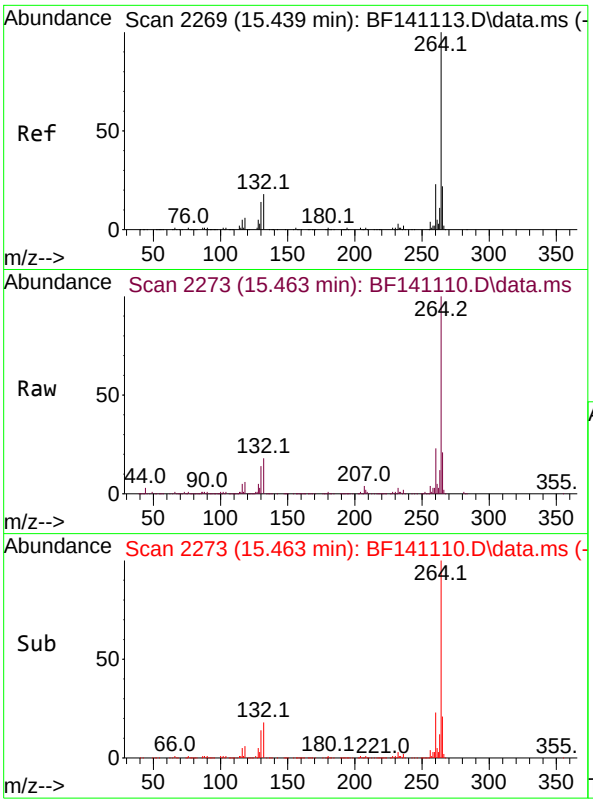


#85
Di-n-octyl phthalate
Concen: 4.115 ng
RT: 14.604 min Scan# 2127
Delta R.T. 0.018 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:149 Resp: 88039

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	10.5	8.4	12.6



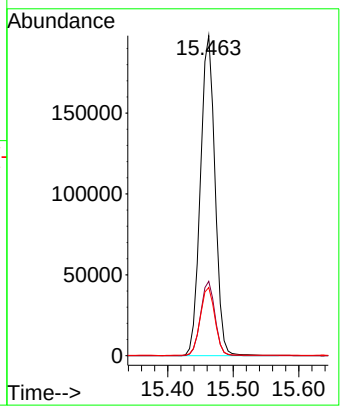


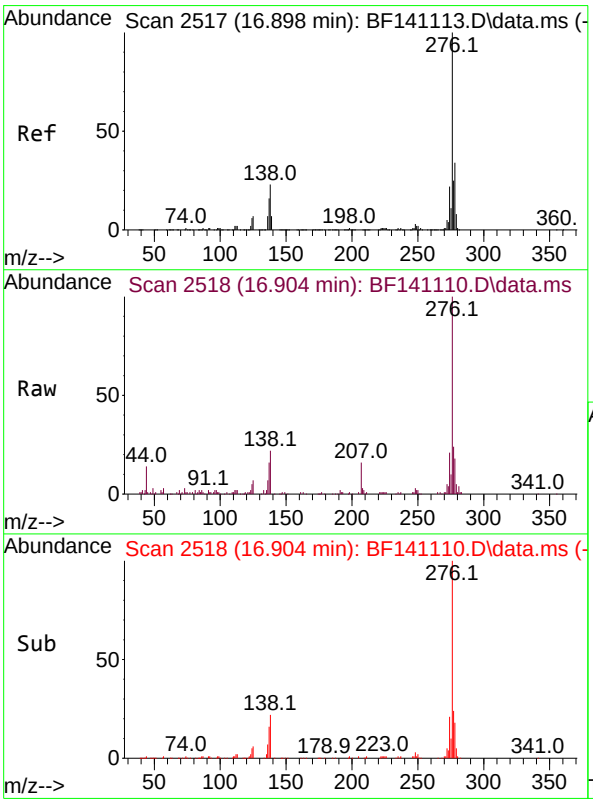
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:264 Resp: 306986

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.3	17.4	26.0

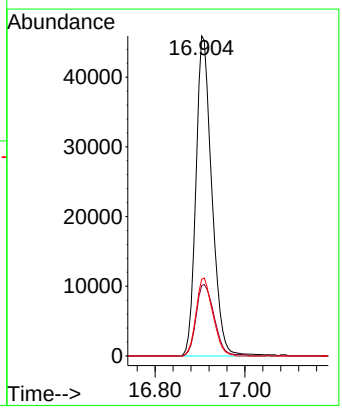


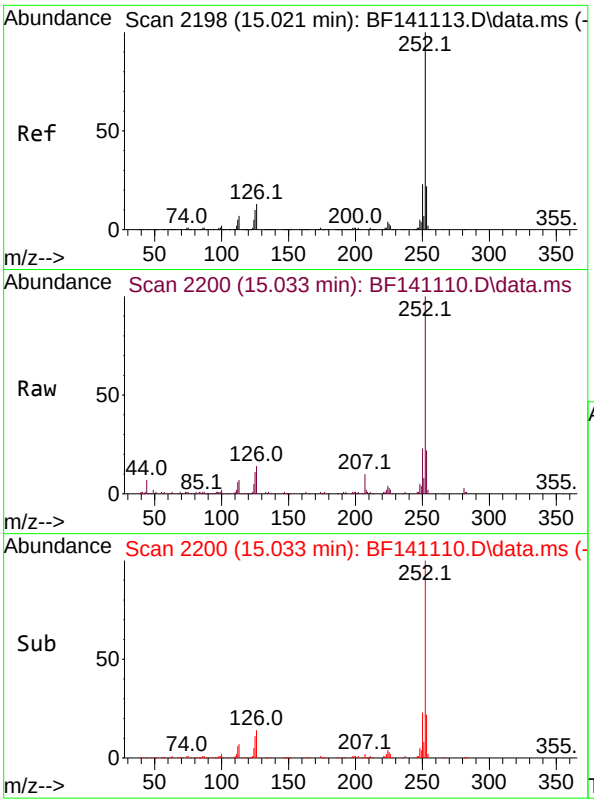


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.025 ng
RT: 16.904 min Scan# 2518
Delta R.T. 0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:276 Resp: 113009

Ion	Ratio	Lower	Upper
276	100		
138	25.4	20.7	31.1
277	25.6	20.6	30.8



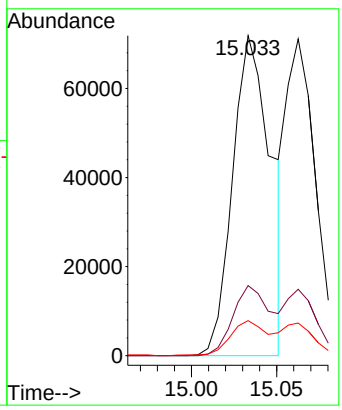


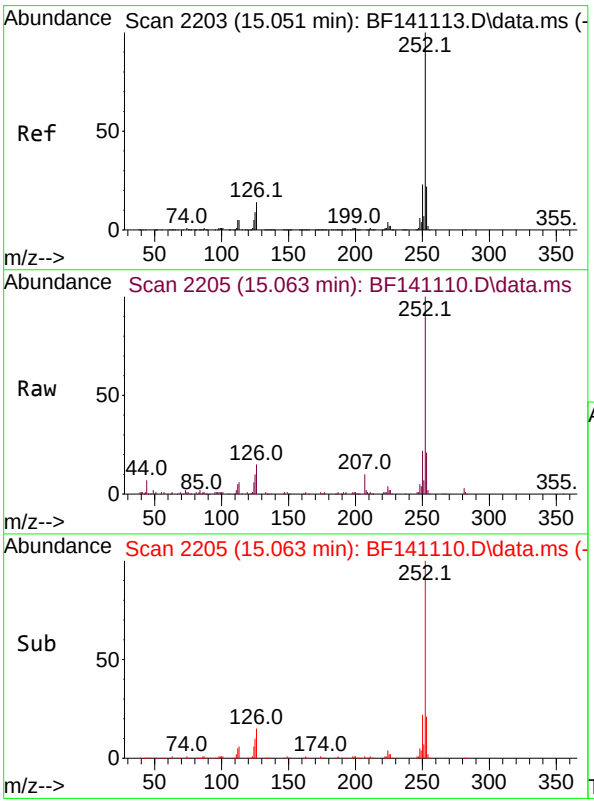
#88
Benzo(b)fluoranthene
Concen: 5.664 ng
RT: 15.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 112121

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	11.0	8.1	12.1

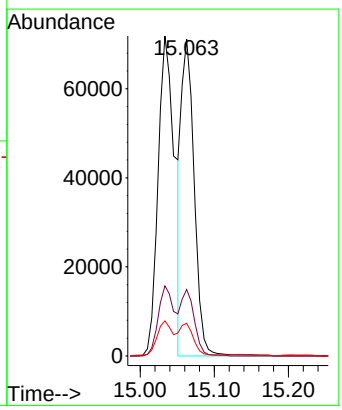


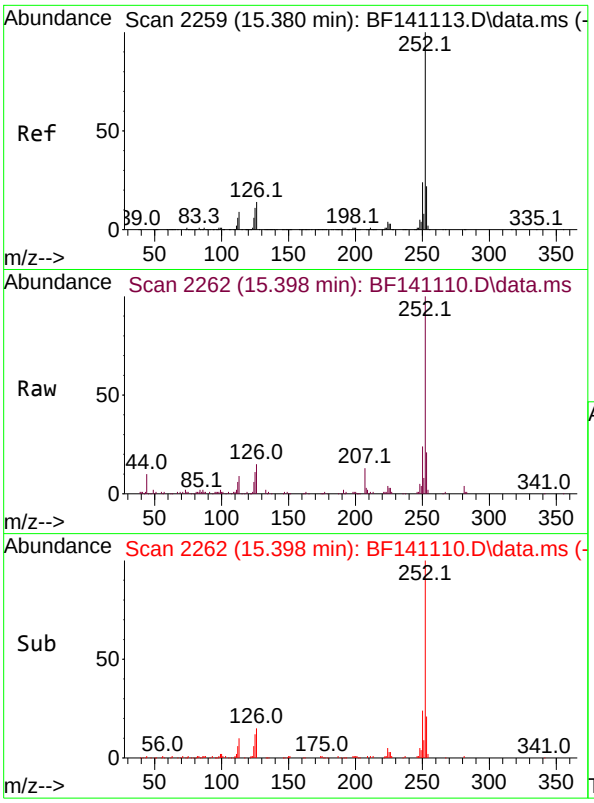


#89
Benzo(k)fluoranthene
Concen: 5.175 ng
RT: 15.063 min Scan# 2205
Delta R.T. 0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:252 Resp: 86565

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.8	26.8
125	10.3	7.9	11.9



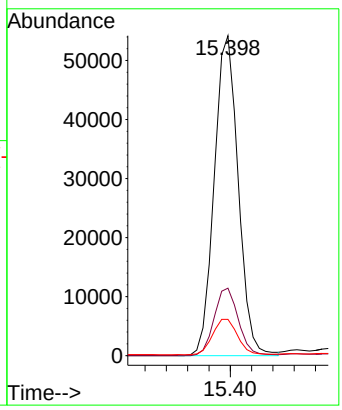


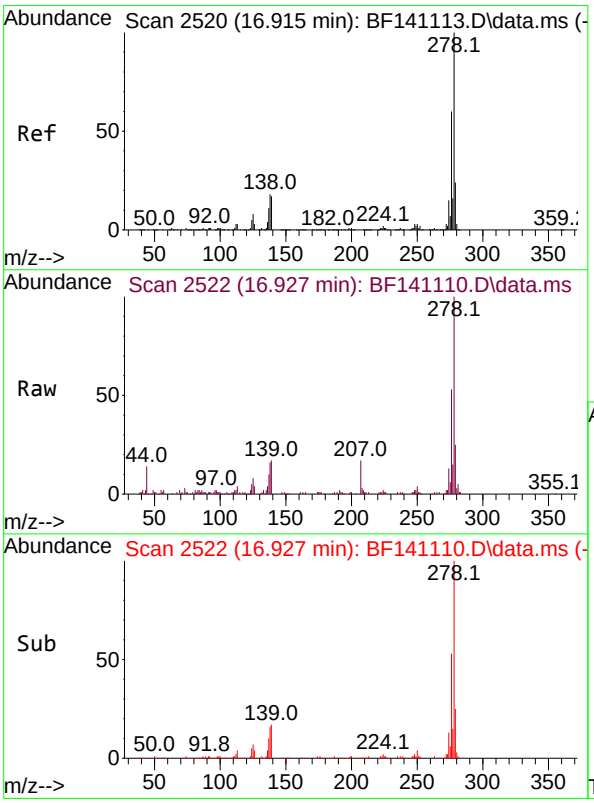
#90
Benzo(a)pyrene
Concen: 5.183 ng
RT: 15.398 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 84656

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.7	26.5
125	11.3	9.1	13.7

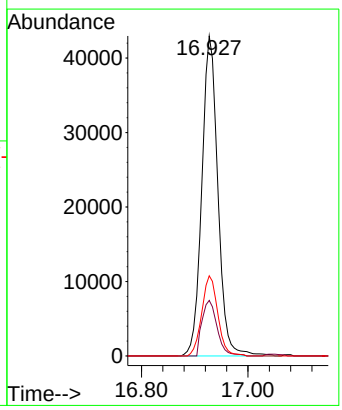


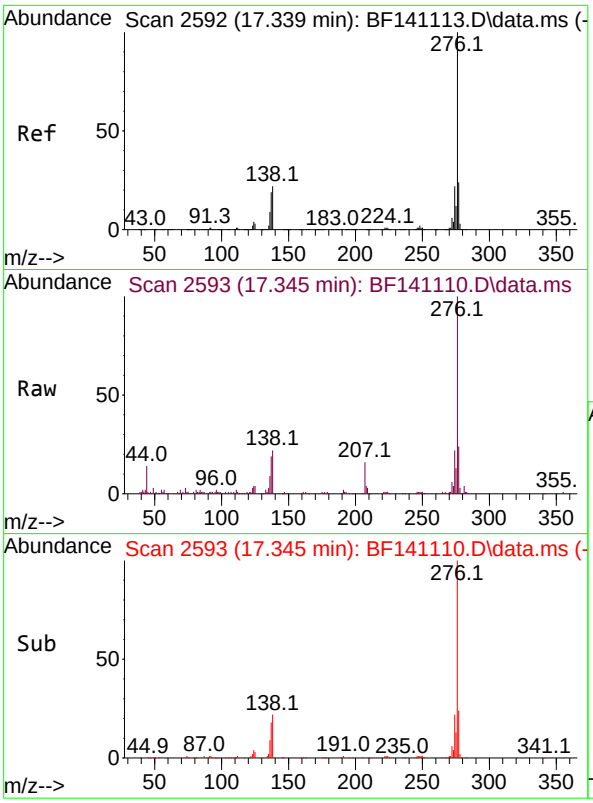


#91
Dibenzo(a,h)anthracene
Concen: 4.952 ng
RT: 16.927 min Scan# 2522
Delta R.T. 0.012 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Tgt Ion:278 Resp: 90084

Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.8	20.6
279	25.1	19.1	28.7



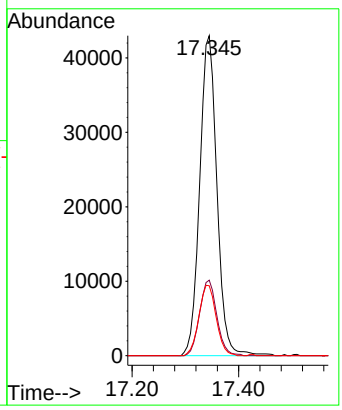


#92
Benzo(g,h,i)perylene
Concen: 5.096 ng
RT: 17.345 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141110.D
Acq: 10 Jan 2025 12:25

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 96418

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	21.9	17.4	26.2



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141111.D
Acq On : 10 Jan 2025 13:17
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Jan 10 22:18:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	152818	20.000	ng		0.00
21) Naphthalene-d8	8.098	136	604478	20.000	ng		0.00
39) Acenaphthene-d10	9.857	164	323407	20.000	ng		0.00
64) Phenanthrene-d10	11.339	188	565570	20.000	ng		0.00
76) Chrysene-d12	13.986	240	345946	20.000	ng		0.00
86) Perylene-d12	15.463	264	298779	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	213934	21.626	ng		0.00
7) Phenol-d6	6.434	99	271016	21.628	ng		-0.01
23) Nitrobenzene-d5	7.375	82	235613	20.662	ng		-0.01
42) 2,4,6-Tribromophenol	10.639	330	75448	20.474	ng		-0.01
45) 2-Fluorobiphenyl	9.175	172	471901	22.282	ng		0.00
79) Terphenyl-d14	12.927	244	492528	21.161	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.528	88	45563	10.343	ng		98
3) Pyridine	3.269	79	116138	10.751	ng		99
4) n-Nitrosodimethylamine	3.199	42	54661	10.348	ng	#	97
6) Aniline	6.475	93	120980	10.874	ng		98
8) 2-Chlorophenol	6.598	128	112757	10.624	ng		100
9) Benzaldehyde	6.369	77	87029	12.433	ng		99
10) Phenol	6.446	94	145362	10.837	ng		99
11) bis(2-Chloroethyl)ether	6.551	93	104839	10.487	ng		99
12) 1,3-Dichlorobenzene	6.757	146	127000	10.729	ng		99
13) 1,4-Dichlorobenzene	6.840	146	126297	10.588	ng		98
14) 1,2-Dichlorobenzene	6.987	146	120656	10.844	ng		99
15) Benzyl Alcohol	6.951	79	94737	10.469	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.093	45	146135	10.476	ng		99
17) 2-Methylphenol	7.063	107	89782	10.478	ng		98
18) Hexachloroethane	7.334	117	45125	10.461	ng		98
19) n-Nitroso-di-n-propyla...	7.222	70	77270	10.468	ng		98
20) 3+4-Methylphenols	7.216	107	116842	10.809	ng	#	89
22) Acetophenone	7.222	105	155933	10.851	ng		98
24) Nitrobenzene	7.393	77	123929	10.428	ng		98
25) Isophorone	7.634	82	201958	10.363	ng		98
26) 2-Nitrophenol	7.716	139	52430	9.698	ng		99
27) 2,4-Dimethylphenol	7.745	122	73818	10.123	ng		99
28) bis(2-Chloroethoxy)met...	7.845	93	126489	10.342	ng		99
29) 2,4-Dichlorophenol	7.951	162	89559	10.341	ng		97
30) 1,2,4-Trichlorobenzene	8.040	180	103848	10.490	ng		100
31) Naphthalene	8.122	128	340302	10.675	ng		99
32) Benzoic acid	7.810	122	63791	9.119	ng		96
33) 4-Chloroaniline	8.169	127	117726	10.679	ng		99
34) Hexachlorobutadiene	8.240	225	62610	10.496	ng		98
35) Caprolactam	8.498	113	27881	9.814	ng		89
36) 4-Chloro-3-methylphenol	8.640	107	97256	10.268	ng		97
37) 2-Methylnaphthalene	8.810	142	217446	10.704	ng		100
38) 1-Methylnaphthalene	8.910	142	215158	10.747	ng		100
40) 1,2,4,5-Tetrachloroben...	8.981	216	97255	10.477	ng		100
41) Hexachlorocyclopentadiene	8.969	237	29312	9.652	ng		98
43) 2,4,6-Trichlorophenol	9.087	196	62070	9.915	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141111.D
Acq On : 10 Jan 2025 13:17
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Jan 10 22:18:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

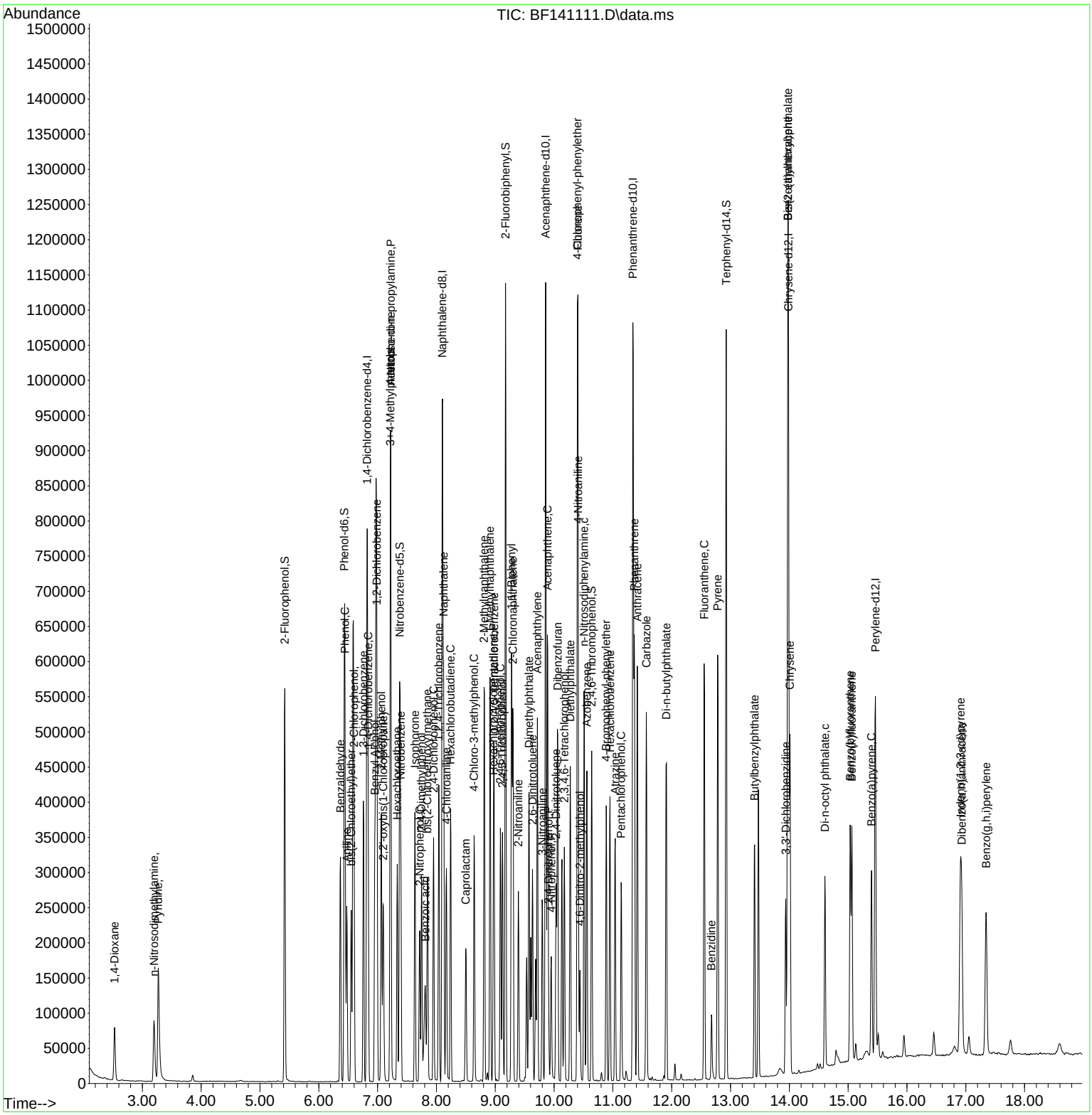
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.122	196	67822	10.258	ng		98
46) 1,1'-Biphenyl	9.275	154	270164	10.757	ng		100
47) 2-Chloronaphthalene	9.298	162	208316	10.649	ng		99
48) 2-Nitroaniline	9.392	65	57839	9.974	ng		98
49) Acenaphthylene	9.716	152	294365	10.532	ng		99
50) Dimethylphthalate	9.575	163	227434	10.475	ng		99
51) 2,6-Dinitrotoluene	9.634	165	51195	10.140	ng		96
52) Acenaphthene	9.886	154	204827	10.490	ng		100
53) 3-Nitroaniline	9.798	138	52358	10.205	ng		98
54) 2,4-Dinitrophenol	9.904	184	15639	6.517	ng	#	1
55) Dibenzofuran	10.063	168	280708	10.569	ng		99
56) 4-Nitrophenol	9.951	139	39013	9.709	ng		97
57) 2,4-Dinitrotoluene	10.034	165	64903	9.975	ng		95
58) Fluorene	10.404	166	226791	10.991	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.175	232	57812	10.519	ng		97
60) Diethylphthalate	10.275	149	225896	10.657	ng		99
61) 4-Chlorophenyl-phenyle...	10.398	204	108674	10.806	ng		100
62) 4-Nitroaniline	10.410	138	50381	10.033	ng		97
63) Azobenzene	10.557	77	220351	10.536	ng		99
65) 4,6-Dinitro-2-methylph...	10.439	198	26799	8.177	ng		95
66) n-Nitrosodiphenylamine	10.510	169	191433	10.494	ng		99
67) 4-Bromophenyl-phenylether	10.886	248	67025	10.293	ng		99
68) Hexachlorobenzene	10.951	284	74450	10.271	ng		99
69) Atrazine	11.039	200	56963	11.597	ng		99
70) Pentachlorophenol	11.139	266	45847	9.877	ng		98
71) Phenanthrene	11.363	178	325737	10.728	ng		98
72) Anthracene	11.416	178	314077	10.638	ng		99
73) Carbazole	11.569	167	289945	10.710	ng		99
74) Di-n-butylphthalate	11.910	149	332734	10.740	ng		99
75) Fluoranthene	12.551	202	335808	11.083	ng		99
77) Benzidine	12.675	184	53526	8.343	ng		99
78) Pyrene	12.780	202	341925	10.348	ng		99
80) Butylbenzylphthalate	13.410	149	108714	9.868	ng		97
81) Benzo(a)anthracene	13.974	228	245554	10.430	ng		100
82) 3,3'-Dichlorobenzidine	13.939	252	72963	9.733	ng		100
83) Chrysene	14.010	228	227579	10.331	ng		100
84) Bis(2-ethylhexyl)phtha...	13.974	149	132798	10.047	ng		99
85) Di-n-octyl phthalate	14.604	149	179782	9.007	ng		100
87) Indeno(1,2,3-cd)pyrene	16.910	276	212077	9.689	ng		100
88) Benzo(b)fluoranthene	15.033	252	211401	10.973	ng		99
89) Benzo(k)fluoranthene	15.063	252	164685	10.115	ng		99
90) Benzo(a)pyrene	15.398	252	162844	10.245	ng		99
91) Dibenzo(a,h)anthracene	16.933	278	176005	9.941	ng		97
92) Benzo(g,h,i)perylene	17.345	276	182406	9.905	ng		99

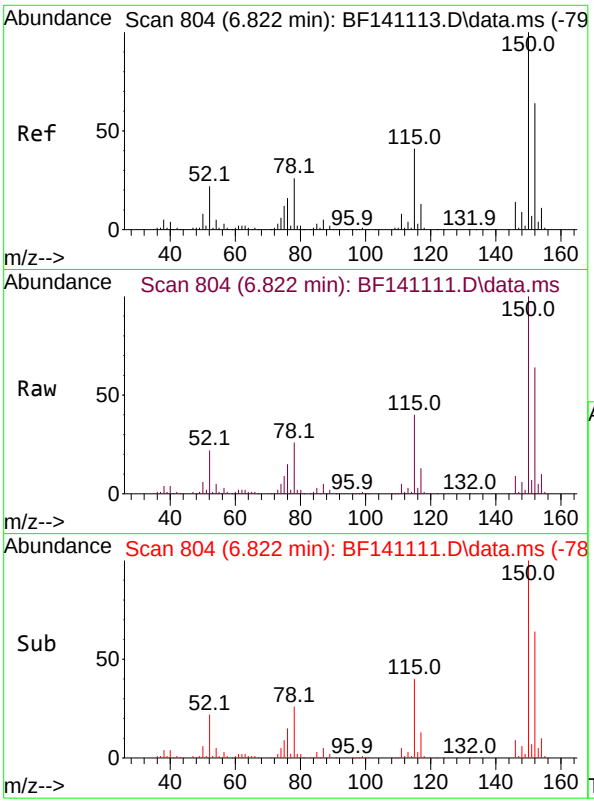
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141111.D
Acq On : 10 Jan 2025 13:17
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Jan 10 22:18:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



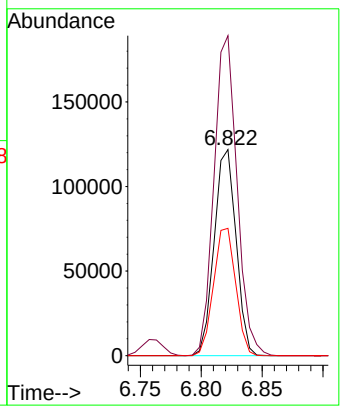


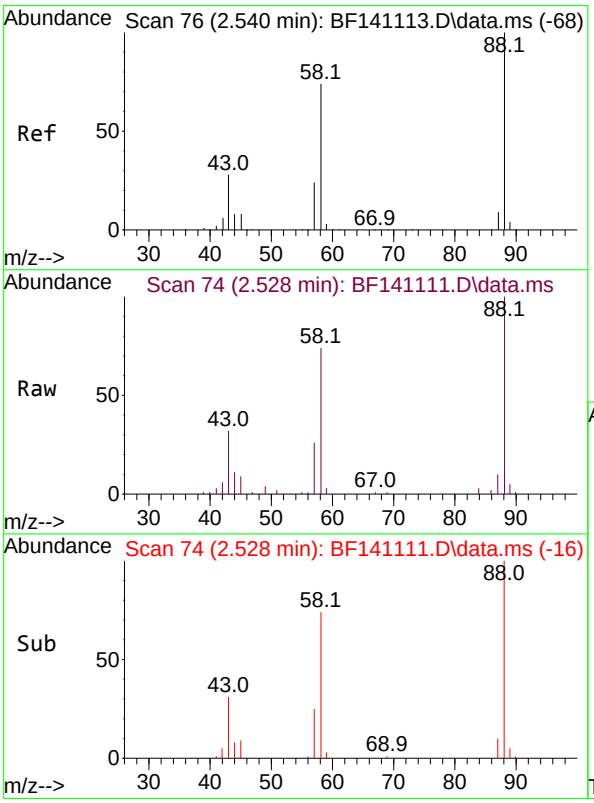
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 152818

Ion	Ratio	Lower	Upper
152	100		
150	155.3	125.8	188.8
115	61.8	51.4	77.2

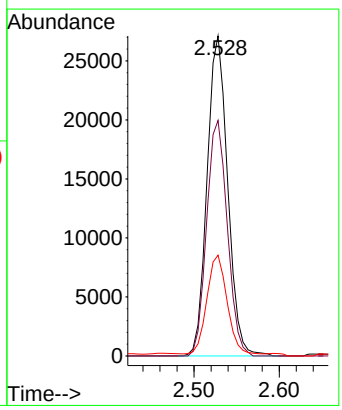


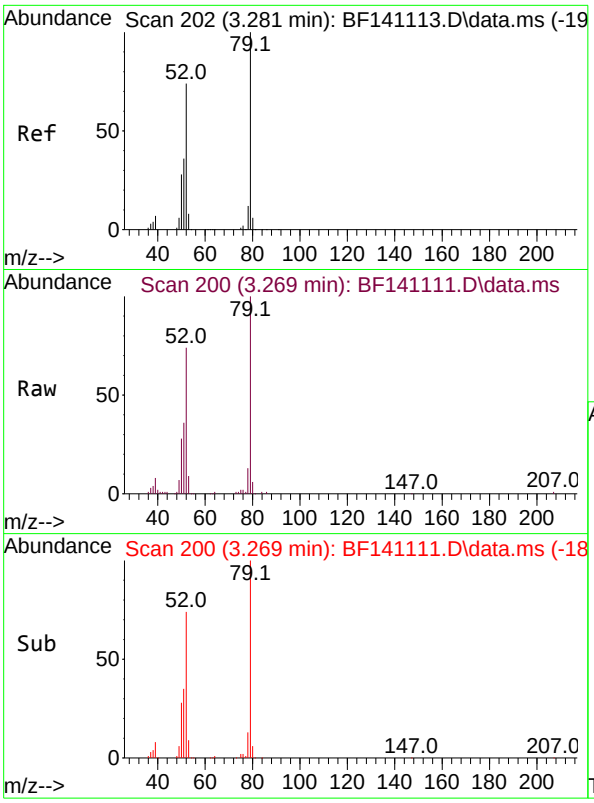


#2
1,4-Dioxane
Concen: 10.343 ng
RT: 2.528 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 88 Resp: 45563

Ion	Ratio	Lower	Upper
88	100		
58	73.8	60.1	90.1
43	29.9	23.1	34.7



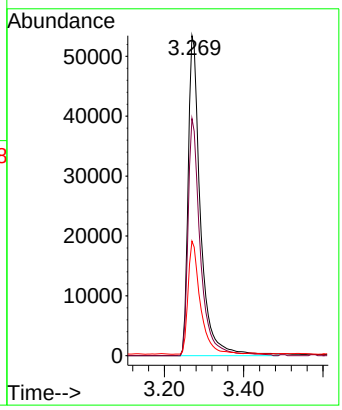


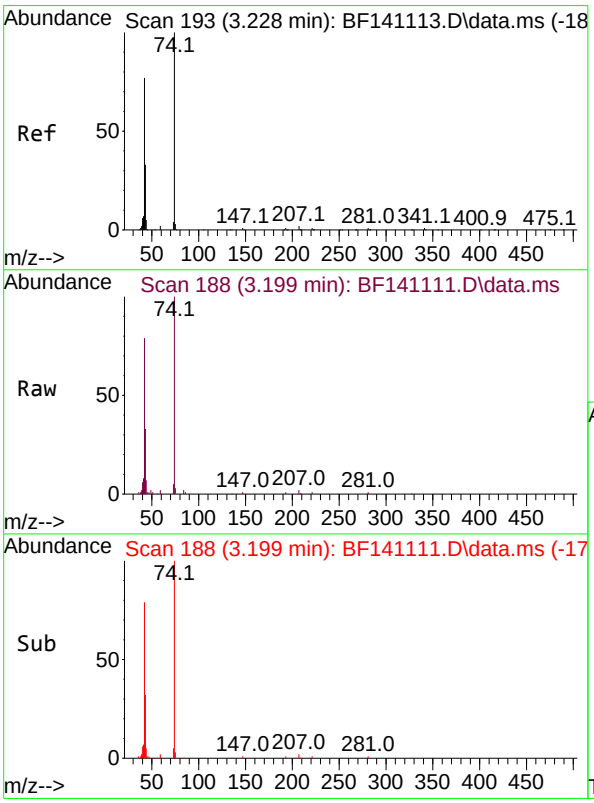
#3
Pyridine
Concen: 10.751 ng
RT: 3.269 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 116138

Ion	Ratio	Lower	Upper
79	100		
52	74.1	58.9	88.3
51	35.8	29.1	43.7

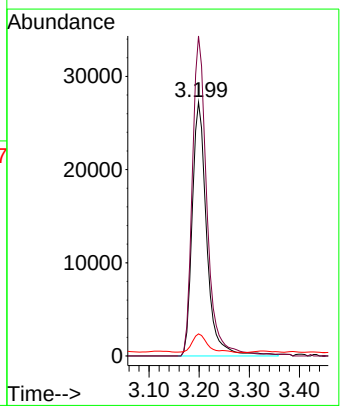


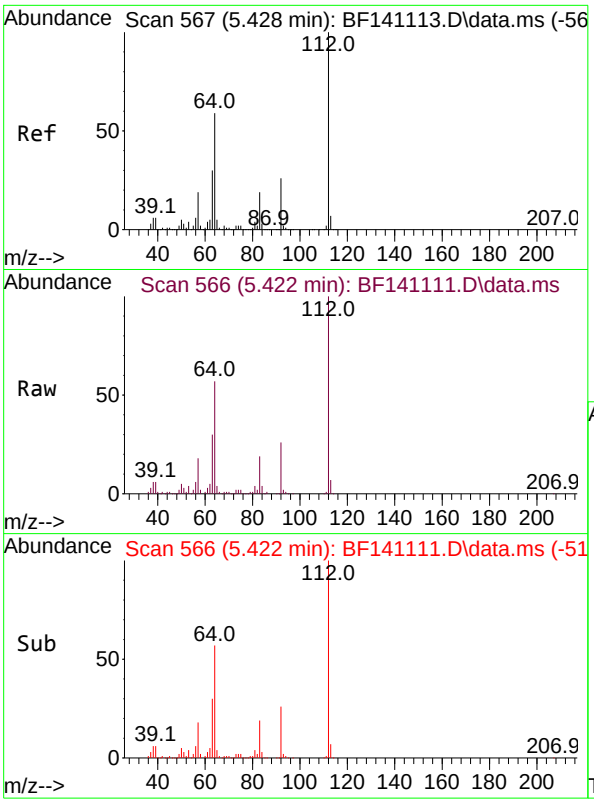


#4
n-Nitrosodimethylamine
Concen: 10.348 ng
RT: 3.199 min Scan# 188
Delta R.T. -0.029 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 42 Resp: 54661

Ion	Ratio	Lower	Upper
42	100		
74	126.1	103.8	155.6
44	8.7	5.3	7.9#



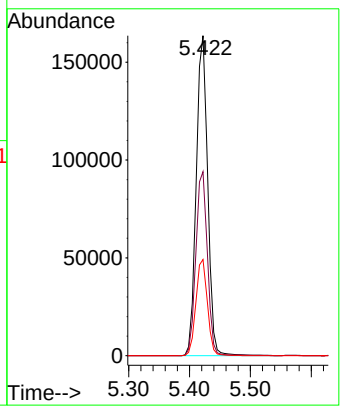


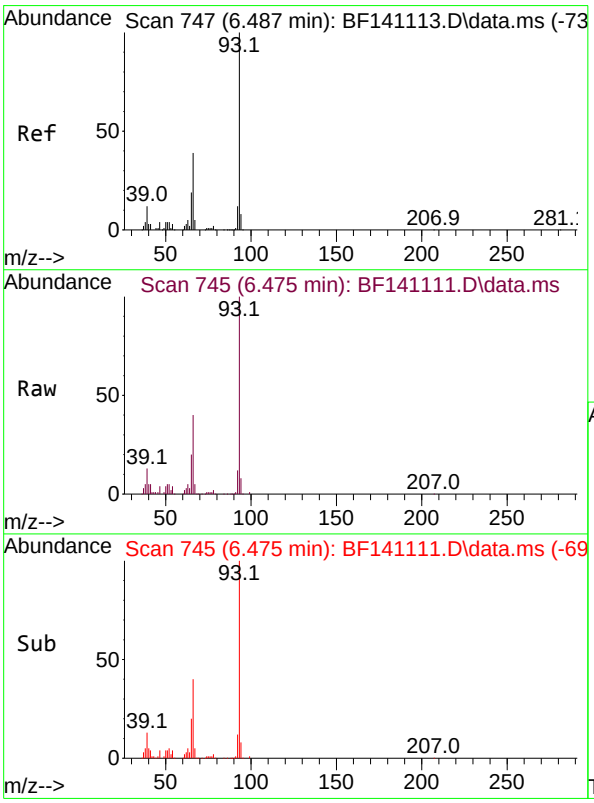
#5
2-Fluorophenol
Concen: 21.626 ng
RT: 5.422 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 213934

Ion	Ratio	Lower	Upper
112	100		
64	57.5	47.3	70.9
63	30.0	24.2	36.2

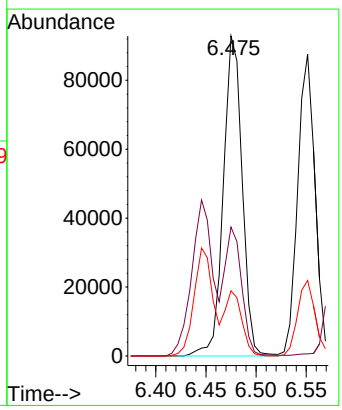


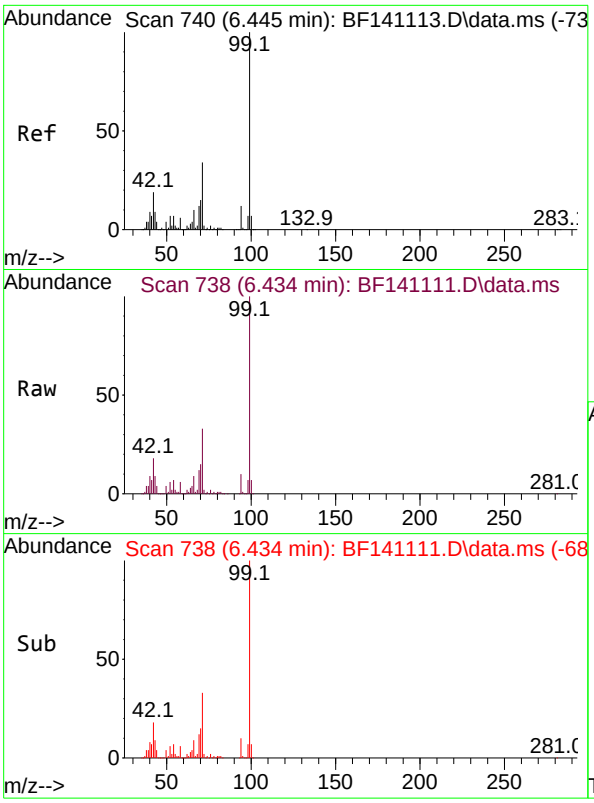


#6
Aniline
Concen: 10.874 ng
RT: 6.475 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 93 Resp: 120980

Ion	Ratio	Lower	Upper
93	100		
66	40.2	31.5	47.3
65	20.4	15.3	22.9



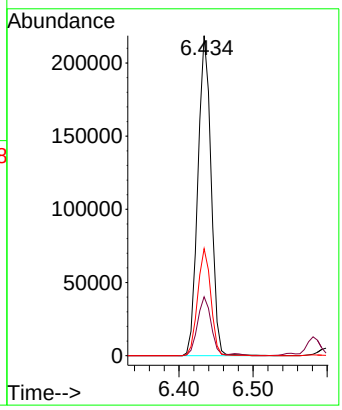


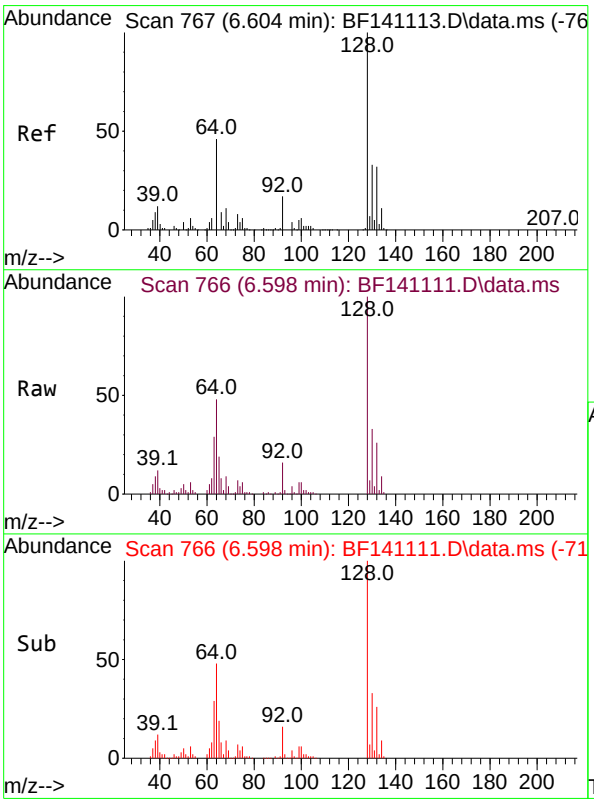
#7
Phenol-d6
Concen: 21.628 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 271016

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.0	22.4
71	33.5	27.6	41.4

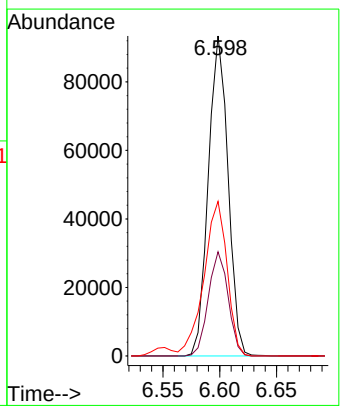


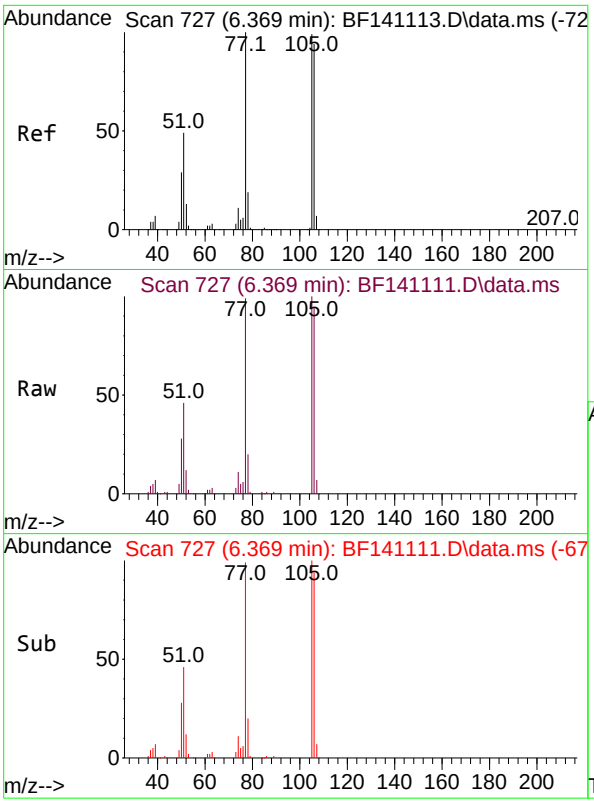


#8
2-Chlorophenol
Concen: 10.624 ng
RT: 6.598 min Scan# 766
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:128 Resp: 112757

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.5	52.5
64	48.3	28.3	68.3



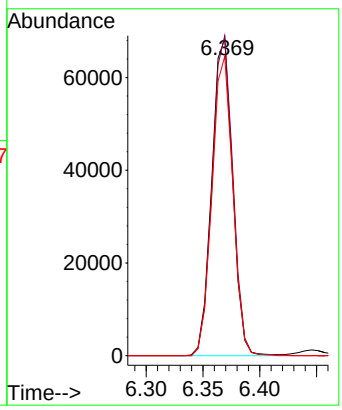


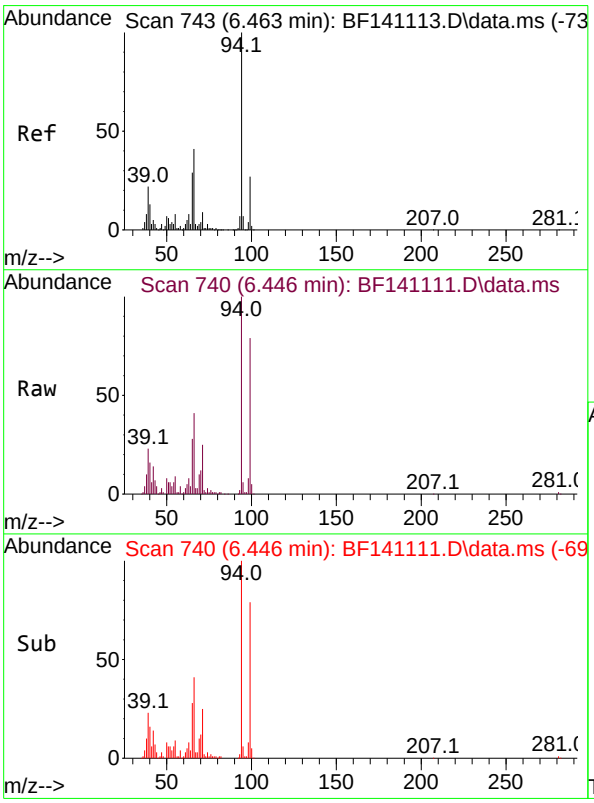
#9
Benzaldehyde
Concen: 12.433 ng
RT: 6.369 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 87029

Ion	Ratio	Lower	Upper
77	100		
105	100.9	78.9	118.9
106	94.4	73.6	113.6

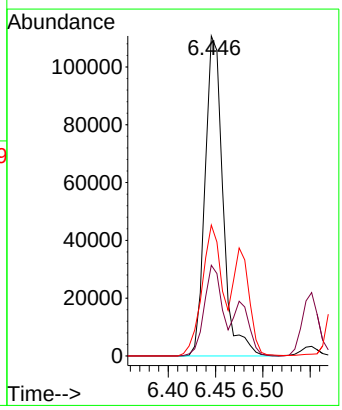


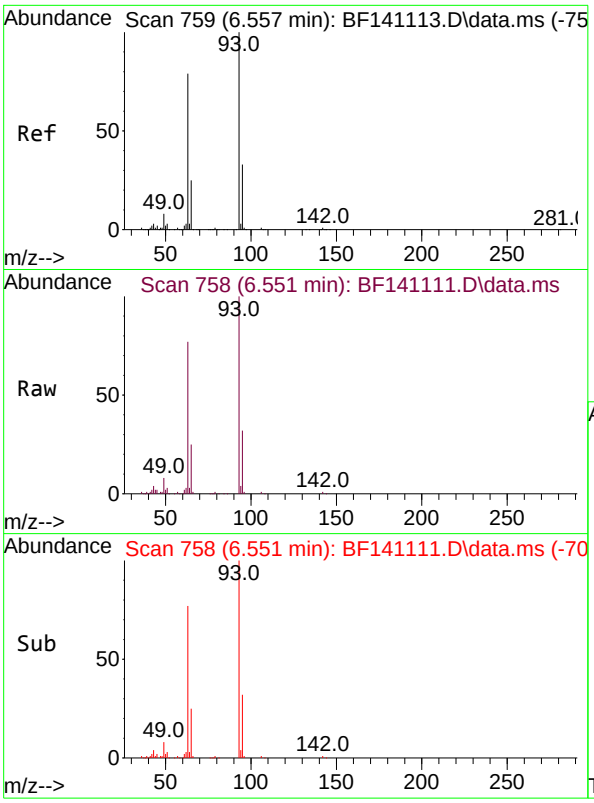


#10
Phenol
Concen: 10.837 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 94 Resp: 145362

Ion	Ratio	Lower	Upper
94	100		
65	28.3	8.9	48.9
66	40.9	21.2	61.2



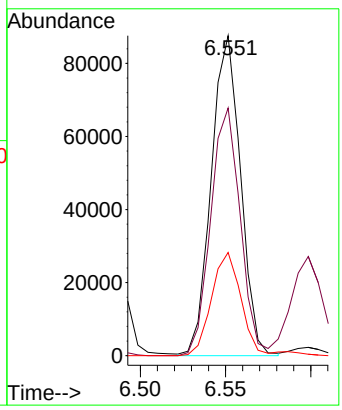


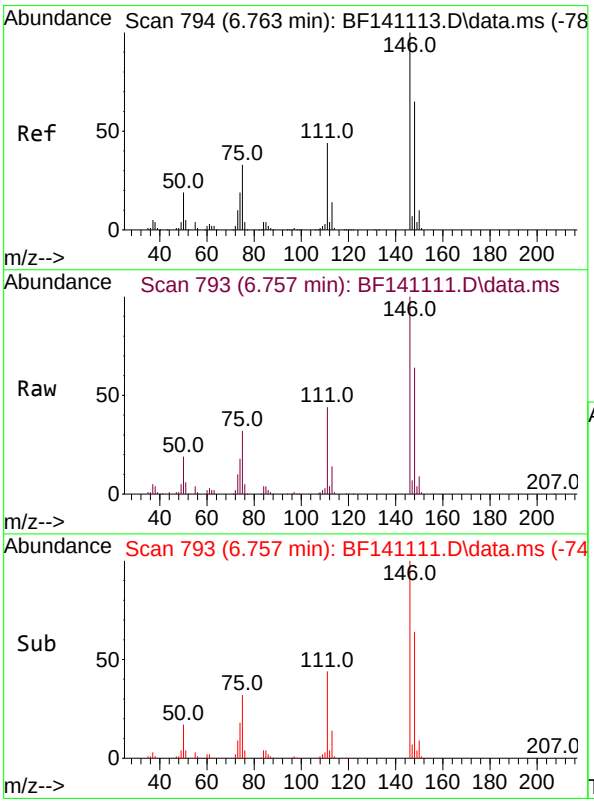
#11
bis(2-Chloroethyl)ether
Concen: 10.487 ng
RT: 6.551 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 104839

Ion	Ratio	Lower	Upper
93	100		
63	77.4	58.0	98.0
95	32.2	12.5	52.5

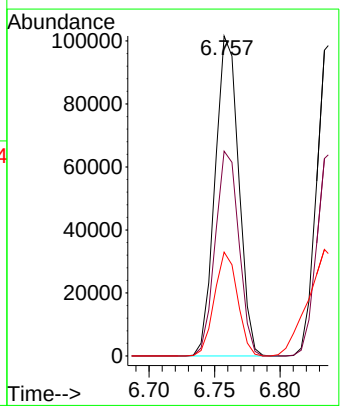


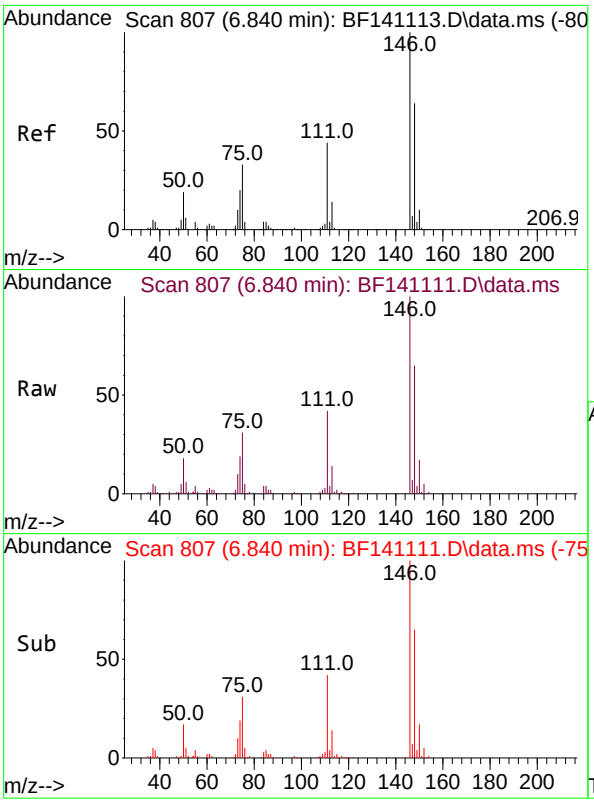


#12
1,3-Dichlorobenzene
Concen: 10.729 ng
RT: 6.757 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:146 Resp: 127000

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
75	32.5	26.2	39.2



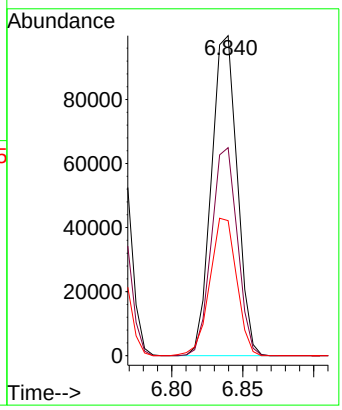


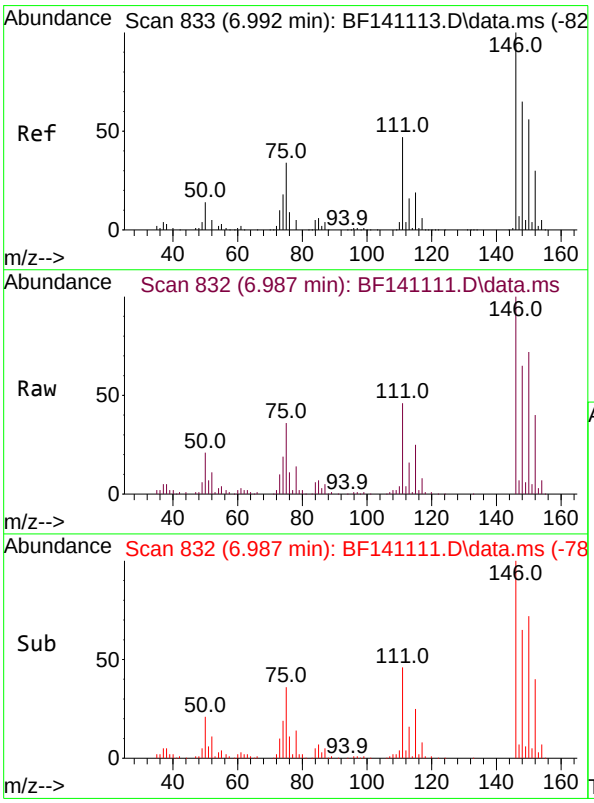
#13
1,4-Dichlorobenzene
Concen: 10.588 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 126297

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.0	76.6
111	42.2	34.9	52.3

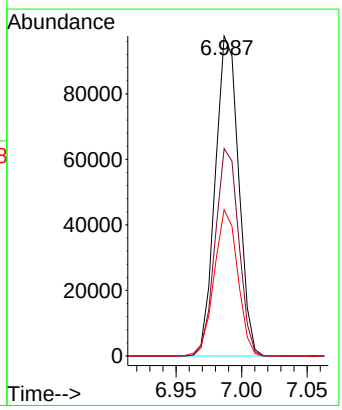


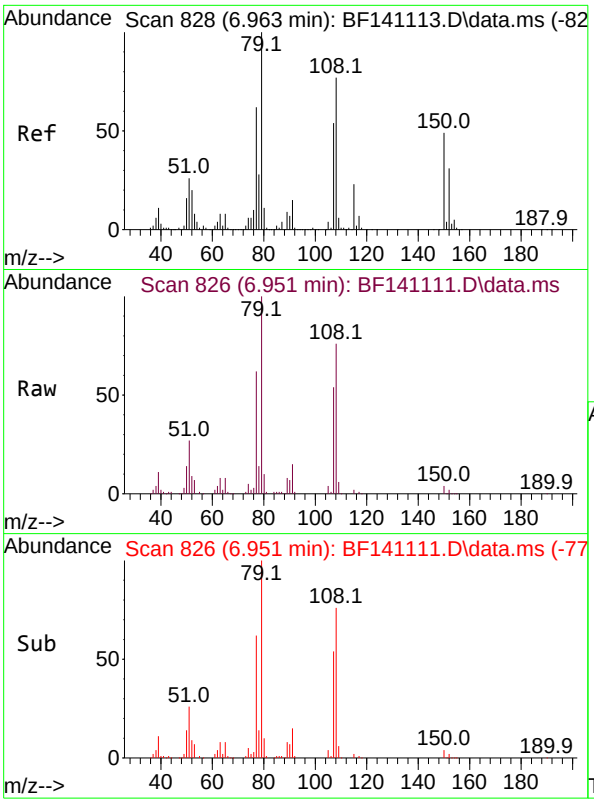


#14
1,2-Dichlorobenzene
Concen: 10.844 ng
RT: 6.987 min Scan# 832
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:146 Resp: 120656

Ion	Ratio	Lower	Upper
146	100		
148	64.8	52.2	78.4
111	45.7	37.5	56.3



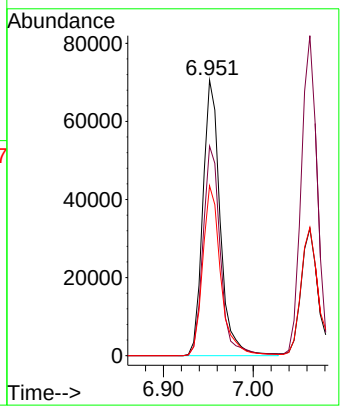


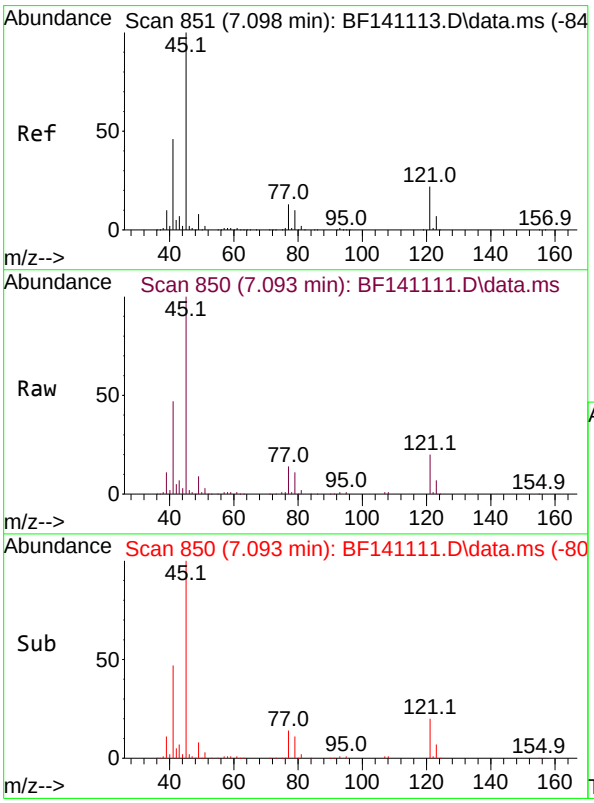
#15
Benzyl Alcohol
Concen: 10.469 ng
RT: 6.951 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 94737

Ion	Ratio	Lower	Upper
79	100		
108	76.1	61.4	92.0
77	61.7	49.8	74.6

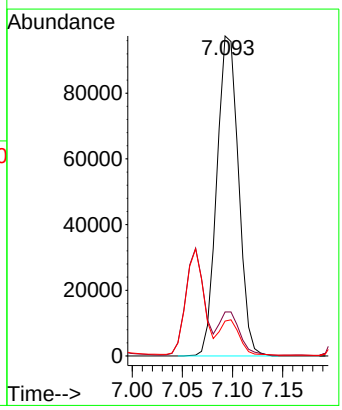


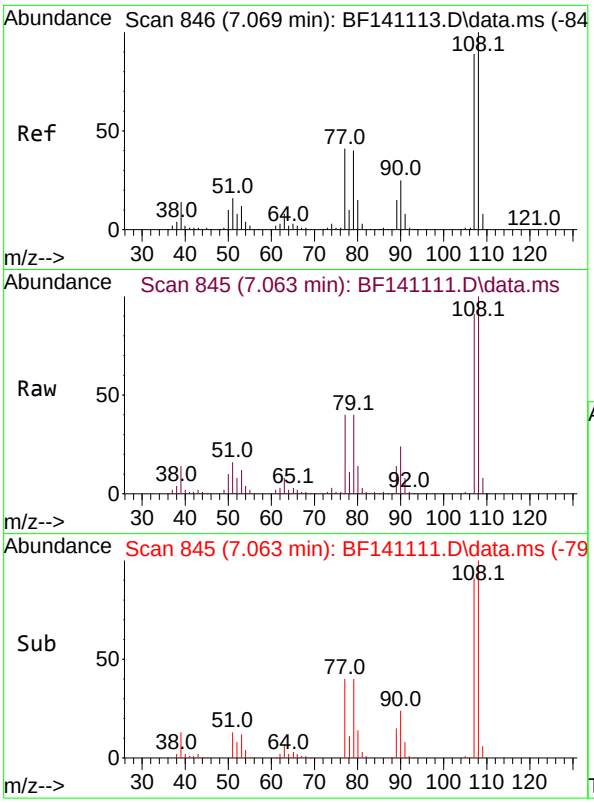


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.476 ng
RT: 7.093 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 45 Resp: 146135

Ion	Ratio	Lower	Upper
45	100		
77	13.8	0.0	34.1
79	10.9	0.0	31.0



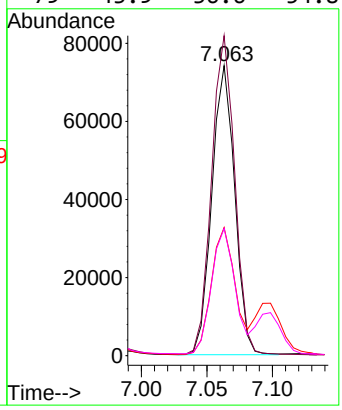


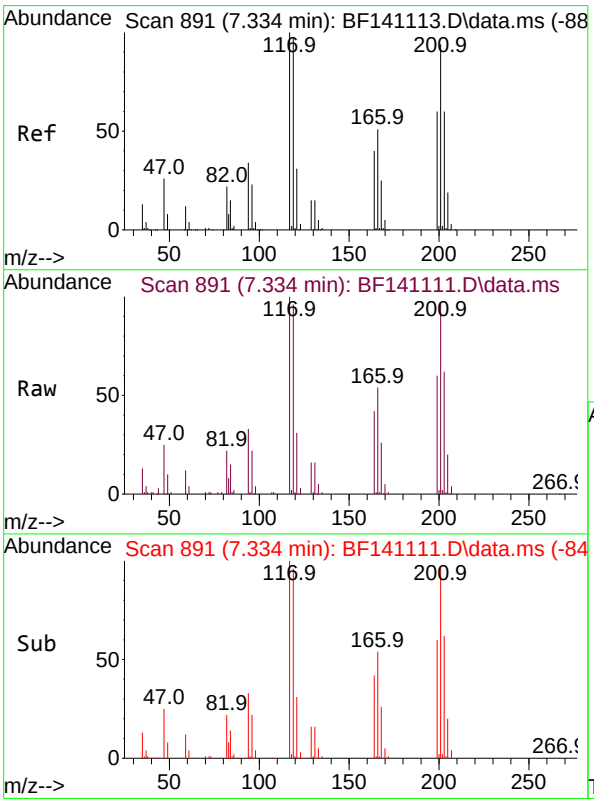
#17
2-Methylphenol
Concen: 10.478 ng
RT: 7.063 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 89782

Ion	Ratio	Lower	Upper
107	100		
108	110.3	90.1	135.1
77	44.2	36.6	55.0
79	43.9	36.6	54.8

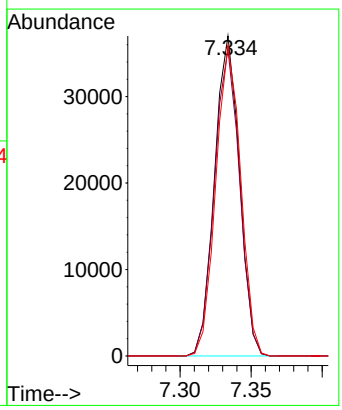


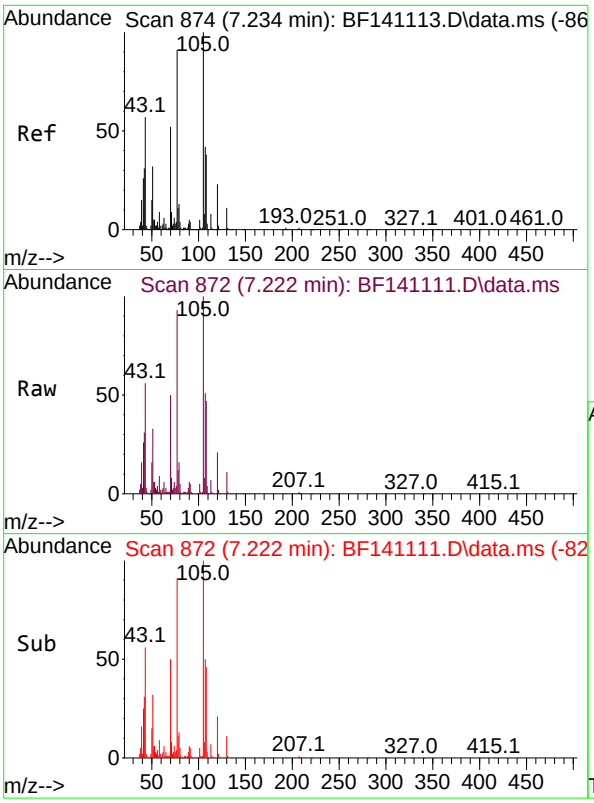


#18
Hexachloroethane
Concen: 10.461 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:117 Resp: 45125

Ion	Ratio	Lower	Upper
117	100		
119	95.9	77.6	116.4
201	97.0	75.1	112.7



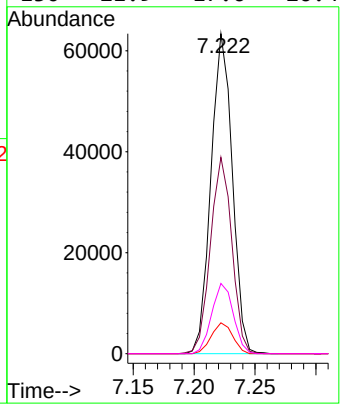


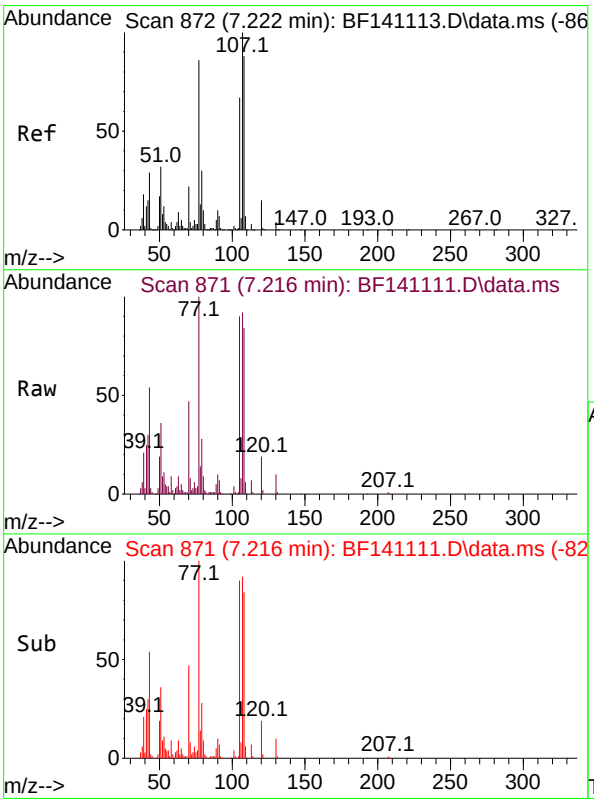
#19
n-Nitroso-di-n-propylamine
Concen: 10.468 ng
RT: 7.222 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 77270

Ion	Ratio	Lower	Upper
70	100		
42	61.4	47.8	71.6
101	9.6	7.9	11.9
130	21.9	17.6	26.4

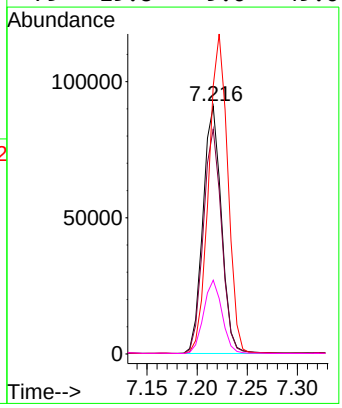


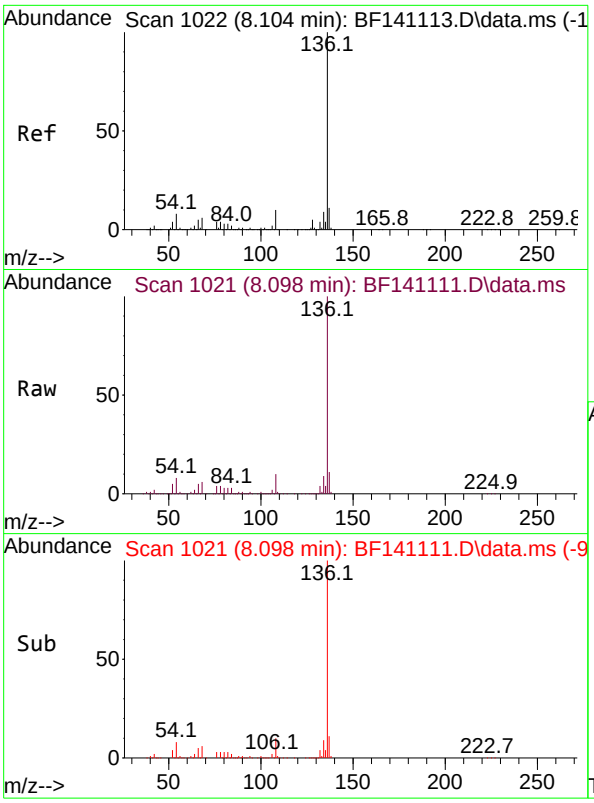


#20
3+4-Methylphenols
Concen: 10.809 ng
RT: 7.216 min Scan# 871
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:107 Resp: 116842

Ion	Ratio	Lower	Upper
107	100		
108	90.8	68.3	108.3
77	108.2	66.4	106.4#
79	29.8	9.6	49.6



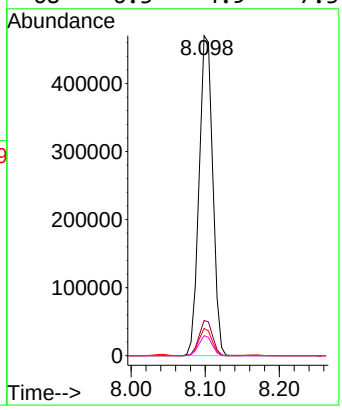


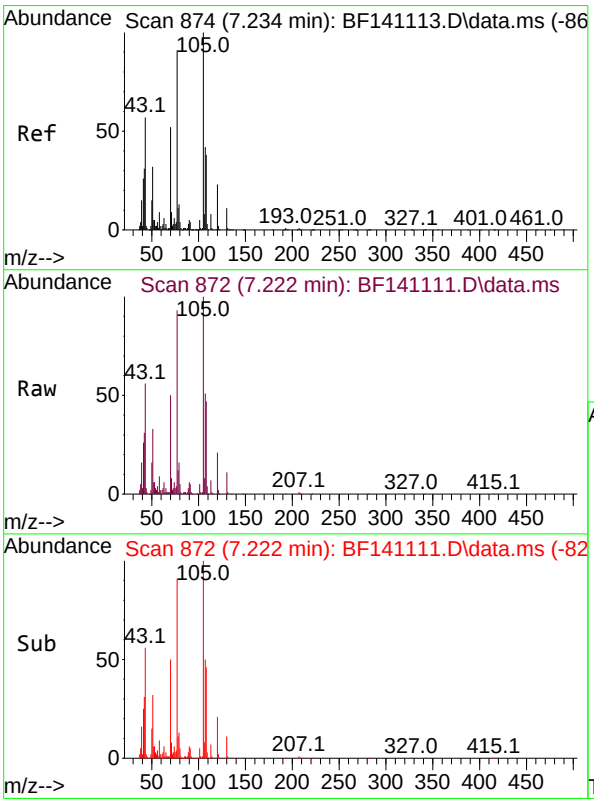
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 604478

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.5	6.3	9.5
68	6.3	4.9	7.3

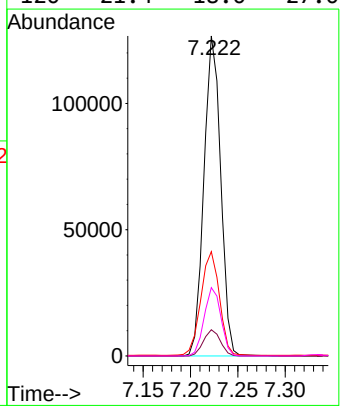


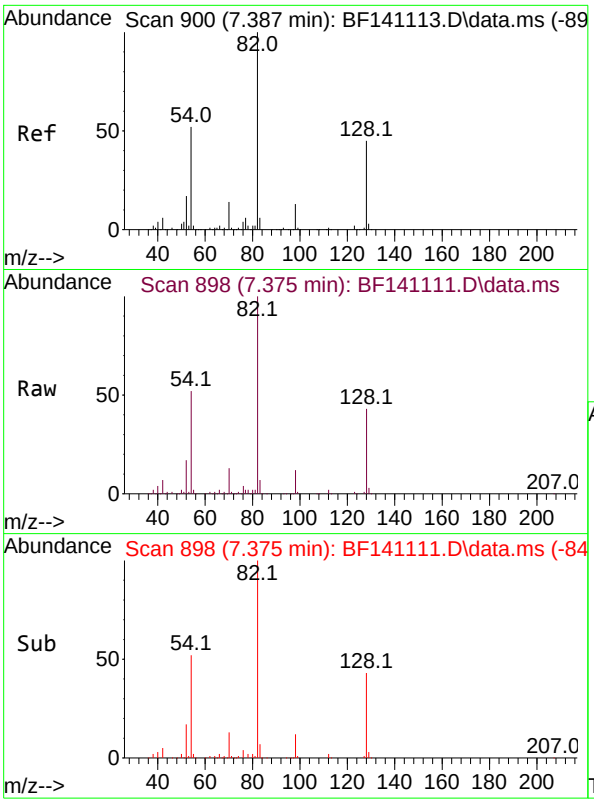


#22
Acetophenone
Concen: 10.851 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:105 Resp: 155933

Ion	Ratio	Lower	Upper
105	100		
71	8.2	7.1	10.7
51	32.6	25.4	38.2
120	21.4	18.0	27.0



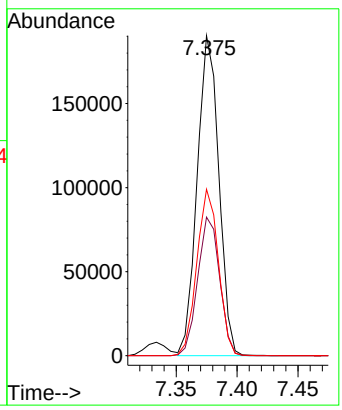


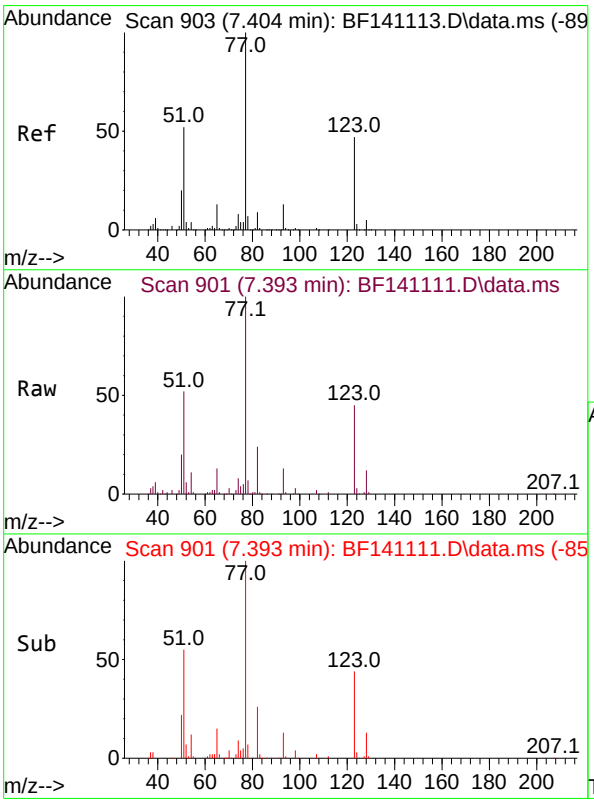
#23
Nitrobenzene-d5
Concen: 20.662 ng
RT: 7.375 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 235613

Ion	Ratio	Lower	Upper
82	100		
128	43.3	36.1	54.1
54	52.0	41.0	61.4

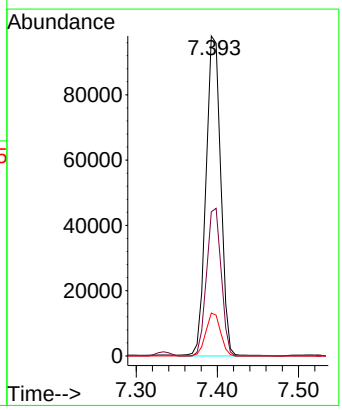


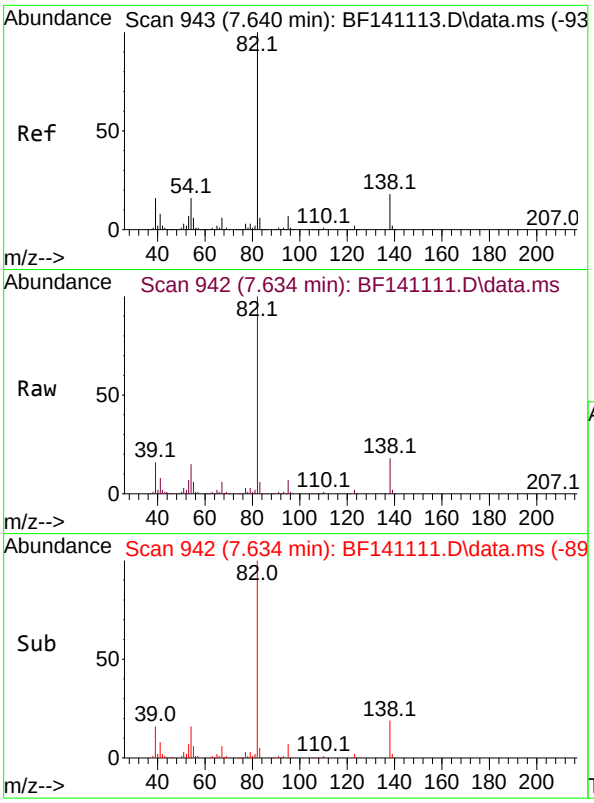


#24
Nitrobenzene
Concen: 10.428 ng
RT: 7.393 min Scan# 901
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 77 Resp: 123929

Ion	Ratio	Lower	Upper
77	100		
123	45.1	37.7	56.5
65	13.4	10.6	16.0



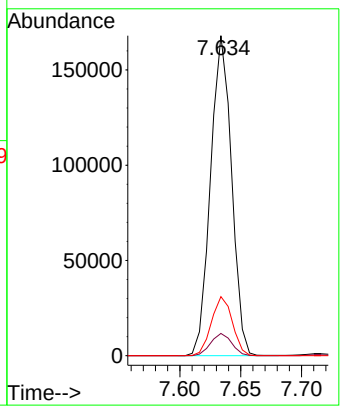


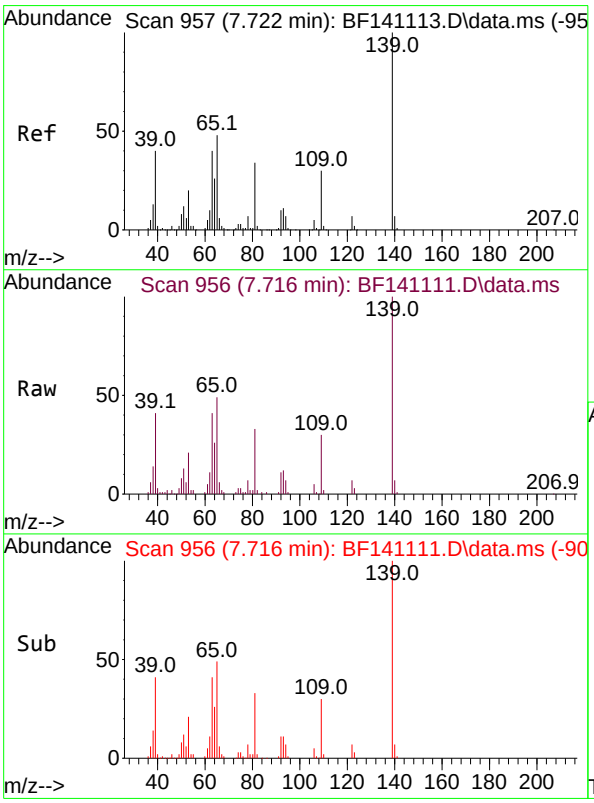
#25
Isophorone
Concen: 10.363 ng
RT: 7.634 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 201958

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.9	8.9
138	18.4	14.2	21.2

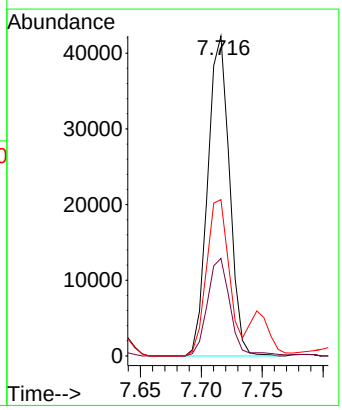


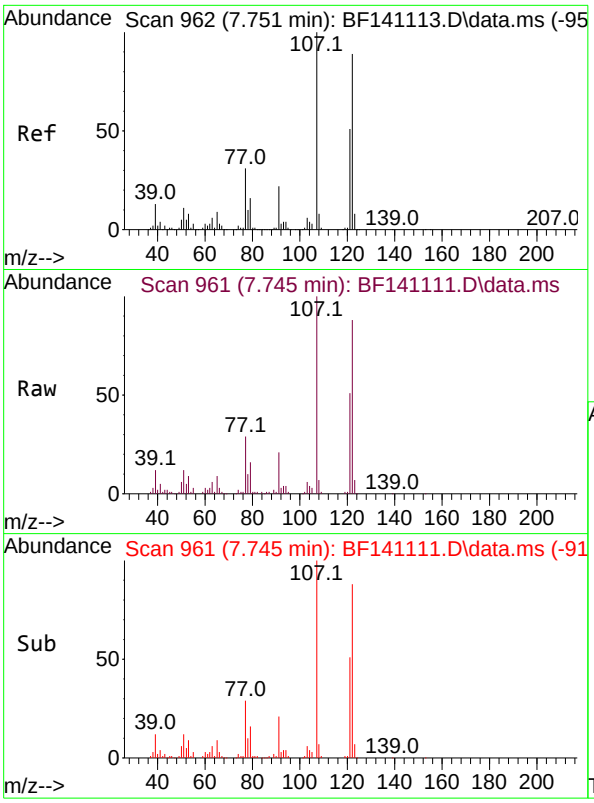


#26
2-Nitrophenol
Concen: 9.698 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:139 Resp: 52430

Ion	Ratio	Lower	Upper
139	100		
109	30.5	23.8	35.6
65	48.8	38.5	57.7



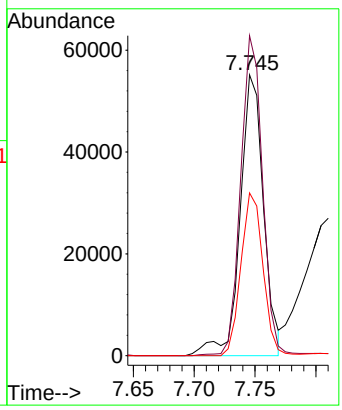


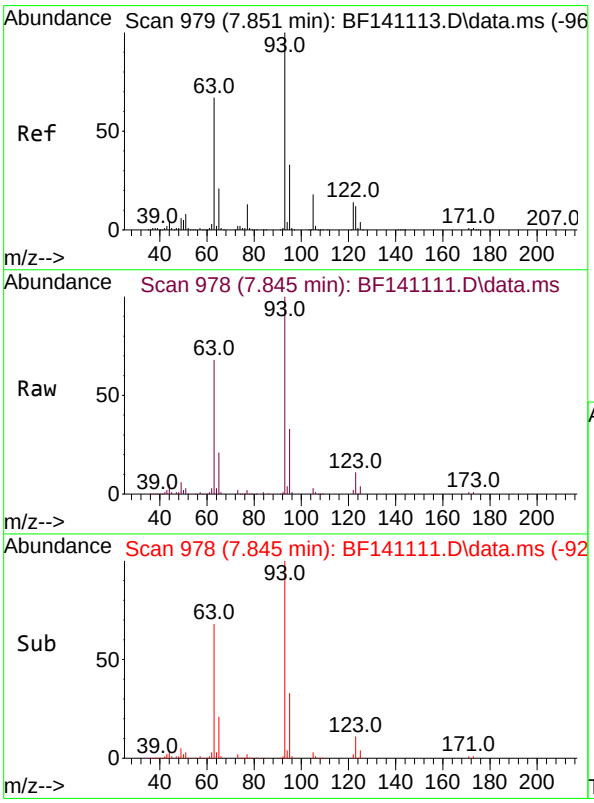
#27
2,4-Dimethylphenol
Concen: 10.123 ng
RT: 7.745 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 73818

Ion	Ratio	Lower	Upper
122	100		
107	114.0	90.3	135.5
121	58.0	46.5	69.7

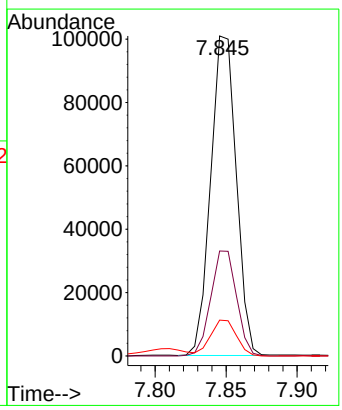


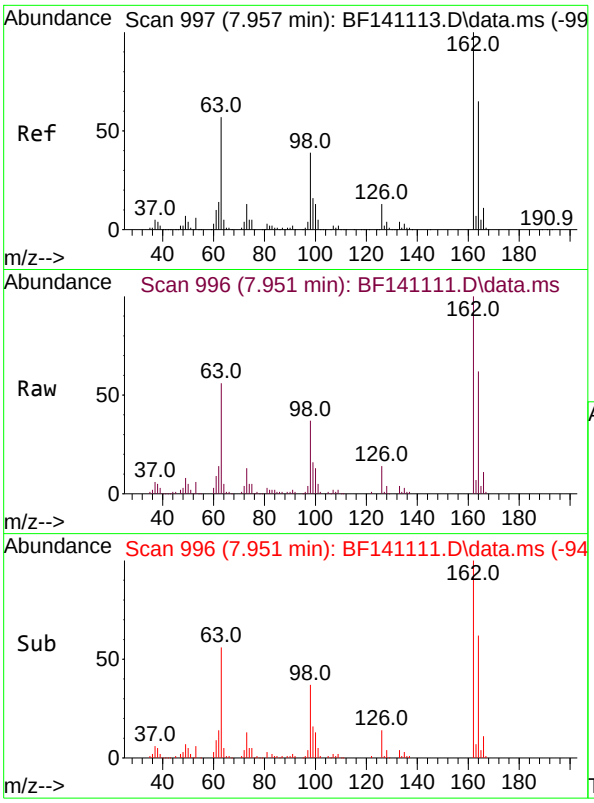


#28
bis(2-Chloroethoxy)methane
Concen: 10.342 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 93 Resp: 126489

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.2	39.4
123	11.2	10.1	15.1



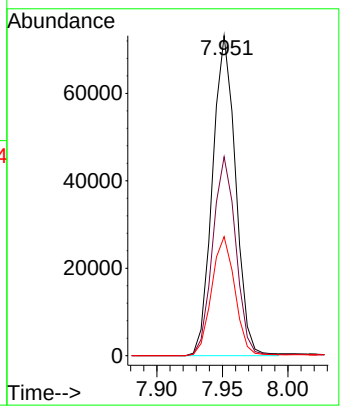


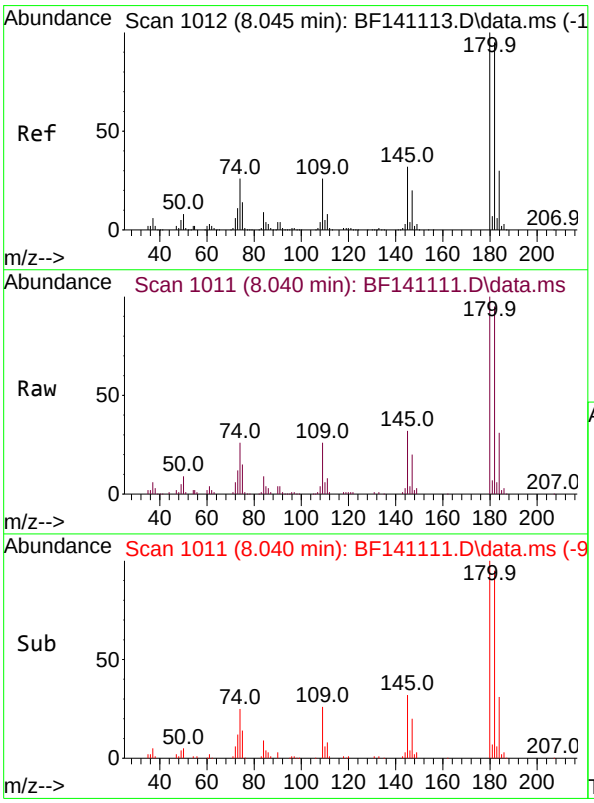
#29
2,4-Dichlorophenol
Concen: 10.341 ng
RT: 7.951 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 89559

Ion	Ratio	Lower	Upper
162	100		
164	62.2	44.5	84.5
98	37.2	18.5	58.5

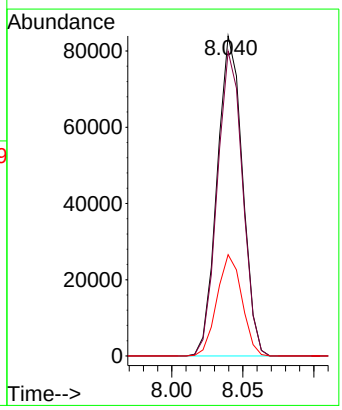


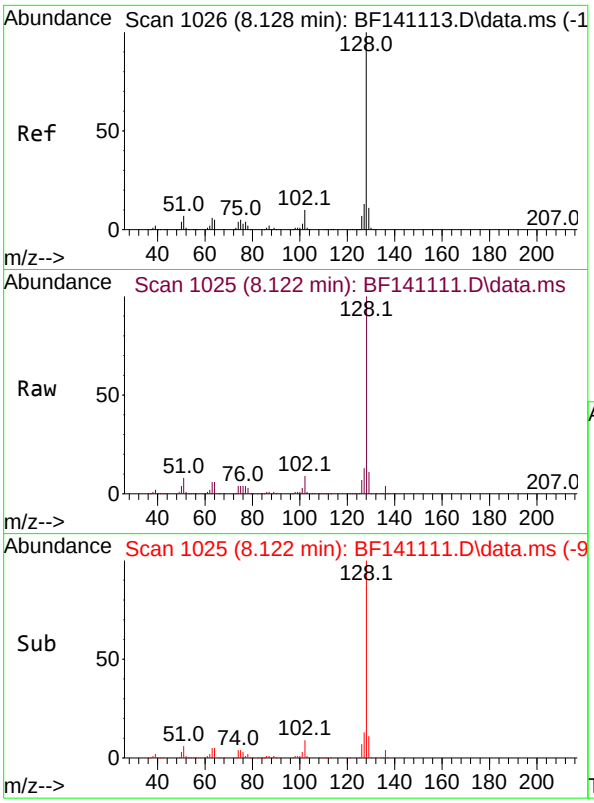


#30
1,2,4-Trichlorobenzene
Concen: 10.490 ng
RT: 8.040 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:180 Resp: 103848

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
145	31.7	25.3	37.9



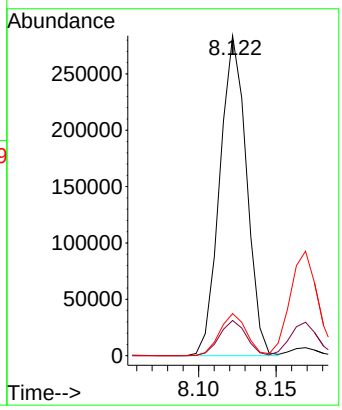


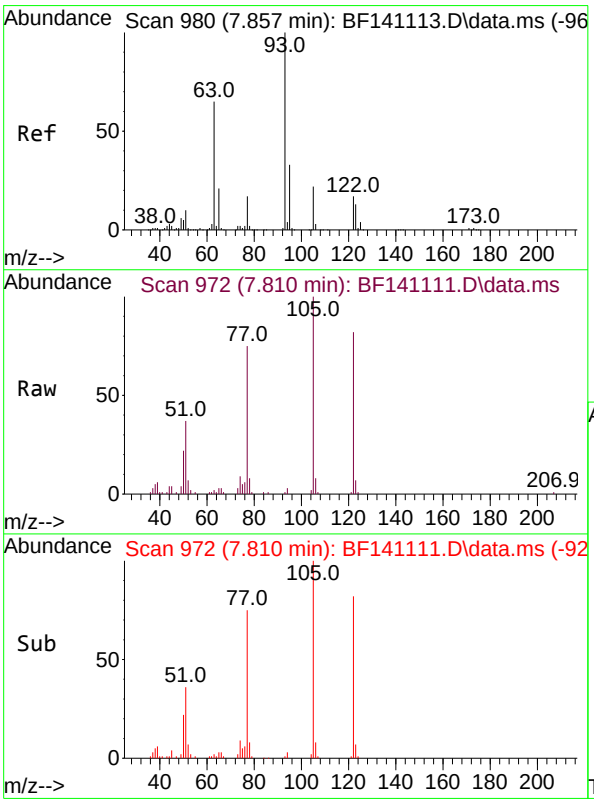
#31
Naphthalene
Concen: 10.675 ng
RT: 8.122 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 340302

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.1	10.8	16.2

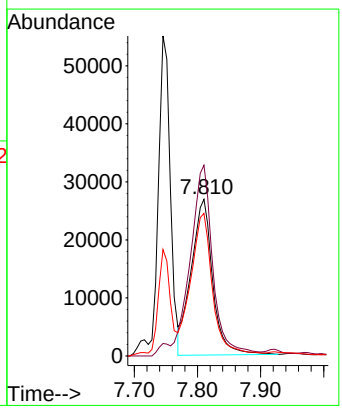


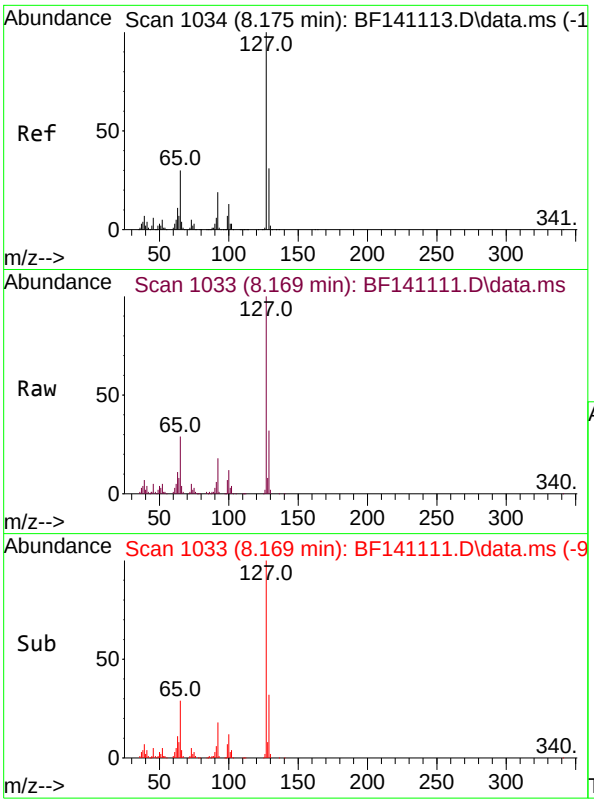


#32
Benzoic acid
Concen: 9.119 ng
RT: 7.810 min Scan# 972
Delta R.T. -0.047 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:122 Resp: 63791

Ion	Ratio	Lower	Upper
122	100		
105	121.7	105.5	145.5
77	91.0	75.1	115.1



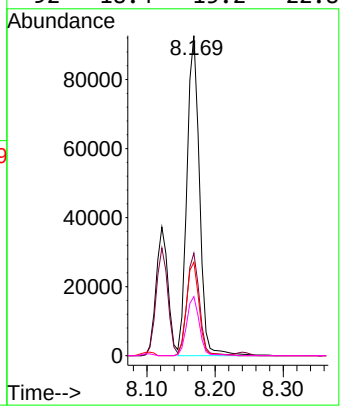


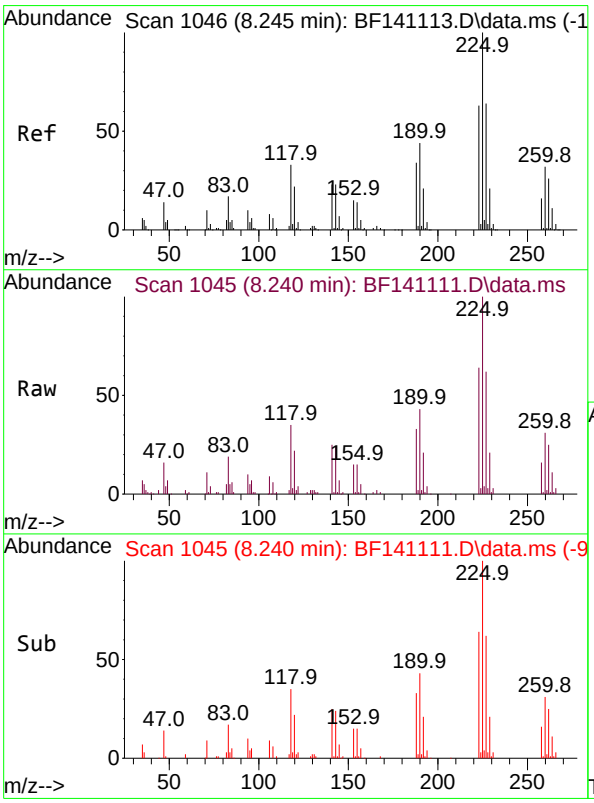
#33
4-Chloroaniline
Concen: 10.679 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 117726

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	29.2	23.8	35.8
92	18.4	15.2	22.8

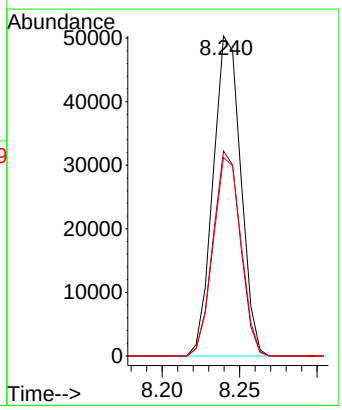


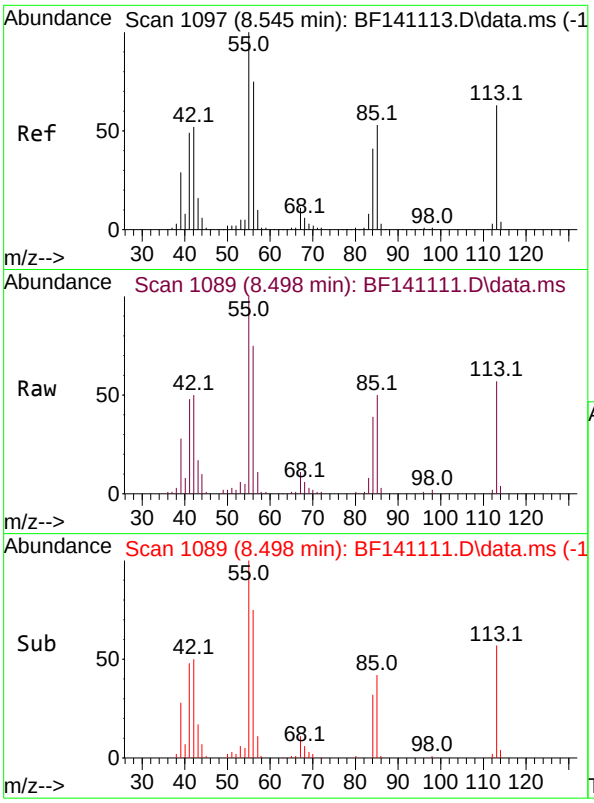


#34
Hexachlorobutadiene
Concen: 10.496 ng
RT: 8.240 min Scan# 1045
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:225 Resp: 62610

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.6	76.0
227	62.0	51.6	77.4



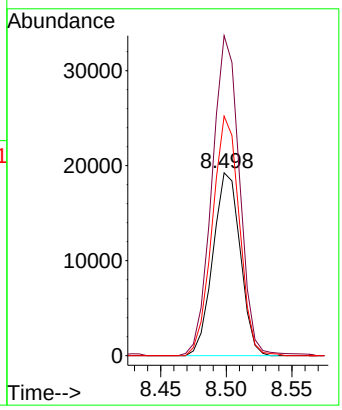


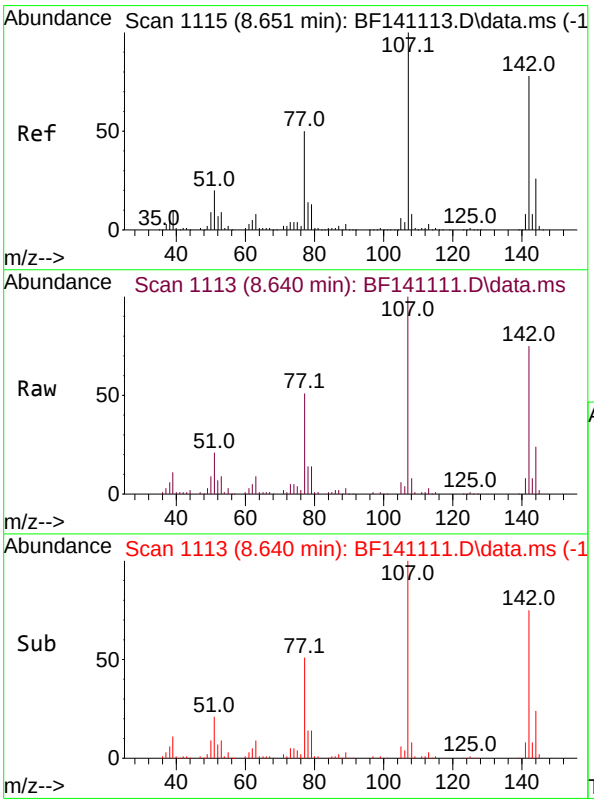
#35
Caprolactam
Concen: 9.814 ng
RT: 8.498 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 27881

Ion	Ratio	Lower	Upper
113	100		
55	175.0	139.7	179.7
56	131.0	99.4	139.4

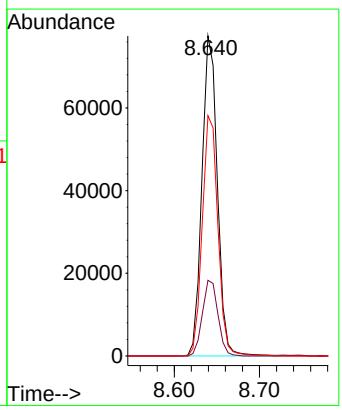


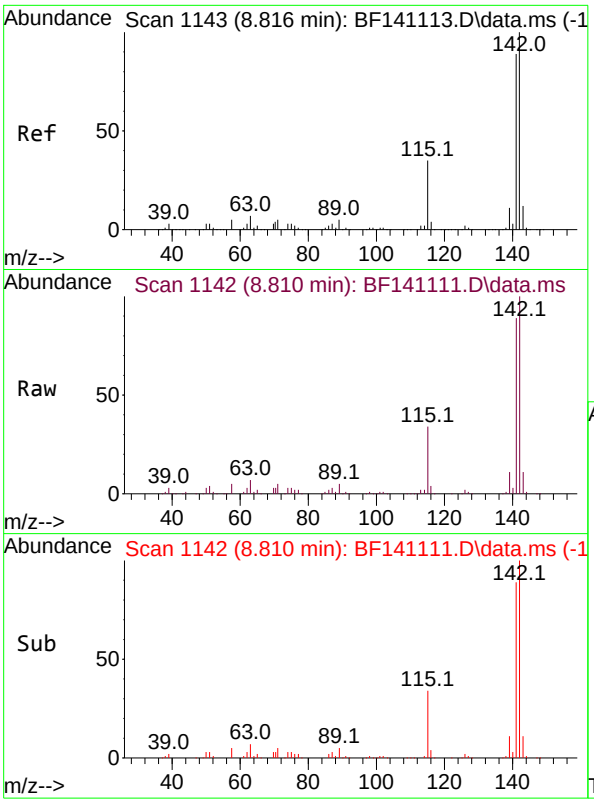


#36
4-Chloro-3-methylphenol
Concen: 10.268 ng
RT: 8.640 min Scan# 1113
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:107 Resp: 97256

Ion	Ratio	Lower	Upper
107	100		
144	23.6	20.4	30.6
142	75.1	62.2	93.2



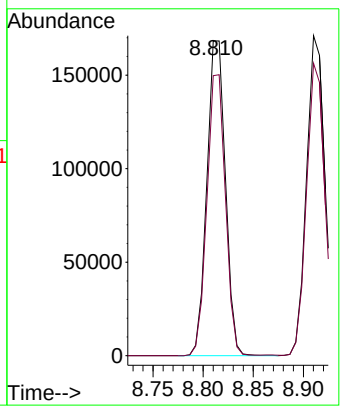


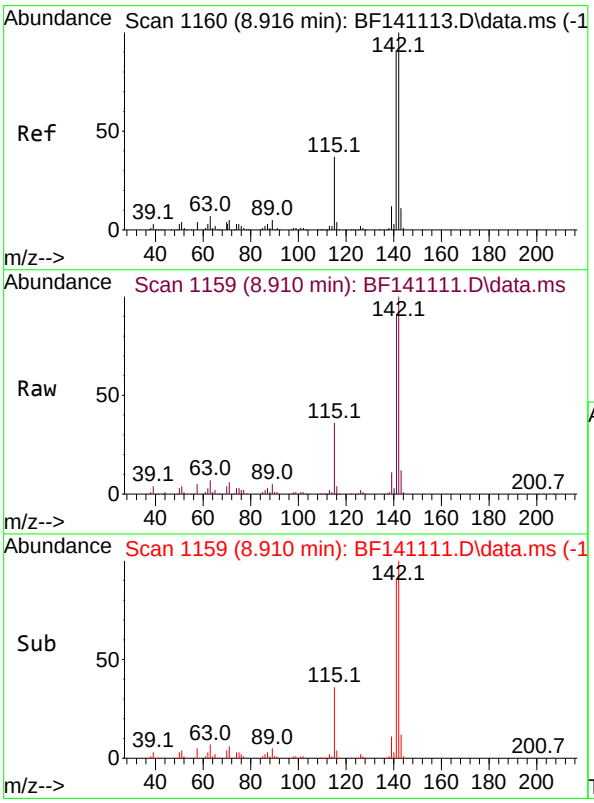
#37
2-Methylnaphthalene
Concen: 10.704 ng
RT: 8.810 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 217446

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.3	106.9

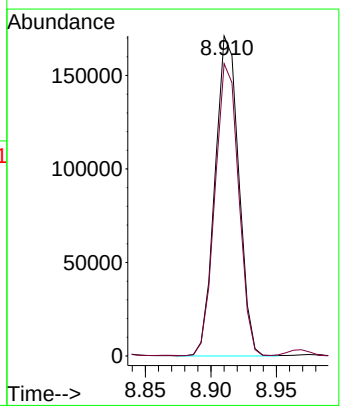


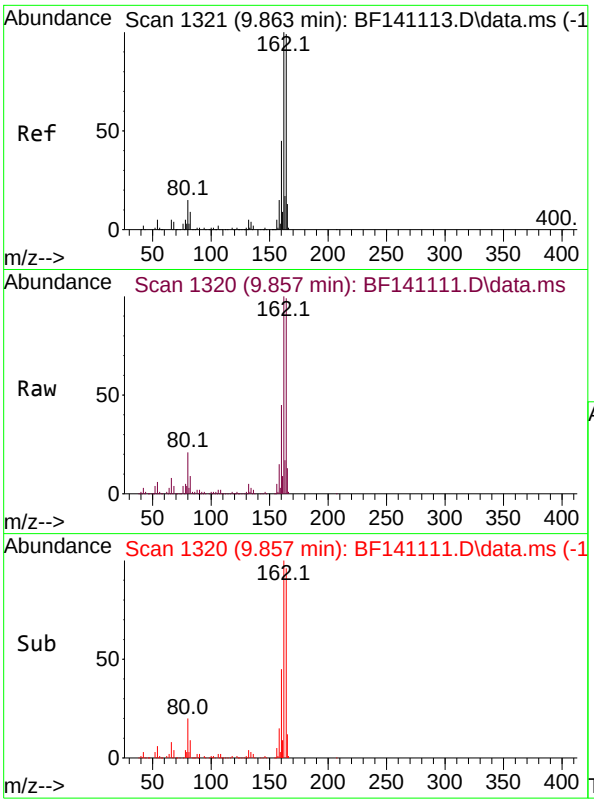


#38
1-Methylnaphthalene
Concen: 10.747 ng
RT: 8.910 min Scan# 1159
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:142 Resp: 215158

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7



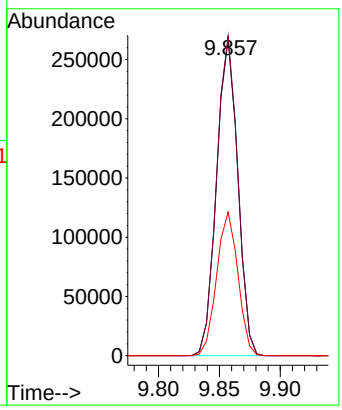


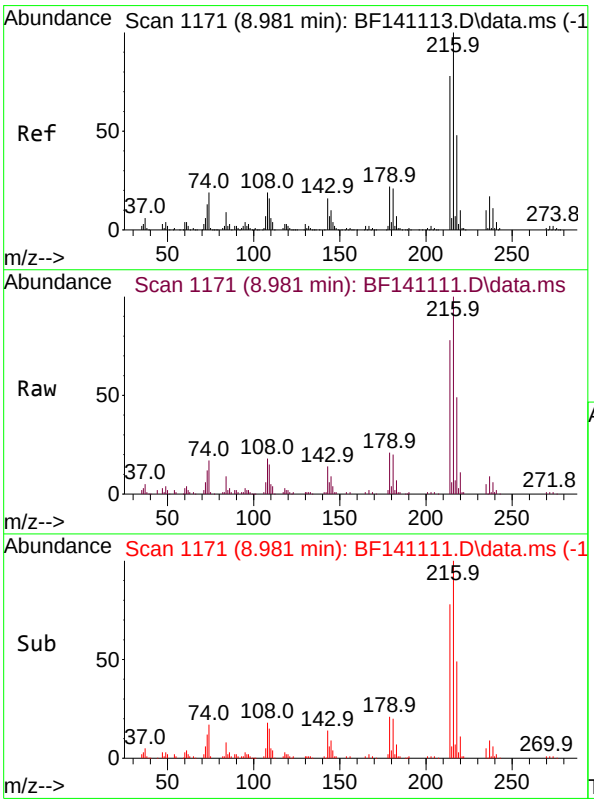
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 323407

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.0	121.4
160	45.5	36.1	54.1

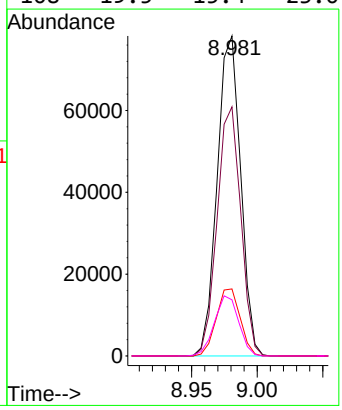


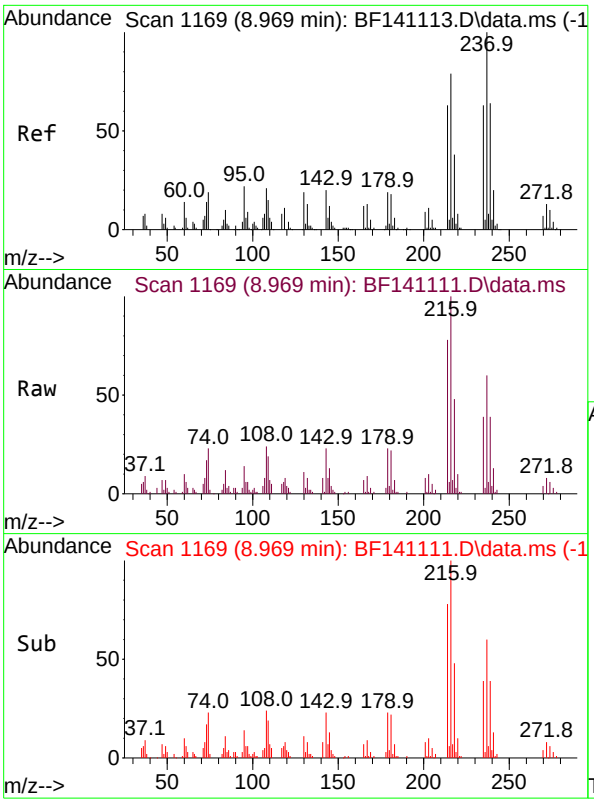


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.477 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:216 Resp: 97255

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.6	94.0
179	21.4	17.7	26.5
108	19.5	15.4	23.0



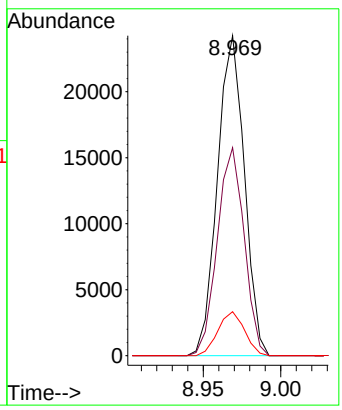


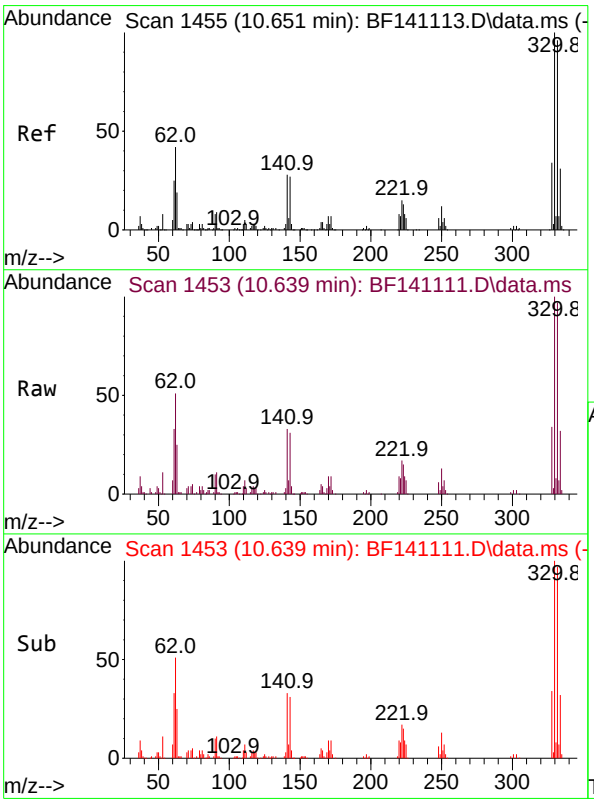
#41
Hexachlorocyclopentadiene
Concen: 9.652 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 29312

Ion	Ratio	Lower	Upper
237	100		
235	65.0	43.0	83.0
272	13.7	0.0	33.0

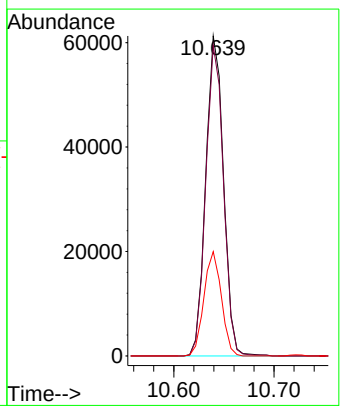


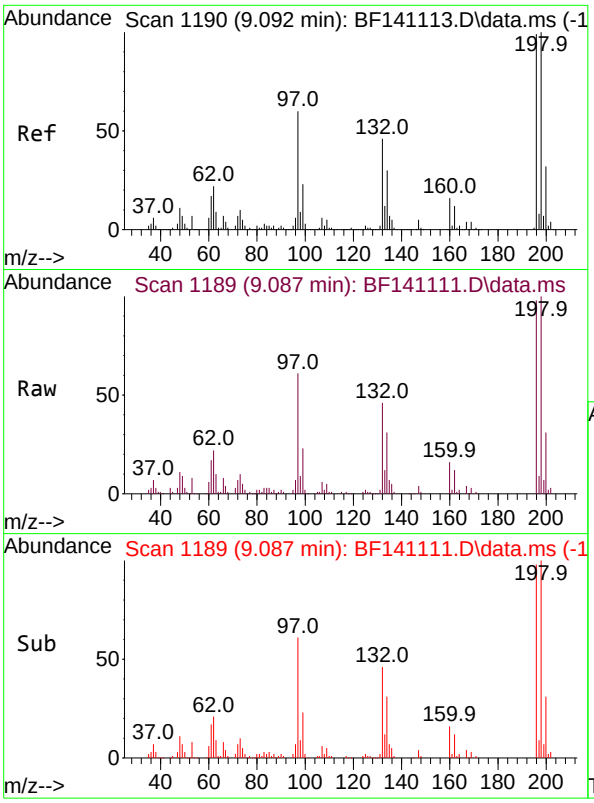


#42
2,4,6-Tribromophenol
Concen: 20.474 ng
RT: 10.639 min Scan# 1453
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:330 Resp: 75448

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	32.1	25.2	37.8



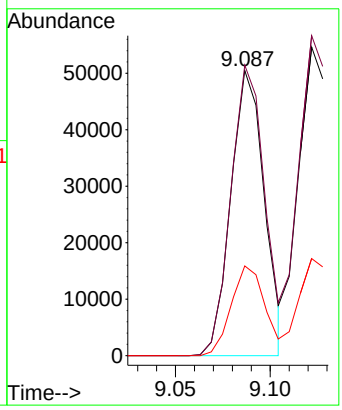


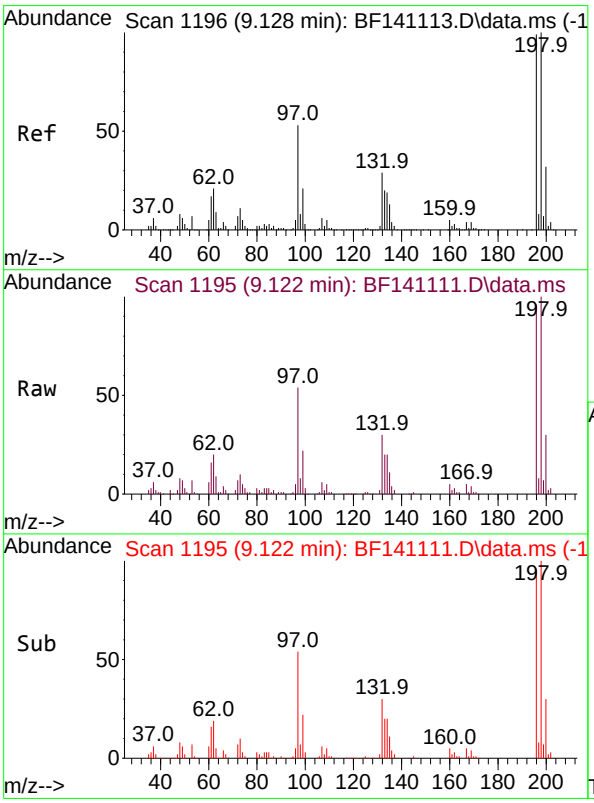
#43
2,4,6-Trichlorophenol
Concen: 9.915 ng
RT: 9.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 62070

Ion	Ratio	Lower	Upper
196	100		
198	101.9	80.8	121.2
200	31.5	25.7	38.5

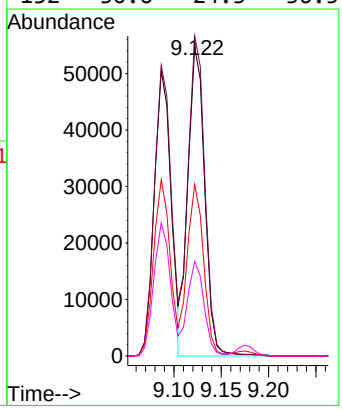


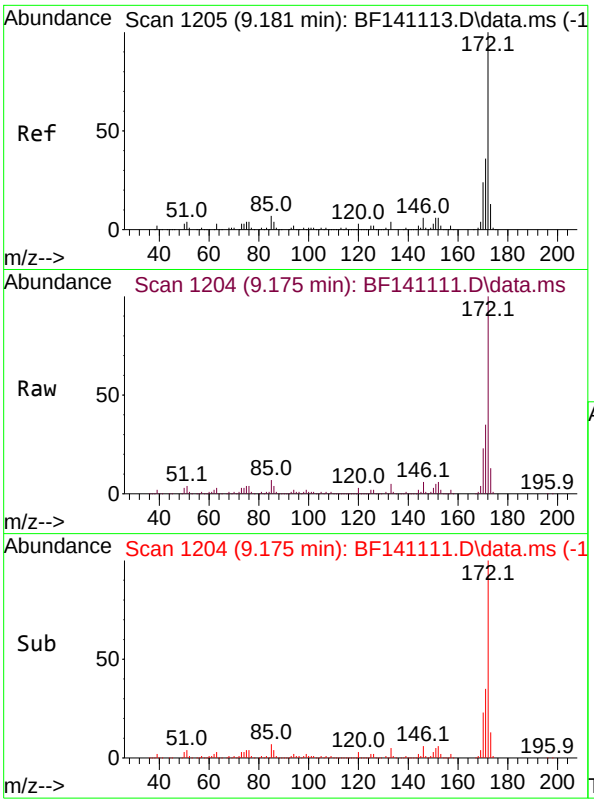


#44
2,4,5-Trichlorophenol
Concen: 10.258 ng
RT: 9.122 min Scan# 1195
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:196 Resp: 67822

Ion	Ratio	Lower	Upper
196	100		
198	103.7	80.6	120.8
97	55.5	43.1	64.7
132	30.6	24.3	36.5



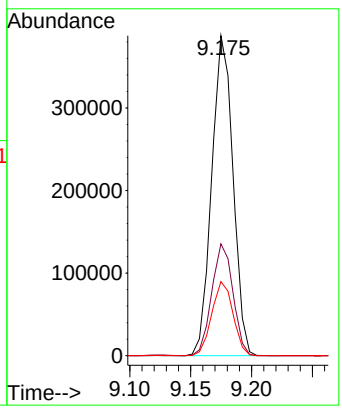


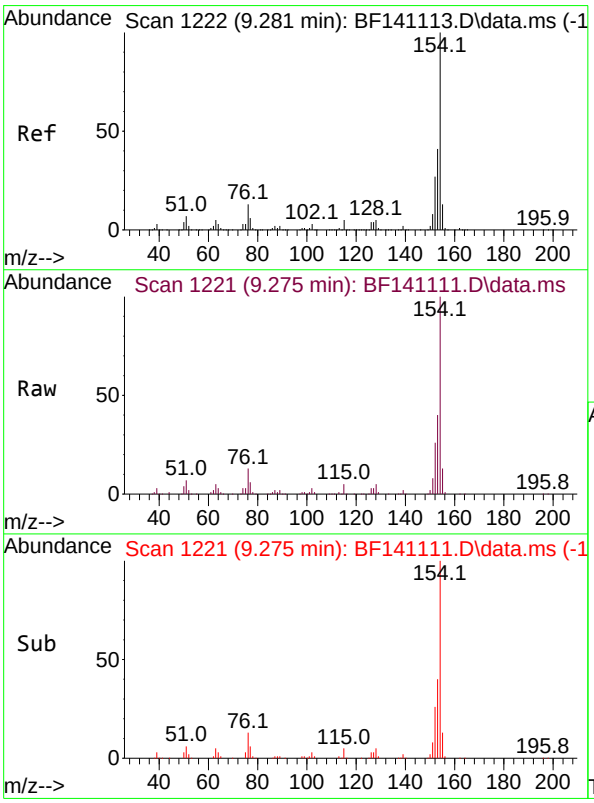
#45
2-Fluorobiphenyl
Concen: 22.282 ng
RT: 9.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 471901

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.7	43.1
170	23.1	19.0	28.6

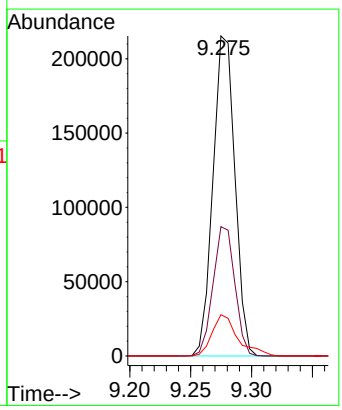


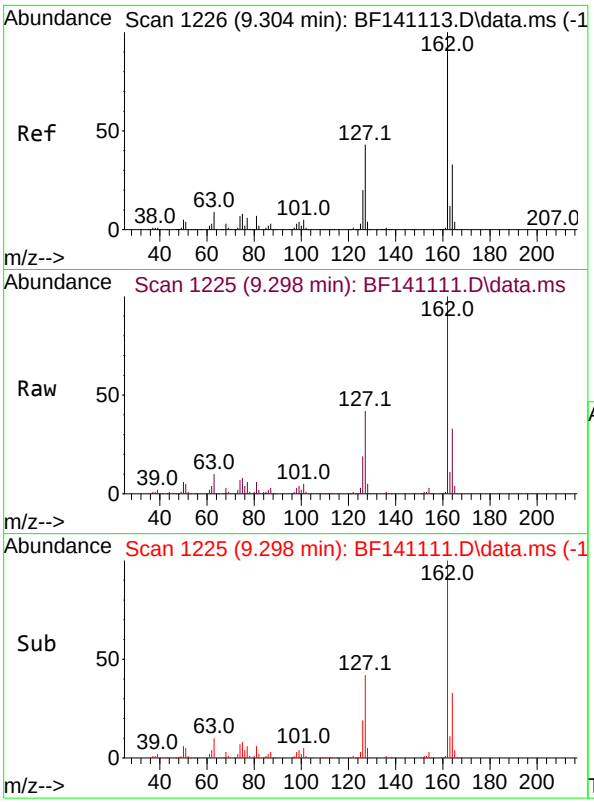


#46
1,1'-Biphenyl
Concen: 10.757 ng
RT: 9.275 min Scan# 1221
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:154 Resp: 270164

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.7	60.7
76	12.9	0.0	33.1



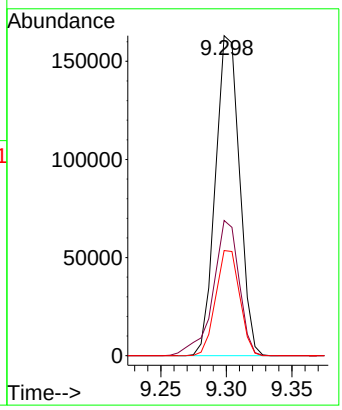


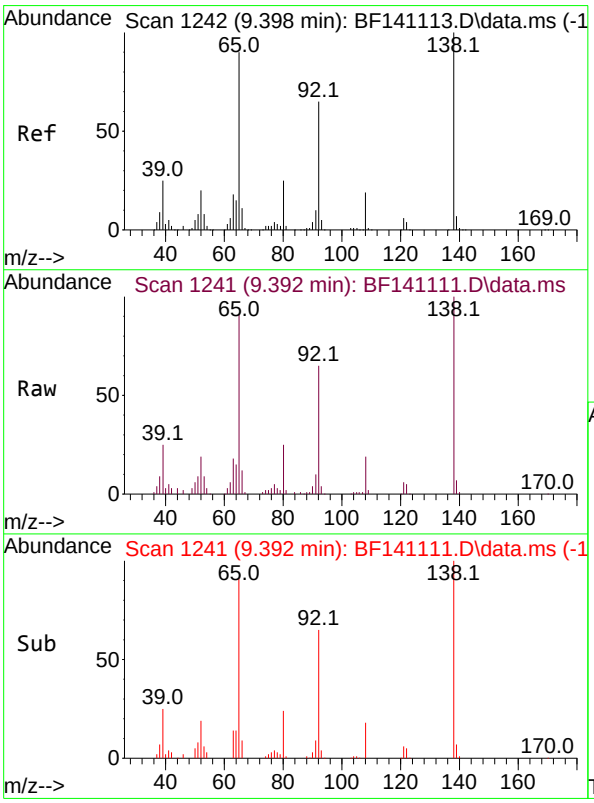
#47
2-Chloronaphthalene
Concen: 10.649 ng
RT: 9.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 208316

Ion	Ratio	Lower	Upper
162	100		
127	42.3	34.6	51.8
164	32.9	26.5	39.7

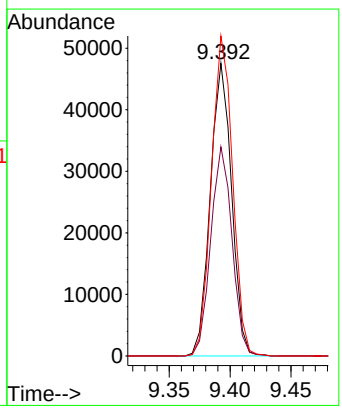


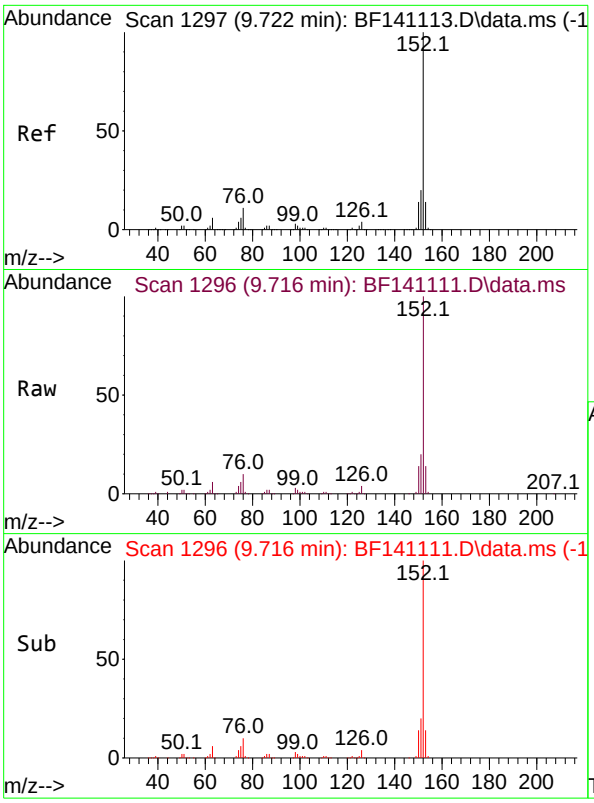


#48
2-Nitroaniline
Concen: 9.974 ng
RT: 9.392 min Scan# 1241
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion: 65 Resp: 57839

Ion	Ratio	Lower	Upper
65	100		
92	71.5	58.3	87.5
138	109.4	89.1	133.7



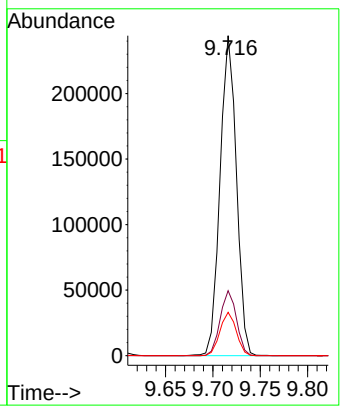


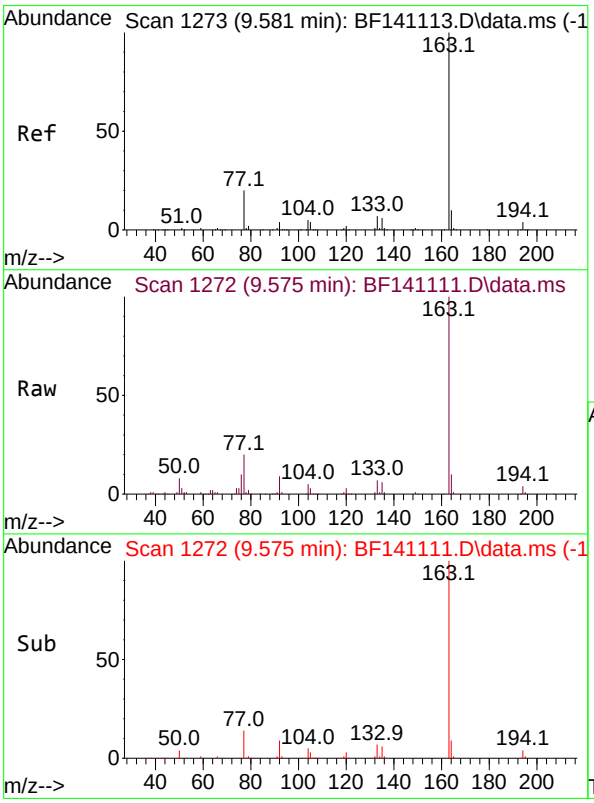
#49
Acenaphthylene
Concen: 10.532 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 294365

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.1	24.1
153	13.5	11.1	16.7

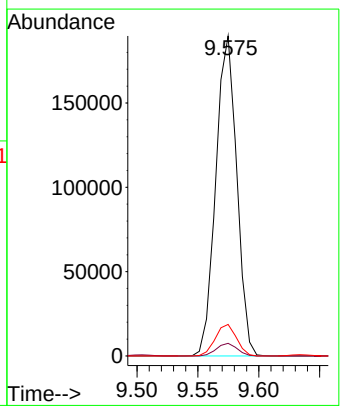


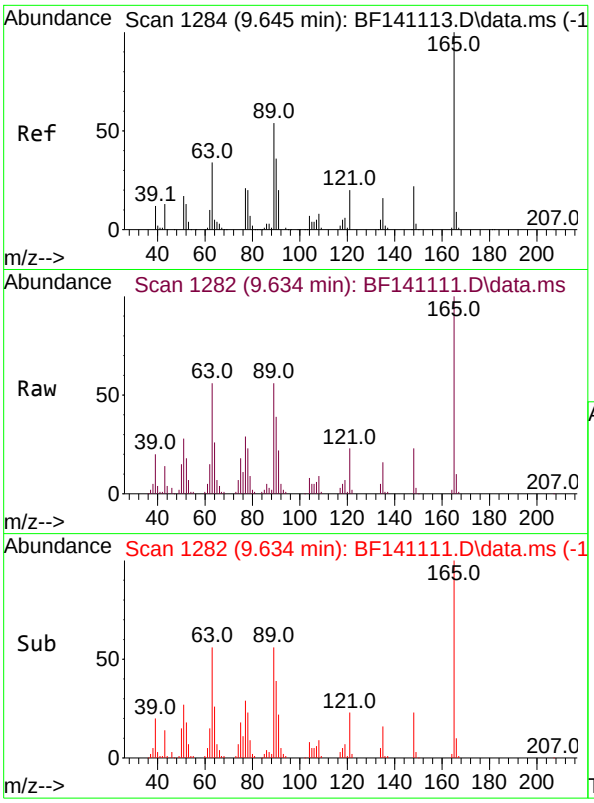


#50
Dimethylphthalate
Concen: 10.475 ng
RT: 9.575 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:163 Resp: 227434

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	9.9	8.2	12.4



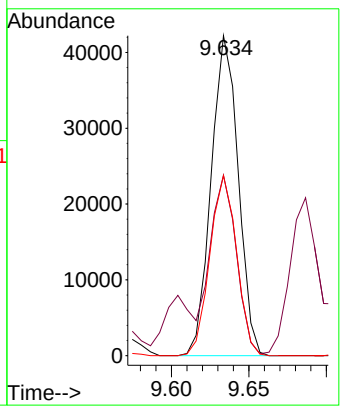


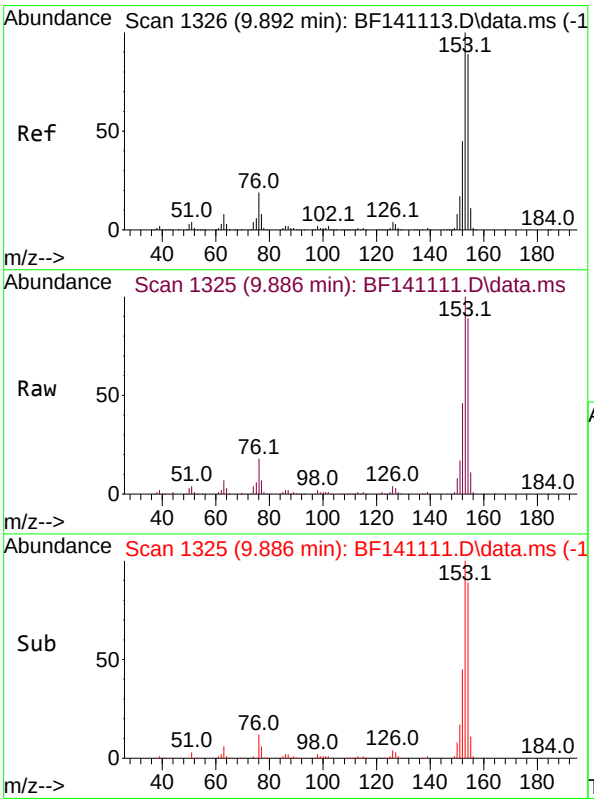
#51
2,6-Dinitrotoluene
Concen: 10.140 ng
RT: 9.634 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 51195

Ion	Ratio	Lower	Upper
165	100		
63	56.4	42.3	63.5
89	56.3	43.1	64.7

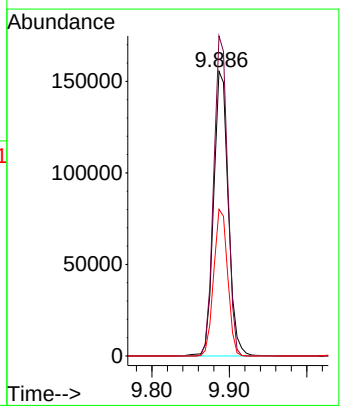


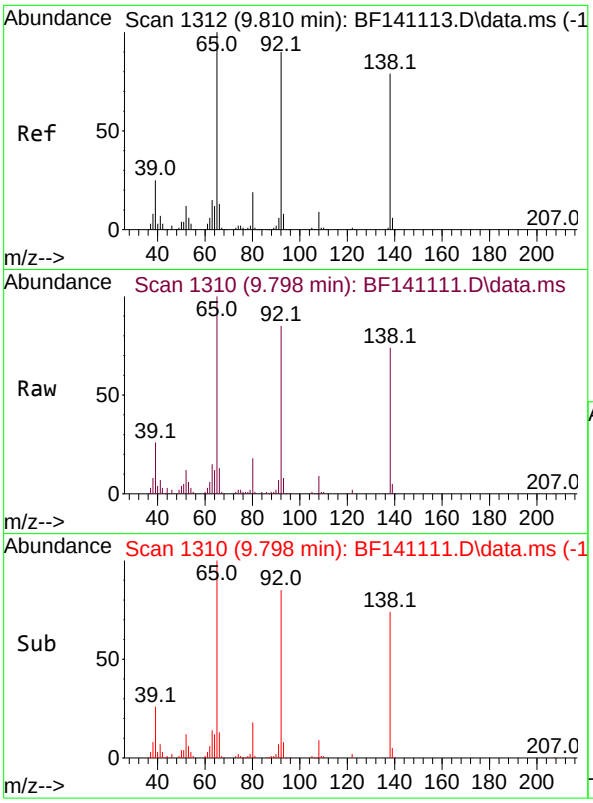


#52
Acenaphthene
Concen: 10.490 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:154 Resp: 204827

Ion	Ratio	Lower	Upper
154	100		
153	112.4	89.8	134.6
152	51.6	40.8	61.2



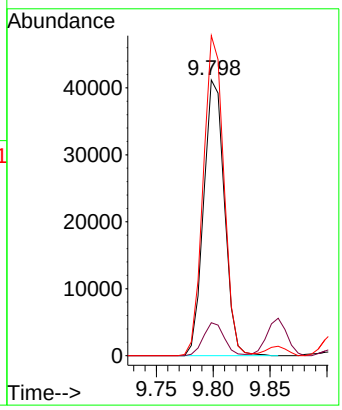


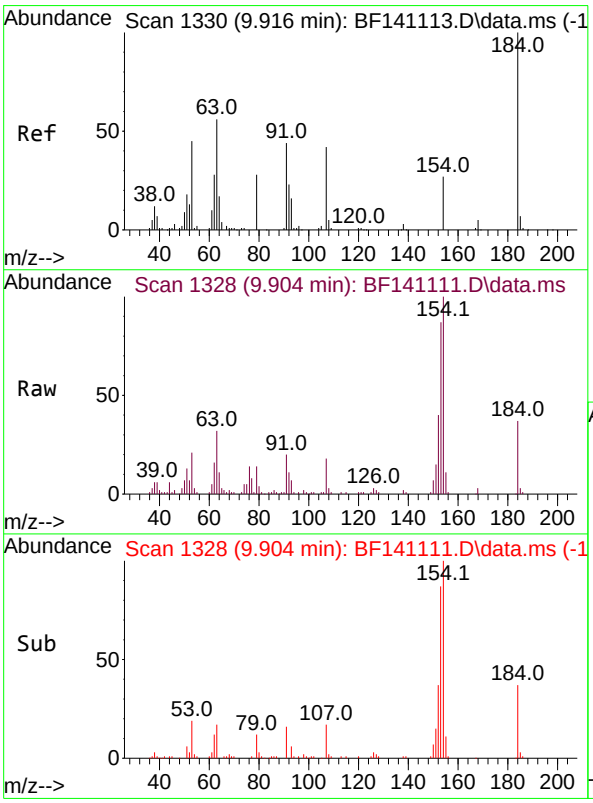
#53
3-Nitroaniline
Concen: 10.205 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 52358

Ion	Ratio	Lower	Upper
138	100		
108	12.0	8.8	13.2
92	116.1	91.3	136.9

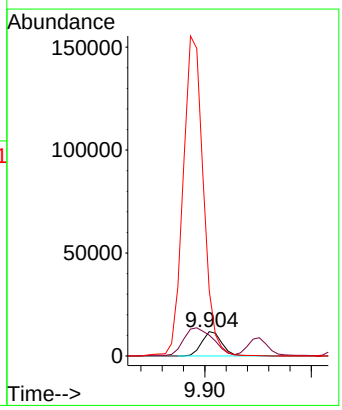


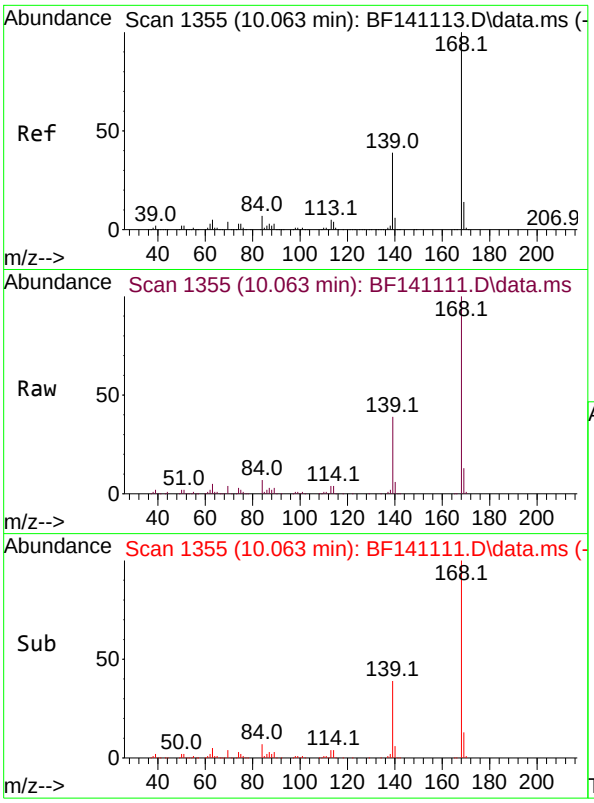


#54
2,4-Dinitrophenol
Concen: 6.517 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:184 Resp: 15639

Ion	Ratio	Lower	Upper
184	100		
63	85.8	48.7	73.1#
154	269.1	57.1	85.7#



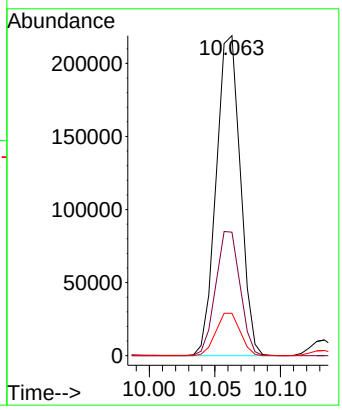


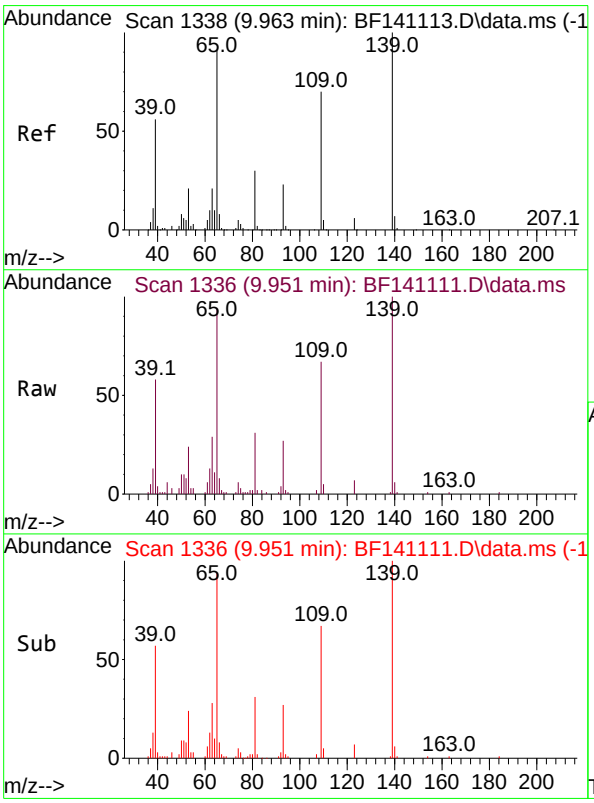
#55
Dibenzofuran
Concen: 10.569 ng
RT: 10.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 280708

Ion	Ratio	Lower	Upper
168	100		
139	38.6	31.4	47.0
169	13.3	10.9	16.3

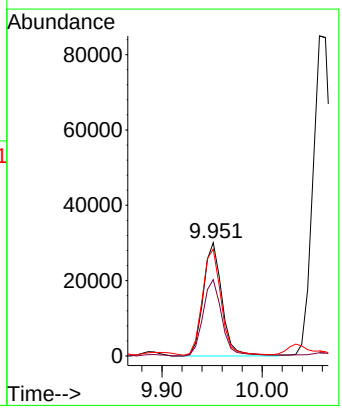


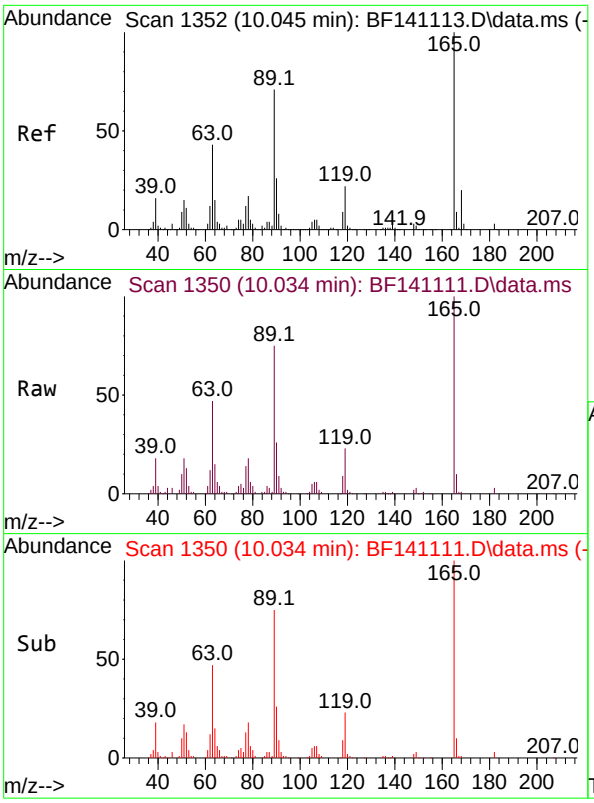


#56
4-Nitrophenol
Concen: 9.709 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:139 Resp: 39013

Ion	Ratio	Lower	Upper
139	100		
109	67.3	50.2	90.2
65	94.3	72.1	112.1



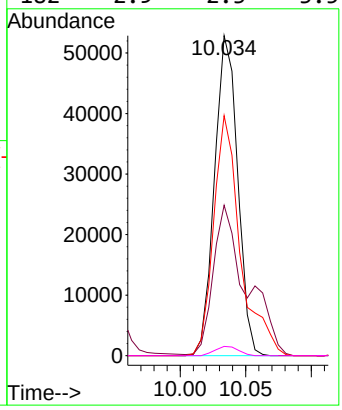


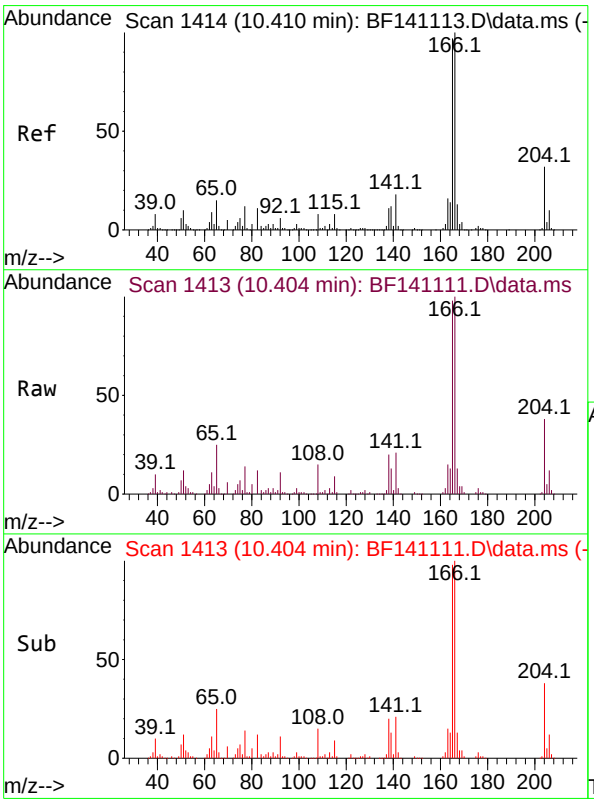
#57
2,4-Dinitrotoluene
Concen: 9.975 ng
RT: 10.034 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 64903

Ion	Ratio	Lower	Upper
165	100		
63	47.0	35.0	52.4
89	75.0	56.7	85.1
182	2.9	2.3	3.5

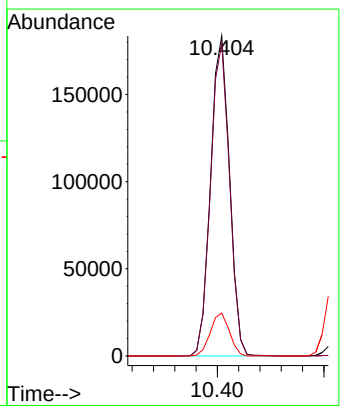


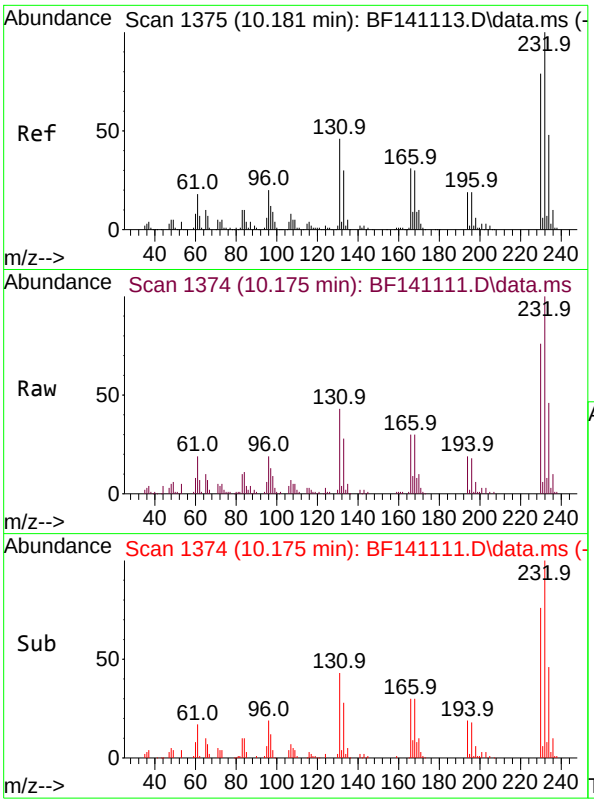


#58
Fluorene
Concen: 10.991 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:166 Resp: 226791

Ion	Ratio	Lower	Upper
166	100		
165	97.7	77.8	116.8
167	13.4	10.8	16.2



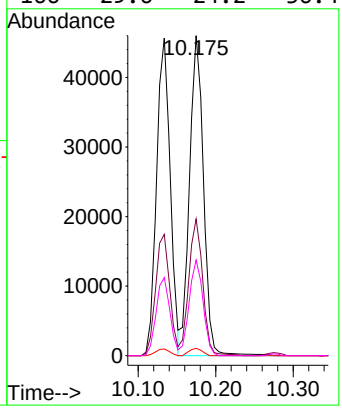


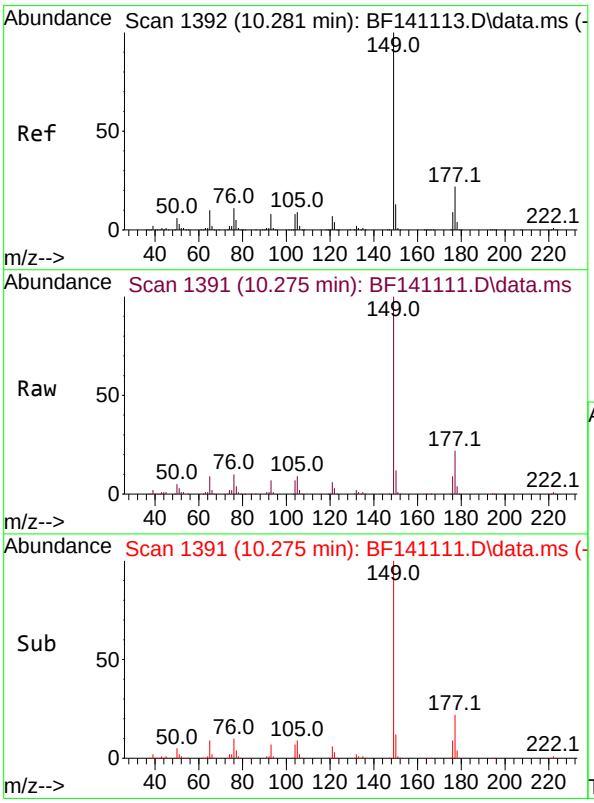
#59
2,3,4,6-Tetrachlorophenol
Concen: 10.519 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 57812

Ion	Ratio	Lower	Upper
232	100		
131	42.5	36.2	54.4
130	2.1	2.0	3.0
166	29.6	24.2	36.4

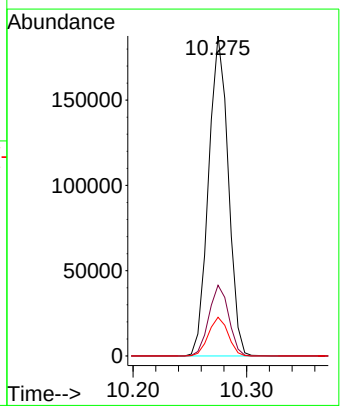


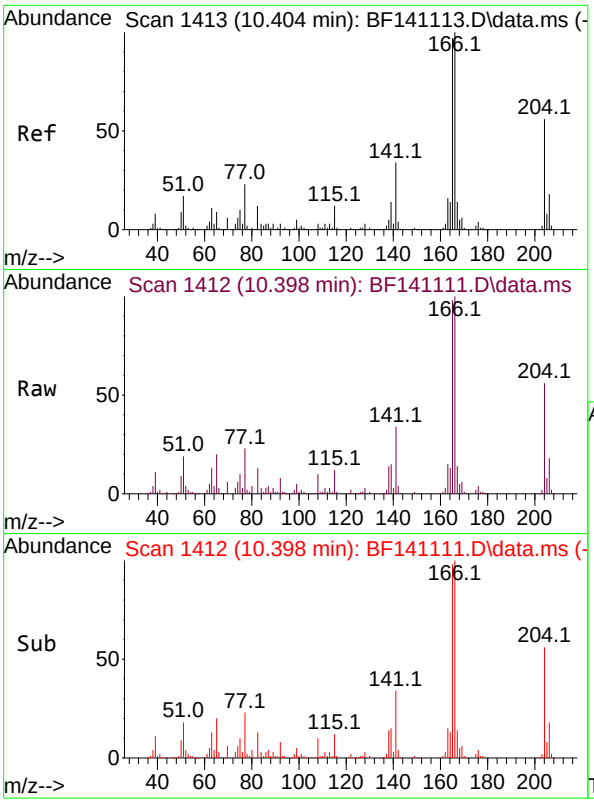


#60
Diethylphthalate
Concen: 10.657 ng
RT: 10.275 min Scan# 1391
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:149 Resp: 225896

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.9	26.9
150	12.1	10.2	15.2



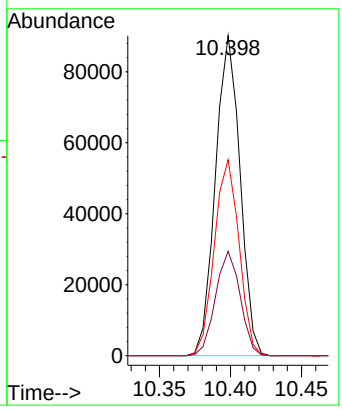


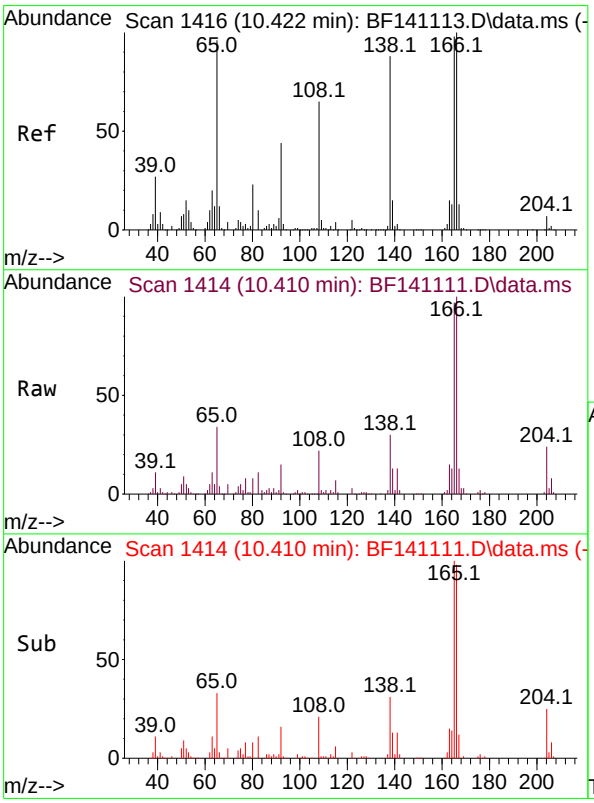
#61
4-Chlorophenyl-phenylether
Concen: 10.806 ng
RT: 10.398 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 108674

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.9	38.9
141	61.2	49.1	73.7

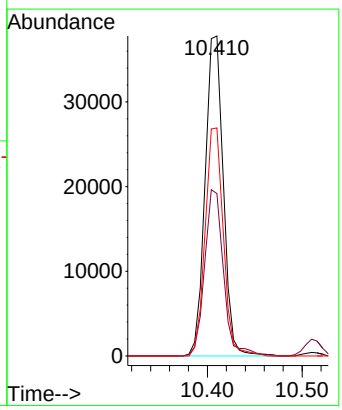


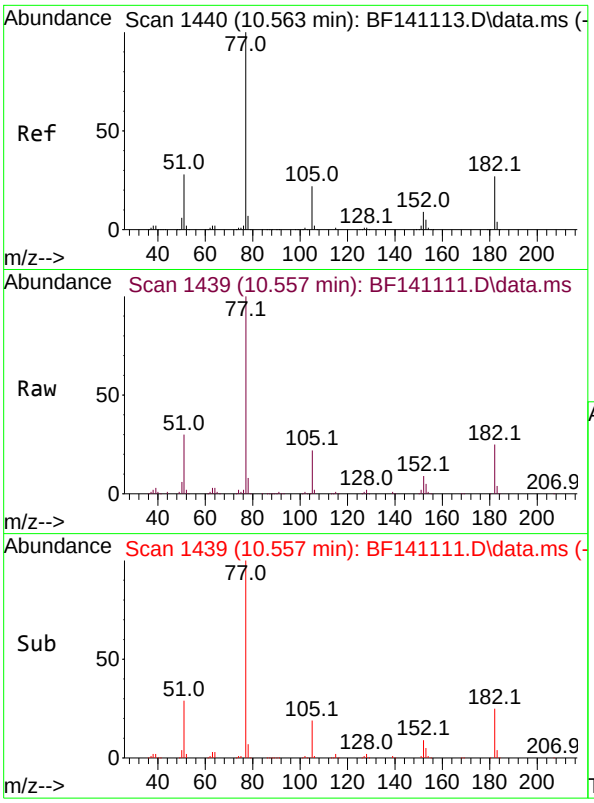


#62
4-Nitroaniline
Concen: 10.033 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:138 Resp: 50381

Ion	Ratio	Lower	Upper
138	100		
92	50.8	29.4	69.4
108	71.3	53.7	93.7



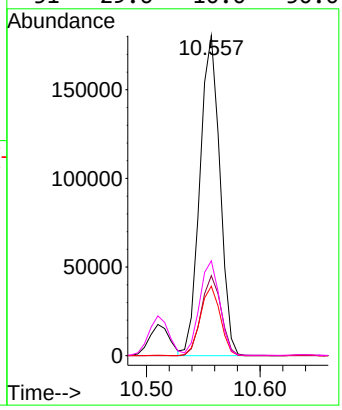


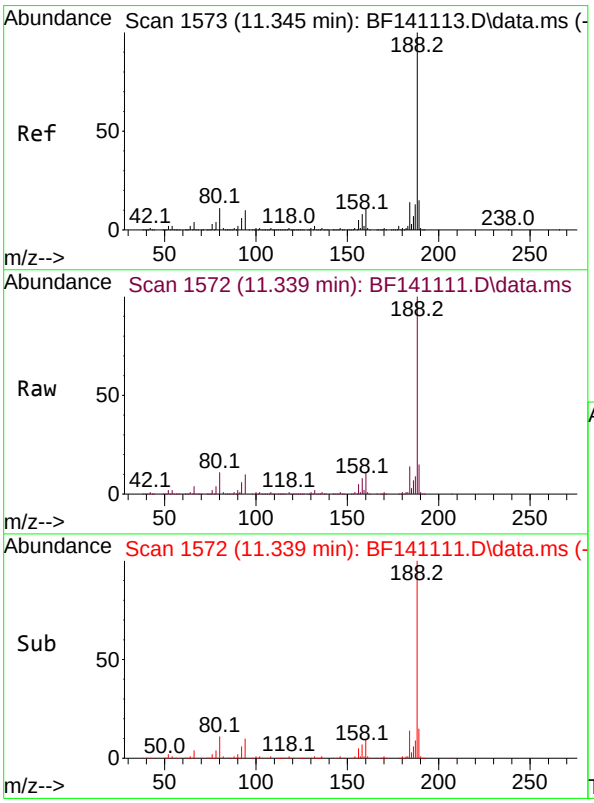
#63
Azobenzene
Concen: 10.536 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 220351

Ion	Ratio	Lower	Upper
77	100		
182	25.0	6.1	46.1
105	21.7	2.1	42.1
51	29.6	10.0	50.0

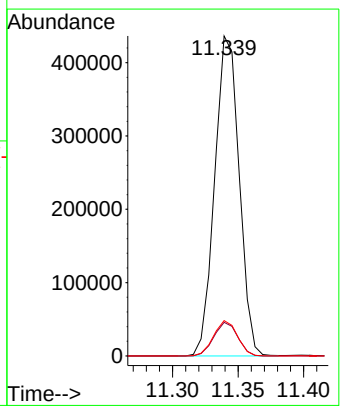


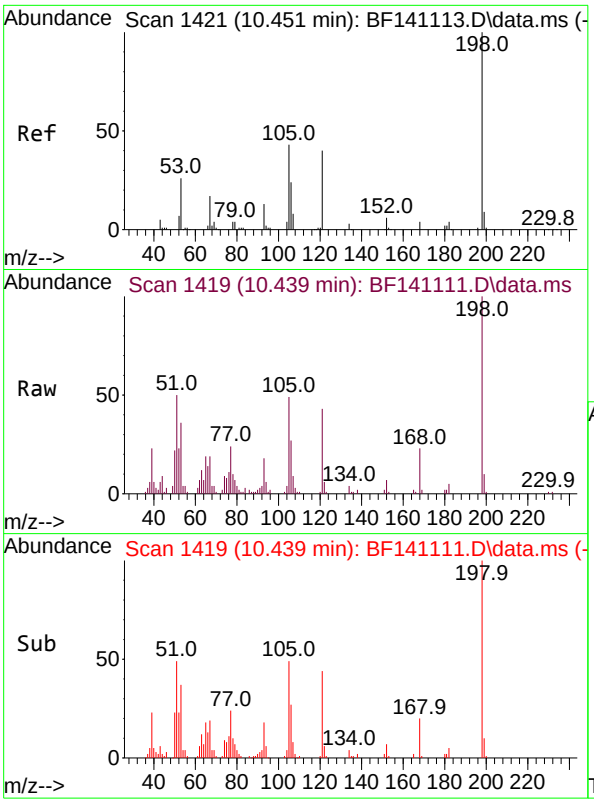


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:188 Resp: 565570

Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.3	12.5
80	11.1	9.0	13.4



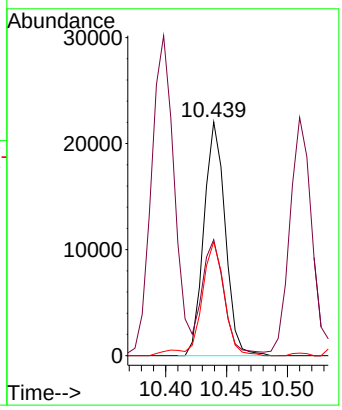


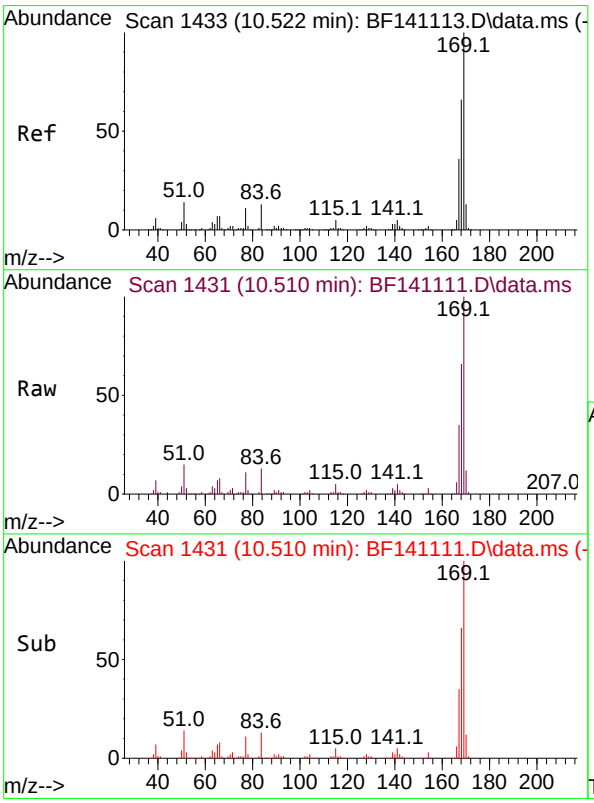
#65
4,6-Dinitro-2-methylphenol
Concen: 8.177 ng
RT: 10.439 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 26799

Ion	Ratio	Lower	Upper
198	100		
51	49.6	27.1	67.1
105	48.7	24.2	64.2

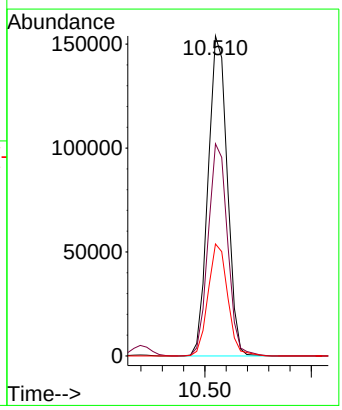


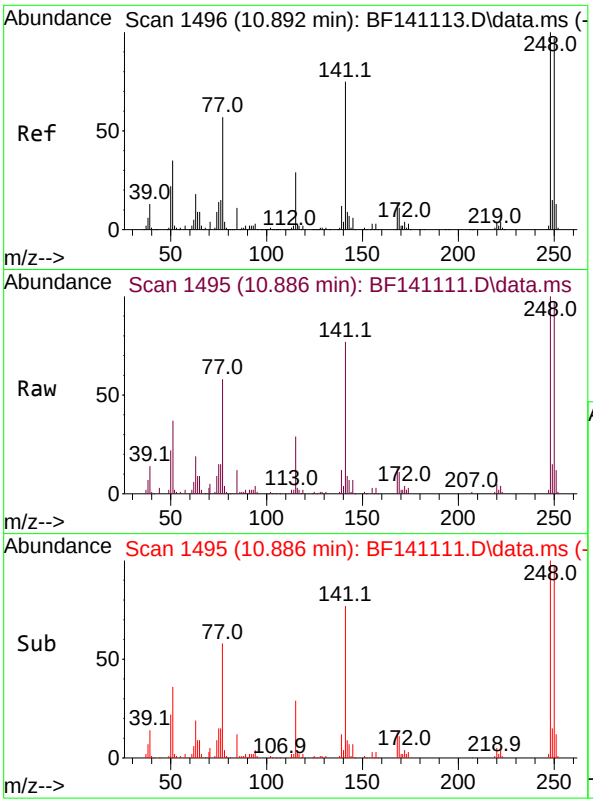


#66
n-Nitrosodiphenylamine
Concen: 10.494 ng
RT: 10.510 min Scan# 1431
Delta R.T. -0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:169 Resp: 191433

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.5	78.7
167	35.0	28.9	43.3



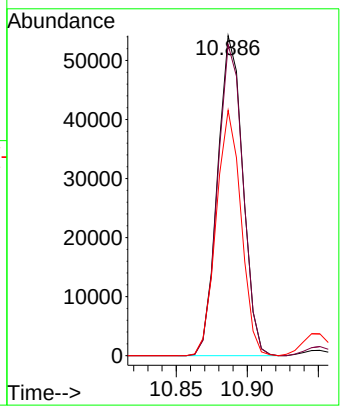


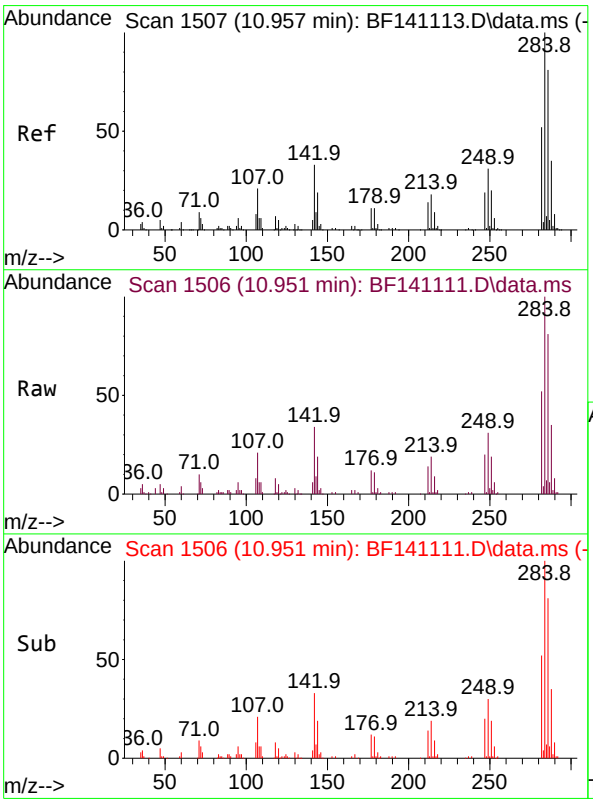
#67
4-Bromophenyl-phenylether
Concen: 10.293 ng
RT: 10.886 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 67025

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.9	116.9
141	76.6	59.9	89.9

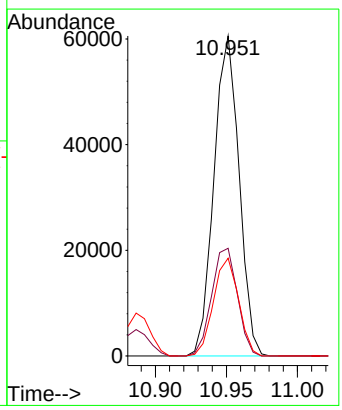


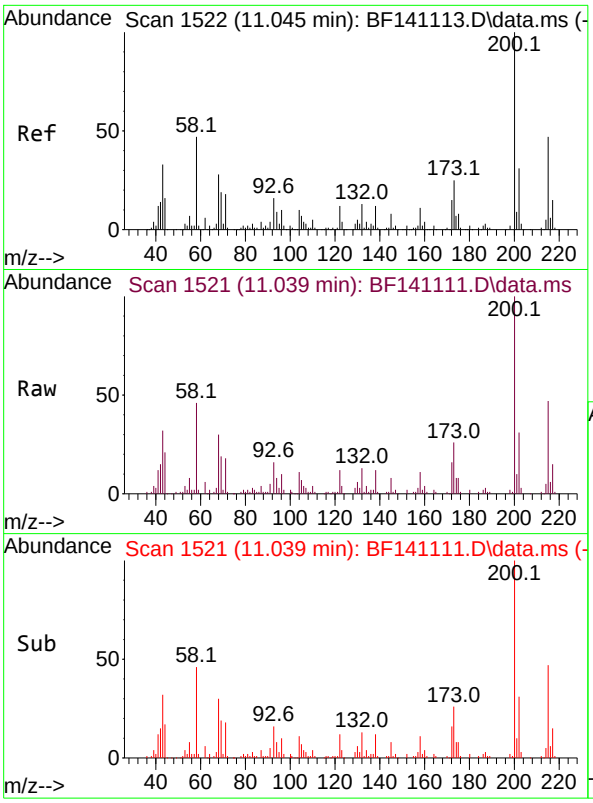


#68
Hexachlorobenzene
Concen: 10.271 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:284 Resp: 74450

Ion	Ratio	Lower	Upper
284	100		
142	33.7	26.3	39.5
249	30.6	24.9	37.3



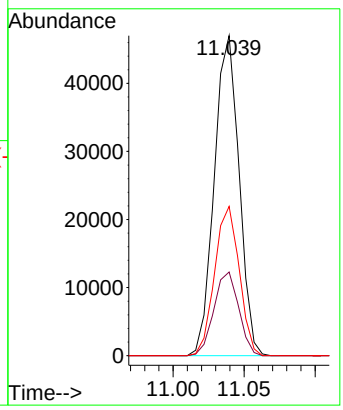


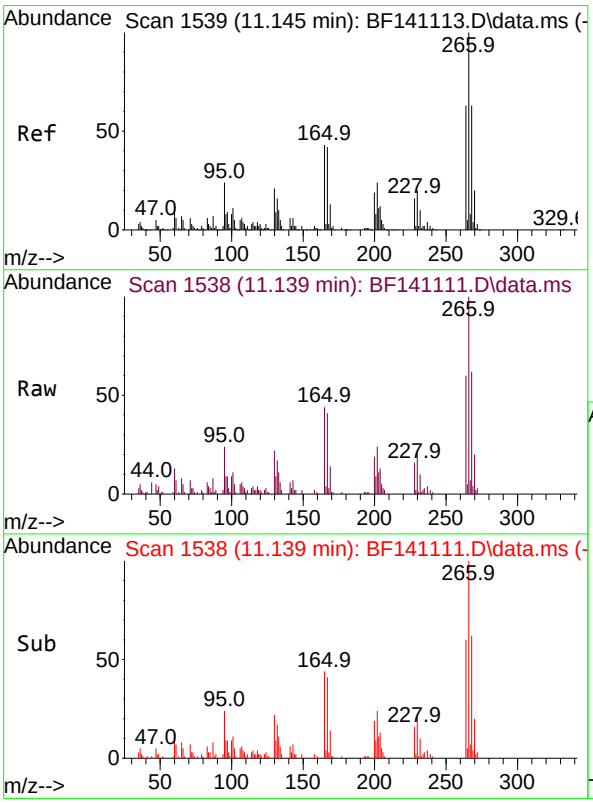
#69
Atrazine
Concen: 11.597 ng
RT: 11.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 56963

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.4	45.4
215	46.7	26.6	66.6

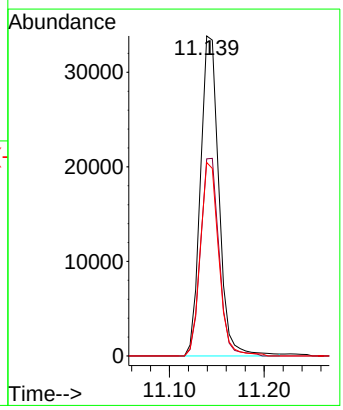


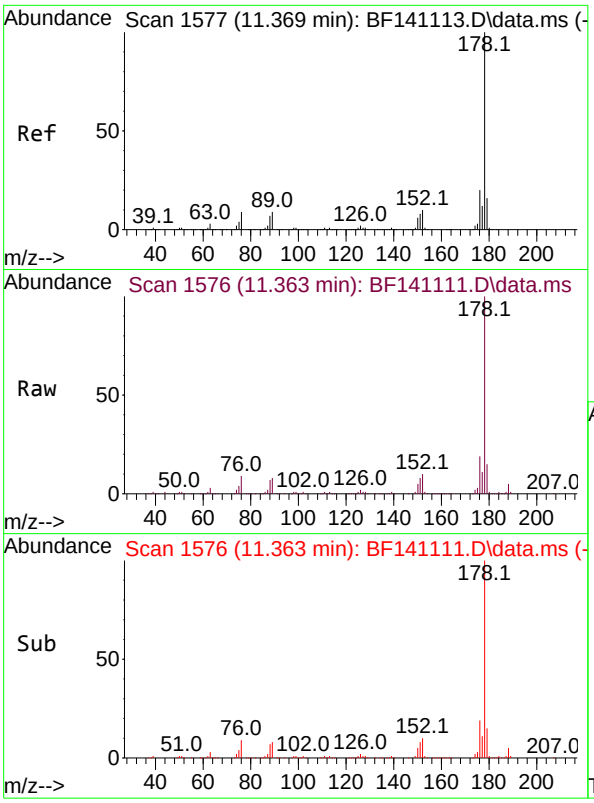


#70
Pentachlorophenol
Concen: 9.877 ng
RT: 11.139 min Scan# 1538
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:266 Resp: 45847

Ion	Ratio	Lower	Upper
266	100		
268	61.6	50.4	75.6
264	60.4	50.2	75.2



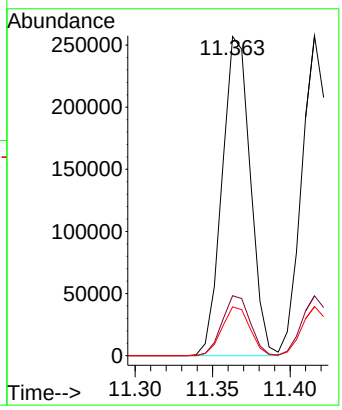


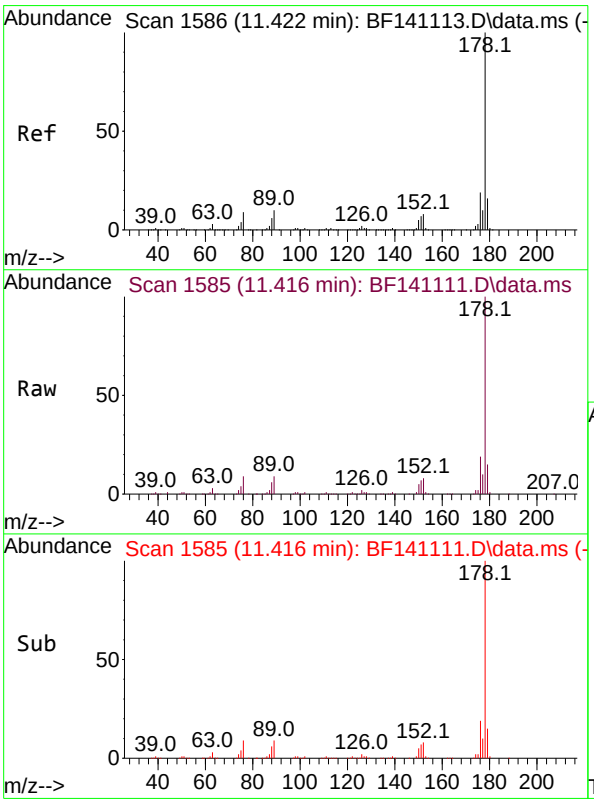
#71
Phenanthrene
Concen: 10.728 ng
RT: 11.363 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 325737

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.7	23.5
179	15.3	12.6	19.0

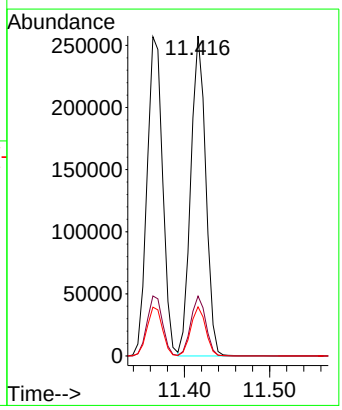


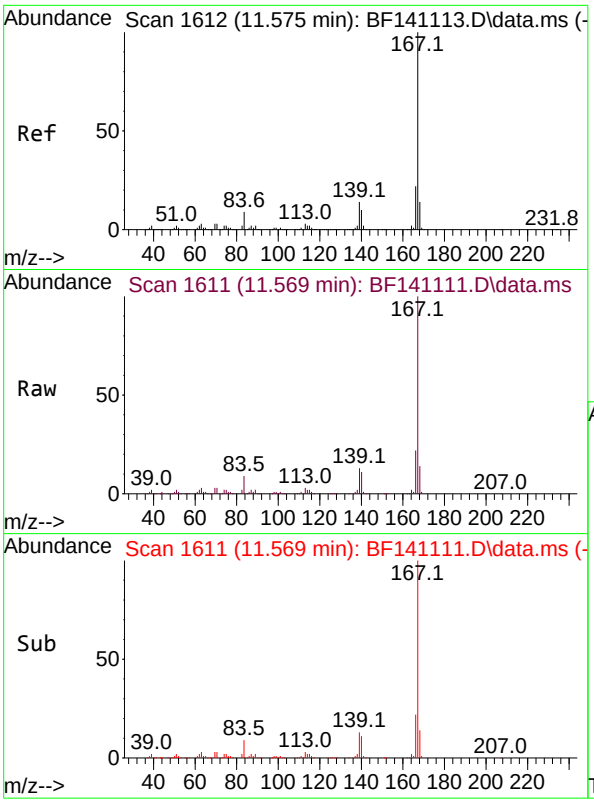


#72
Anthracene
Concen: 10.638 ng
RT: 11.416 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:178 Resp: 314077

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.3	12.6	19.0



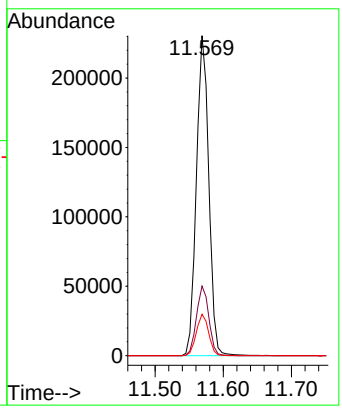


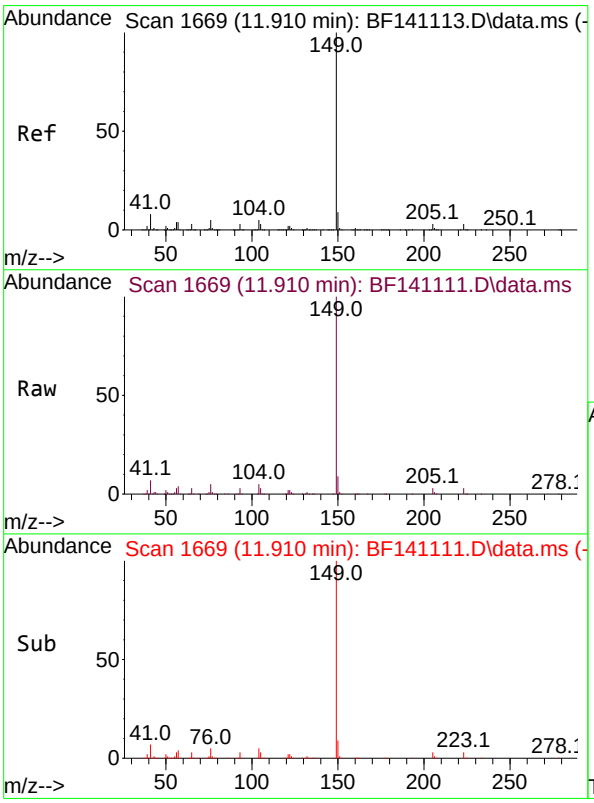
#73
Carbazole
Concen: 10.710 ng
RT: 11.569 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 289945

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	12.9	10.9	16.3

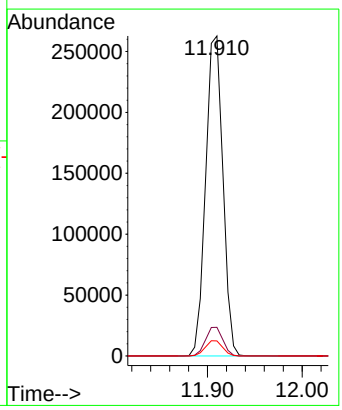


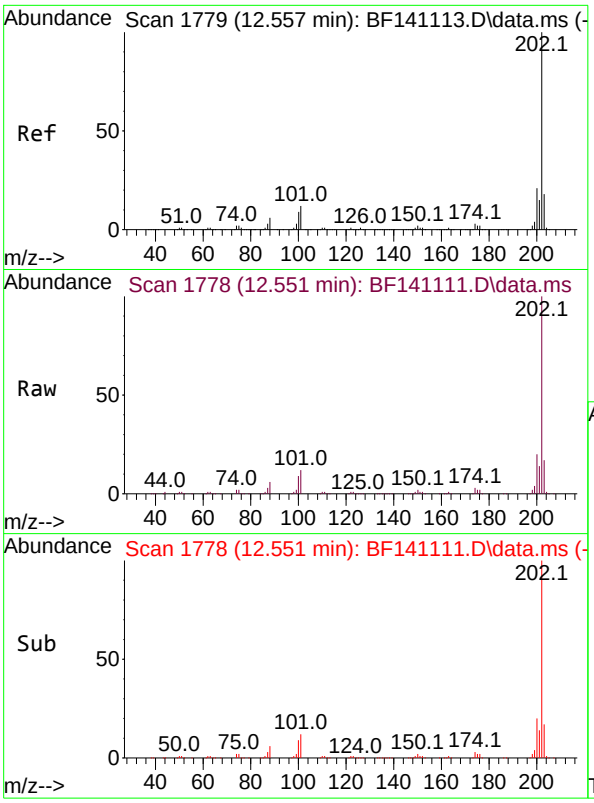


#74
Di-n-butylphthalate
Concen: 10.740 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:149 Resp: 332734

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.2
104	4.7	4.2	6.2



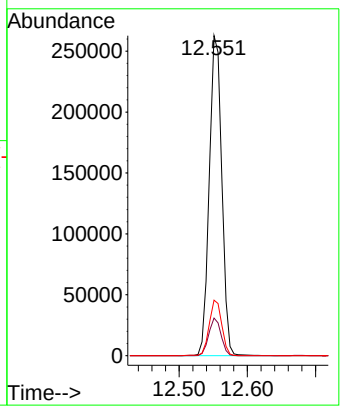


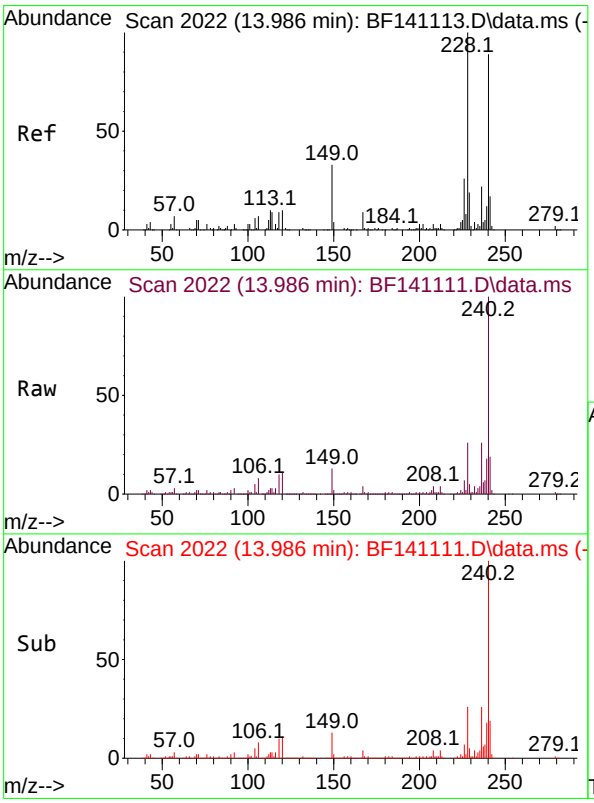
#75
Fluoranthene
Concen: 11.083 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 335808

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.3
203	17.3	0.0	37.7

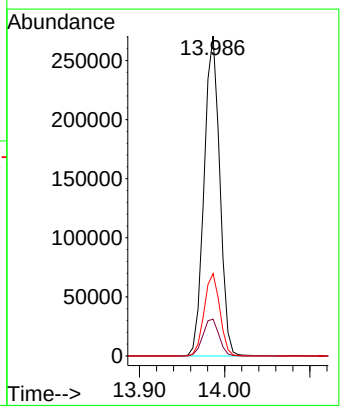


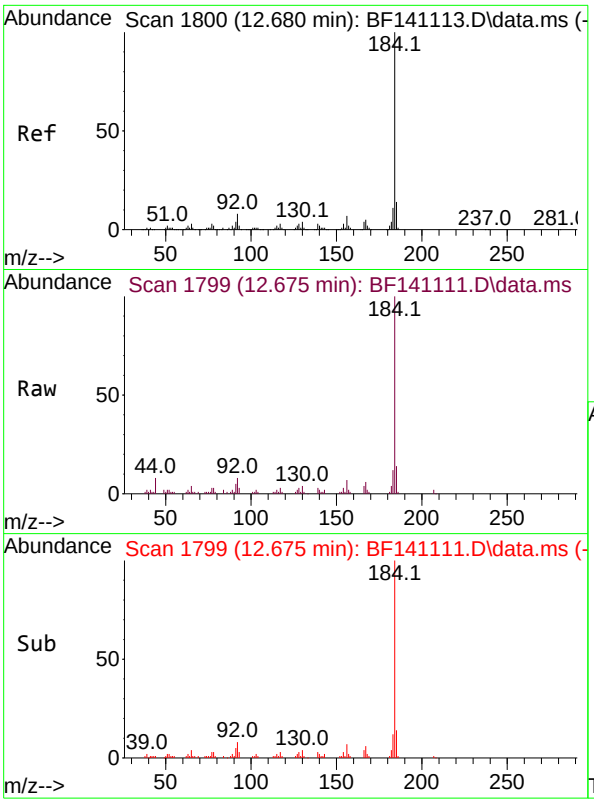


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:240 Resp: 345946

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.1	13.7
236	25.7	19.8	29.6



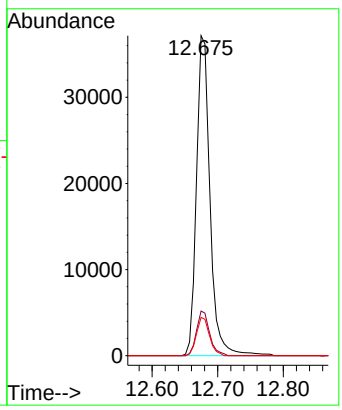


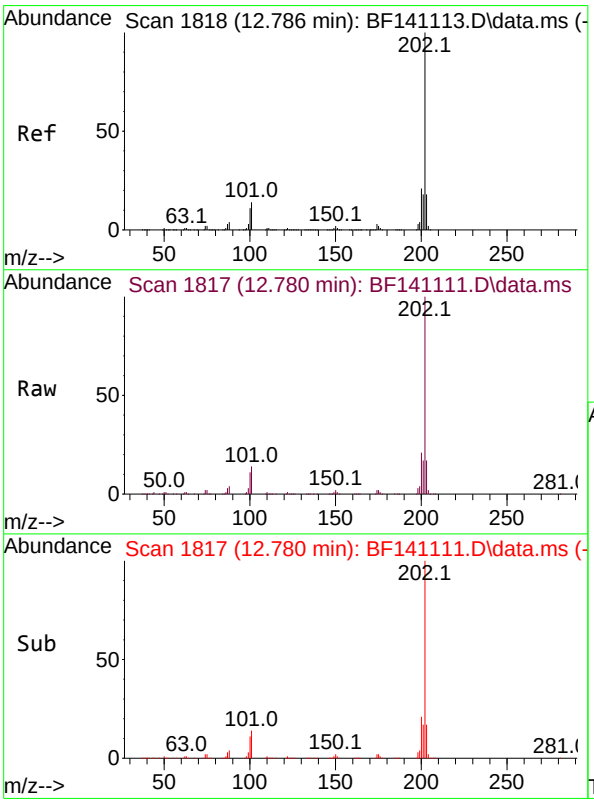
#77
Benzidine
Concen: 8.343 ng
RT: 12.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 53526

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.4	17.0
183	11.9	9.2	13.8

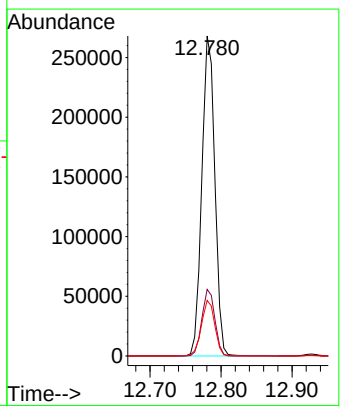


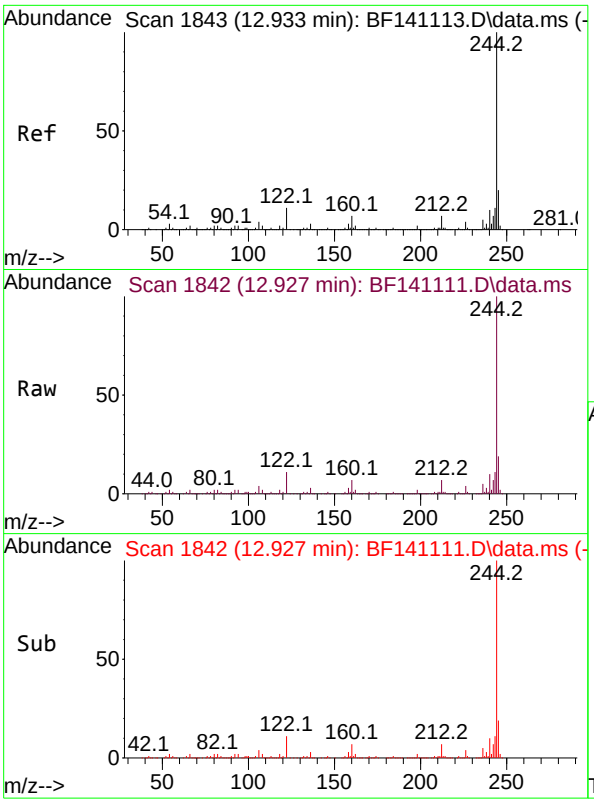


#78
Pyrene
Concen: 10.348 ng
RT: 12.780 min Scan# 1817
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:202 Resp: 341925

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	17.4	14.3	21.5



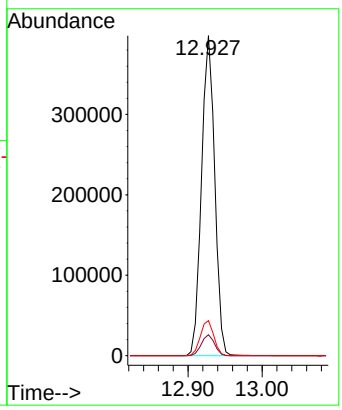


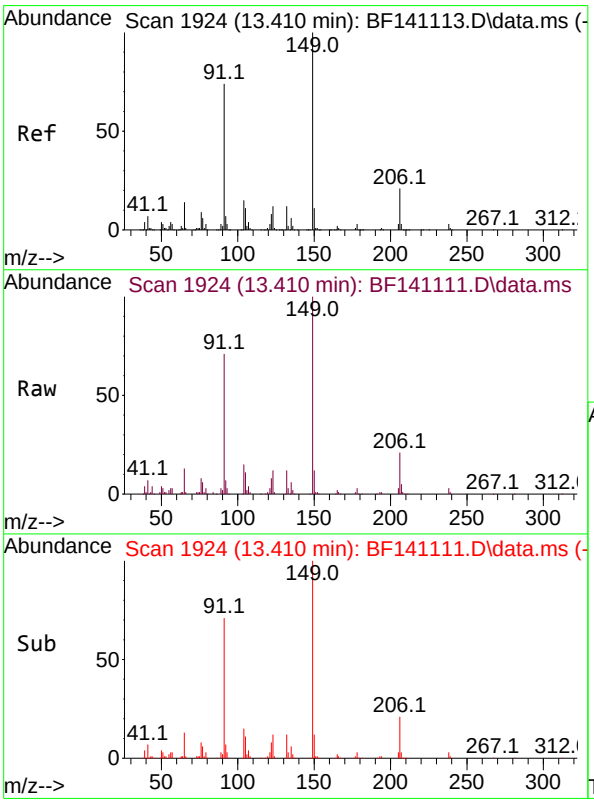
#79
Terphenyl-d14
Concen: 21.161 ng
RT: 12.927 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 492528

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.2
122	10.9	8.8	13.2

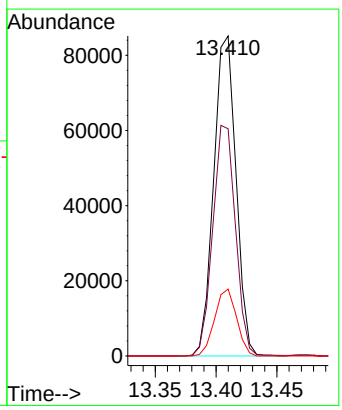


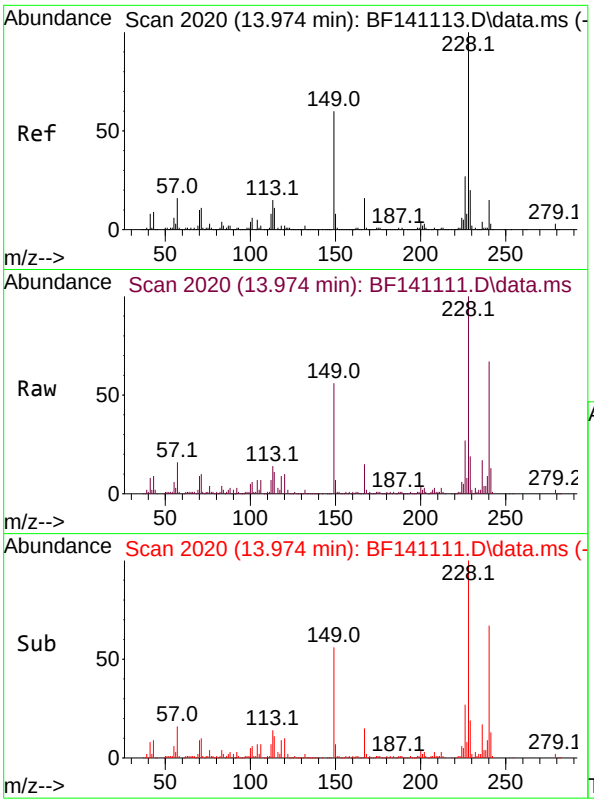


#80
Butylbenzylphthalate
Concen: 9.868 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:149 Resp: 108714

Ion	Ratio	Lower	Upper
149	100		
91	71.0	59.0	88.6
206	20.9	16.5	24.7



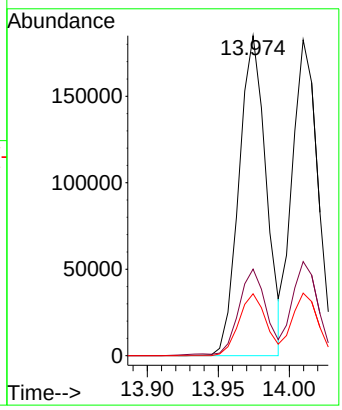


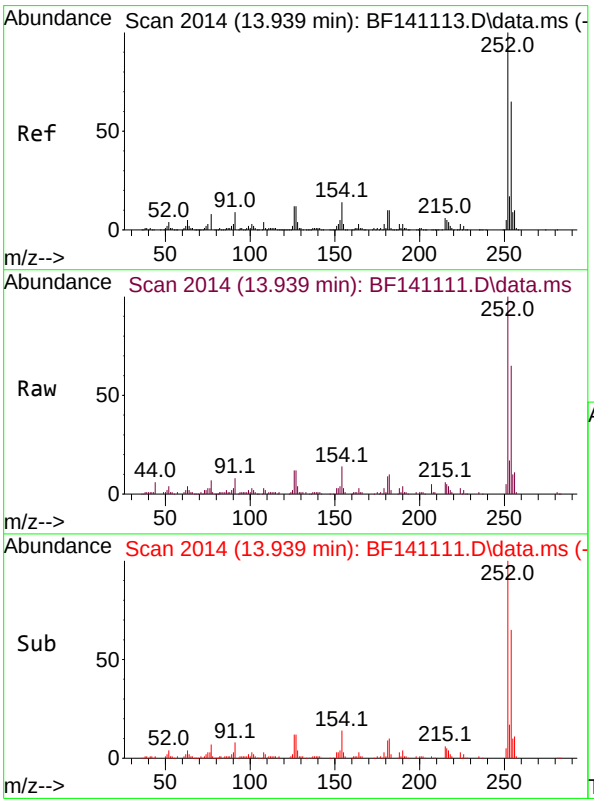
#81
Benzo(a)anthracene
Concen: 10.430 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 245554

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.4	15.7	23.5

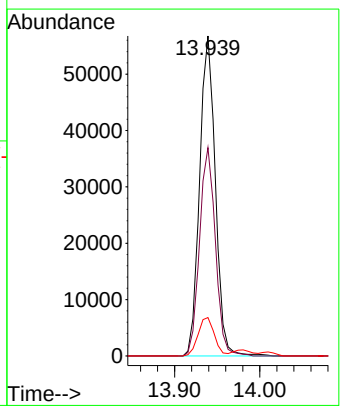


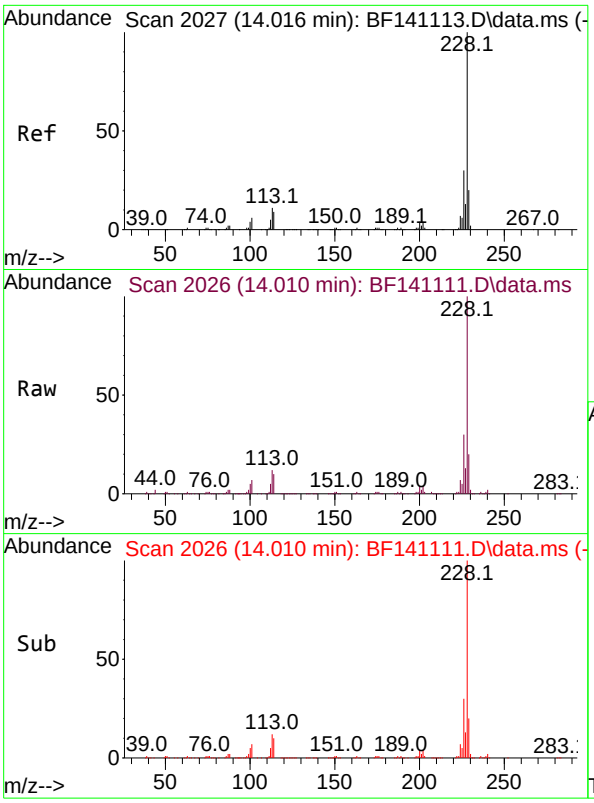


#82
3,3'-Dichlorobenzidine
Concen: 9.733 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:252 Resp: 72963

Ion	Ratio	Lower	Upper
252	100		
254	65.1	52.0	78.0
126	12.0	9.4	14.0



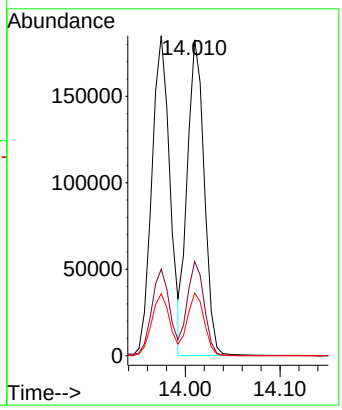


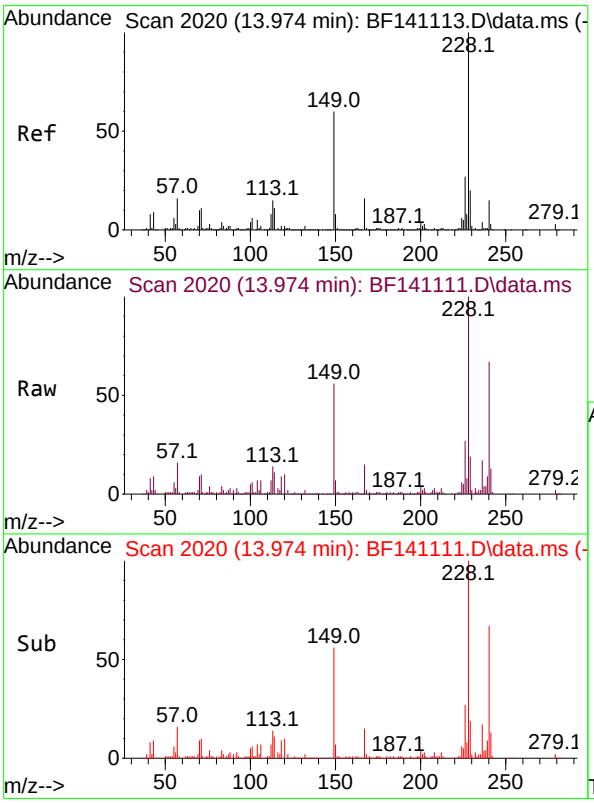
#83
Chrysene
Concen: 10.331 ng
RT: 14.010 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 227579

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	19.8	15.8	23.8

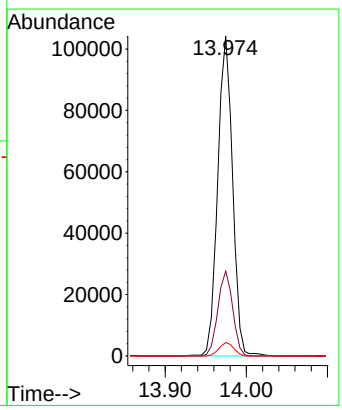


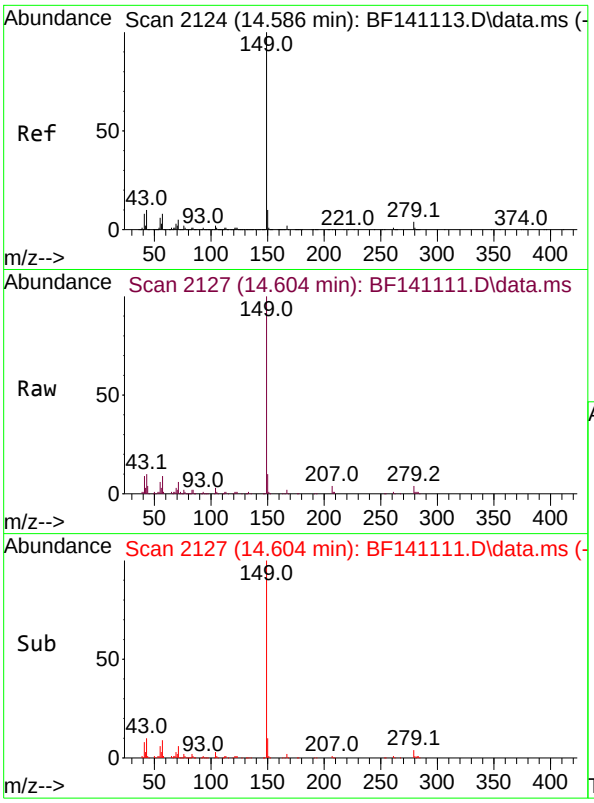


#84
Bis(2-ethylhexyl)phthalate
Concen: 10.047 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:149 Resp: 132798

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.2
279	4.2	3.4	5.2



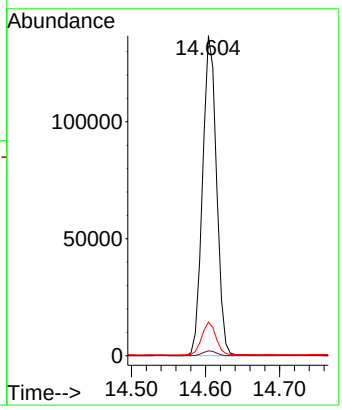


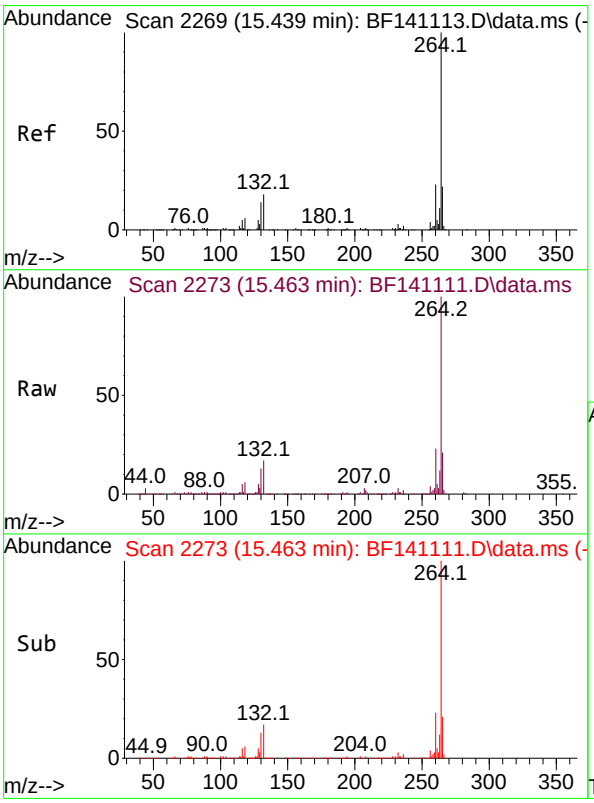
#85
Di-n-octyl phthalate
Concen: 9.007 ng
RT: 14.604 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 179782

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	10.5	8.4	12.6

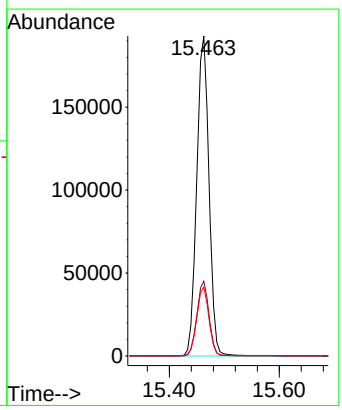


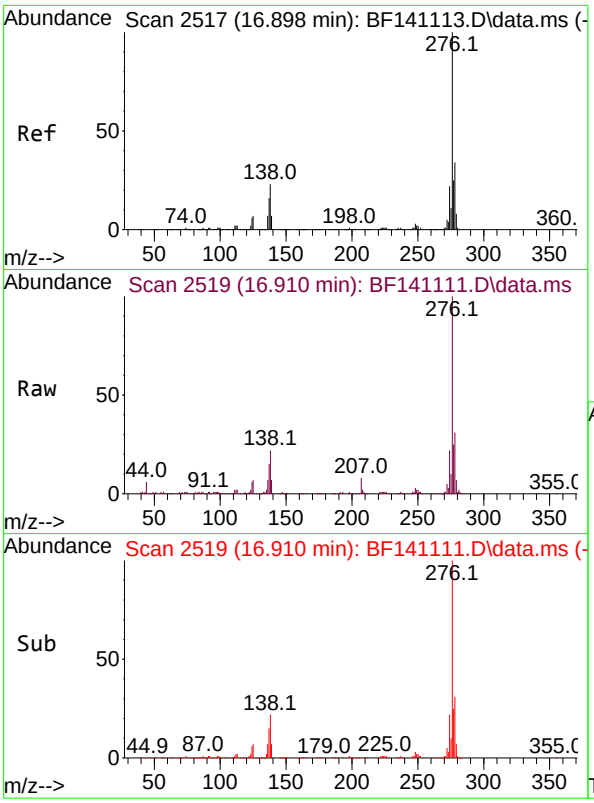


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2273
Delta R.T. 0.024 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:264 Resp: 298779

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.4	17.4	26.0



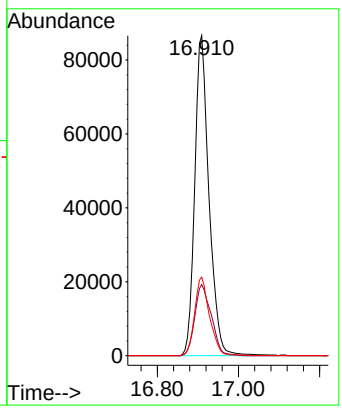


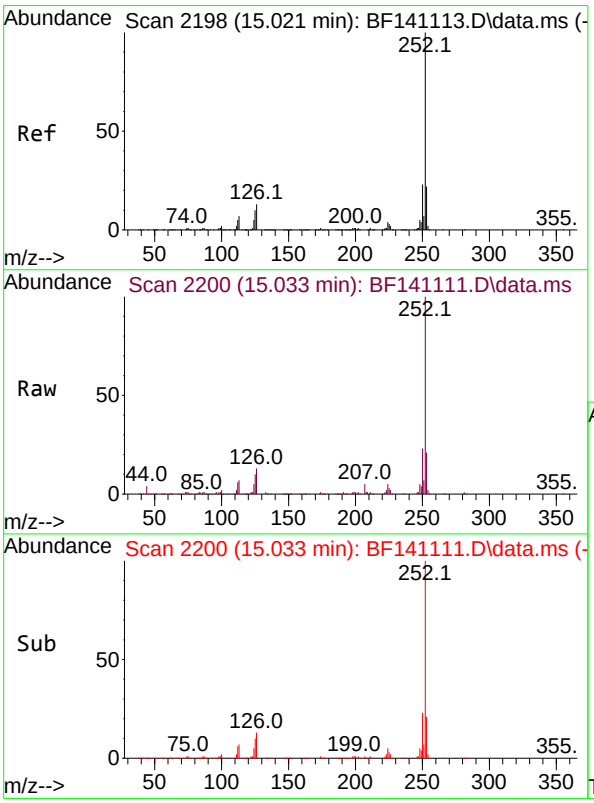
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.689 ng
RT: 16.910 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 212077

Ion	Ratio	Lower	Upper
276	100		
138	25.7	20.7	31.1
277	25.6	20.6	30.8

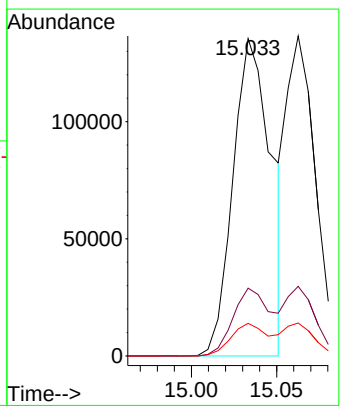


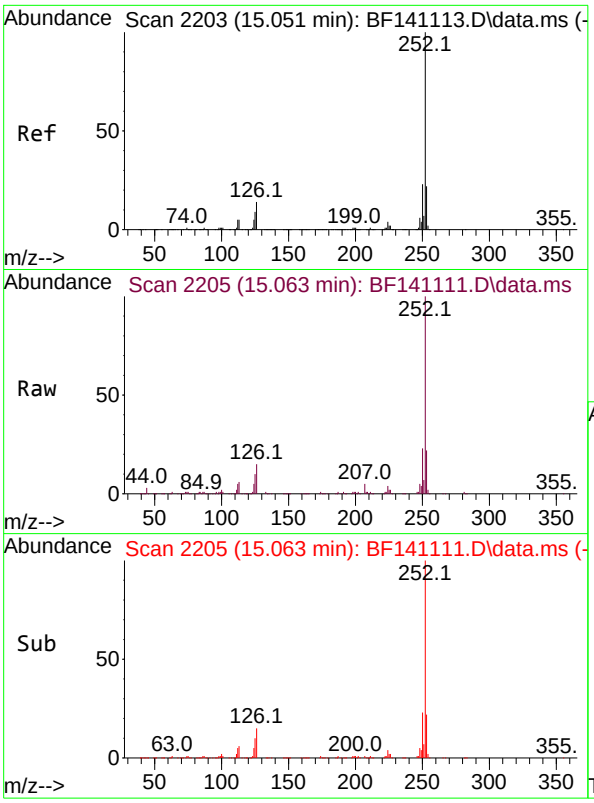


#88
Benzo(b)fluoranthene
Concen: 10.973 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:252 Resp: 211401

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.8	26.6
125	10.3	8.1	12.1



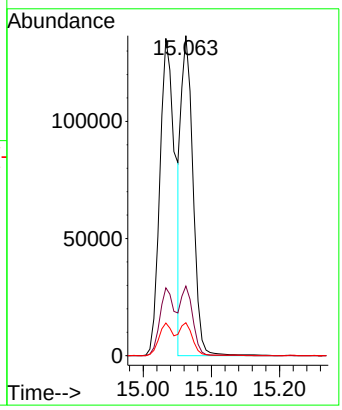


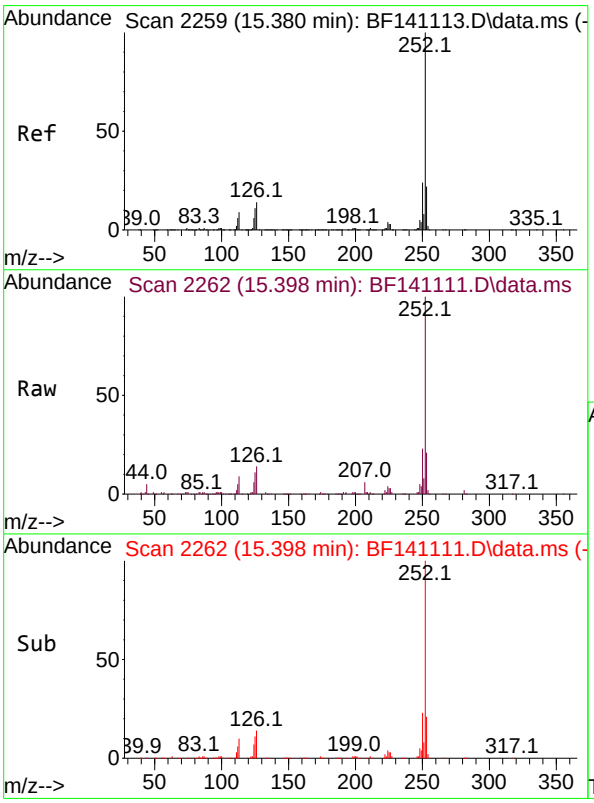
#89
Benzo(k)fluoranthene
Concen: 10.115 ng
RT: 15.063 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 164685

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.8
125	10.3	7.9	11.9

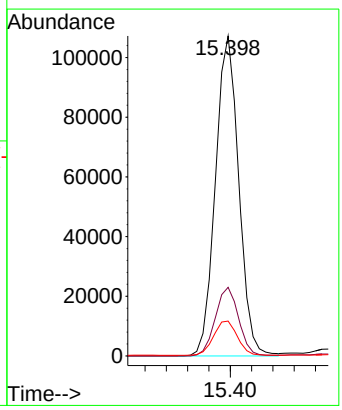


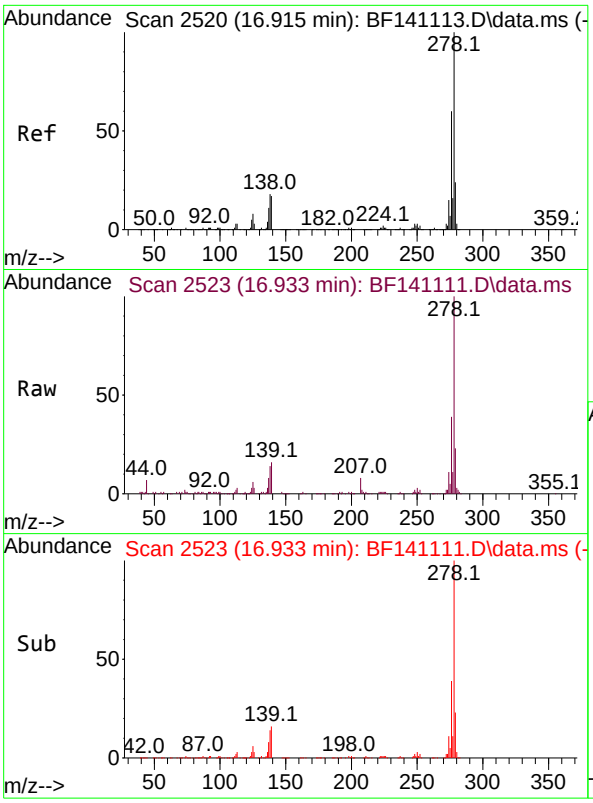


#90
Benzo(a)pyrene
Concen: 10.245 ng
RT: 15.398 min Scan# 2262
Delta R.T. 0.018 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:252 Resp: 162844

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	10.9	9.1	13.7



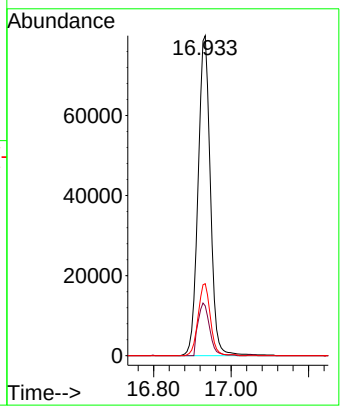


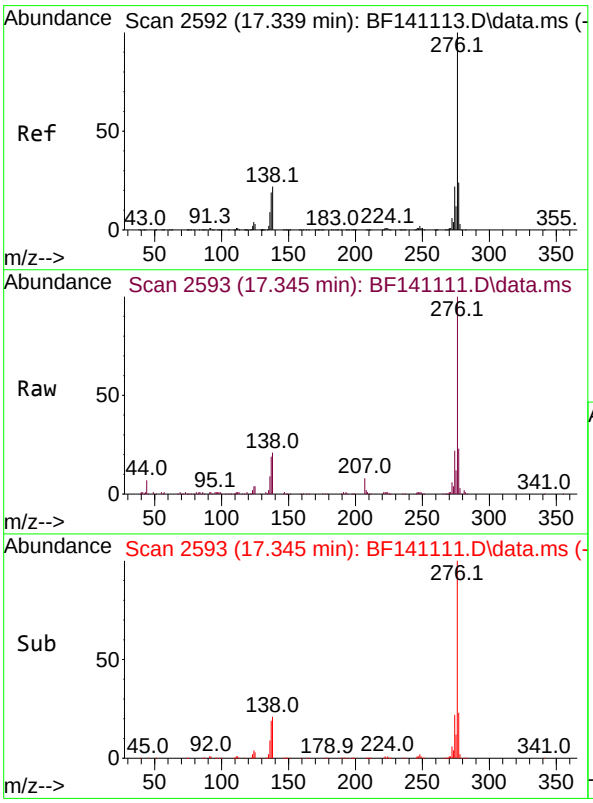
#91
Dibenzo(a,h)anthracene
Concen: 9.941 ng
RT: 16.933 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 176005

Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.8	20.6
279	22.5	19.1	28.7

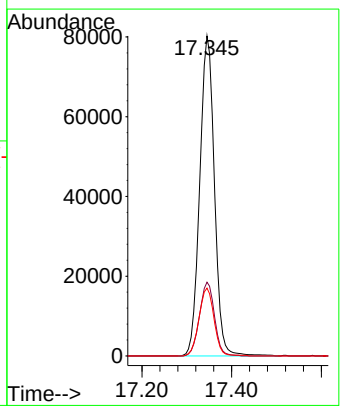




#92
Benzo(g,h,i)perylene
Concen: 9.905 ng
RT: 17.345 min Scan# 2593
Delta R.T. 0.006 min
Lab File: BF141111.D
Acq: 10 Jan 2025 13:17

Tgt Ion:276 Resp: 182406

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.0	28.4
138	21.2	17.4	26.2



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141112.D
Acq On : 10 Jan 2025 14:10
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jan 10 22:19:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	165025	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	641610	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	342827	20.000	ng	0.00
64) Phenanthrene-d10	11.345	188	590333	20.000	ng	0.00
76) Chrysene-d12	13.986	240	312856	20.000	ng	0.00
86) Perylene-d12	15.451	264	318548	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	454711	42.566	ng	0.00
7) Phenol-d6	6.440	99	572898	42.337	ng	0.00
23) Nitrobenzene-d5	7.381	82	505718	41.781	ng	0.00
42) 2,4,6-Tribromophenol	10.645	330	161318	41.297	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	965569	43.009	ng	0.00
79) Terphenyl-d14	12.933	244	927987	44.086	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.534	88	98707	20.749	ng	99
3) Pyridine	3.275	79	245303	21.028	ng	99
4) n-Nitrosodimethylamine	3.210	42	117019	20.515	ng	97
6) Aniline	6.481	93	257655	21.446	ng	100
8) 2-Chlorophenol	6.604	128	240612	20.994	ng	97
9) Benzaldehyde	6.369	77	171668	22.710	ng	97
10) Phenol	6.451	94	307174	21.206	ng	99
11) bis(2-Chloroethyl)ether	6.551	93	224939	20.837	ng	99
12) 1,3-Dichlorobenzene	6.763	146	271956	21.275	ng	98
13) 1,4-Dichlorobenzene	6.840	146	275255	21.369	ng	99
14) 1,2-Dichlorobenzene	6.993	146	259444	21.592	ng	96
15) Benzyl Alcohol	6.957	79	205325	21.011	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.098	45	319998	21.243	ng	99
17) 2-Methylphenol	7.063	107	195053	21.080	ng	98
18) Hexachloroethane	7.334	117	98162	21.073	ng	98
19) n-Nitroso-di-n-propyla...	7.228	70	166563	20.896	ng	99
20) 3+4-Methylphenols	7.216	107	252067	21.593	ng	98
22) Acetophenone	7.228	105	325163	21.318	ng	99
24) Nitrobenzene	7.398	77	263687	20.903	ng	100
25) Isophorone	7.640	82	432580	20.913	ng	99
26) 2-Nitrophenol	7.716	139	121643	21.198	ng	99
27) 2,4-Dimethylphenol	7.751	122	160116	20.686	ng	98
28) bis(2-Chloroethoxy)met...	7.851	93	275641	21.233	ng	99
29) 2,4-Dichlorophenol	7.951	162	192733	20.966	ng	100
30) 1,2,4-Trichlorobenzene	8.045	180	223082	21.231	ng	99
31) Naphthalene	8.122	128	725773	21.450	ng	99
32) Benzoic acid	7.828	122	147997	19.932	ng	99
33) 4-Chloroaniline	8.169	127	247958	21.190	ng	100
34) Hexachlorobutadiene	8.245	225	133140	21.028	ng	99
35) Caprolactam	8.516	113	63223	20.967	ng	96
36) 4-Chloro-3-methylphenol	8.645	107	209656	20.854	ng	99
37) 2-Methylnaphthalene	8.816	142	455728	21.136	ng	100
38) 1-Methylnaphthalene	8.916	142	455467	21.434	ng	100
40) 1,2,4,5-Tetrachloroben...	8.981	216	207159	21.053	ng	99
41) Hexachlorocyclopentadiene	8.969	237	68830	21.381	ng	99
43) 2,4,6-Trichlorophenol	9.092	196	141110	21.263	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141112.D
Acq On : 10 Jan 2025 14:10
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jan 10 22:19:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

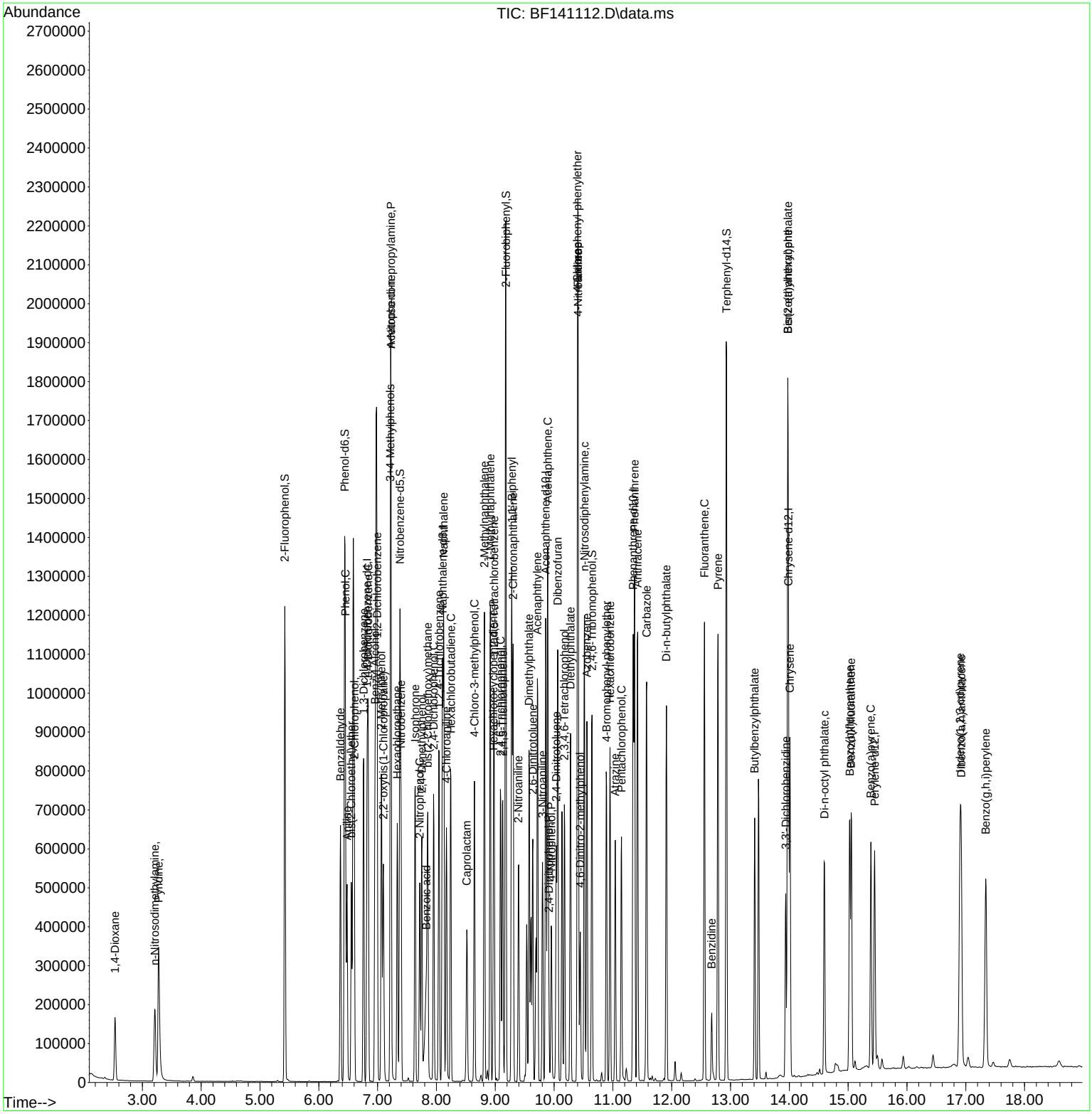
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.128	196	143420	20.463	ng		98
46) 1,1'-Biphenyl	9.281	154	566930	21.294	ng		99
47) 2-Chloronaphthalene	9.304	162	436413	21.045	ng		99
48) 2-Nitroaniline	9.392	65	125270	20.379	ng		96
49) Acenaphthylene	9.716	152	627543	21.182	ng		99
50) Dimethylphthalate	9.575	163	481191	20.907	ng		100
51) 2,6-Dinitrotoluene	9.639	165	112600	21.038	ng		99
52) Acenaphthene	9.892	154	436615	21.094	ng		99
53) 3-Nitroaniline	9.804	138	114181	20.994	ng		98
54) 2,4-Dinitrophenol	9.910	184	45746	17.982	ng	#	72
55) Dibenzofuran	10.063	168	595943	21.167	ng		99
56) 4-Nitrophenol	9.951	139	87361	20.509	ng		96
57) 2,4-Dinitrotoluene	10.039	165	145002	21.023	ng		98
58) Fluorene	10.404	166	465998	21.305	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.175	232	121311	20.823	ng		99
60) Diethylphthalate	10.281	149	472480	21.028	ng		99
61) 4-Chlorophenyl-phenyle...	10.398	204	227252	21.317	ng		99
62) 4-Nitroaniline	10.410	138	108089	20.305	ng		98
63) Azobenzene	10.557	77	463688	20.915	ng		98
65) 4,6-Dinitro-2-methylph...	10.445	198	70598	20.638	ng		99
66) n-Nitrosodiphenylamine	10.516	169	403436	21.188	ng		100
67) 4-Bromophenyl-phenylether	10.892	248	140672	20.698	ng		98
68) Hexachlorobenzene	10.951	284	156770	20.721	ng		99
69) Atrazine	11.039	200	100524	19.607	ng		100
70) Pentachlorophenol	11.145	266	100960	20.837	ng		98
71) Phenanthrene	11.369	178	662092	20.891	ng		99
72) Anthracene	11.422	178	646616	20.983	ng		100
73) Carbazole	11.575	167	597025	21.128	ng		99
74) Di-n-butylphthalate	11.910	149	672525	20.797	ng		100
75) Fluoranthene	12.557	202	651977	20.615	ng		99
77) Benzidine	12.680	184	96892	16.701	ng		100
78) Pyrene	12.786	202	651047	21.787	ng		99
80) Butylbenzylphthalate	13.410	149	207563	20.834	ng		98
81) Benzo(a)anthracene	13.974	228	446504	20.971	ng		100
82) 3,3'-Dichlorobenzidine	13.939	252	139050	20.510	ng		100
83) Chrysene	14.010	228	417881	20.975	ng		99
84) Bis(2-ethylhexyl)phtha...	13.974	149	252397	21.114	ng		99
85) Di-n-octyl phthalate	14.598	149	365598	20.253	ng		99
87) Indeno(1,2,3-cd)pyrene	16.904	276	496449	21.272	ng		100
88) Benzo(b)fluoranthene	15.027	252	410817	20.000	ng		99
89) Benzo(k)fluoranthene	15.051	252	363482	20.939	ng		98
90) Benzo(a)pyrene	15.386	252	348882	20.586	ng		99
91) Dibenzo(a,h)anthracene	16.921	278	401882	21.291	ng		99
92) Benzo(g,h,i)perylene	17.339	276	429242	21.863	ng		100

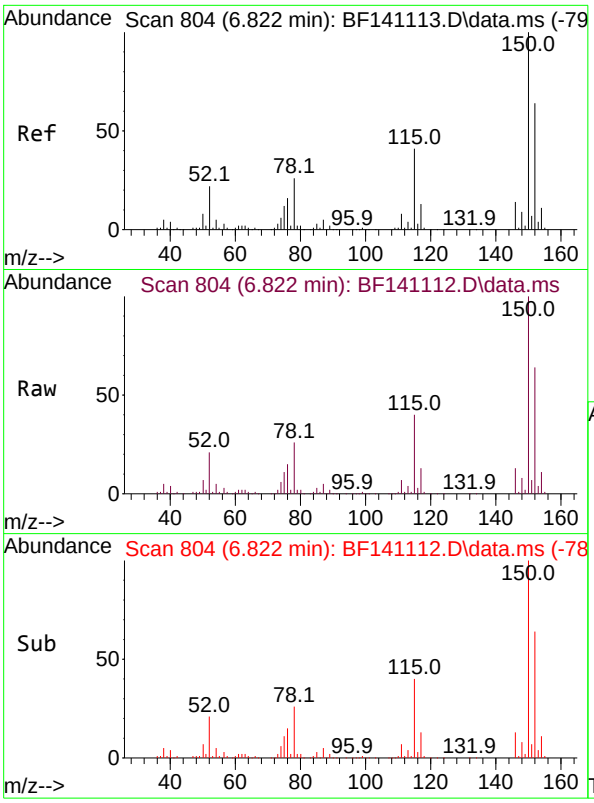
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141112.D
Acq On : 10 Jan 2025 14:10
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Jan 10 22:19:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



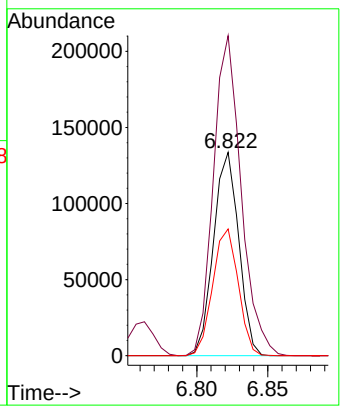


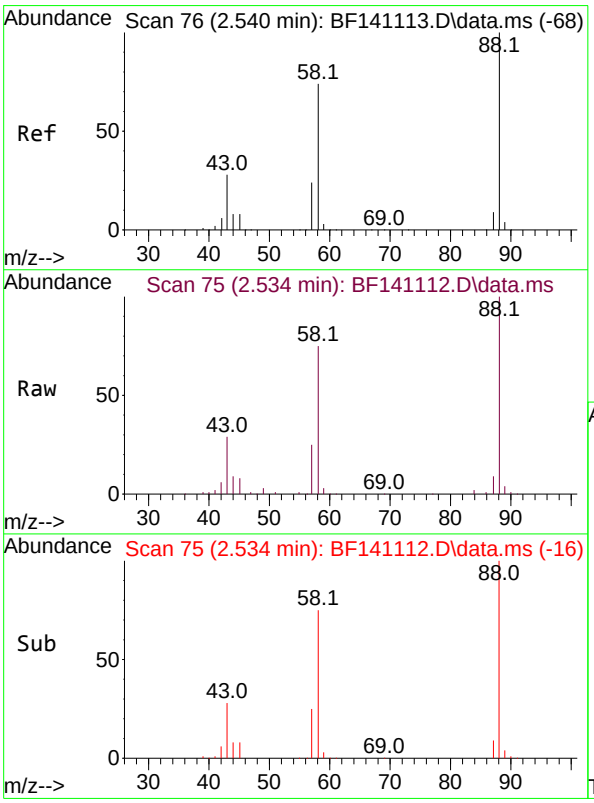
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 165025

Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.8	188.8
115	62.3	51.4	77.2

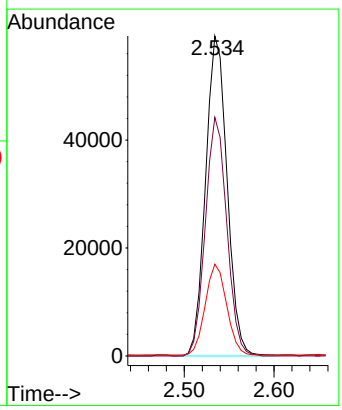


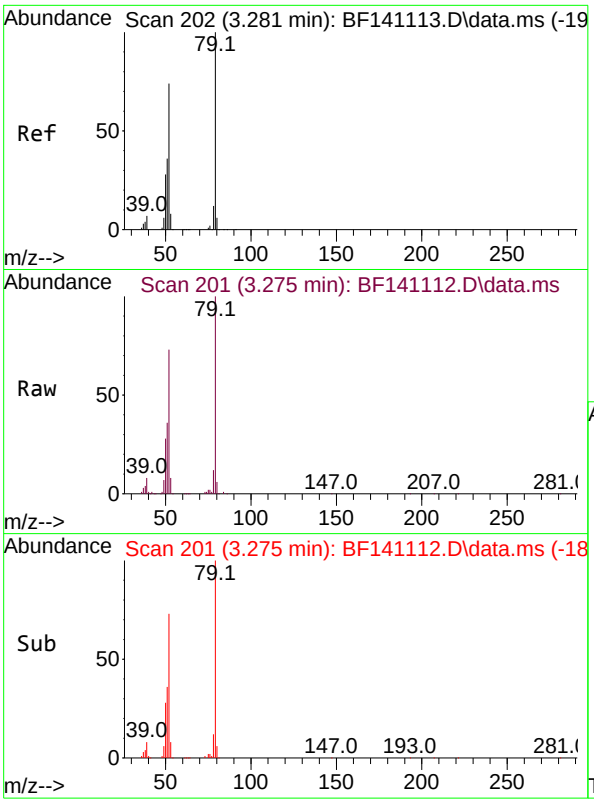


#2
1,4-Dioxane
Concen: 20.749 ng
RT: 2.534 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 88 Resp: 98707

Ion	Ratio	Lower	Upper
88	100		
58	74.2	60.1	90.1
43	28.2	23.1	34.7



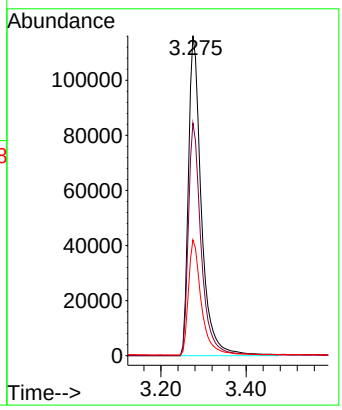


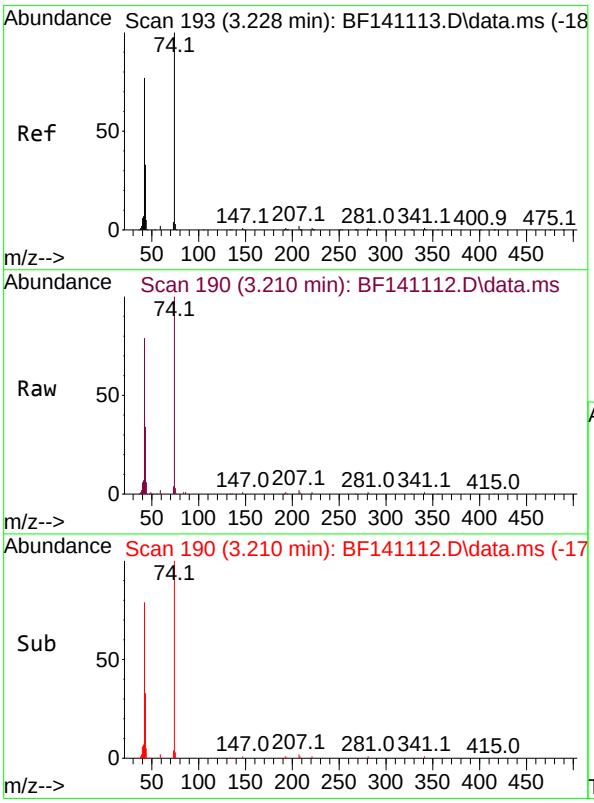
#3
Pyridine
Concen: 21.028 ng
RT: 3.275 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 245303

Ion	Ratio	Lower	Upper
79	100		
52	72.7	58.9	88.3
51	36.2	29.1	43.7

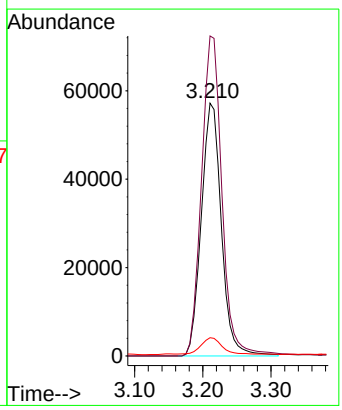


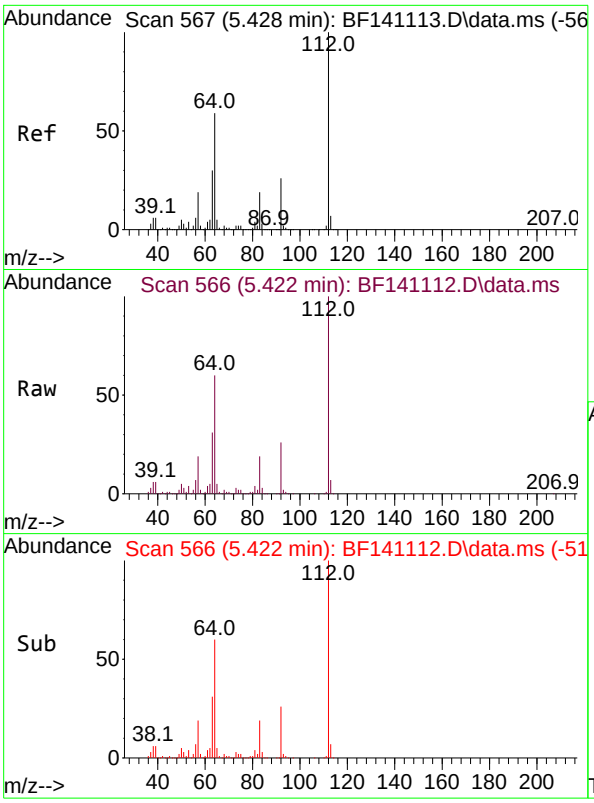


#4
n-Nitrosodimethylamine
Concen: 20.515 ng
RT: 3.210 min Scan# 190
Delta R.T. -0.018 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 42 Resp: 117019

Ion	Ratio	Lower	Upper
42	100		
74	126.6	103.8	155.6
44	7.2	5.3	7.9



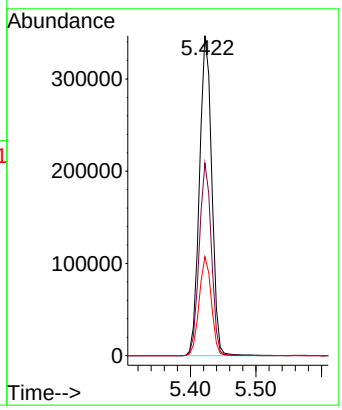


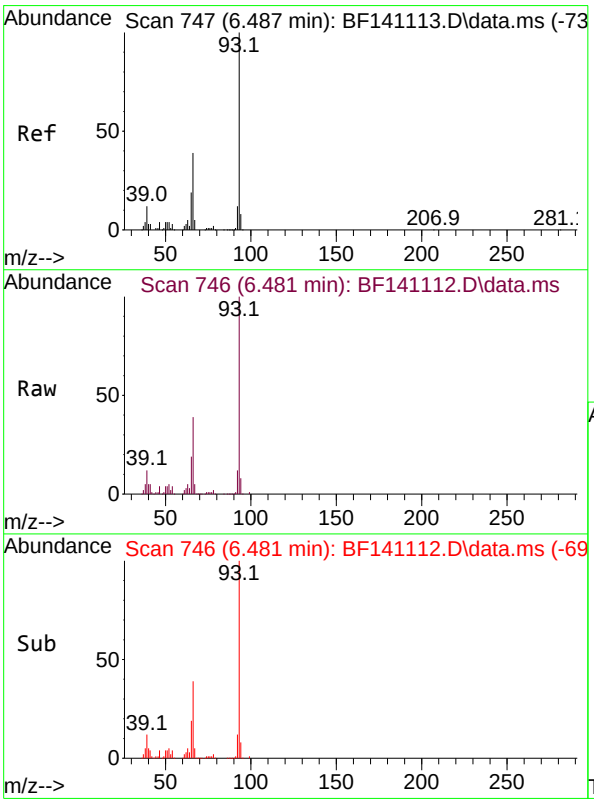
#5
2-Fluorophenol
Concen: 42.566 ng
RT: 5.422 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 454711

Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.3	70.9
63	31.0	24.2	36.2

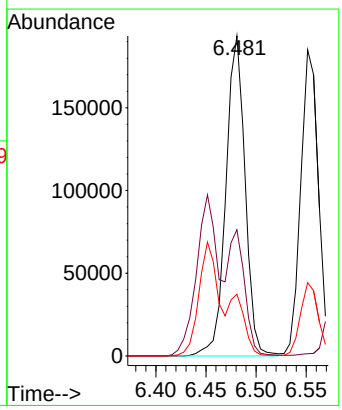


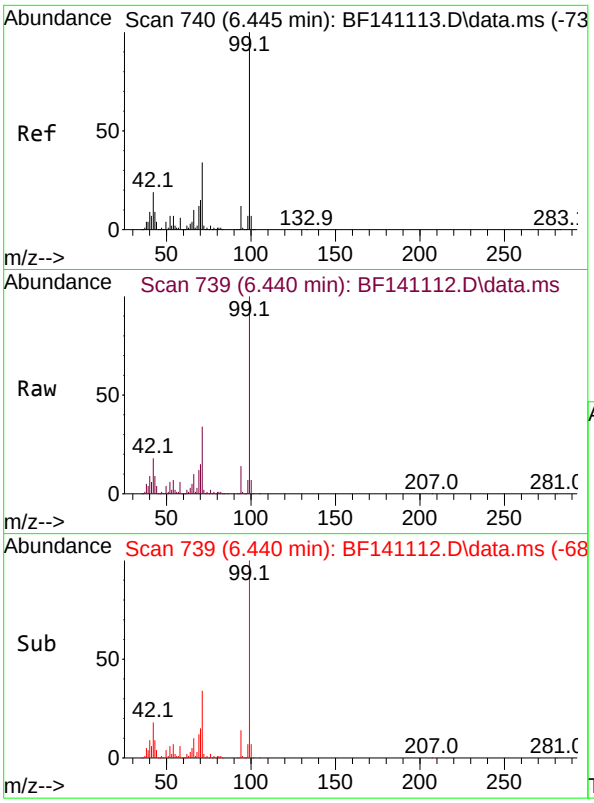


#6
Aniline
Concen: 21.446 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 93 Resp: 257655

Ion	Ratio	Lower	Upper
93	100		
66	39.5	31.5	47.3
65	19.3	15.3	22.9



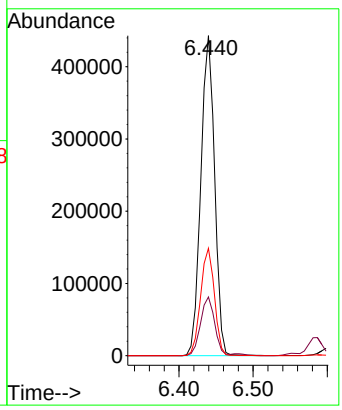


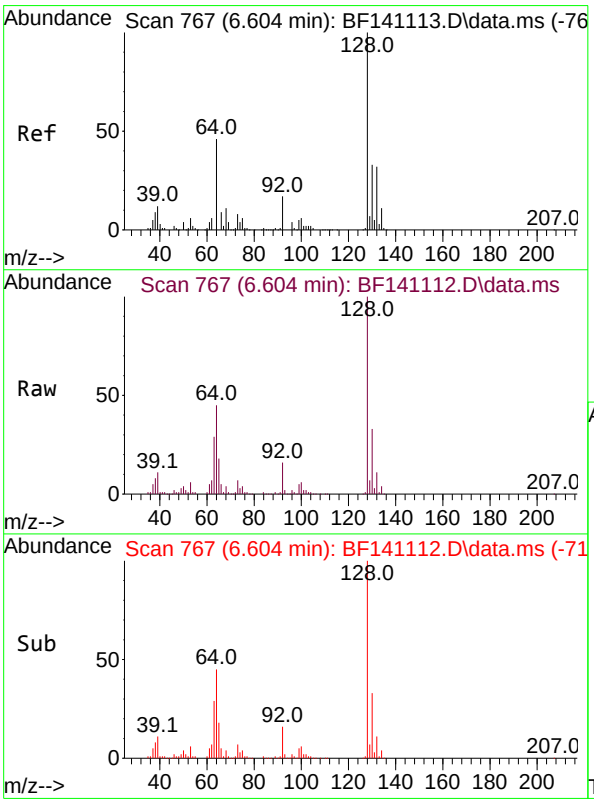
#7
Phenol-d6
Concen: 42.337 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 572898

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.0	22.4
71	33.6	27.6	41.4

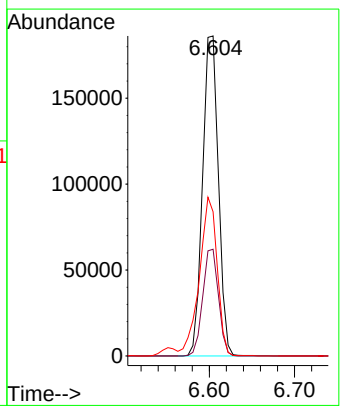


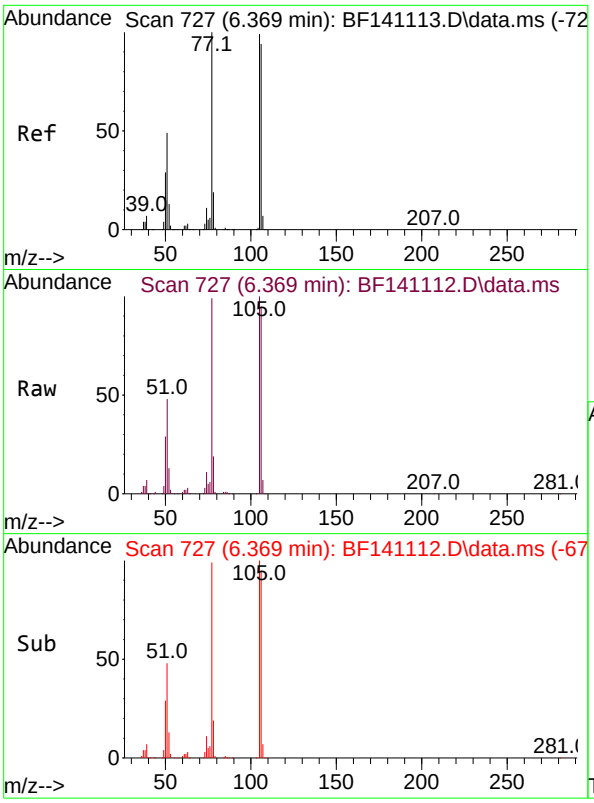


#8
2-Chlorophenol
Concen: 20.994 ng
RT: 6.604 min Scan# 767
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:128 Resp: 240612

Ion	Ratio	Lower	Upper
128	100		
130	33.3	12.5	52.5
64	45.1	28.3	68.3



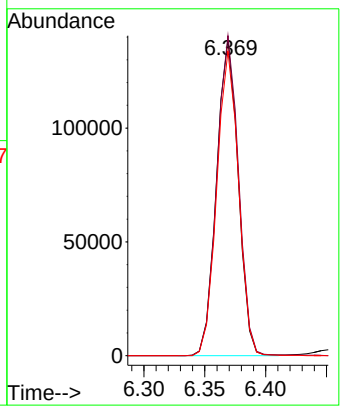


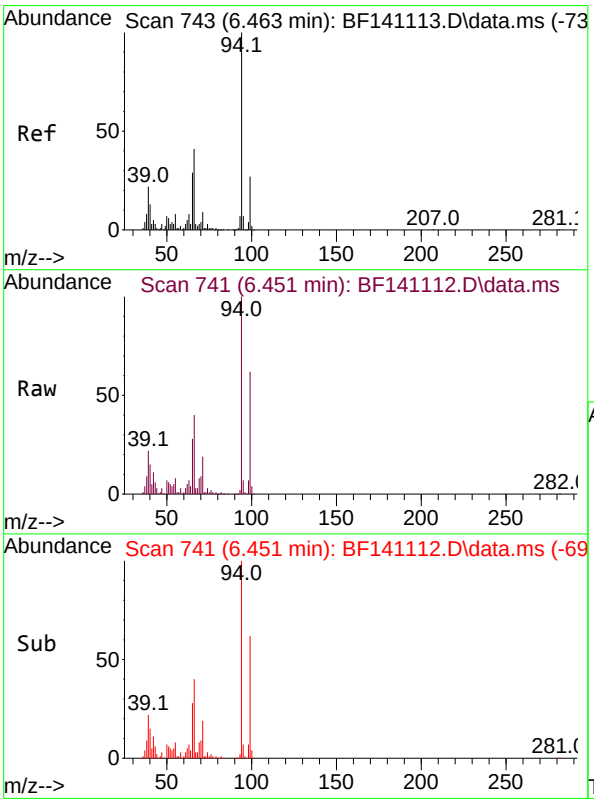
#9
Benzaldehyde
Concen: 22.710 ng
RT: 6.369 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 171668

Ion	Ratio	Lower	Upper
77	100		
105	101.3	78.9	118.9
106	96.4	73.6	113.6

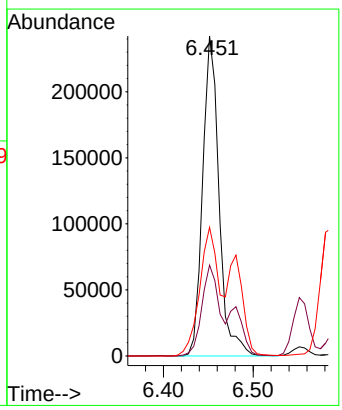


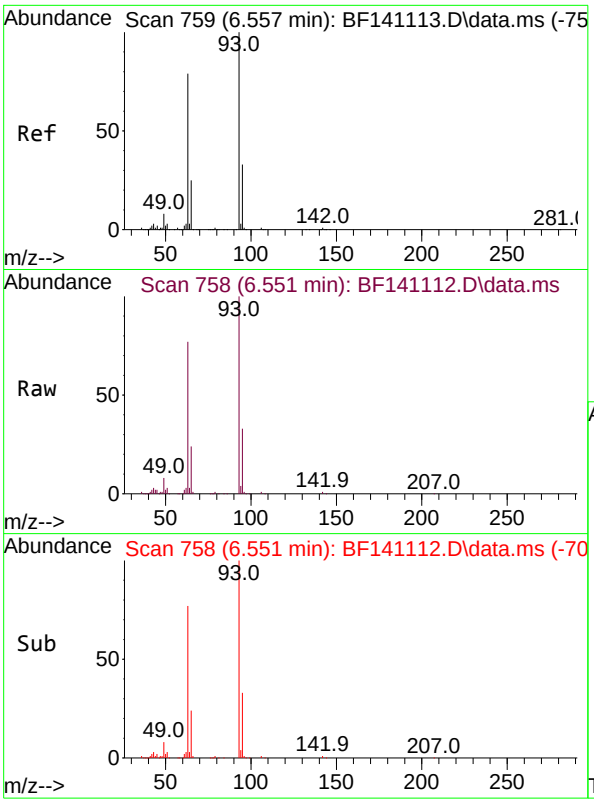


#10
Phenol
Concen: 21.206 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 94 Resp: 307174

Ion	Ratio	Lower	Upper
94	100		
65	28.4	8.9	48.9
66	40.2	21.2	61.2



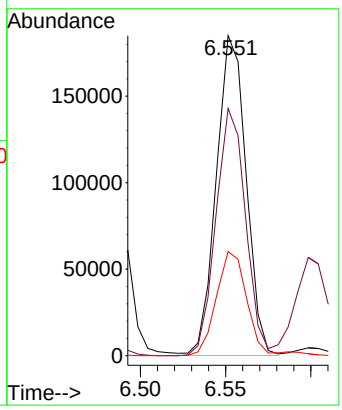


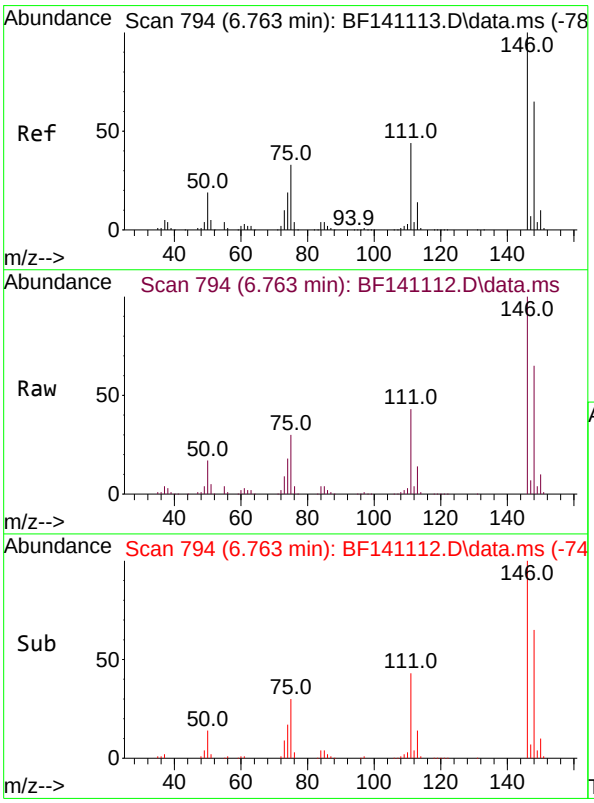
#11
bis(2-Chloroethyl)ether
Concen: 20.837 ng
RT: 6.551 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 224939

Ion	Ratio	Lower	Upper
93	100		
63	77.2	58.0	98.0
95	32.6	12.5	52.5

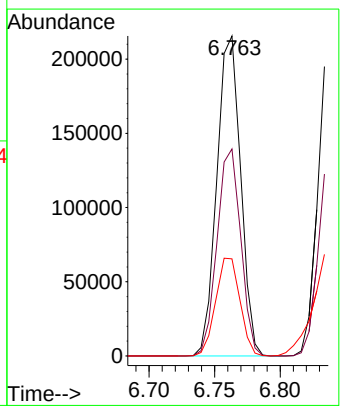


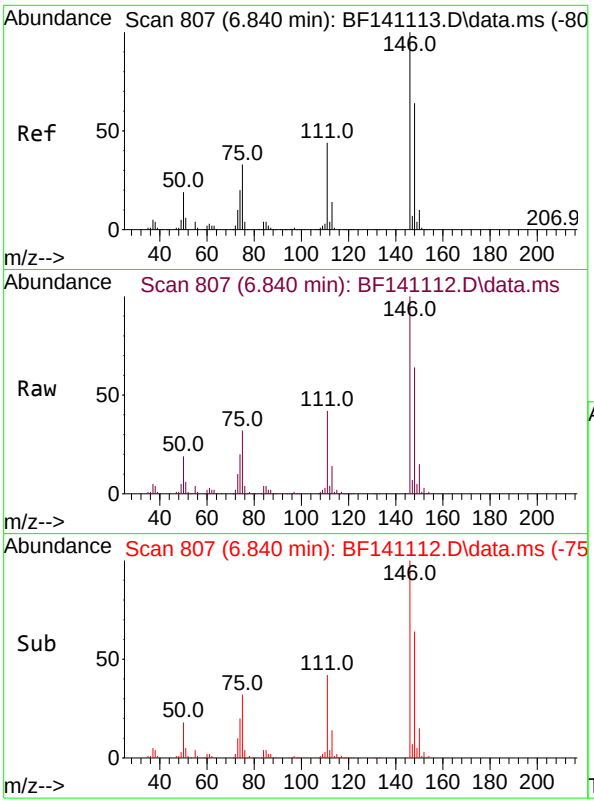


#12
1,3-Dichlorobenzene
Concen: 21.275 ng
RT: 6.763 min Scan# 794
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:146 Resp: 271956

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.6	77.4
75	30.4	26.2	39.2



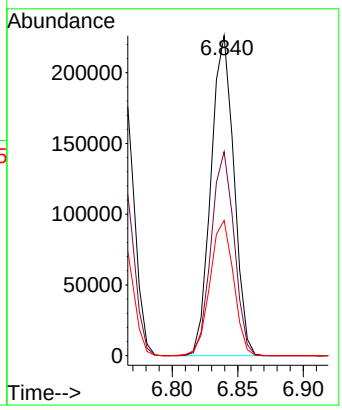


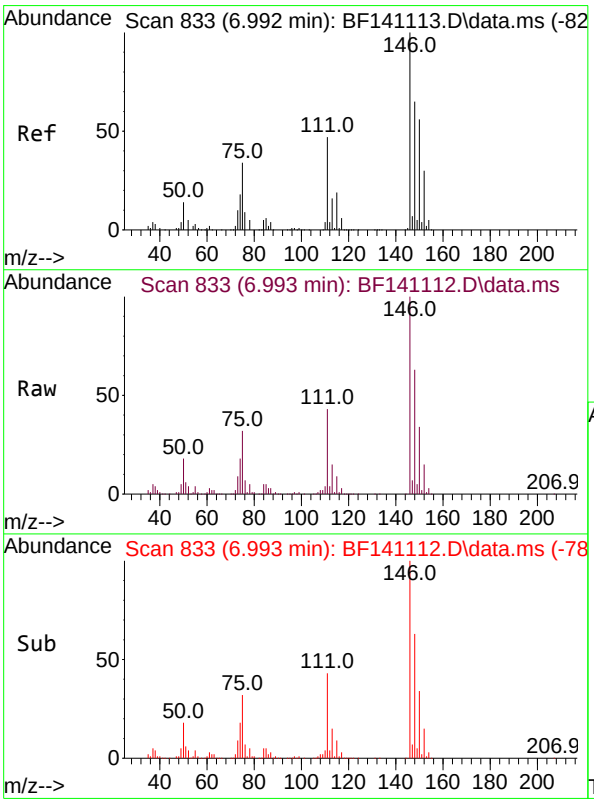
#13
1,4-Dichlorobenzene
Concen: 21.369 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 275255

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	42.3	34.9	52.3

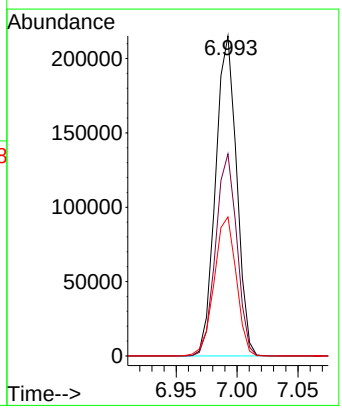


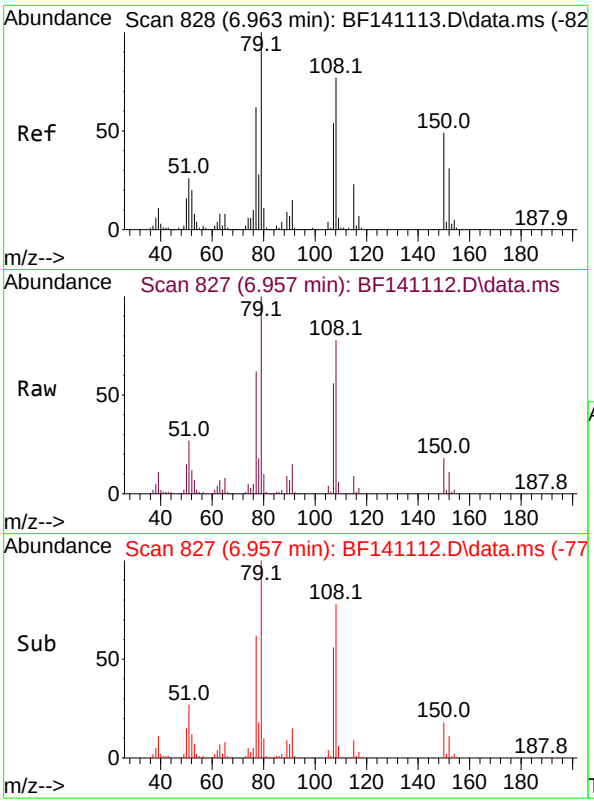


#14
1,2-Dichlorobenzene
Concen: 21.592 ng
RT: 6.993 min Scan# 833
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:146 Resp: 259444

Ion	Ratio	Lower	Upper
146	100		
148	63.2	52.2	78.4
111	43.5	37.5	56.3



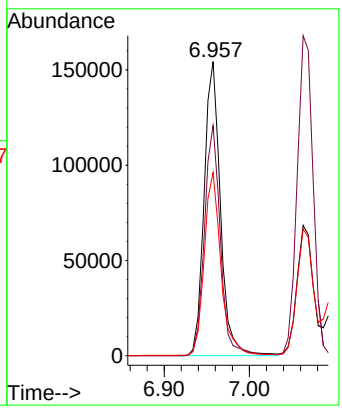


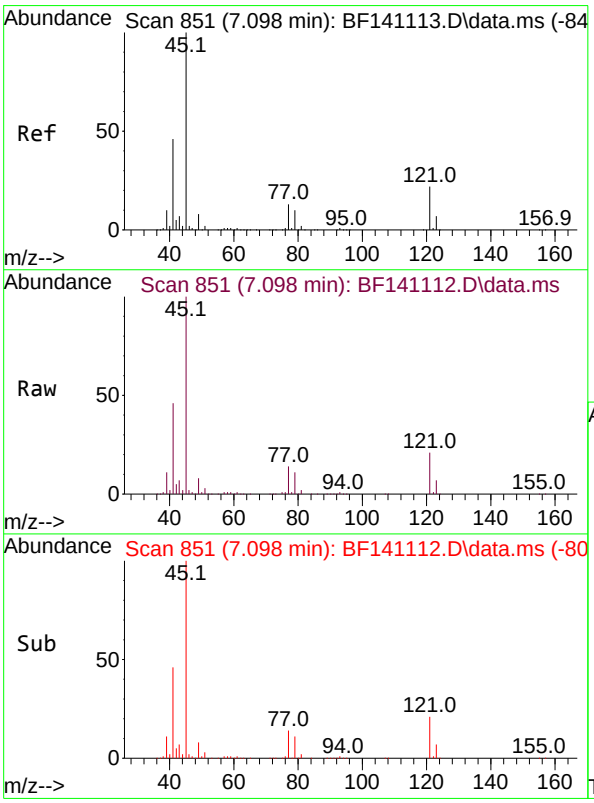
#15
Benzyl Alcohol
Concen: 21.011 ng
RT: 6.957 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 205325

Ion	Ratio	Lower	Upper
79	100		
108	78.2	61.4	92.0
77	62.2	49.8	74.6

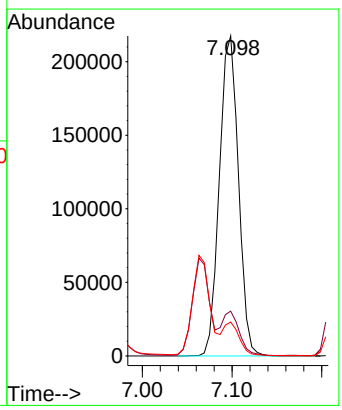


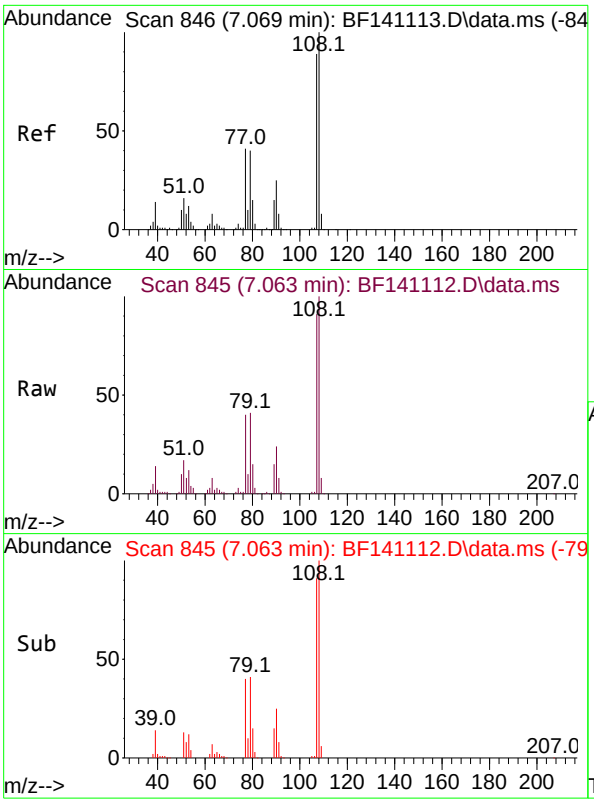


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.243 ng
RT: 7.098 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 45 Resp: 319998

Ion	Ratio	Lower	Upper
45	100		
77	14.0	0.0	34.1
79	10.6	0.0	31.0



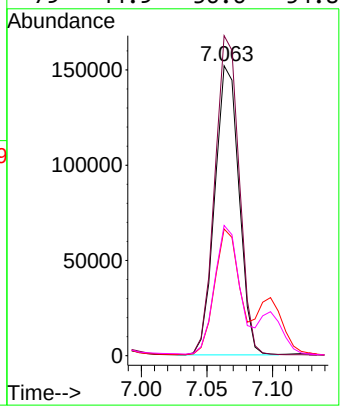


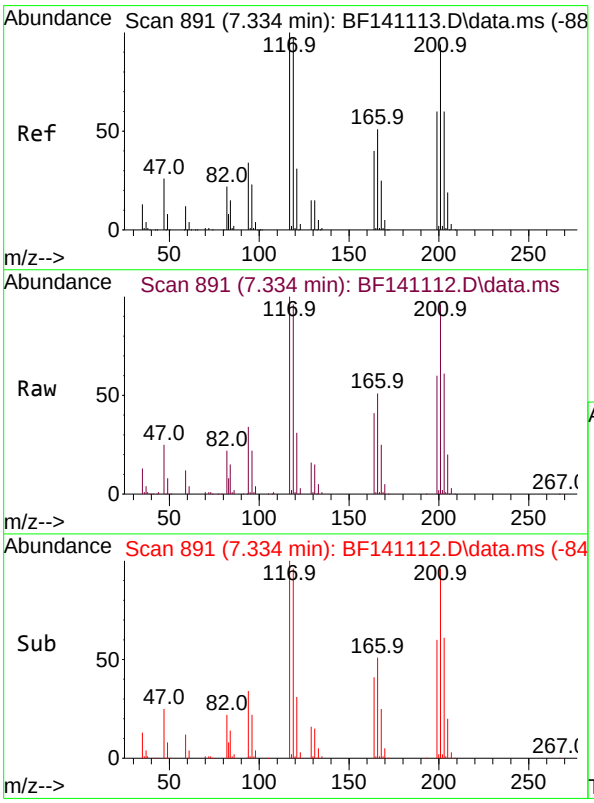
#17
2-Methylphenol
Concen: 21.080 ng
RT: 7.063 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 195053

Ion	Ratio	Lower	Upper
107	100		
108	110.4	90.1	135.1
77	43.7	36.6	55.0
79	44.9	36.6	54.8

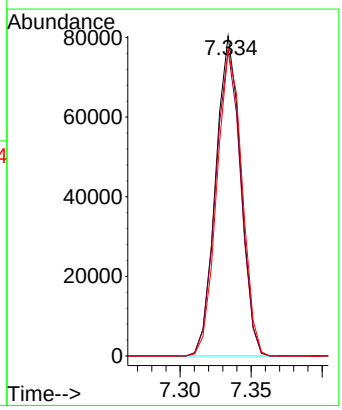


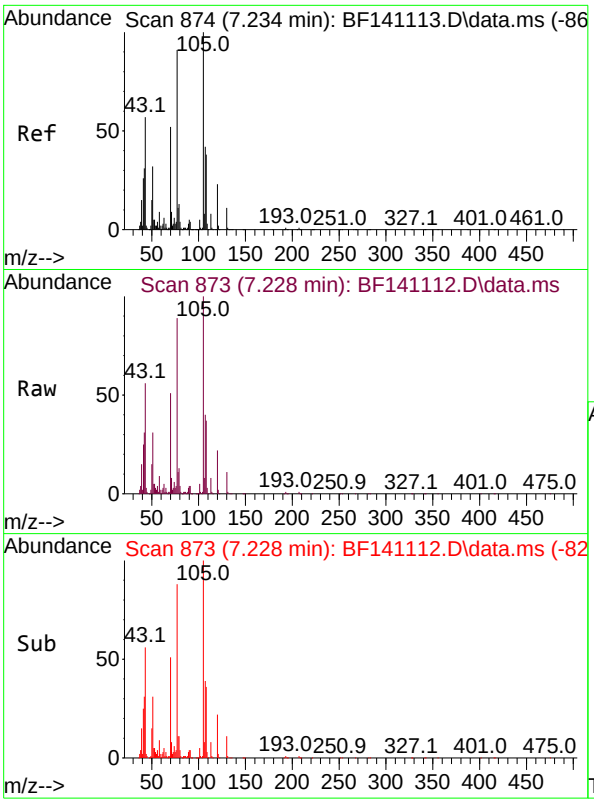


#18
Hexachloroethane
Concen: 21.073 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:117 Resp: 98162

Ion	Ratio	Lower	Upper
117	100		
119	95.7	77.6	116.4
201	95.5	75.1	112.7



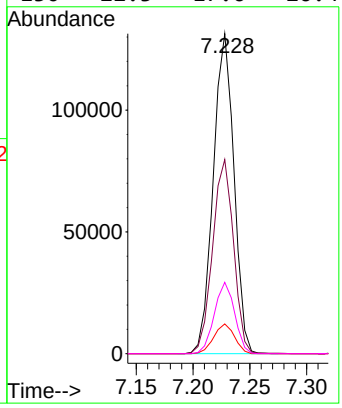


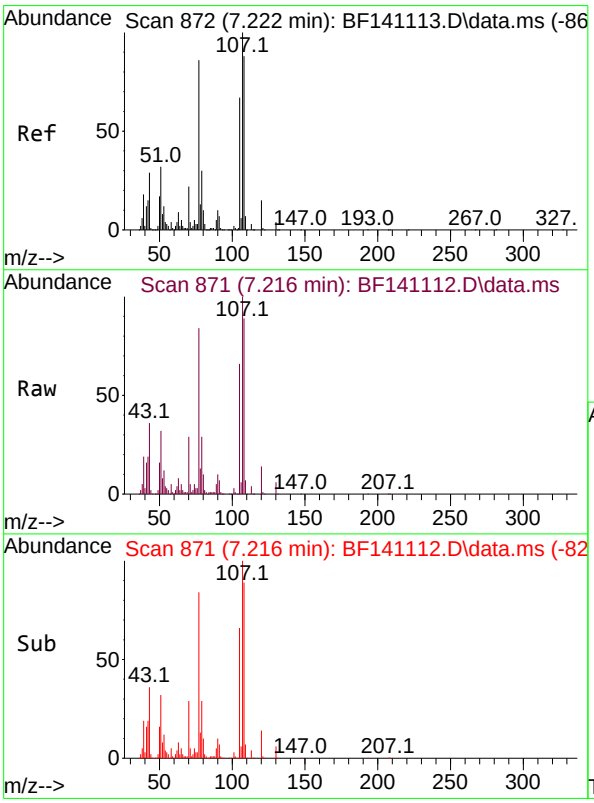
#19
n-Nitroso-di-n-propylamine
Concen: 20.896 ng
RT: 7.228 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 166563

Ion	Ratio	Lower	Upper
70	100		
42	60.6	47.8	71.6
101	9.3	7.9	11.9
130	22.3	17.6	26.4

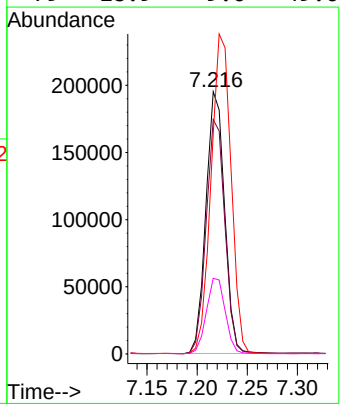


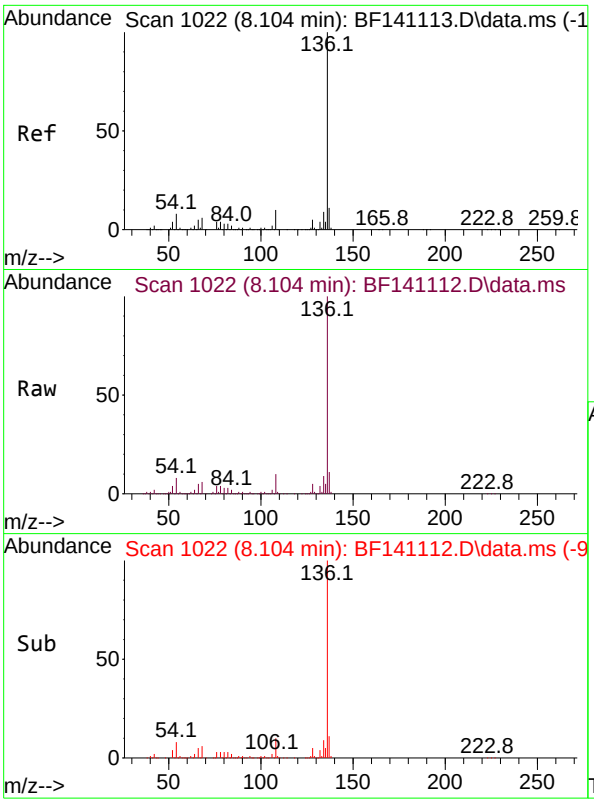


#20
3+4-Methylphenols
Concen: 21.593 ng
RT: 7.216 min Scan# 871
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:107 Resp: 252067

Ion	Ratio	Lower	Upper
107	100		
108	89.4	68.3	108.3
77	84.1	66.4	106.4
79	28.9	9.6	49.6



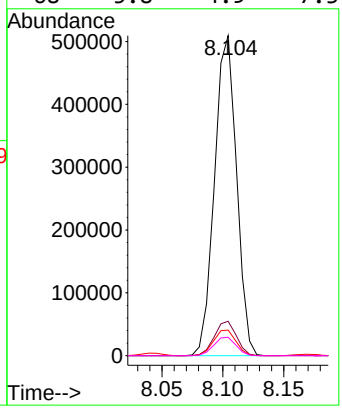


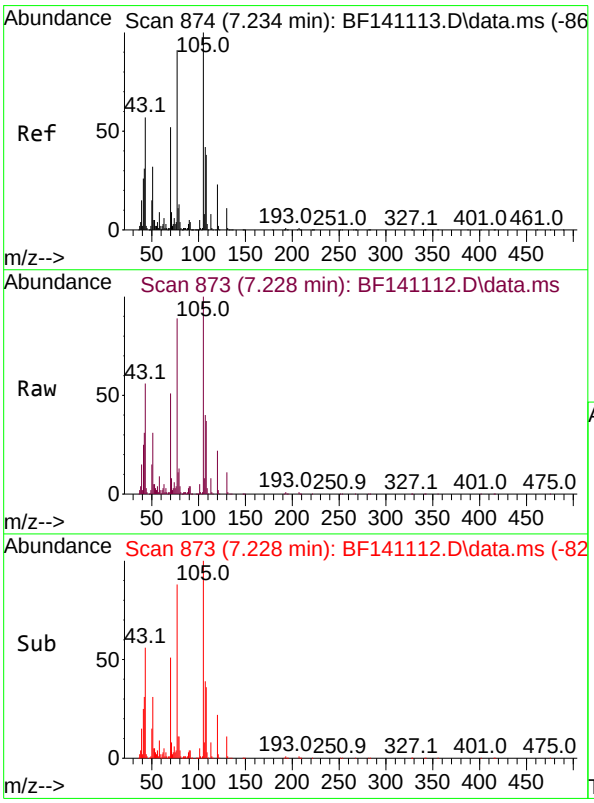
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 641610

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	8.0	6.3	9.5
68	5.8	4.9	7.3

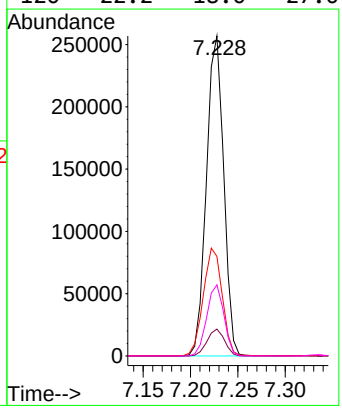


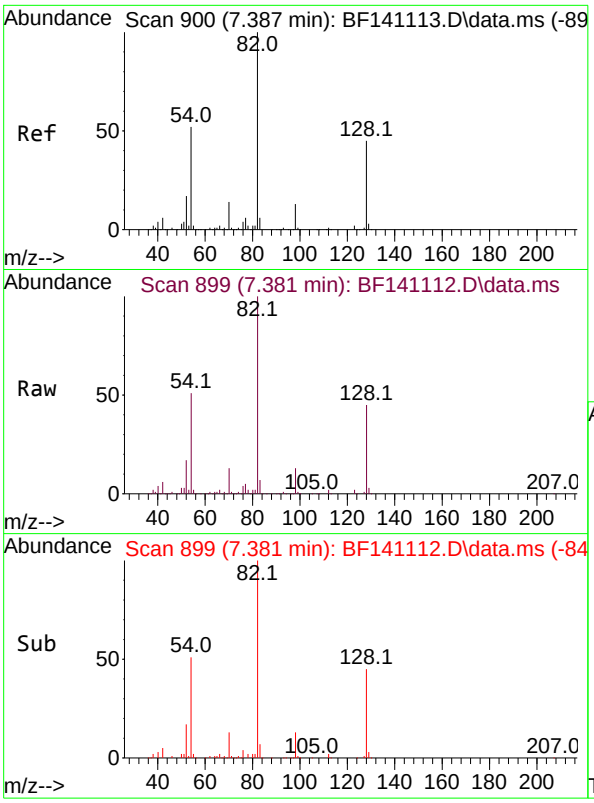


#22
Acetophenone
Concen: 21.318 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:105 Resp: 325163

Ion	Ratio	Lower	Upper
105	100		
71	8.4	7.1	10.7
51	31.1	25.4	38.2
120	22.2	18.0	27.0



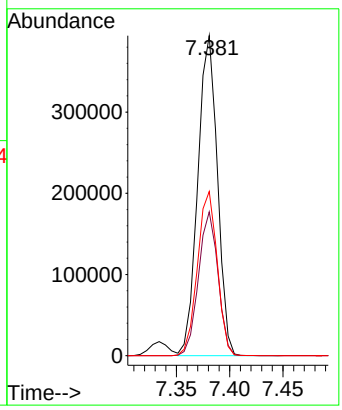


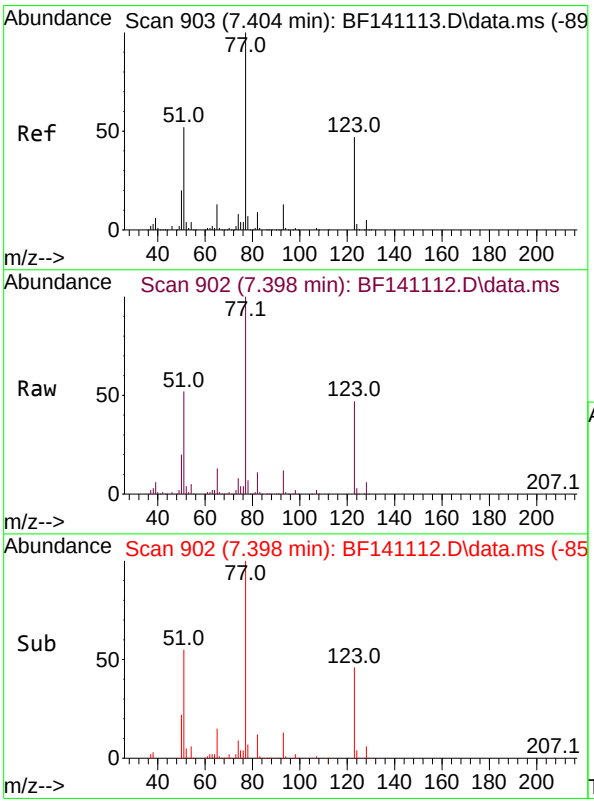
#23
Nitrobenzene-d5
Concen: 41.781 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 505718

Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.1	54.1
54	51.3	41.0	61.4

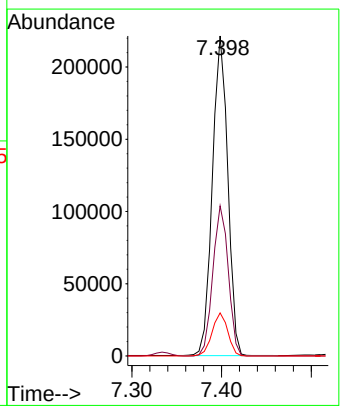


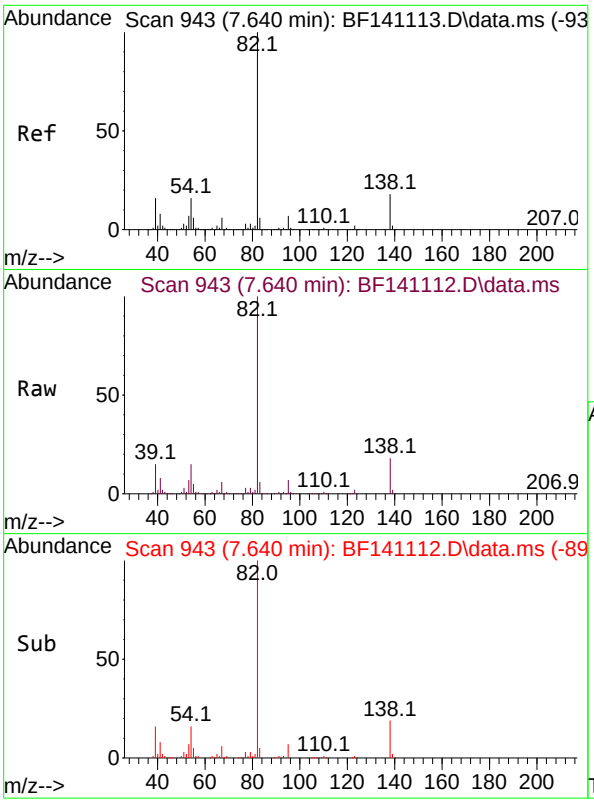


#24
Nitrobenzene
Concen: 20.903 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 77 Resp: 263687

Ion	Ratio	Lower	Upper
77	100		
123	46.9	37.7	56.5
65	13.4	10.6	16.0



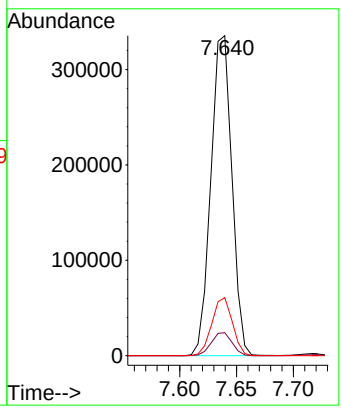


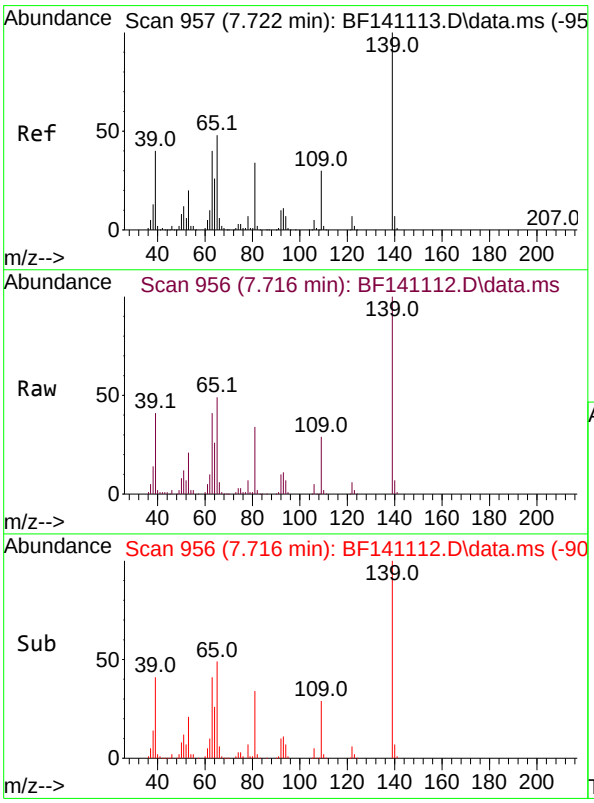
#25
Isophorone
Concen: 20.913 ng
RT: 7.640 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 432580

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.9	8.9
138	18.2	14.2	21.2

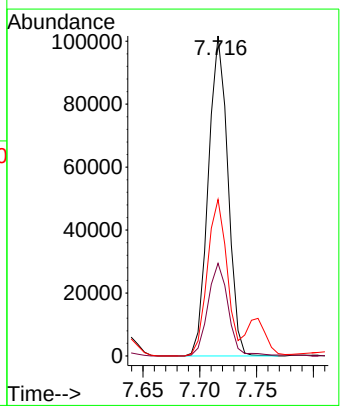


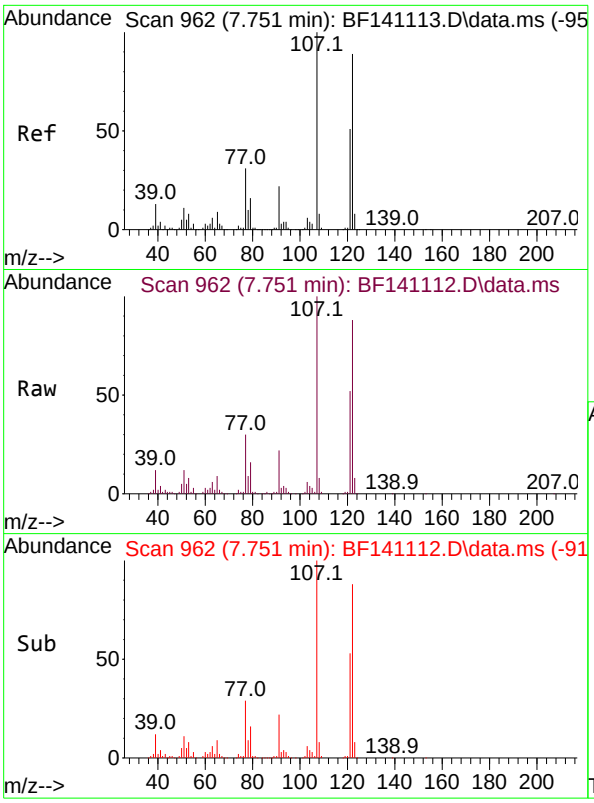


#26
2-Nitrophenol
Concen: 21.198 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:139 Resp: 121643

Ion	Ratio	Lower	Upper
139	100		
109	29.0	23.8	35.6
65	48.9	38.5	57.7



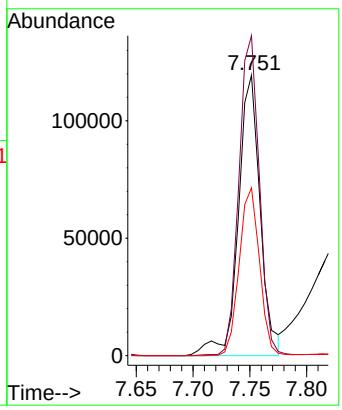


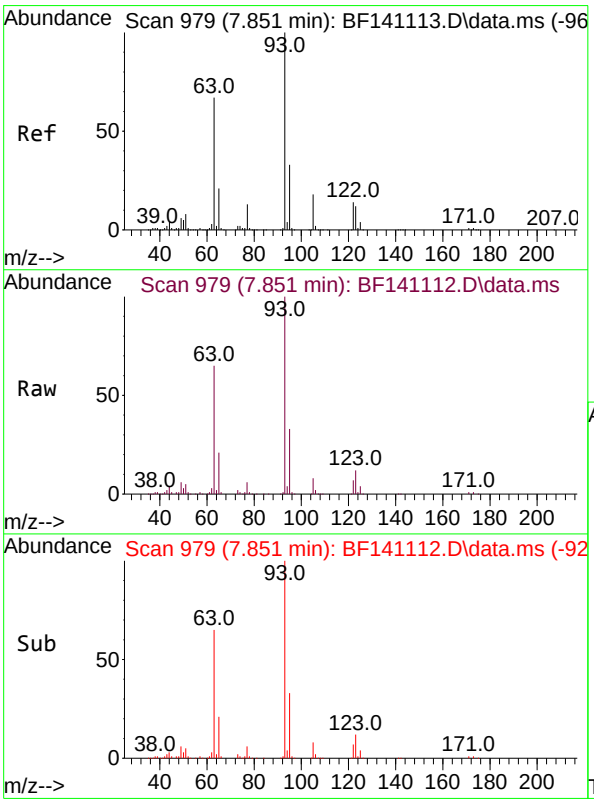
#27
2,4-Dimethylphenol
Concen: 20.686 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 160116

Ion	Ratio	Lower	Upper
122	100		
107	114.1	90.3	135.5
121	59.9	46.5	69.7

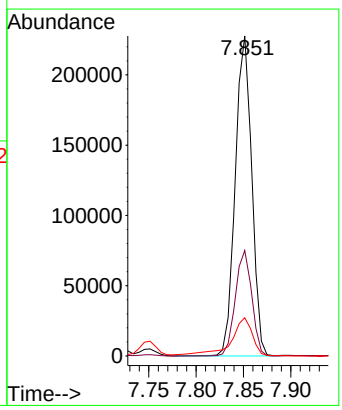


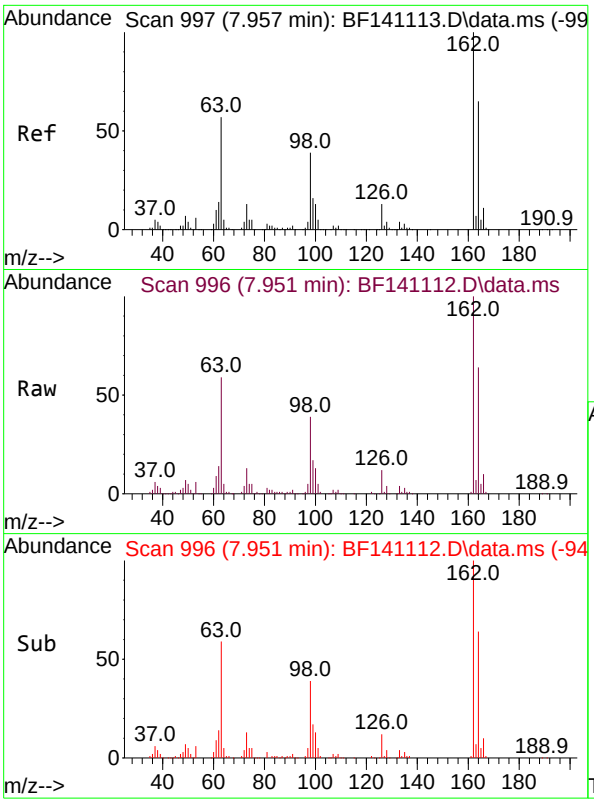


#28
bis(2-Chloroethoxy)methane
Concen: 21.233 ng
RT: 7.851 min Scan# 979
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 93 Resp: 275641

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.2	39.4
123	12.0	10.1	15.1



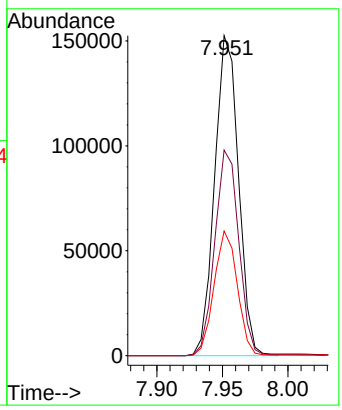


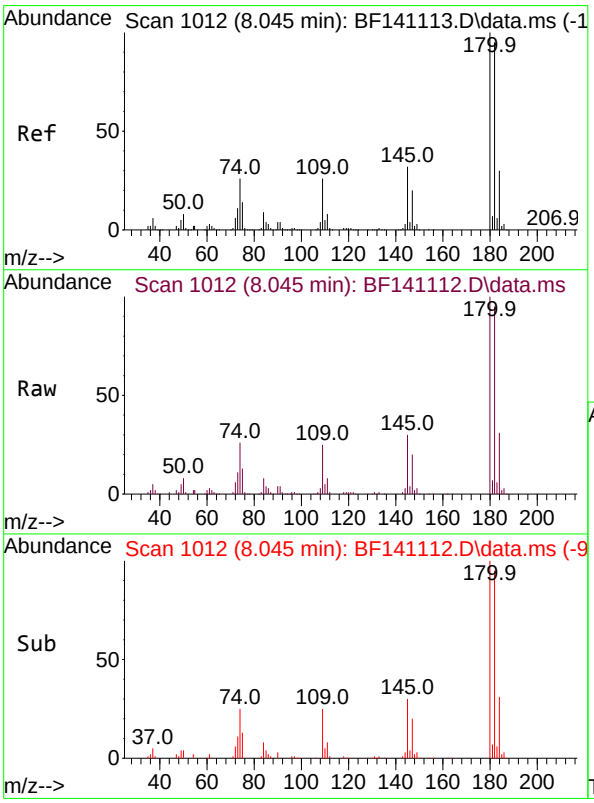
#29
2,4-Dichlorophenol
Concen: 20.966 ng
RT: 7.951 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 192733

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.5	84.5
98	39.0	18.5	58.5

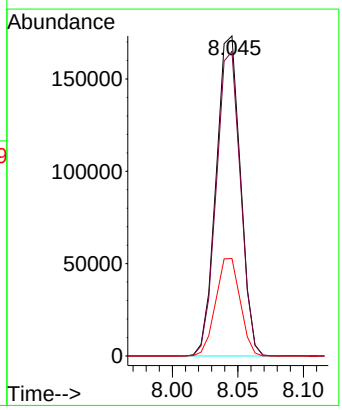


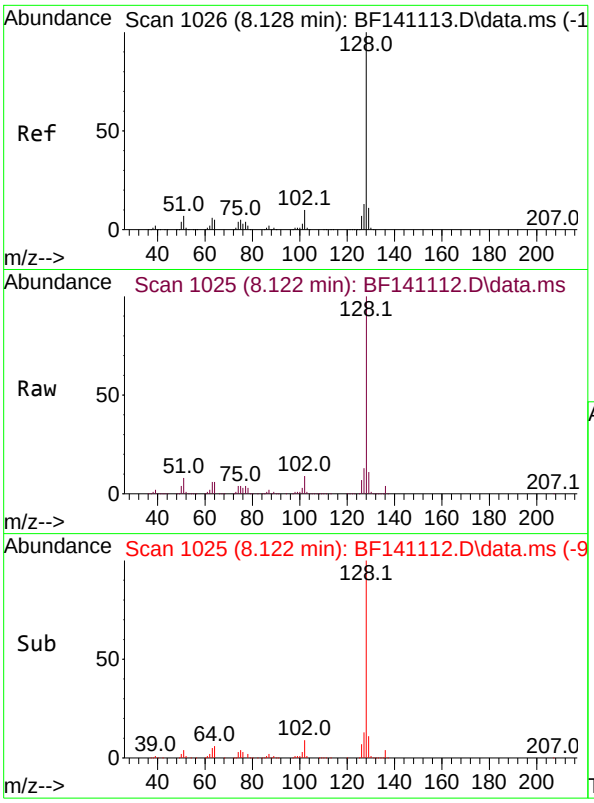


#30
1,2,4-Trichlorobenzene
Concen: 21.231 ng
RT: 8.045 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:180 Resp: 223082

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
145	30.5	25.3	37.9



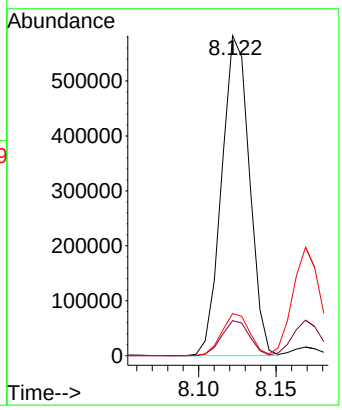


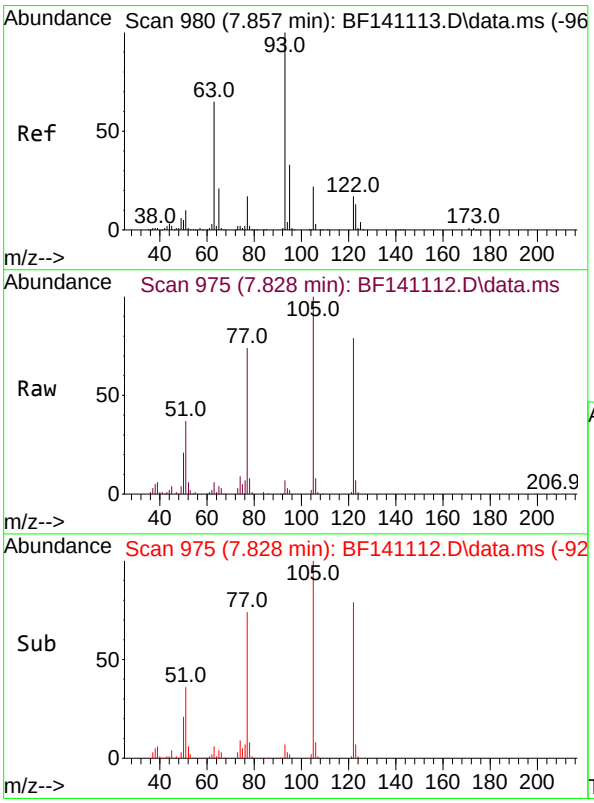
#31
Naphthalene
Concen: 21.450 ng
RT: 8.122 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 725773

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.2	10.8	16.2

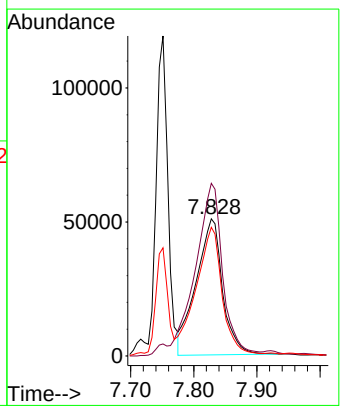


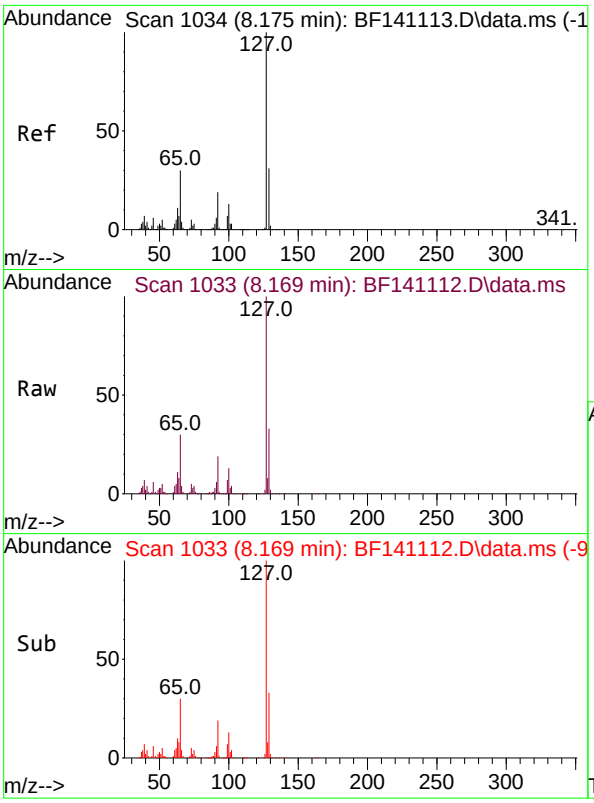


#32
Benzoic acid
Concen: 19.932 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.029 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:122 Resp: 147997

Ion	Ratio	Lower	Upper
122	100		
105	125.9	105.5	145.5
77	93.7	75.1	115.1



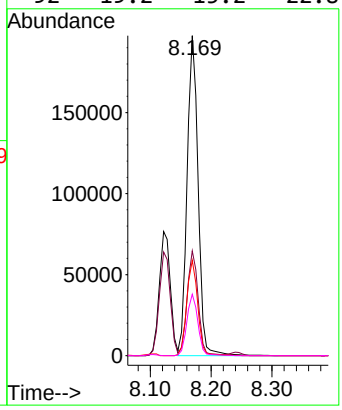


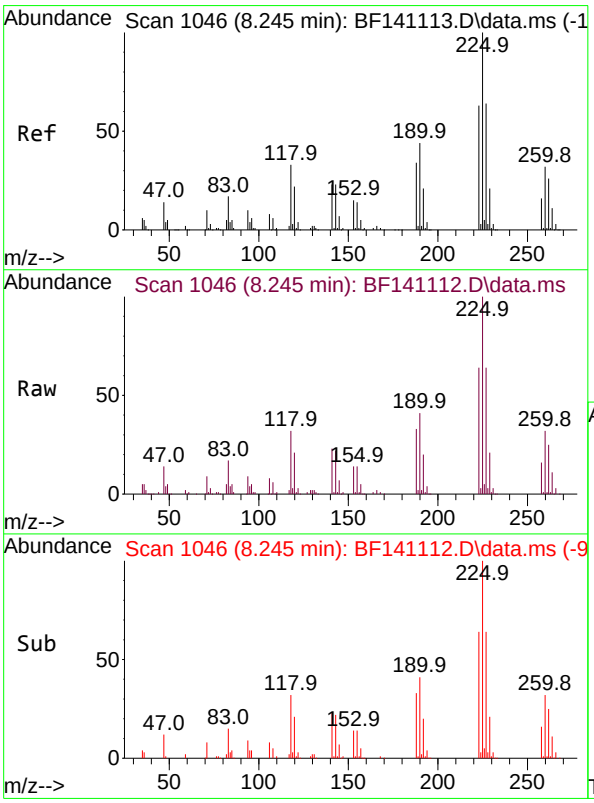
#33
4-Chloroaniline
Concen: 21.190 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 247958

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	29.7	23.8	35.8
92	19.2	15.2	22.8

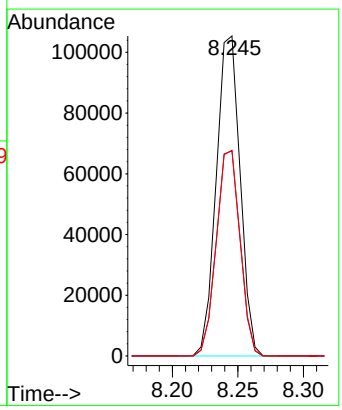


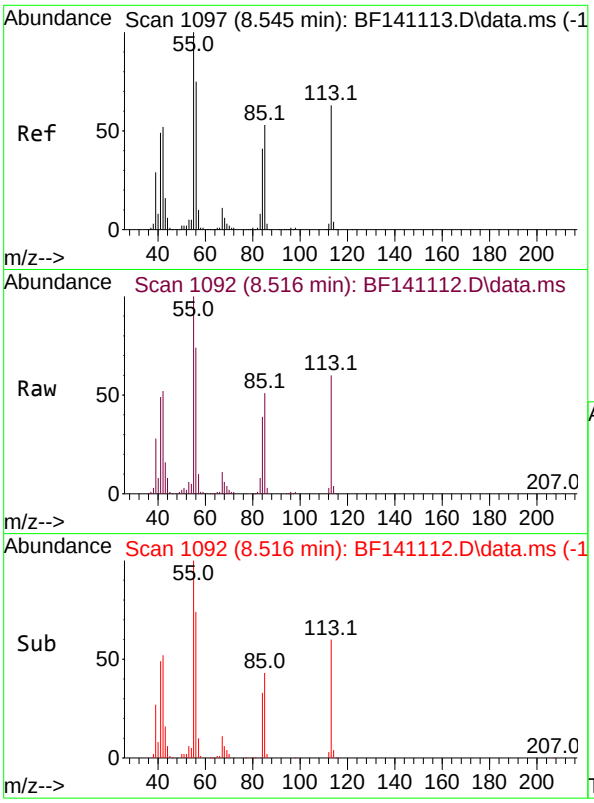


#34
Hexachlorobutadiene
Concen: 21.028 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:225 Resp: 133140

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.6	76.0
227	64.3	51.6	77.4



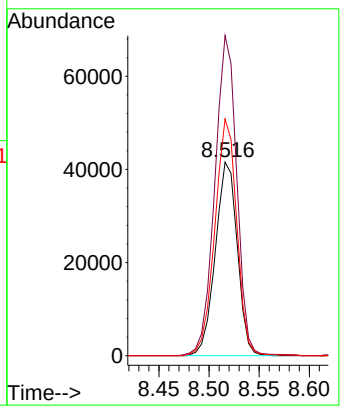


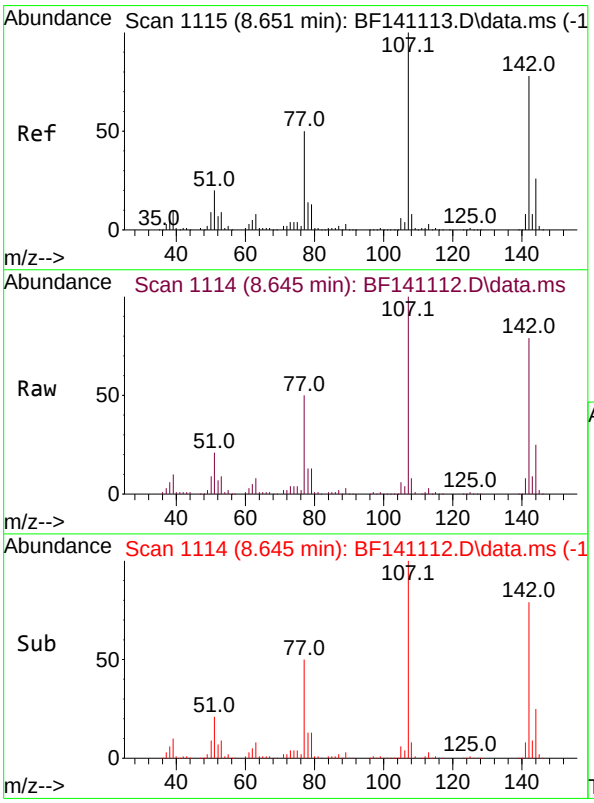
#35
Caprolactam
Concen: 20.967 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 63223

Ion	Ratio	Lower	Upper
113	100		
55	165.4	139.7	179.7
56	122.3	99.4	139.4

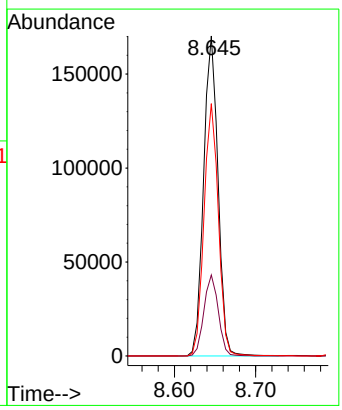


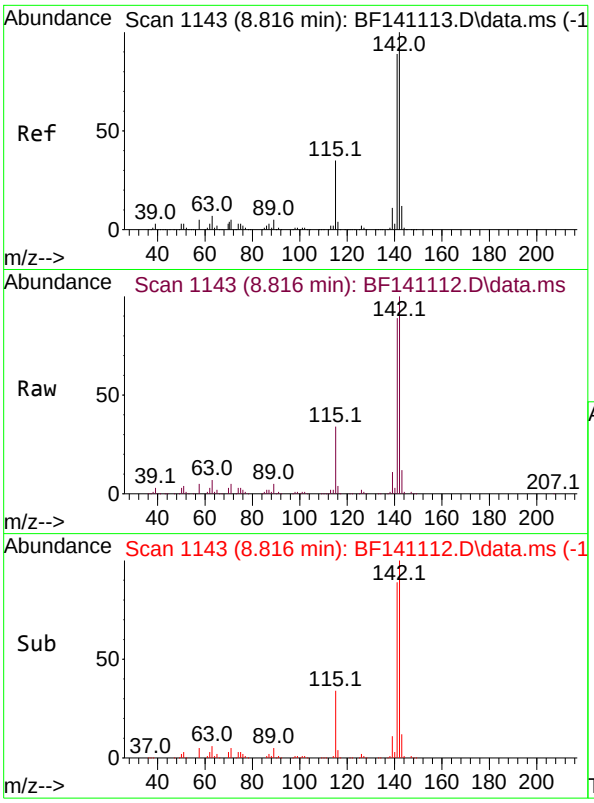


#36
4-Chloro-3-methylphenol
Concen: 20.854 ng
RT: 8.645 min Scan# 1114
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:107 Resp: 209656

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.4	30.6
142	78.8	62.2	93.2



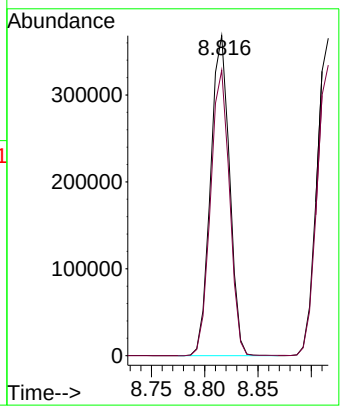


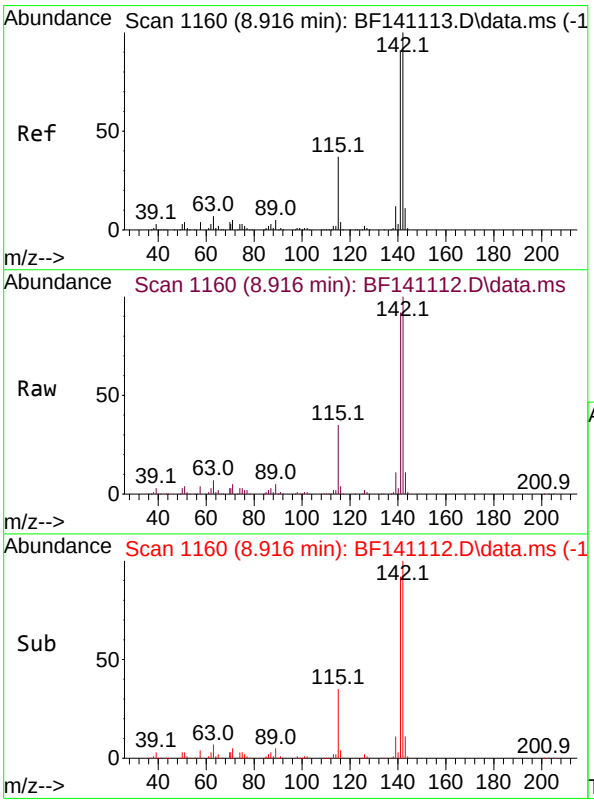
#37
2-Methylnaphthalene
Concen: 21.136 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 455728

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.3	106.9

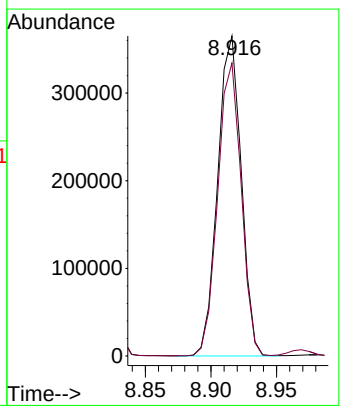


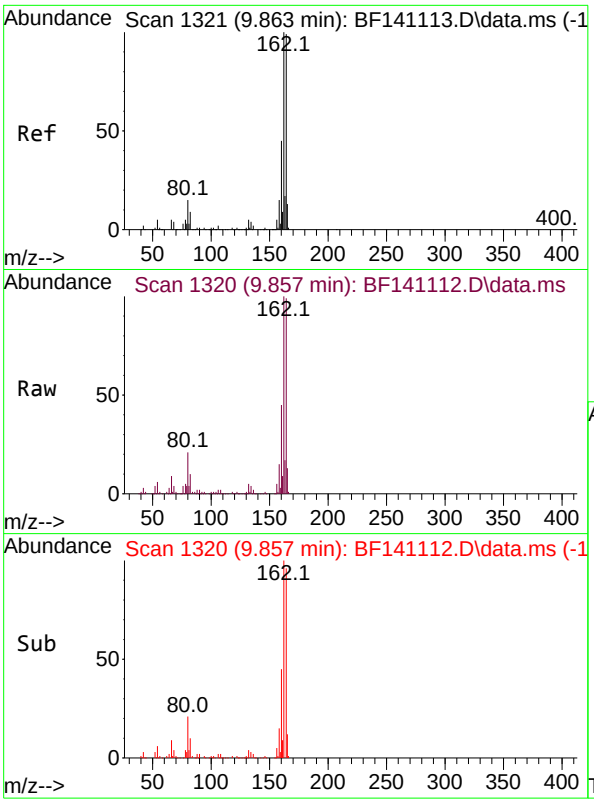


#38
1-Methylnaphthalene
Concen: 21.434 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:142 Resp: 455467

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.1	109.7



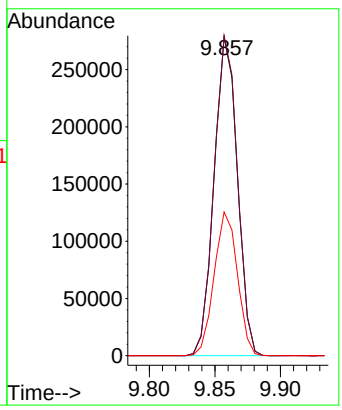


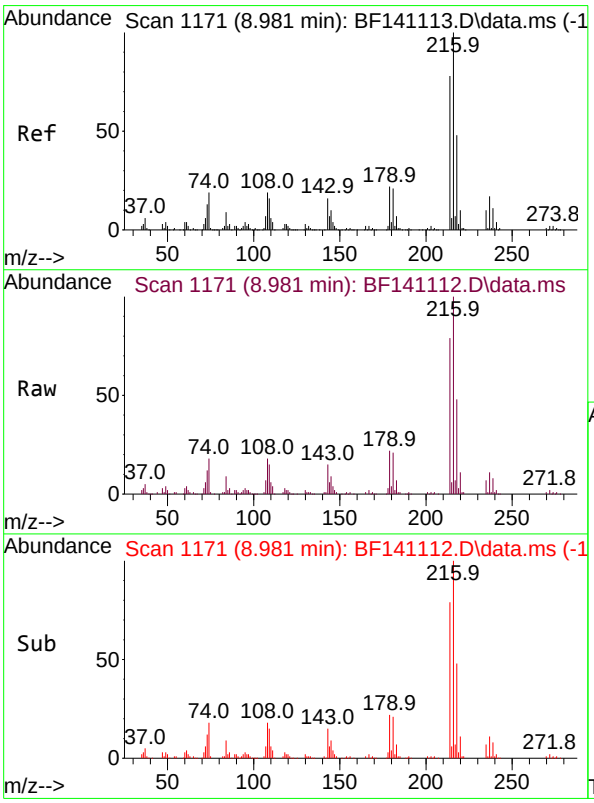
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 342827

Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.0	121.4
160	45.1	36.1	54.1

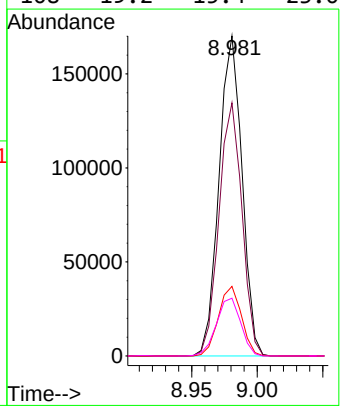


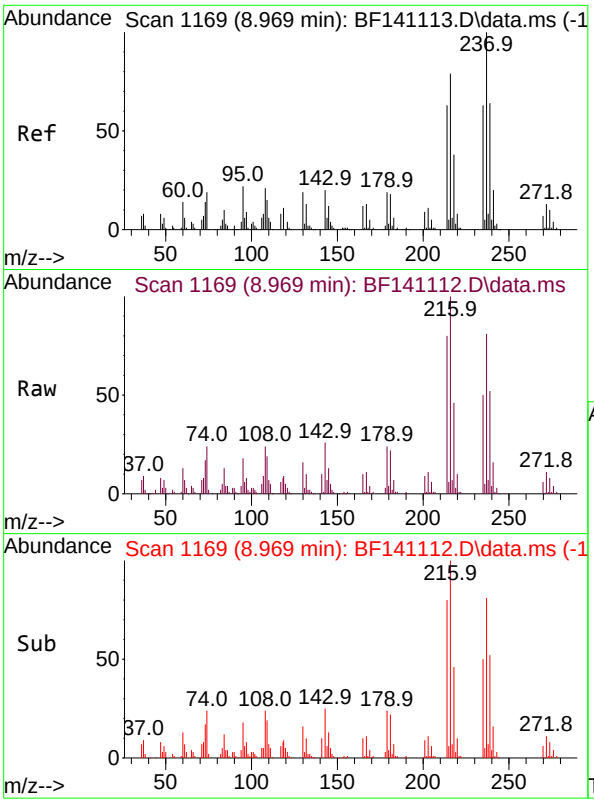


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.053 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:216 Resp: 207159

Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.6	94.0
179	21.8	17.7	26.5
108	19.2	15.4	23.0



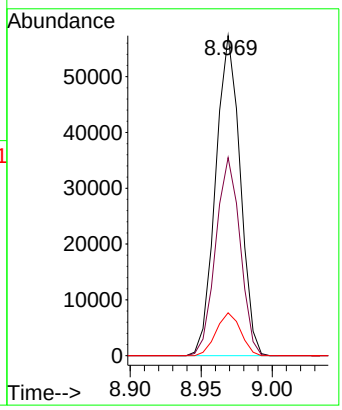


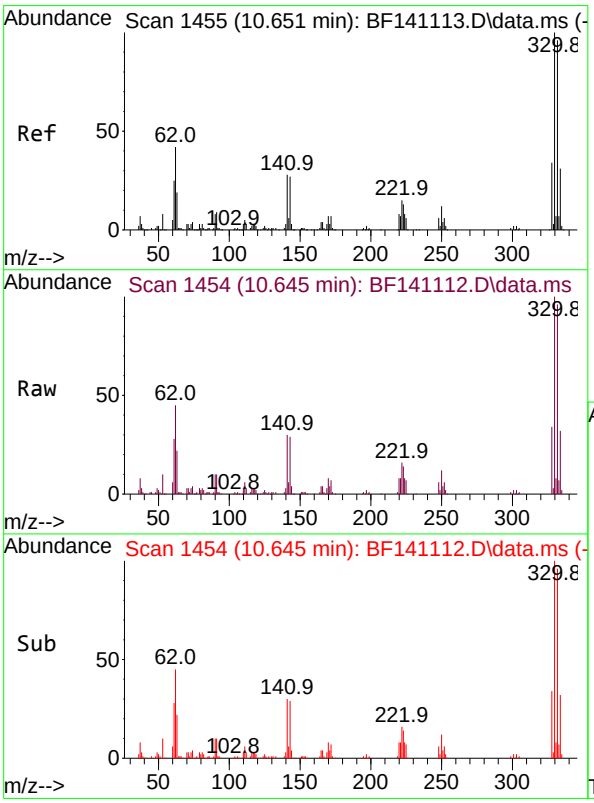
#41
Hexachlorocyclopentadiene
Concen: 21.381 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 68830

Ion	Ratio	Lower	Upper
237	100		
235	61.9	43.0	83.0
272	13.4	0.0	33.0

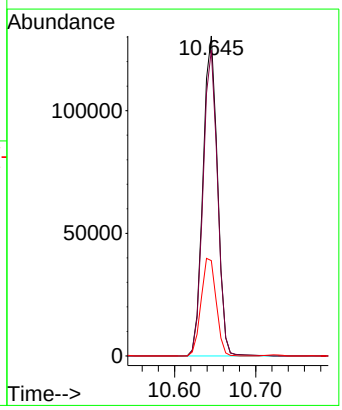


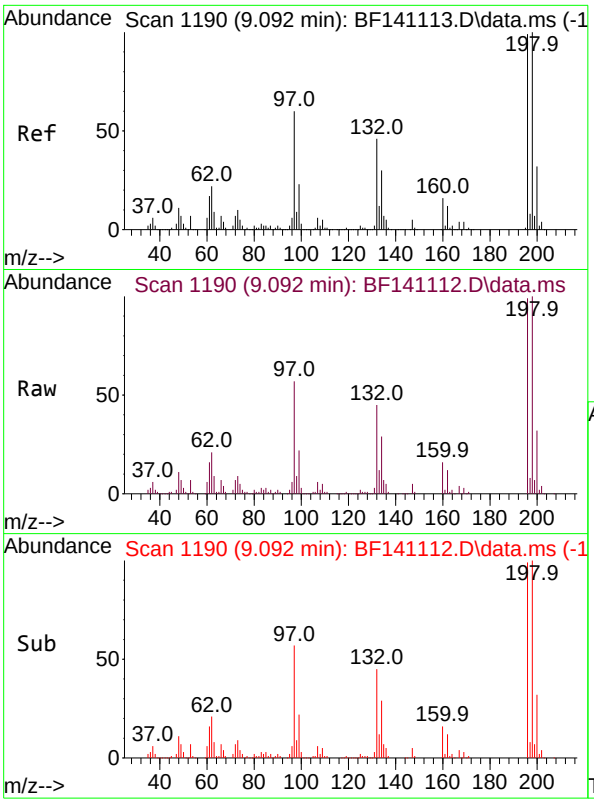


#42
2,4,6-Tribromophenol
Concen: 41.297 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:330 Resp: 161318

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.9	115.3
141	31.8	25.2	37.8



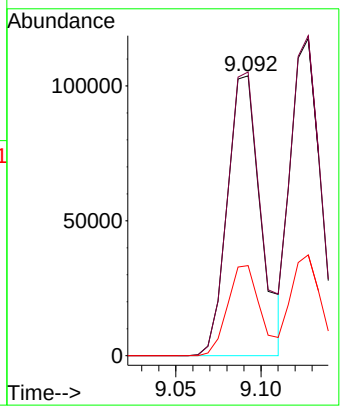


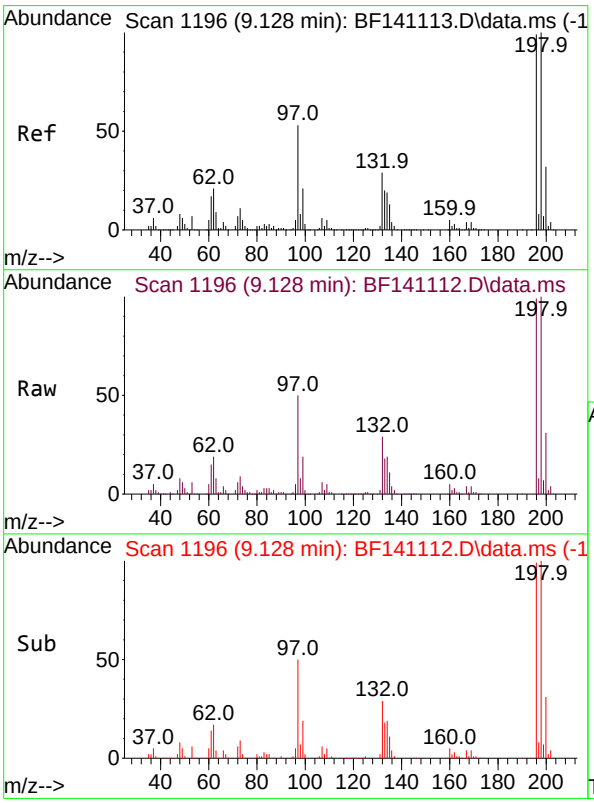
#43
2,4,6-Trichlorophenol
Concen: 21.263 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 141110

Ion	Ratio	Lower	Upper
196	100		
198	101.3	80.8	121.2
200	32.2	25.7	38.5

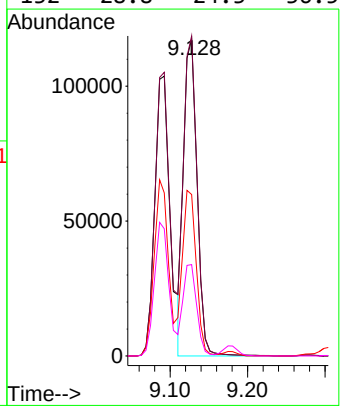


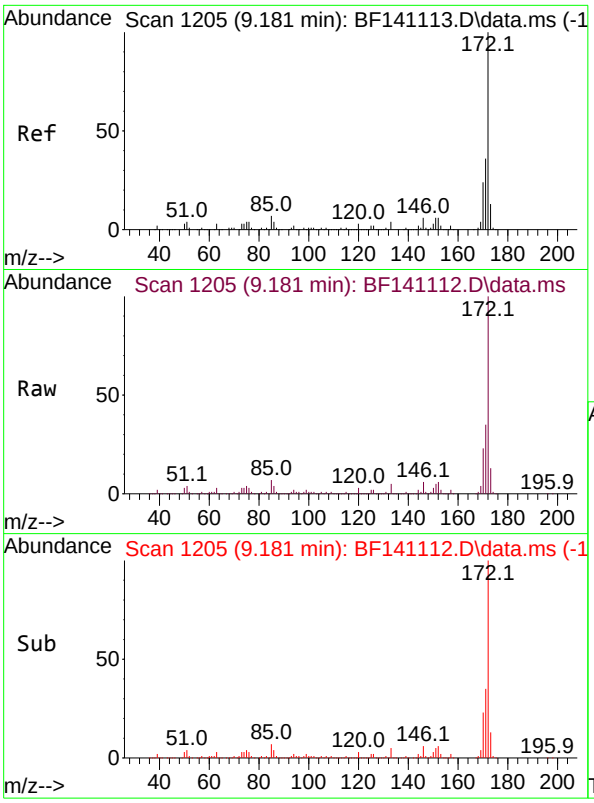


#44
2,4,5-Trichlorophenol
Concen: 20.463 ng
RT: 9.128 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:196 Resp: 143420

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.6	120.8
97	50.9	43.1	64.7
132	28.8	24.3	36.5



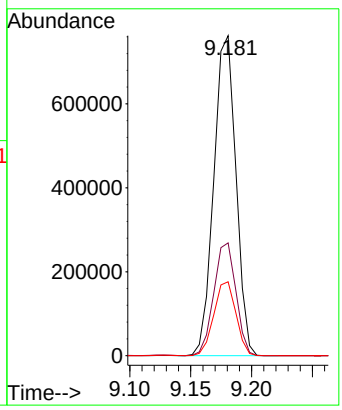


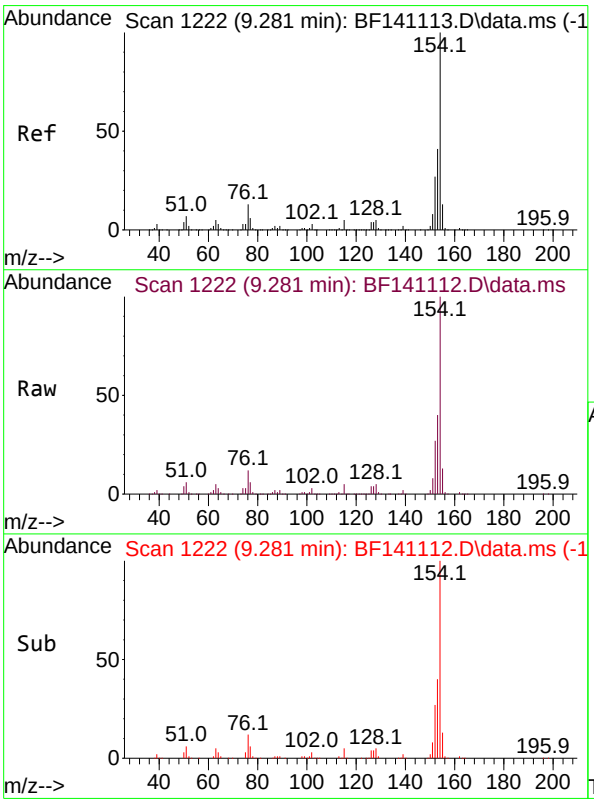
#45
2-Fluorobiphenyl
Concen: 43.009 ng
RT: 9.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 965569

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.7	43.1
170	23.1	19.0	28.6

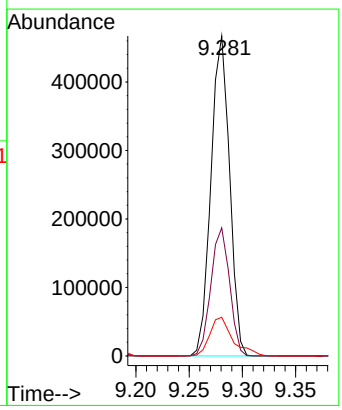


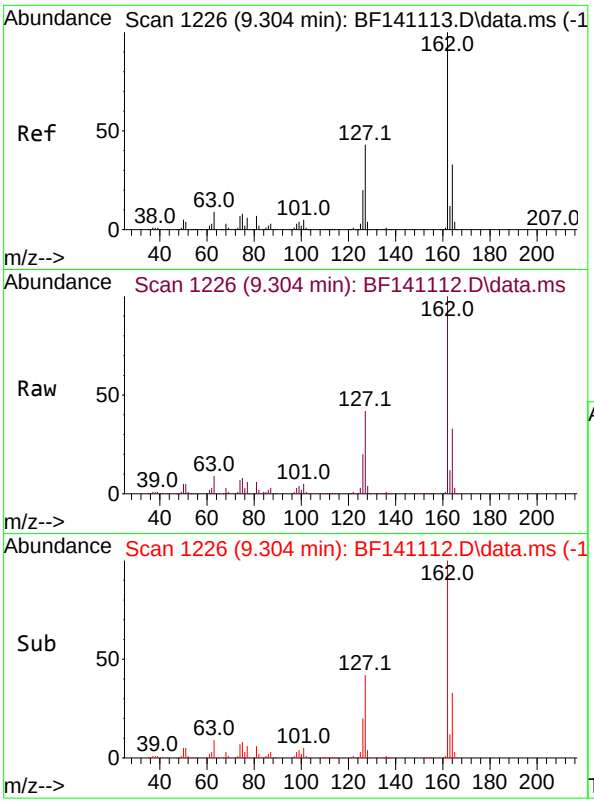


#46
1,1'-Biphenyl
Concen: 21.294 ng
RT: 9.281 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:154 Resp: 566930

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.7	60.7
76	12.1	0.0	33.1



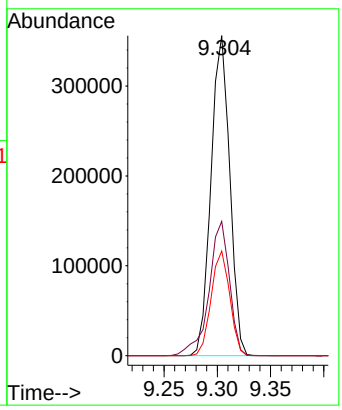


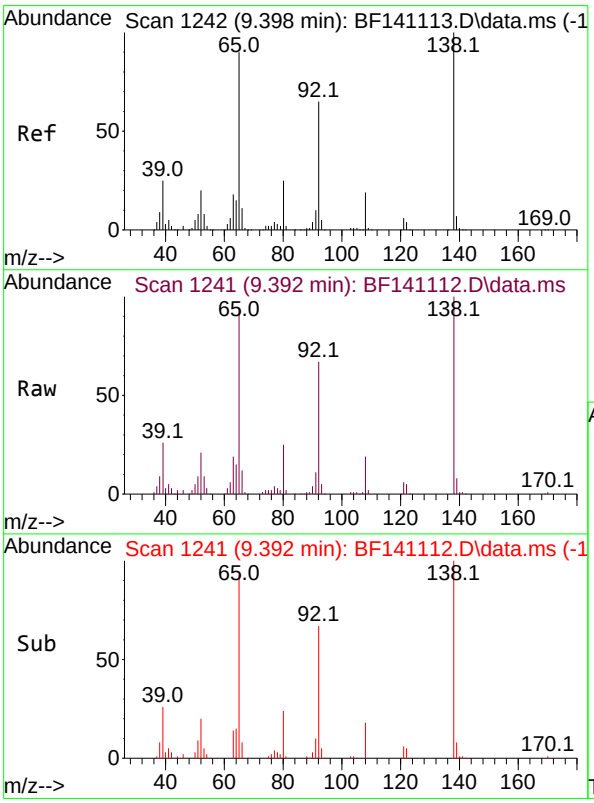
#47
2-Chloronaphthalene
Concen: 21.045 ng
RT: 9.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 436413

Ion	Ratio	Lower	Upper
162	100		
127	42.0	34.6	51.8
164	32.7	26.5	39.7

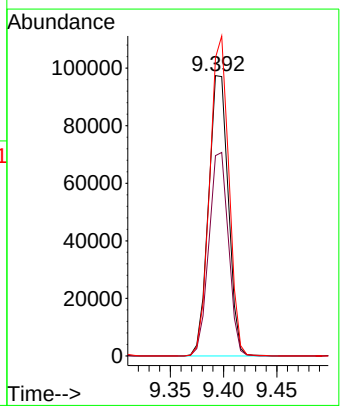


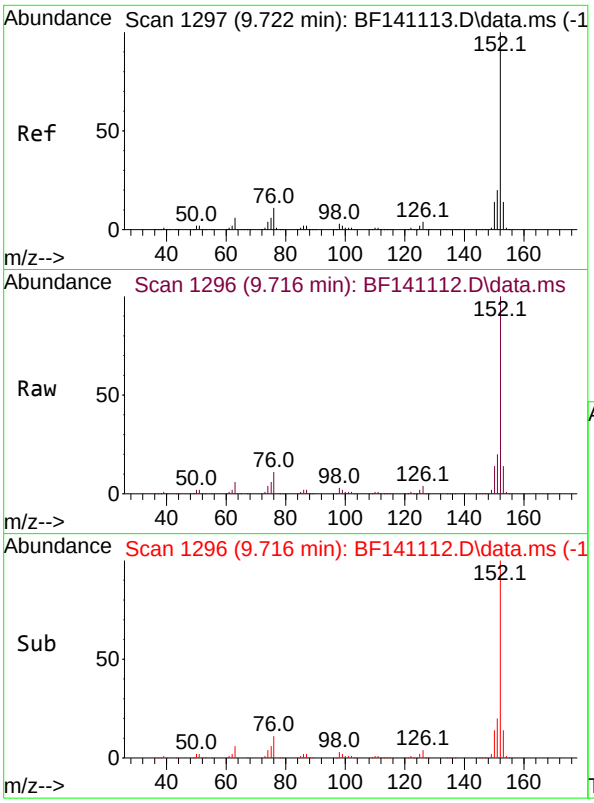


#48
2-Nitroaniline
Concen: 20.379 ng
RT: 9.392 min Scan# 1241
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion: 65 Resp: 125270

Ion	Ratio	Lower	Upper
65	100		
92	71.4	58.3	87.5
138	106.4	89.1	133.7



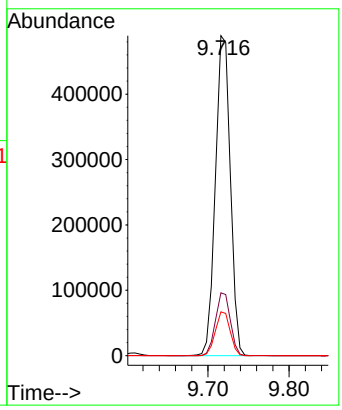


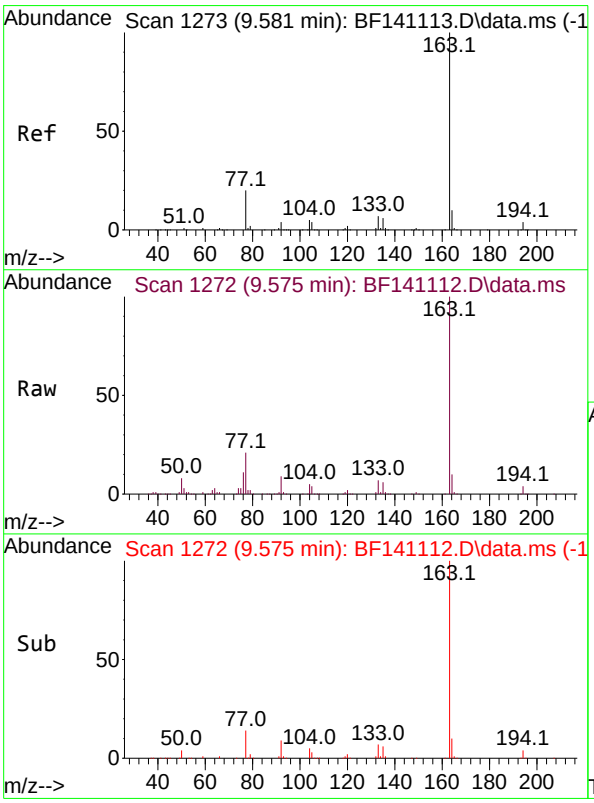
#49
Acenaphthylene
Concen: 21.182 ng
RT: 9.716 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 627543

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.1	24.1
153	13.7	11.1	16.7

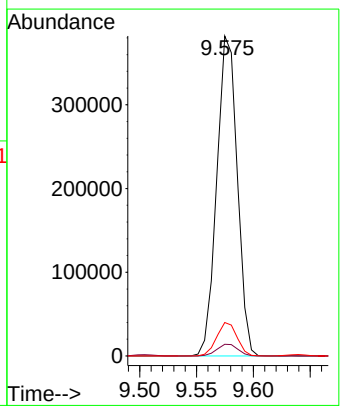


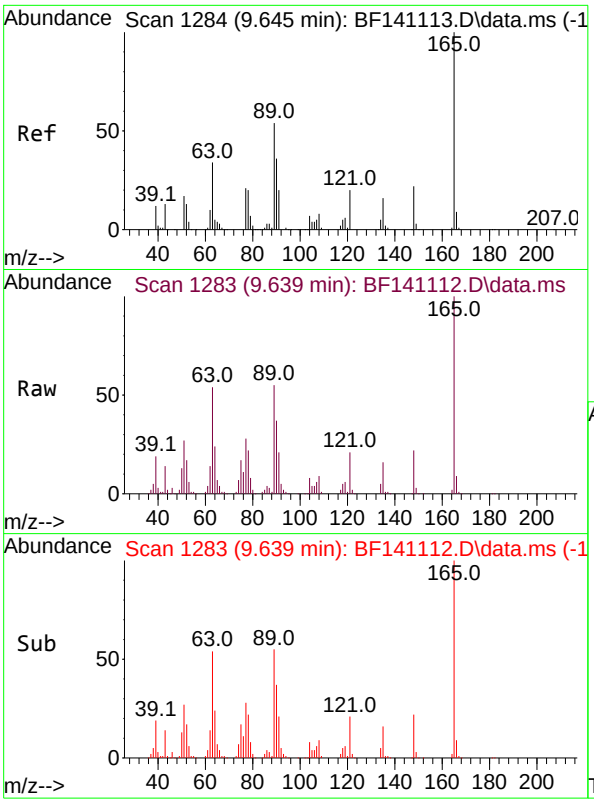


#50
Dimethylphthalate
Concen: 20.907 ng
RT: 9.575 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:163 Resp: 481191

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.4	8.2	12.4



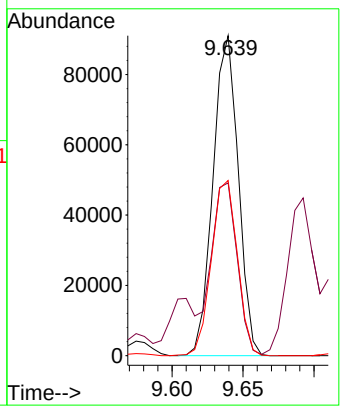


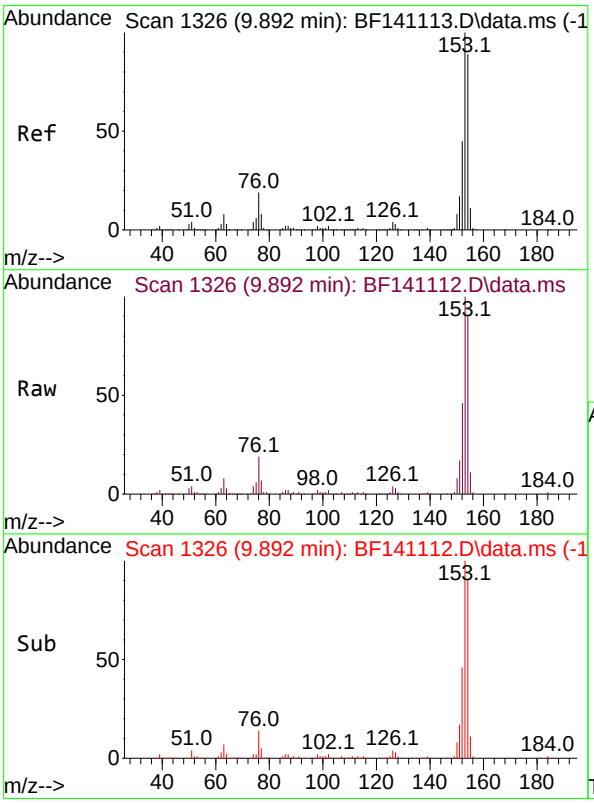
#51
2,6-Dinitrotoluene
Concen: 21.038 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 112600

Ion	Ratio	Lower	Upper
165	100		
63	54.0	42.3	63.5
89	54.7	43.1	64.7

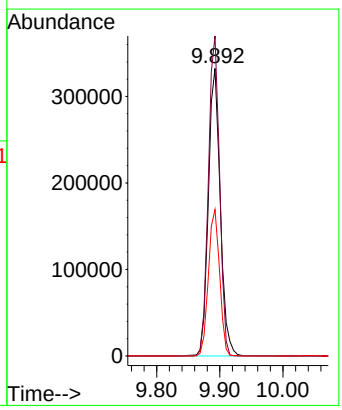


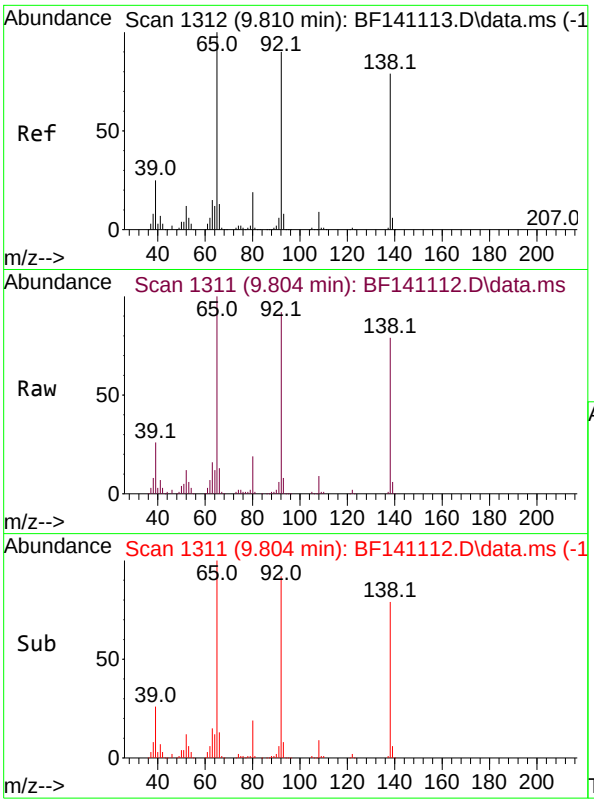


#52
Acenaphthene
Concen: 21.094 ng
RT: 9.892 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:154 Resp: 436615

Ion	Ratio	Lower	Upper
154	100		
153	111.3	89.8	134.6
152	50.9	40.8	61.2



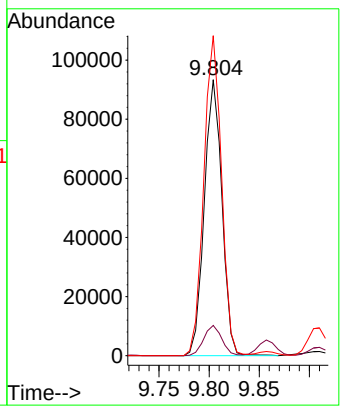


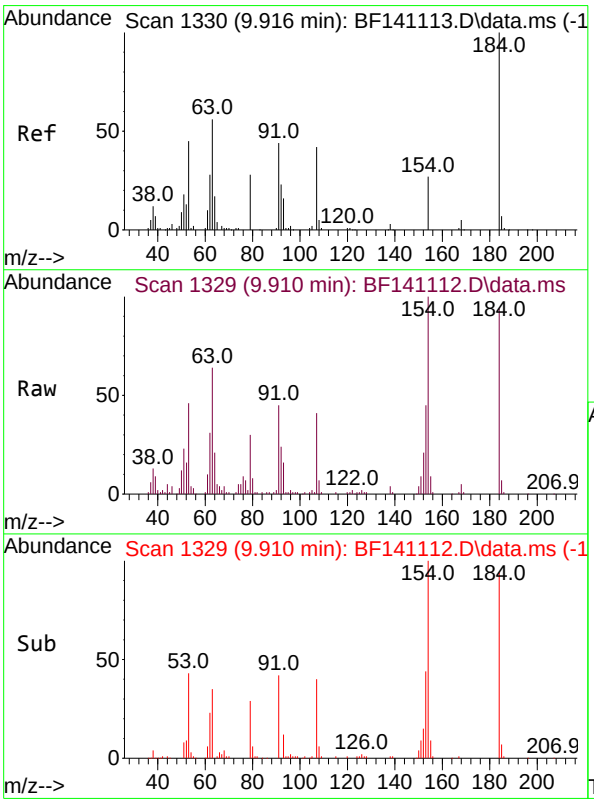
#53
3-Nitroaniline
Concen: 20.994 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 114181

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.8	13.2
92	116.0	91.3	136.9

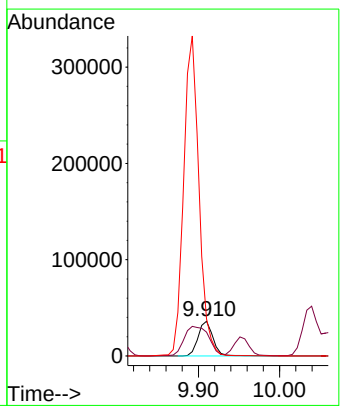


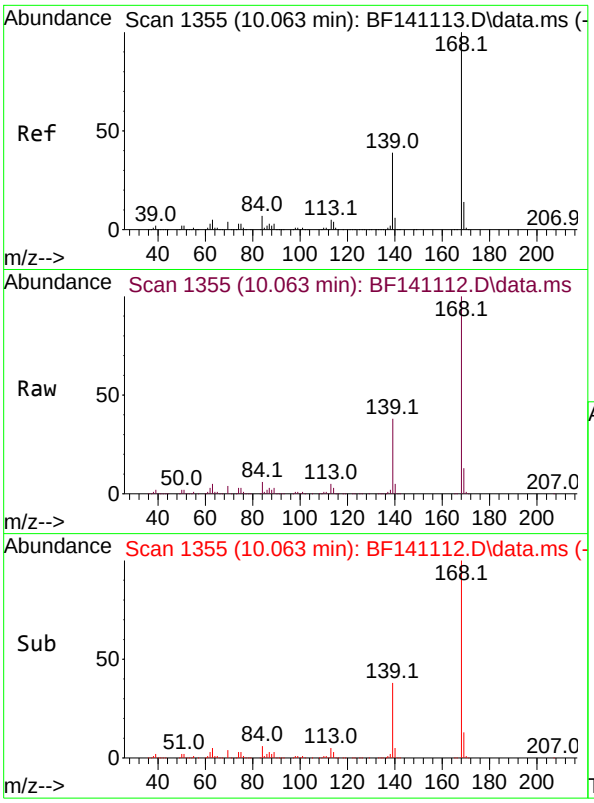


#54
2,4-Dinitrophenol
Concen: 17.982 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:184 Resp: 45746

Ion	Ratio	Lower	Upper
184	100		
63	68.6	48.7	73.1
154	106.9	57.1	85.7#



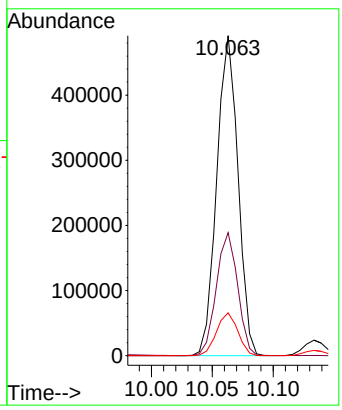


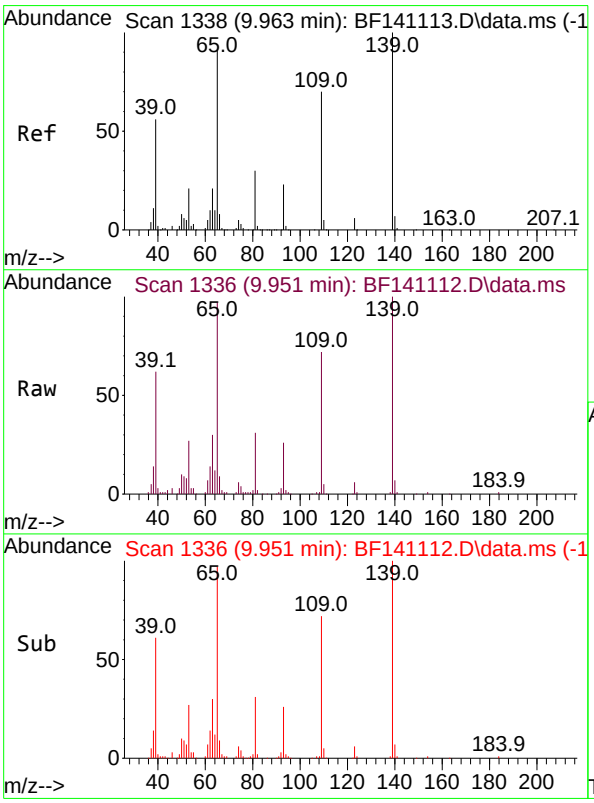
#55
Dibenzofuran
Concen: 21.167 ng
RT: 10.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 595943

Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.4	47.0
169	13.4	10.9	16.3

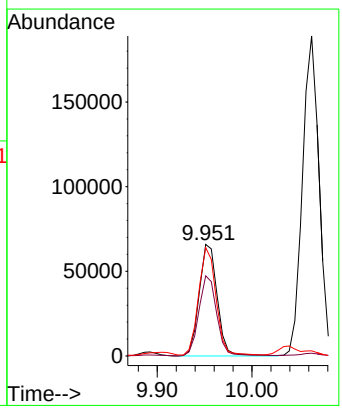


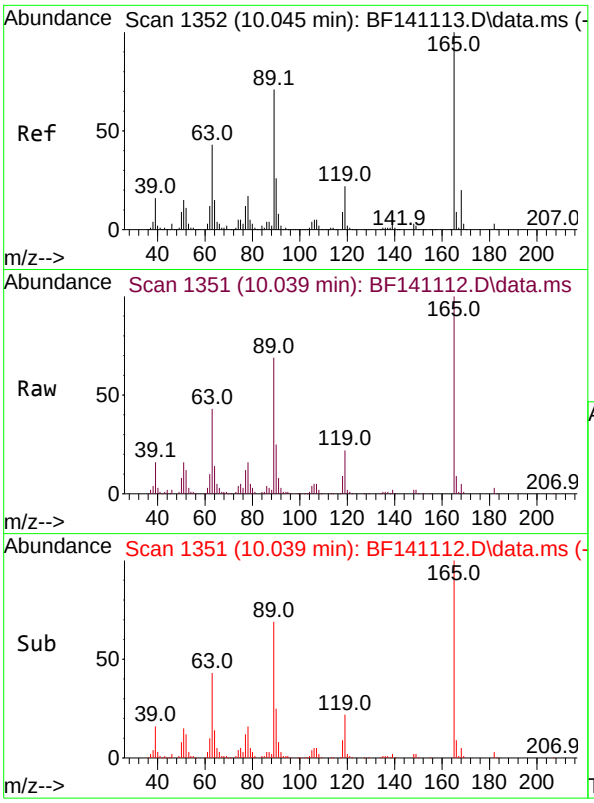


#56
4-Nitrophenol
Concen: 20.509 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.012 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:139 Resp: 87361

Ion	Ratio	Lower	Upper
139	100		
109	71.9	50.2	90.2
65	97.2	72.1	112.1



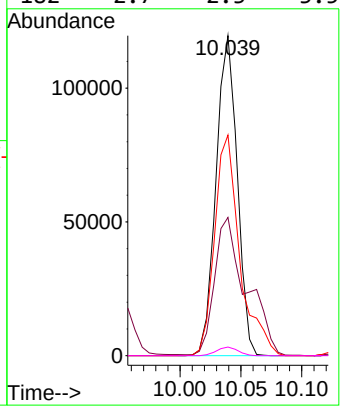


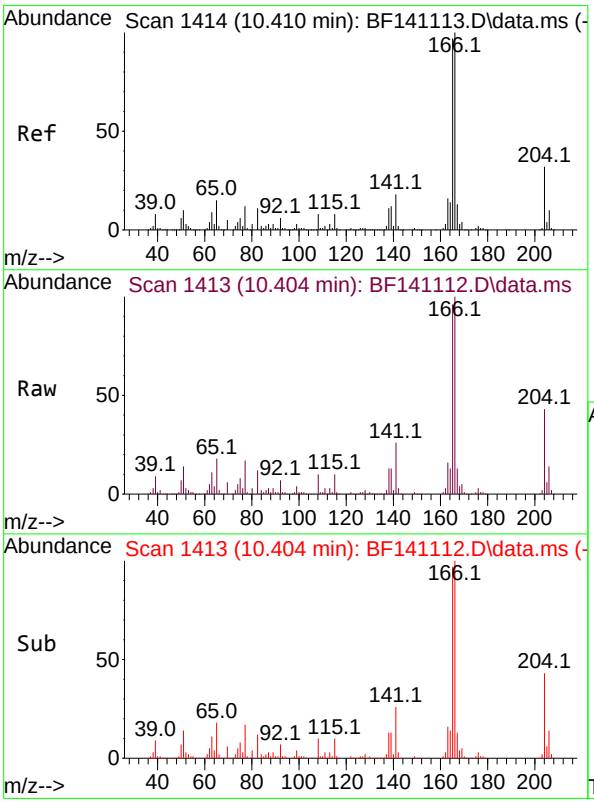
#57
2,4-Dinitrotoluene
Concen: 21.023 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 145002

Ion	Ratio	Lower	Upper
165	100		
63	43.2	35.0	52.4
89	68.9	56.7	85.1
182	2.7	2.3	3.5

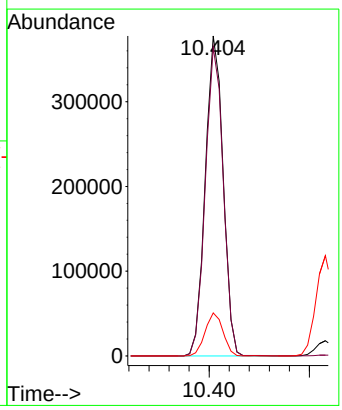


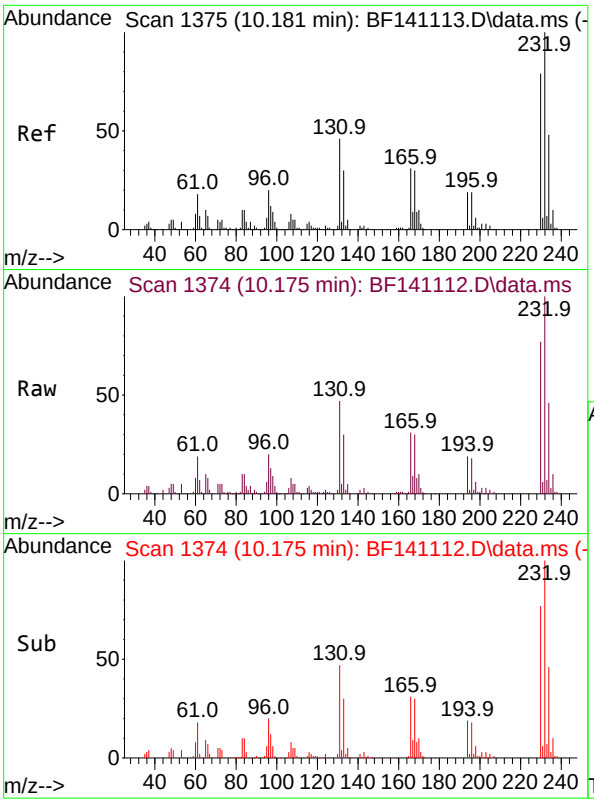


#58
Fluorene
Concen: 21.305 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:166 Resp: 465998

Ion	Ratio	Lower	Upper
166	100		
165	96.5	77.8	116.8
167	13.5	10.8	16.2



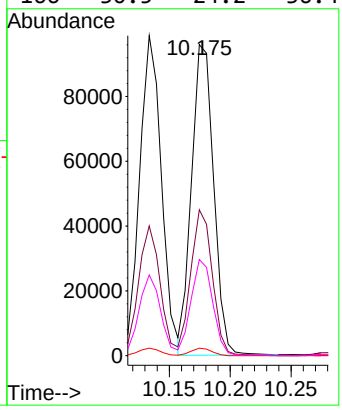


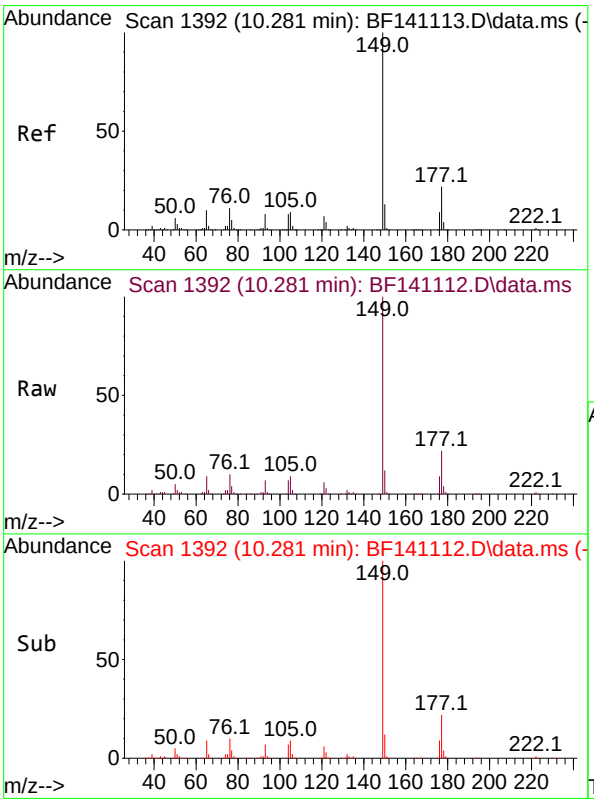
#59
2,3,4,6-Tetrachlorophenol
Concen: 20.823 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 121311

Ion	Ratio	Lower	Upper
232	100		
131	45.8	36.2	54.4
130	2.3	2.0	3.0
166	30.5	24.2	36.4

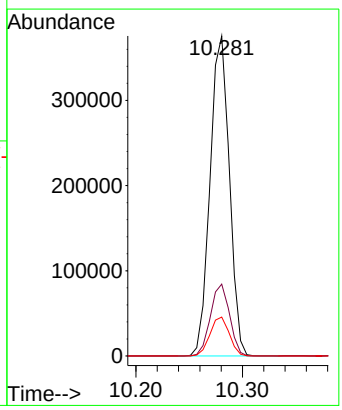


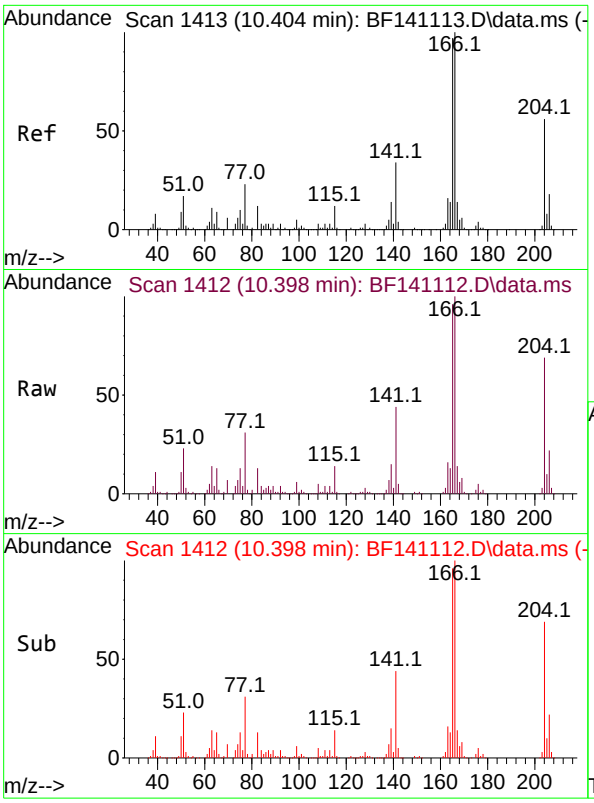


#60
Diethylphthalate
Concen: 21.028 ng
RT: 10.281 min Scan# 1392
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:149 Resp: 472480

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.2	10.2	15.2



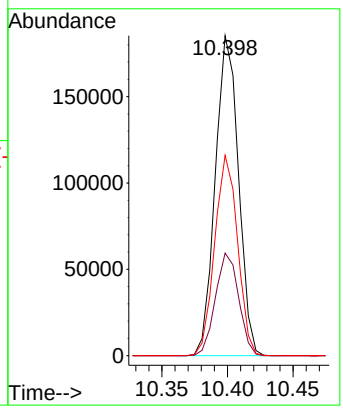


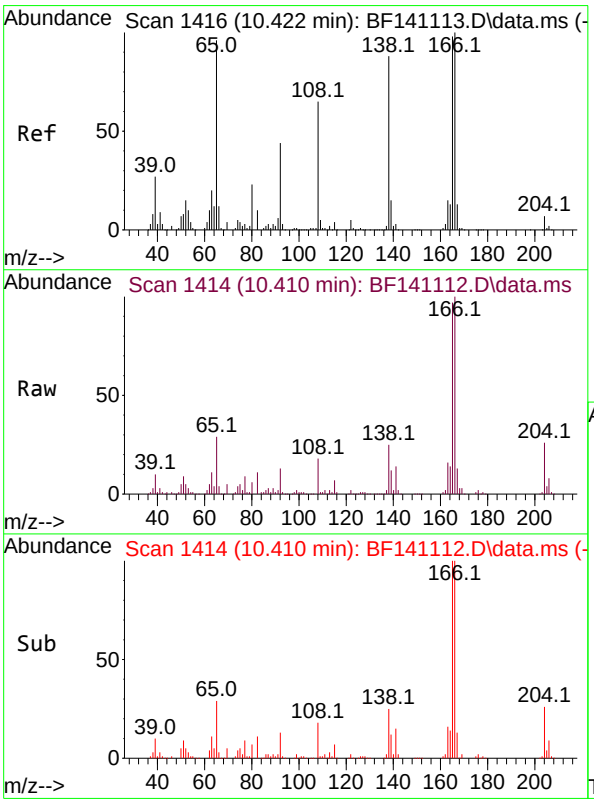
#61
4-Chlorophenyl-phenylether
Concen: 21.317 ng
RT: 10.398 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 227252

Ion	Ratio	Lower	Upper
204	100		
206	32.1	25.9	38.9
141	62.6	49.1	73.7

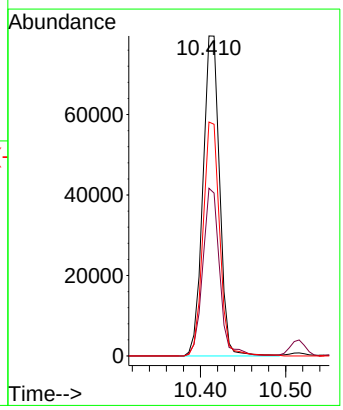


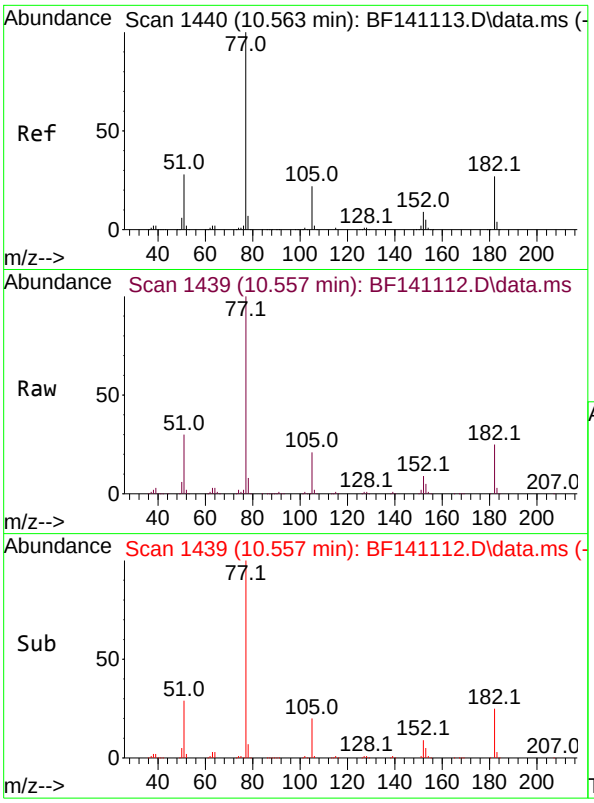


#62
4-Nitroaniline
Concen: 20.305 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.012 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:138 Resp: 108089

Ion	Ratio	Lower	Upper
138	100		
92	52.4	29.4	69.4
108	73.1	53.7	93.7



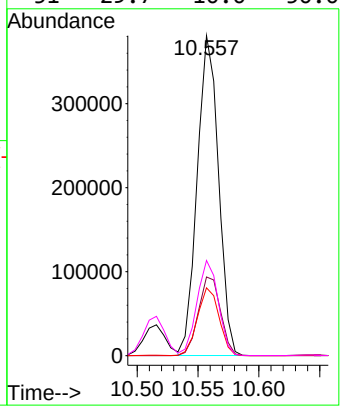


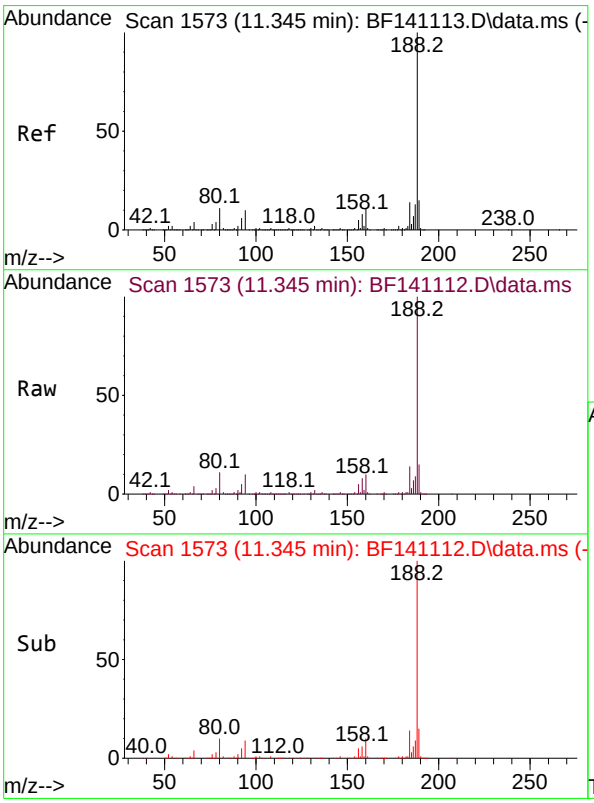
#63
Azobenzene
Concen: 20.915 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 463688

Ion	Ratio	Lower	Upper
77	100		
182	24.6	6.1	46.1
105	21.2	2.1	42.1
51	29.7	10.0	50.0

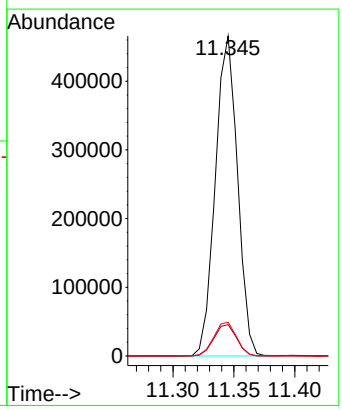


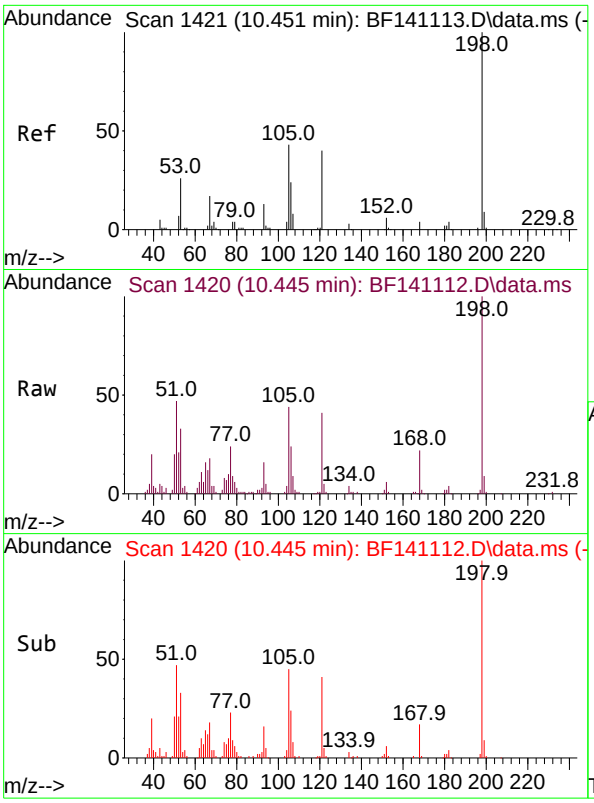


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:188 Resp: 590333

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.3	12.5
80	10.5	9.0	13.4



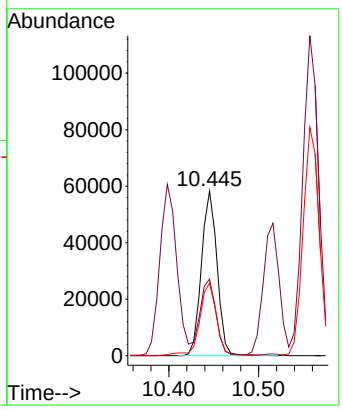


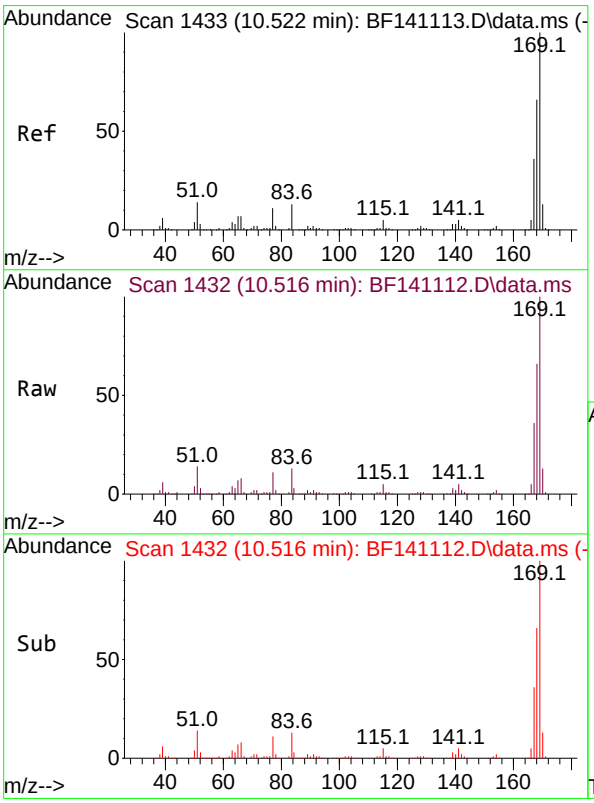
#65
4,6-Dinitro-2-methylphenol
Concen: 20.638 ng
RT: 10.445 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 70598

Ion	Ratio	Lower	Upper
198	100		
51	46.6	27.1	67.1
105	44.1	24.2	64.2

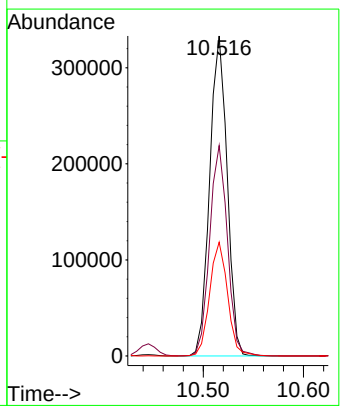


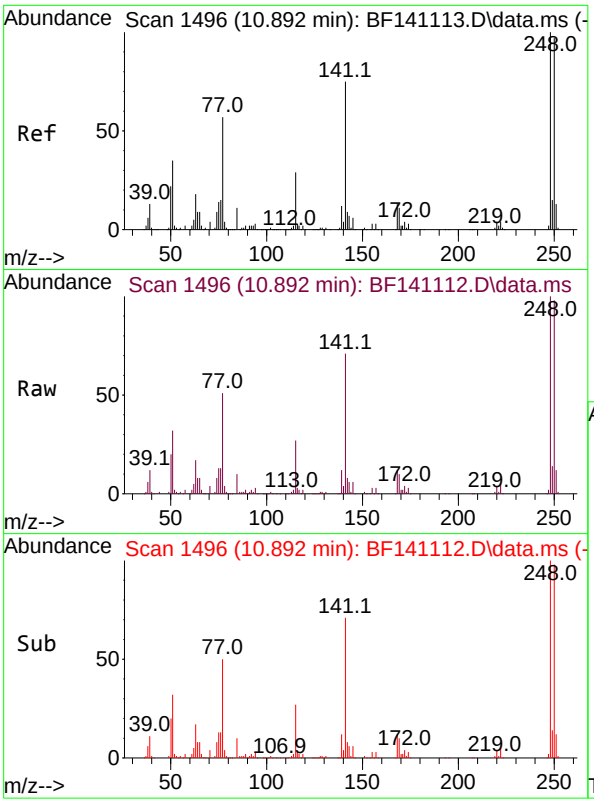


#66
n-Nitrosodiphenylamine
Concen: 21.188 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:169 Resp: 403436

Ion	Ratio	Lower	Upper
169	100		
168	65.8	52.5	78.7
167	35.5	28.9	43.3



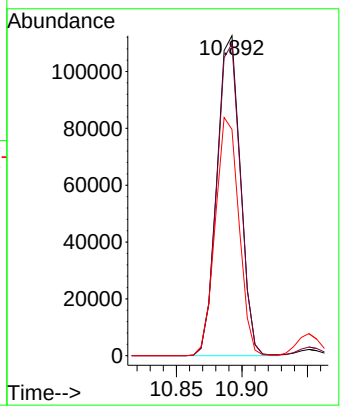


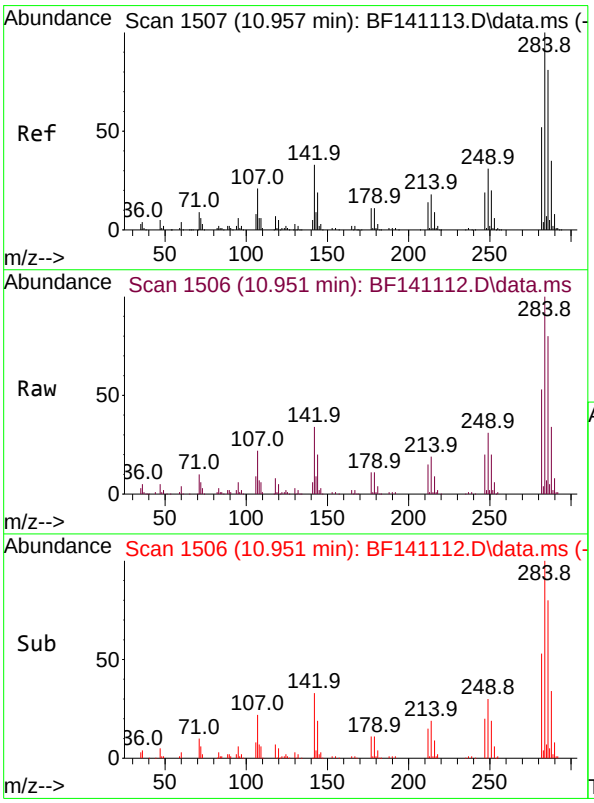
#67
4-Bromophenyl-phenylether
Concen: 20.698 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 140672

Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.9	116.9
141	70.7	59.9	89.9

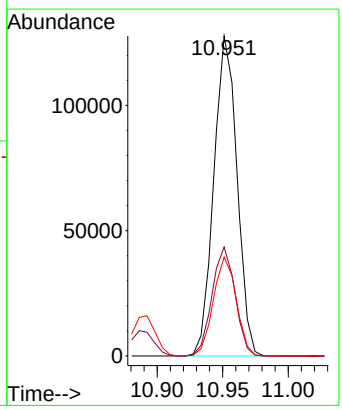


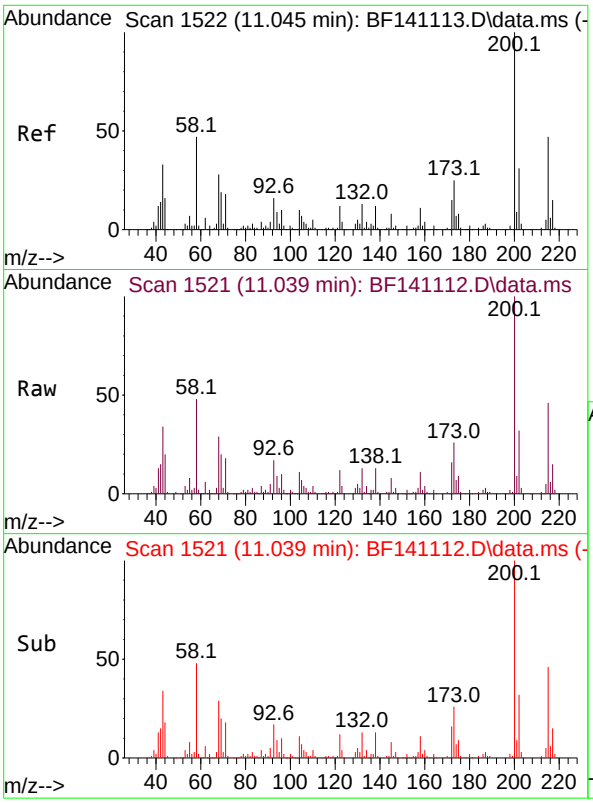


#68
Hexachlorobenzene
Concen: 20.721 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:284 Resp: 156770

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.3	39.5
249	30.9	24.9	37.3



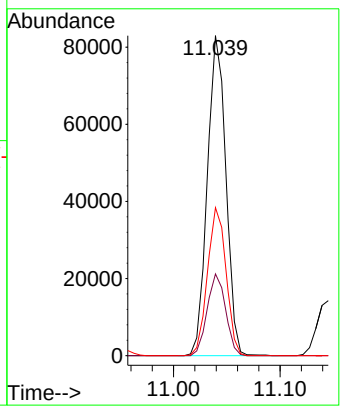


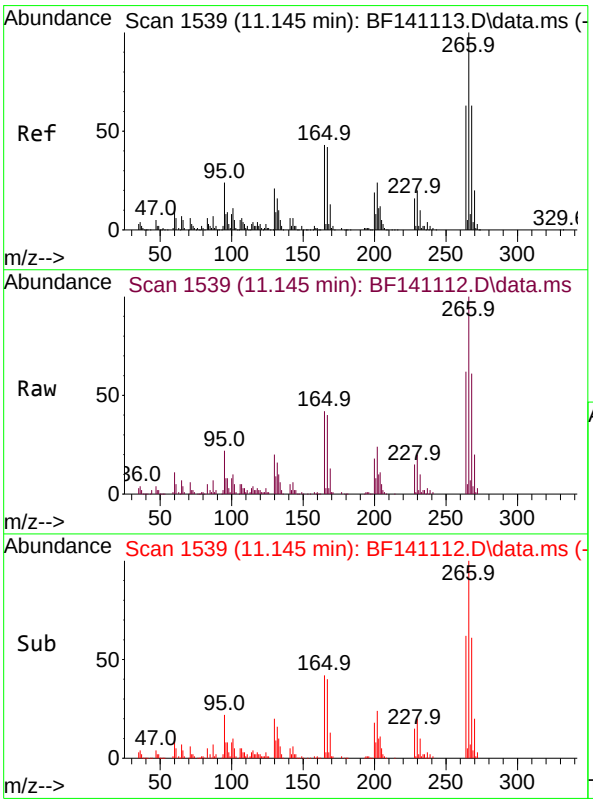
#69
Atrazine
Concen: 19.607 ng
RT: 11.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 100524

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.4	45.4
215	46.2	26.6	66.6

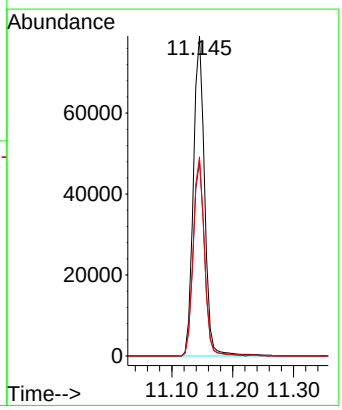


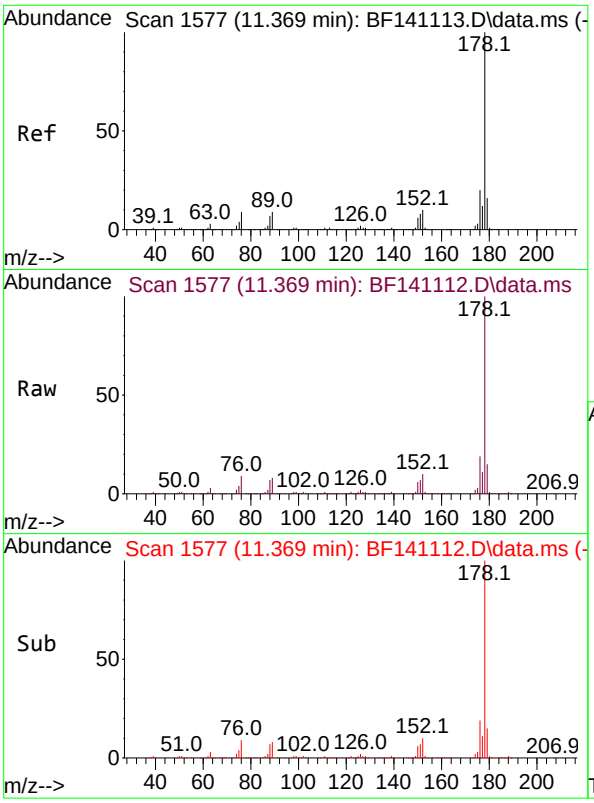


#70
Pentachlorophenol
Concen: 20.837 ng
RT: 11.145 min Scan# 1539
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:266 Resp: 100960

Ion	Ratio	Lower	Upper
266	100		
268	60.8	50.4	75.6
264	62.2	50.2	75.2



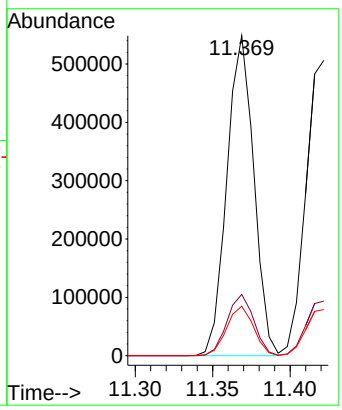


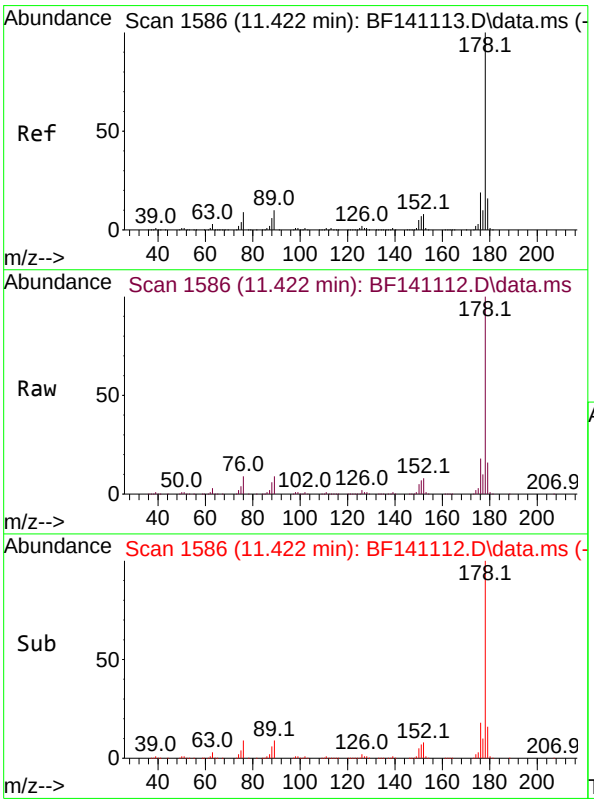
#71
Phenanthrene
Concen: 20.891 ng
RT: 11.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 662092

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.7	23.5
179	15.4	12.6	19.0

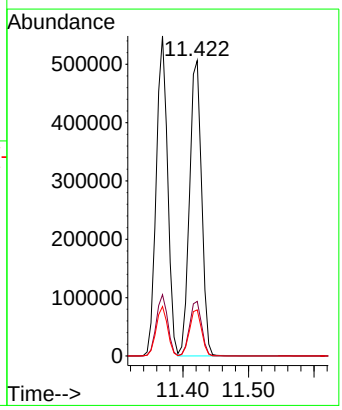


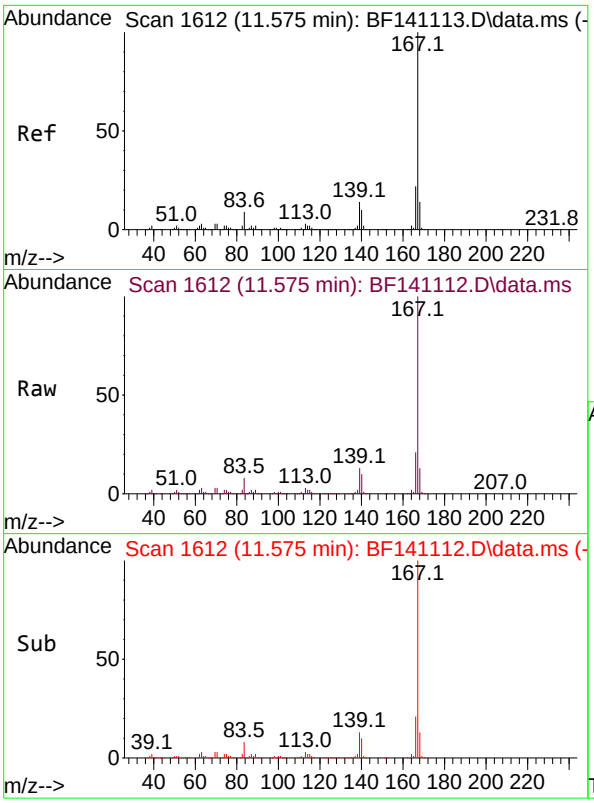


#72
Anthracene
Concen: 20.983 ng
RT: 11.422 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:178 Resp: 646616

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.6	12.6	19.0



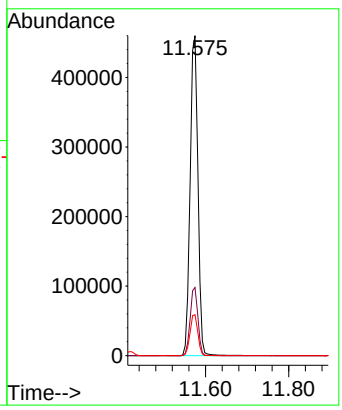


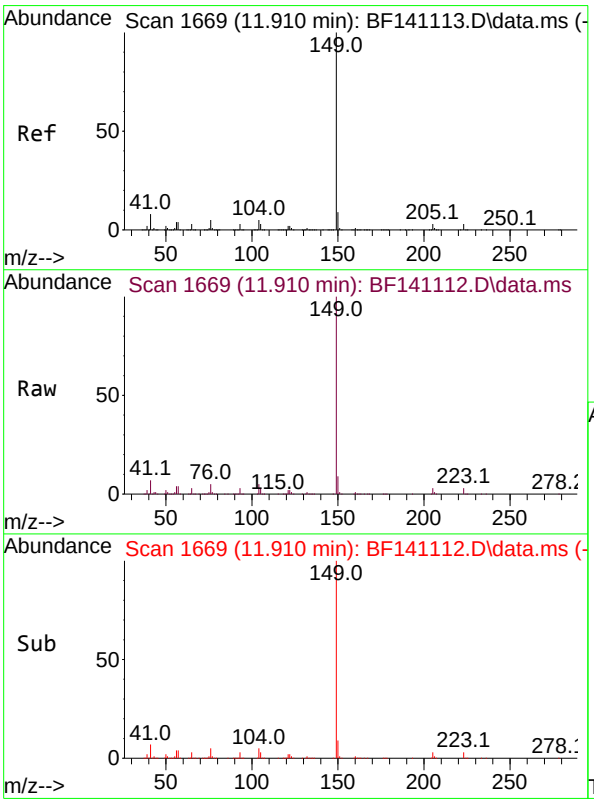
#73
Carbazole
Concen: 21.128 ng
RT: 11.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 597025

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.4	26.2
139	12.8	10.9	16.3

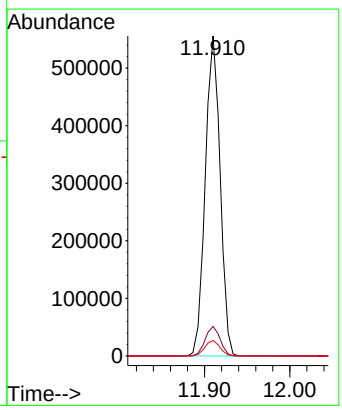


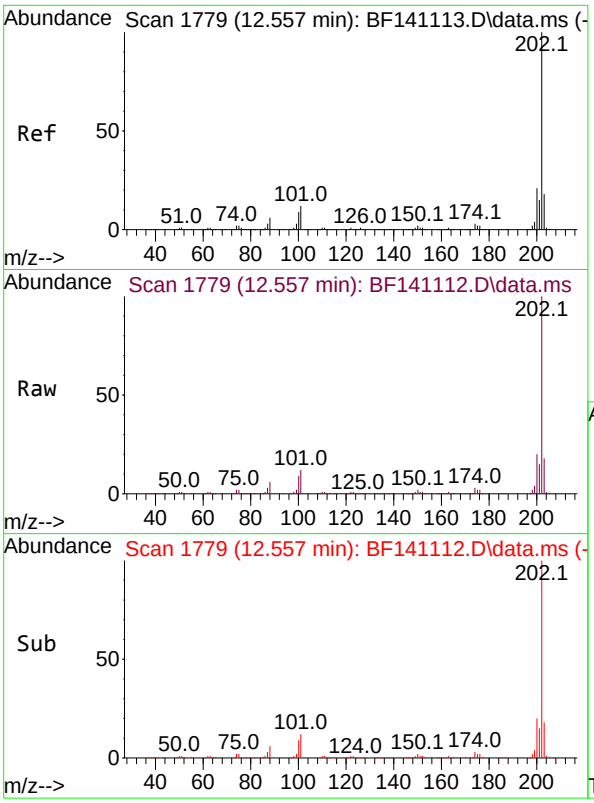


#74
Di-n-butylphthalate
Concen: 20.797 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:149 Resp: 672525

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	4.9	4.2	6.2



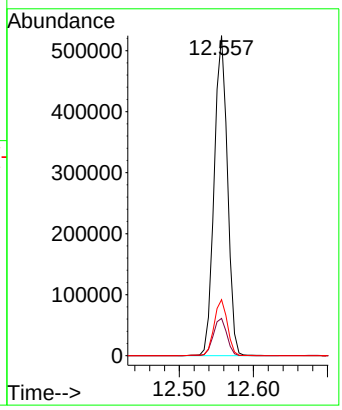


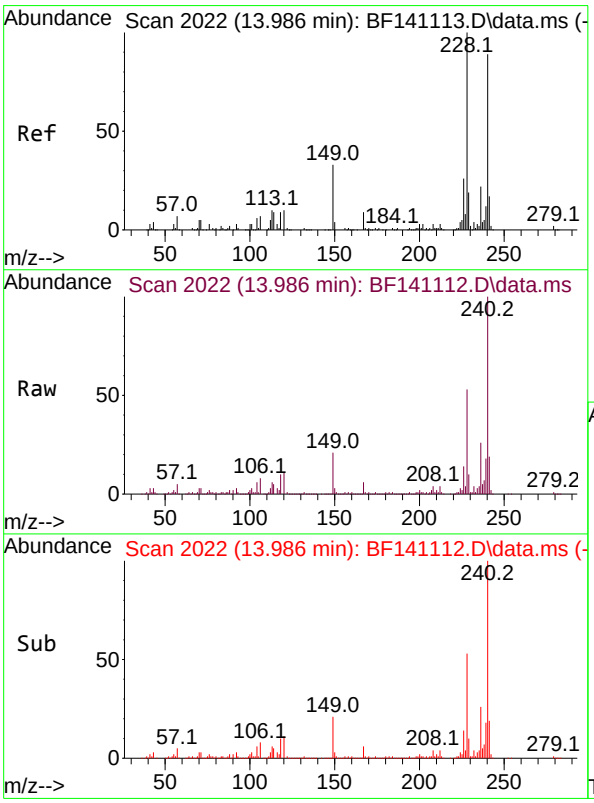
#75
Fluoranthene
Concen: 20.615 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 651977

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.3
203	17.5	0.0	37.7

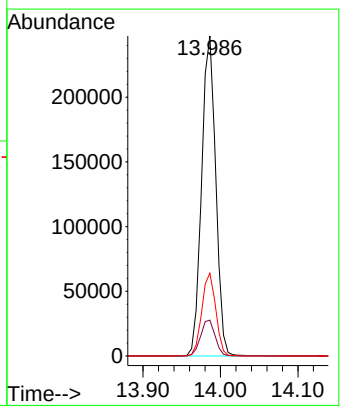


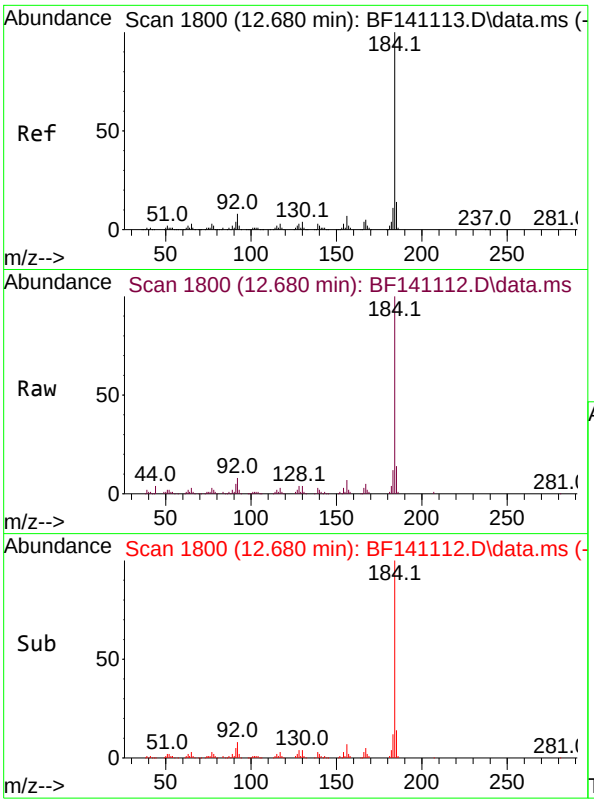


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:240 Resp: 312856

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.1	13.7
236	25.9	19.8	29.6



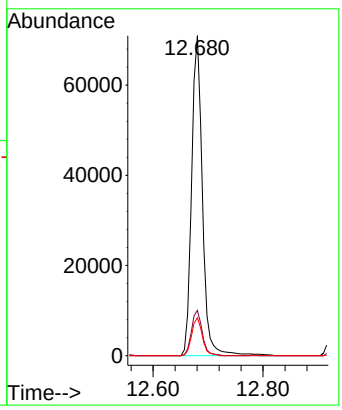


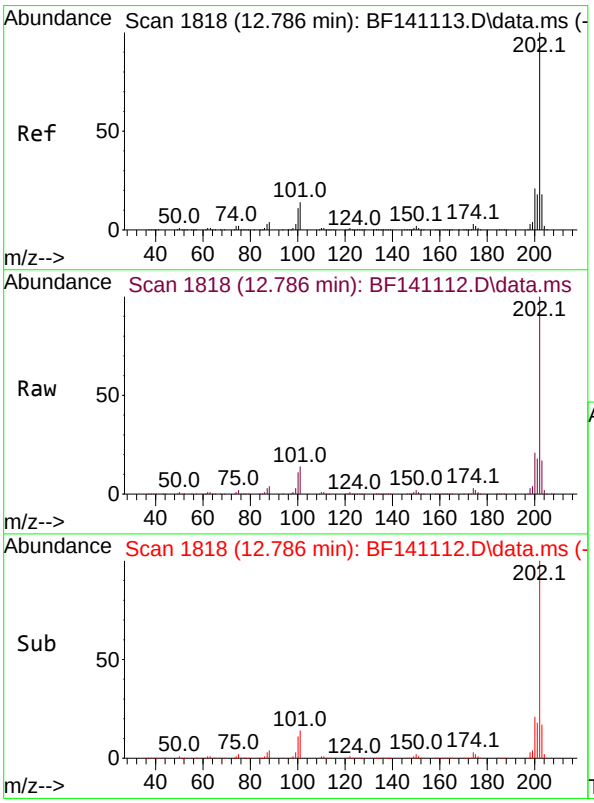
#77
Benzidine
Concen: 16.701 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 96892

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.4	17.0
183	11.8	9.2	13.8

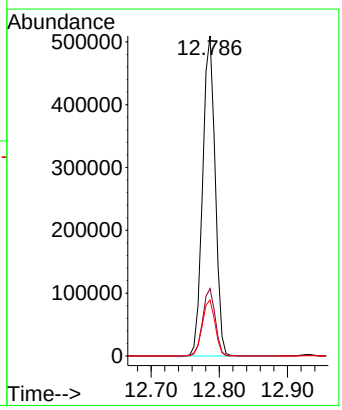


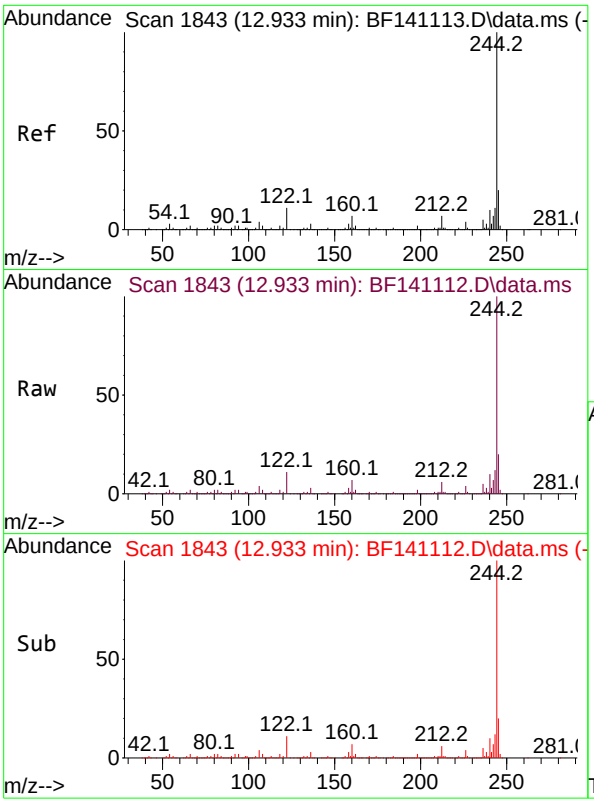


#78
Pyrene
Concen: 21.787 ng
RT: 12.786 min Scan# 1818
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:202 Resp: 651047

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.5	14.3	21.5



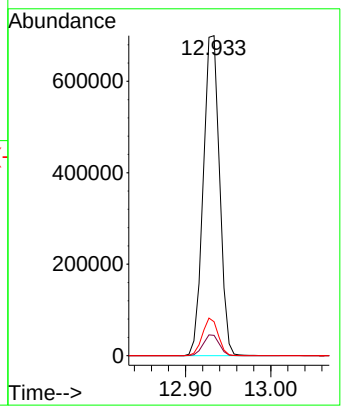


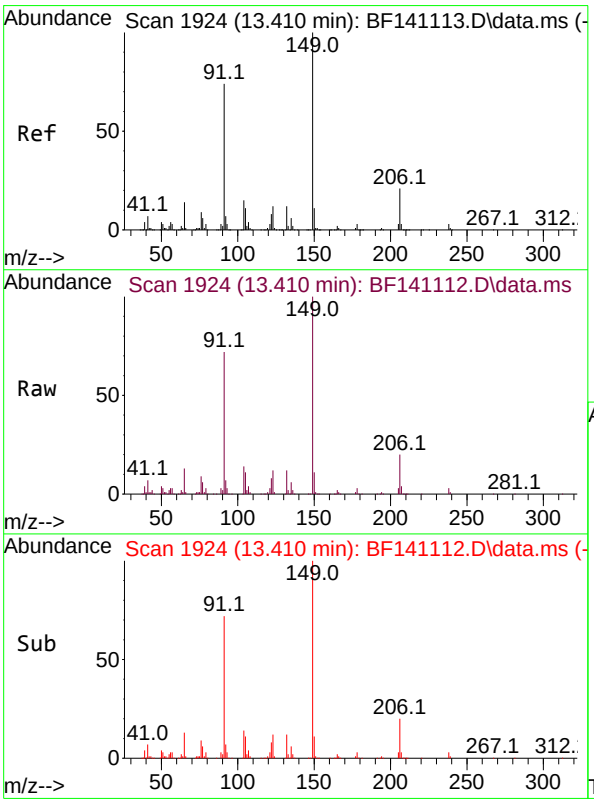
#79
Terphenyl-d14
Concen: 44.086 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 927987

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.2
122	10.6	8.8	13.2

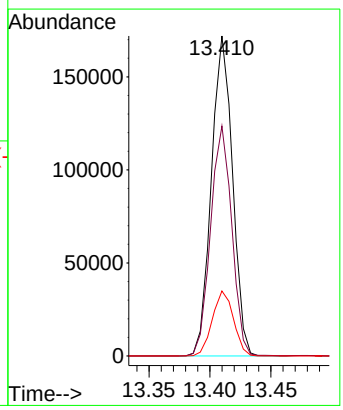


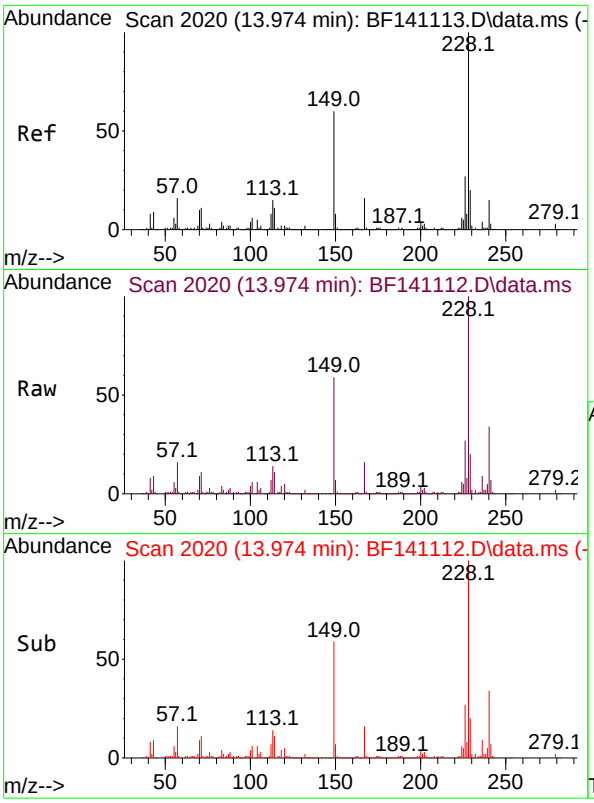


#80
Butylbenzylphthalate
Concen: 20.834 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:149 Resp: 207563

Ion	Ratio	Lower	Upper
149	100		
91	71.9	59.0	88.6
206	20.3	16.5	24.7



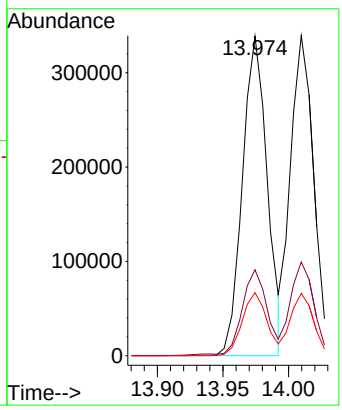


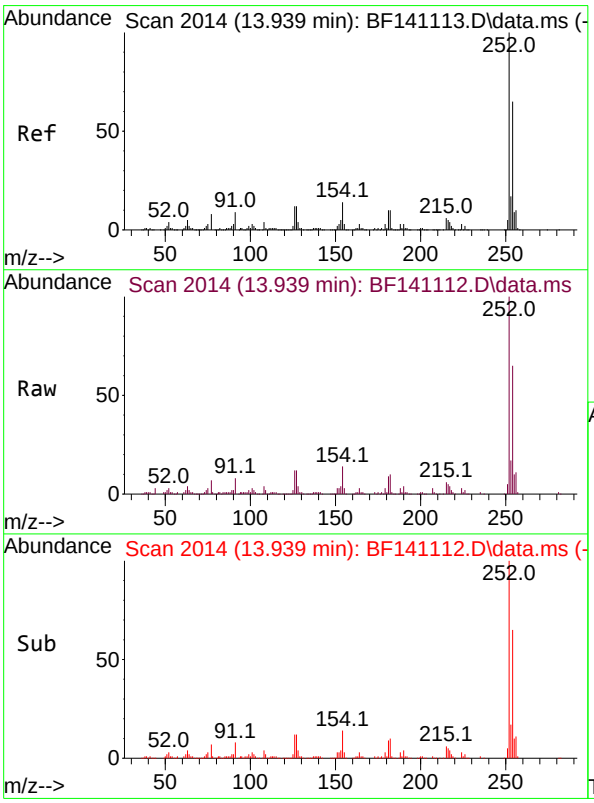
#81
Benzo(a)anthracene
Concen: 20.971 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 446504

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.7	32.5
229	19.7	15.7	23.5

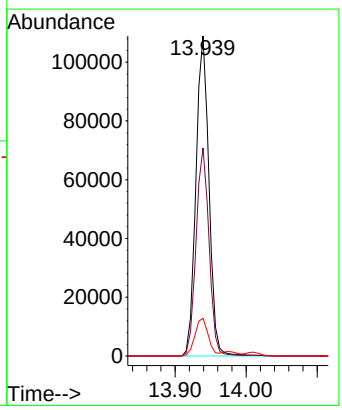


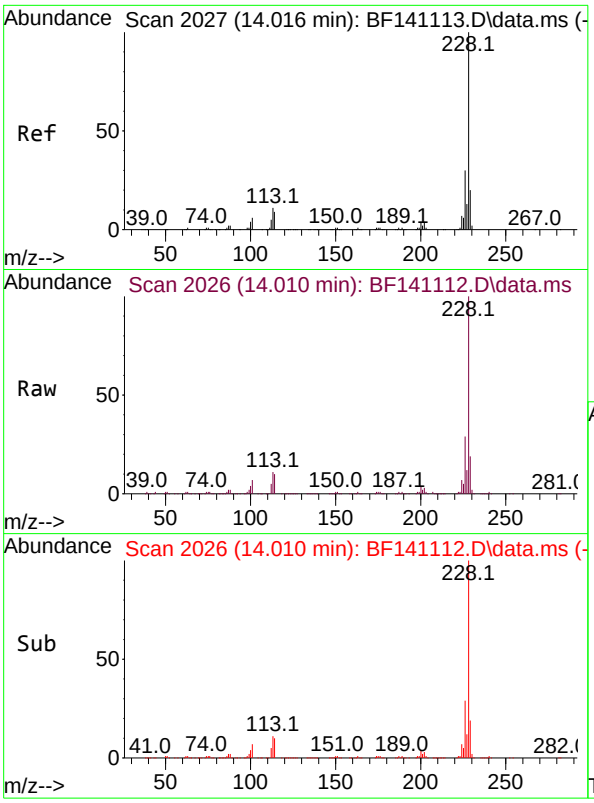


#82
3,3'-Dichlorobenzidine
Concen: 20.510 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:252 Resp: 139050

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.0	78.0
126	11.7	9.4	14.0



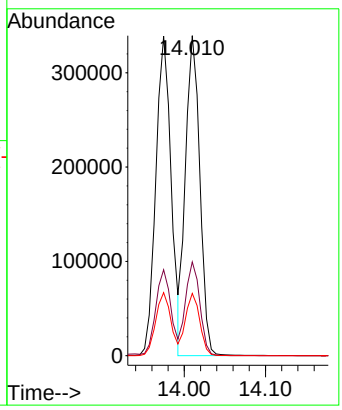


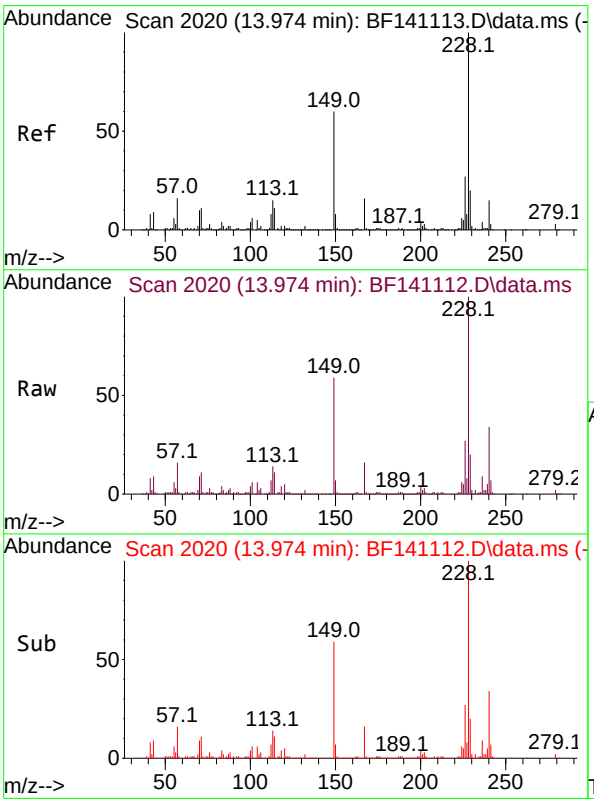
#83
Chrysene
Concen: 20.975 ng
RT: 14.010 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 417881

Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.8	35.8
229	19.4	15.8	23.8

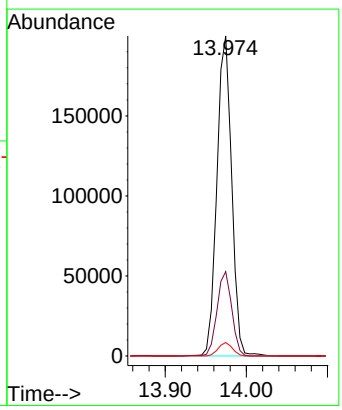


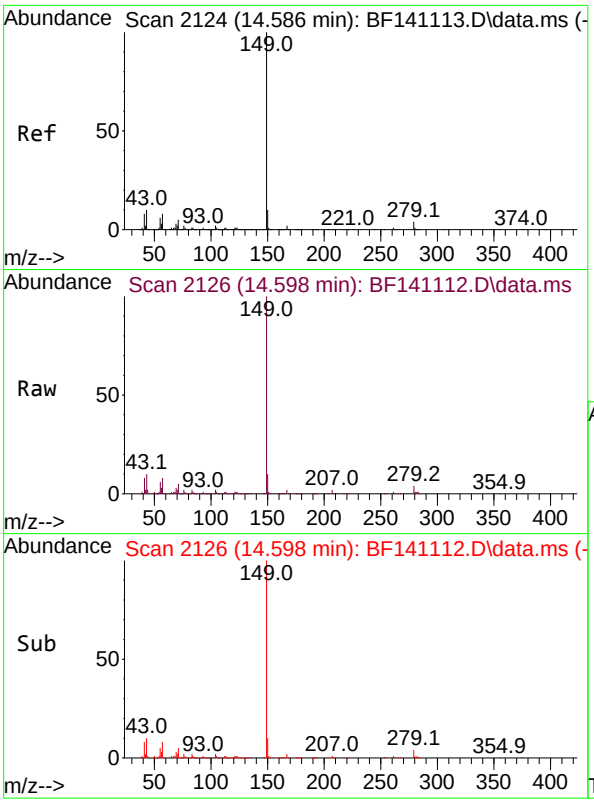


#84
Bis(2-ethylhexyl)phthalate
Concen: 21.114 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:149 Resp: 252397

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.2
279	4.2	3.4	5.2



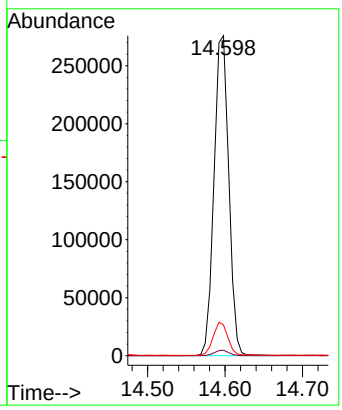


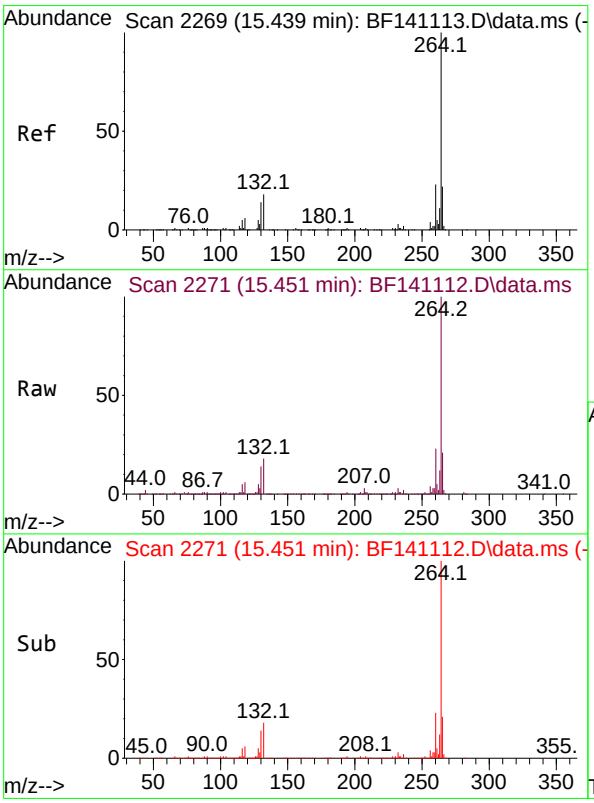
#85
Di-n-octyl phthalate
Concen: 20.253 ng
RT: 14.598 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 365598

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.3	8.4	12.6

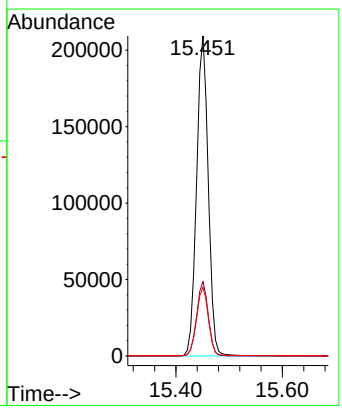


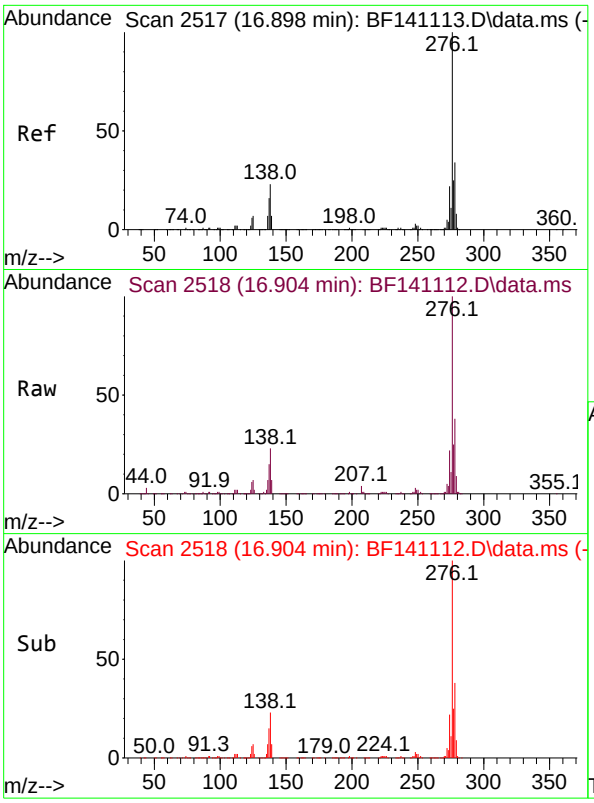


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:264 Resp: 318548

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.4	17.4	26.0



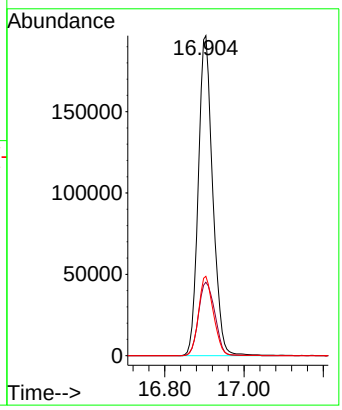


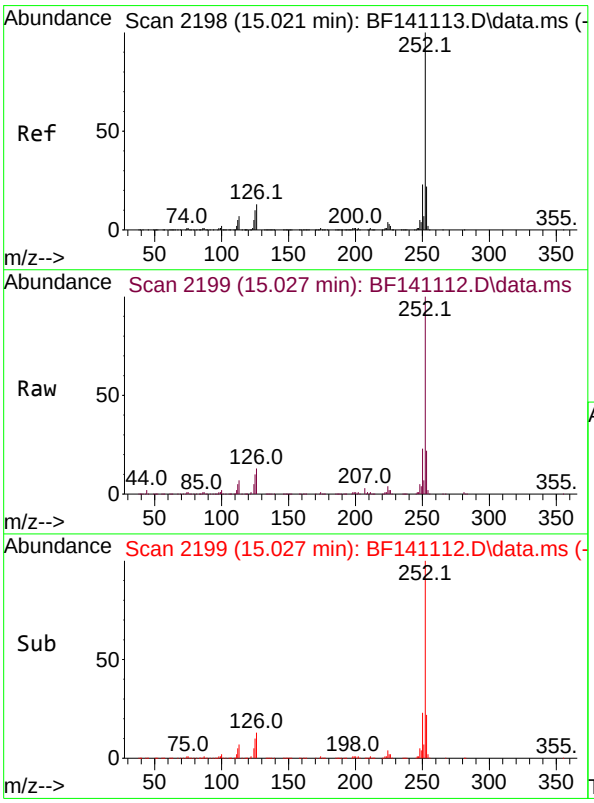
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.272 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 496449

Ion	Ratio	Lower	Upper
276	100		
138	26.0	20.7	31.1
277	25.6	20.6	30.8

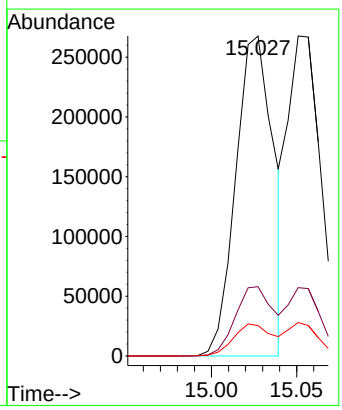


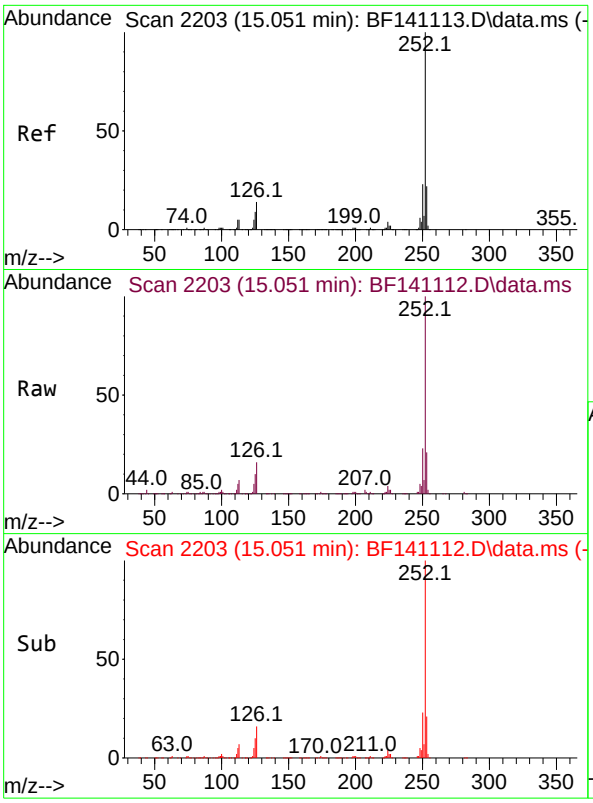


#88
Benzo(b)fluoranthene
Concen: 20.000 ng
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:252 Resp: 410817

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	9.5	8.1	12.1



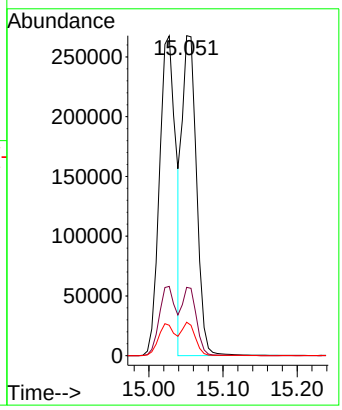


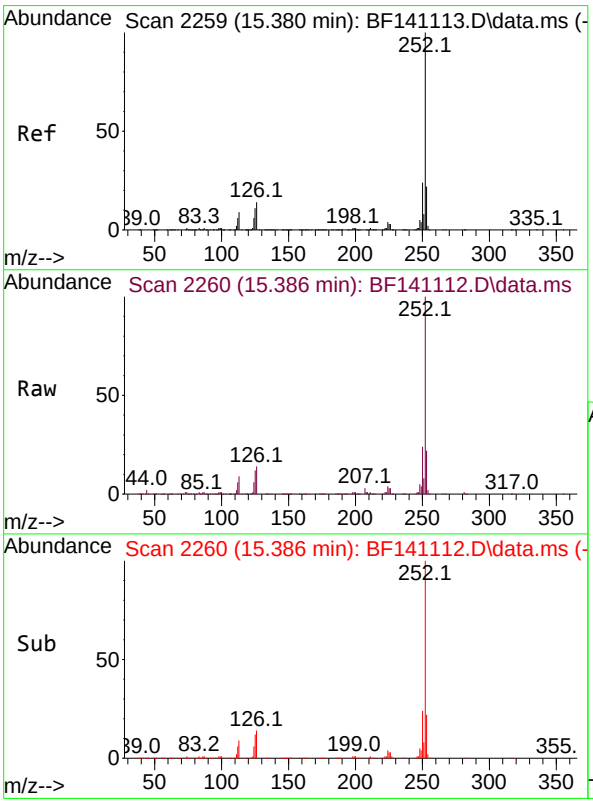
#89
Benzo(k)fluoranthene
Concen: 20.939 ng
RT: 15.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 363482

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.8	26.8
125	10.4	7.9	11.9

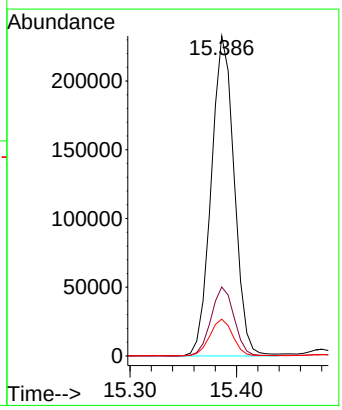


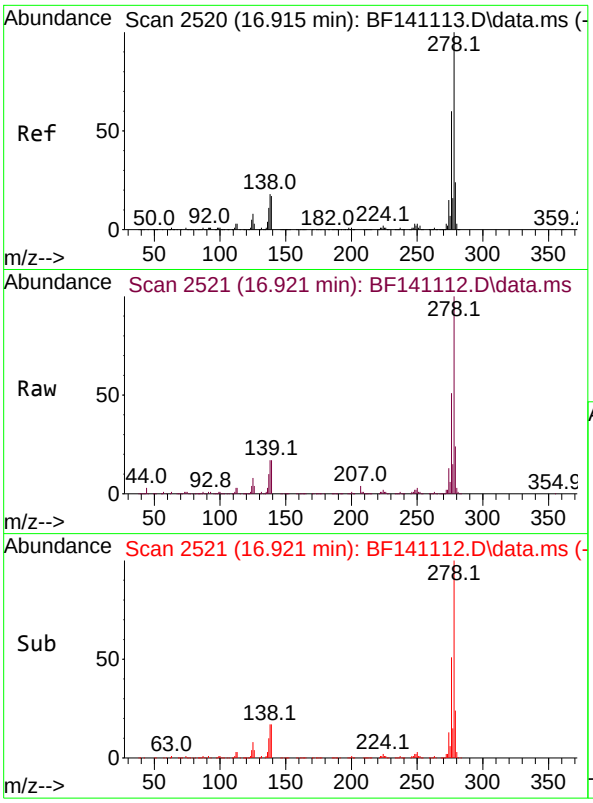


#90
Benzo(a)pyrene
Concen: 20.586 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:252 Resp: 348882

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.7	26.5
125	11.5	9.1	13.7



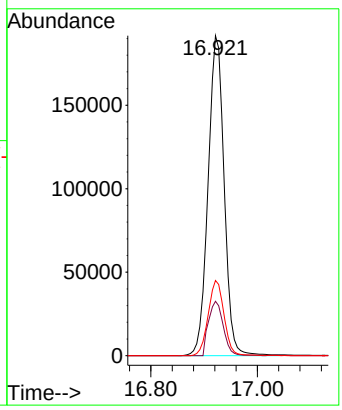


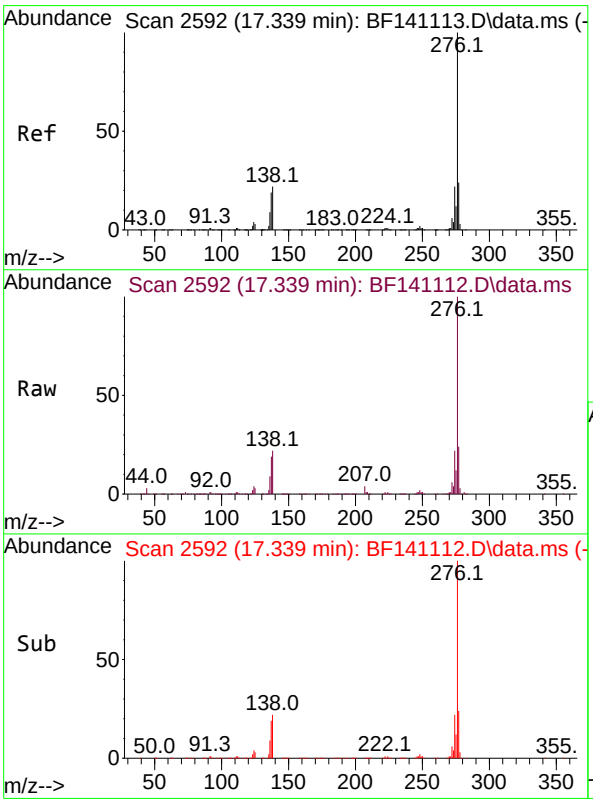
#91
Dibenzo(a,h)anthracene
Concen: 21.291 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 401882

Ion	Ratio	Lower	Upper
278	100		
139	17.0	13.8	20.6
279	23.5	19.1	28.7

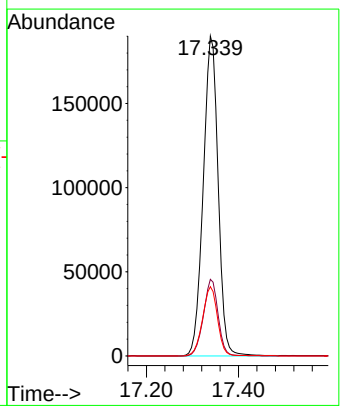




#92
Benzo(g,h,i)perylene
Concen: 21.863 ng
RT: 17.339 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BF141112.D
Acq: 10 Jan 2025 14:10

Tgt Ion:276 Resp: 429242

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	21.7	17.4	26.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141113.D
Acq On : 10 Jan 2025 14:36
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 10 22:20:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	178652	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	695197	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	363903	20.000	ng	0.00
64) Phenanthrene-d10	11.345	188	589244	20.000	ng	0.00
76) Chrysene-d12	13.986	240	328095	20.000	ng	0.00
86) Perylene-d12	15.439	264	356368	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	891763	77.111	ng	0.00
7) Phenol-d6	6.445	99	1118731	76.368	ng	0.00
23) Nitrobenzene-d5	7.387	82	1015102	77.401	ng	0.00
42) 2,4,6-Tribromophenol	10.651	330	318067	76.709	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	1782936	74.817	ng	0.00
79) Terphenyl-d14	12.933	244	1669190	75.616	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.540	88	201329	39.093	ng	100
3) Pyridine	3.281	79	486021	38.485	ng	100
4) n-Nitrosodimethylamine	3.228	42	242419	39.258	ng	100
6) Aniline	6.487	93	508897	39.127	ng	100
8) 2-Chlorophenol	6.604	128	480497	38.726	ng	100
9) Benzaldehyde	6.369	77	303180	37.048	ng	100
10) Phenol	6.463	94	607714	38.754	ng	100
11) bis(2-Chloroethyl)ether	6.557	93	448899	38.412	ng	100
12) 1,3-Dichlorobenzene	6.763	146	527365	38.109	ng	100
13) 1,4-Dichlorobenzene	6.840	146	534324	38.317	ng	100
14) 1,2-Dichlorobenzene	6.992	146	493883	37.968	ng	100
15) Benzyl Alcohol	6.963	79	413856	39.120	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.098	45	630969	38.691	ng	100
17) 2-Methylphenol	7.069	107	388877	38.821	ng	100
18) Hexachloroethane	7.334	117	195745	38.816	ng	100
19) n-Nitroso-di-n-propyla...	7.234	70	323787	37.522	ng	100
20) 3+4-Methylphenols	7.222	107	491194	38.868	ng	100
22) Acetophenone	7.234	105	618403	37.419	ng	100
24) Nitrobenzene	7.404	77	524255	38.355	ng	100
25) Isophorone	7.640	82	857957	38.280	ng	100
26) 2-Nitrophenol	7.722	139	247962	39.881	ng	100
27) 2,4-Dimethylphenol	7.751	122	328632	39.185	ng	100
28) bis(2-Chloroethoxy)met...	7.851	93	537705	38.228	ng	100
29) 2,4-Dichlorophenol	7.957	162	385578	38.711	ng	100
30) 1,2,4-Trichlorobenzene	8.045	180	435914	38.288	ng	100
31) Naphthalene	8.128	128	1388249	37.866	ng	100
32) Benzoic acid	7.857	122	330807	41.119	ng	100
33) 4-Chloroaniline	8.175	127	479132	37.789	ng	100
34) Hexachlorobutadiene	8.245	225	261671	38.143	ng	100
35) Caprolactam	8.545	113	126481	38.712	ng	100
36) 4-Chloro-3-methylphenol	8.651	107	420106	38.566	ng	100
37) 2-Methylnaphthalene	8.816	142	887132	37.973	ng	100
38) 1-Methylnaphthalene	8.916	142	868573	37.724	ng	100
40) 1,2,4,5-Tetrachloroben...	8.981	216	403442	38.626	ng	100
41) Hexachlorocyclopentadiene	8.969	237	145258	42.508	ng	100
43) 2,4,6-Trichlorophenol	9.092	196	276355	39.231	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141113.D
Acq On : 10 Jan 2025 14:36
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 10 22:20:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

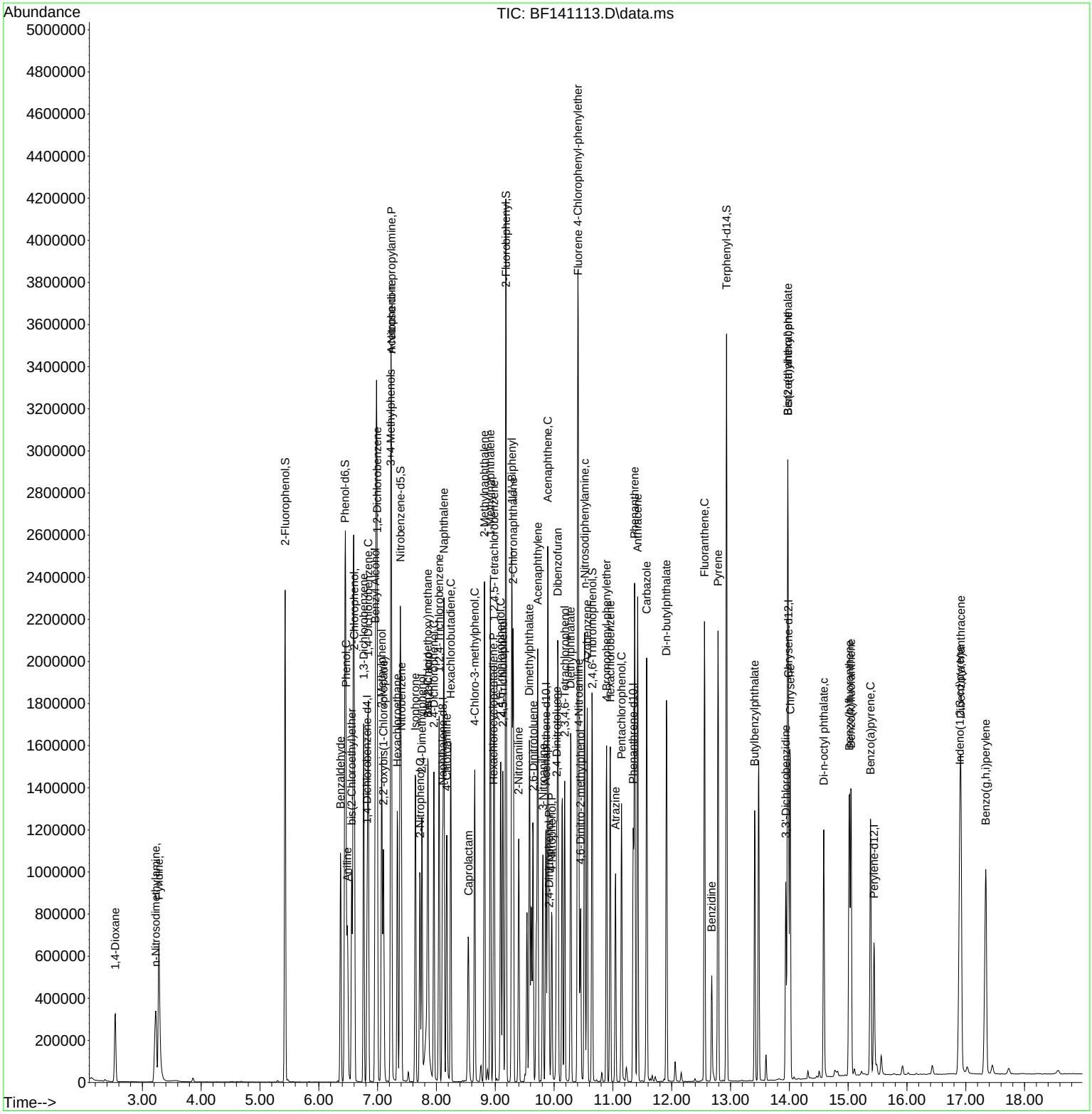
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.128	196	291660	39.203	ng	100
46) 1,1'-Biphenyl	9.281	154	1084649	38.380	ng	100
47) 2-Chloronaphthalene	9.304	162	847410	38.499	ng	100
48) 2-Nitroaniline	9.398	65	255218	39.114	ng	100
49) Acenaphthylene	9.722	152	1207984	38.412	ng	100
50) Dimethylphthalate	9.581	163	945319	38.695	ng	100
51) 2,6-Dinitrotoluene	9.645	165	226979	39.953	ng	100
52) Acenaphthene	9.892	154	847617	38.579	ng	100
53) 3-Nitroaniline	9.810	138	229868	39.816	ng	100
54) 2,4-Dinitrophenol	9.916	184	113135	41.896	ng	100
55) Dibenzofuran	10.063	168	1154072	38.617	ng	100
56) 4-Nitrophenol	9.963	139	181889	40.228	ng	100
57) 2,4-Dinitrotoluene	10.045	165	287835	39.314	ng	100
58) Fluorene	10.410	166	870839	37.508	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.181	232	241313	39.022	ng	100
60) Diethylphthalate	10.281	149	912032	38.240	ng	100
61) 4-Chlorophenyl-phenyle...	10.404	204	431993	38.175	ng	100
62) 4-Nitroaniline	10.422	138	218358	38.644	ng	100
63) Azobenzene	10.563	77	905963	38.497	ng	100
65) 4,6-Dinitro-2-methylph...	10.451	198	152510	44.665	ng	100
66) n-Nitrosodiphenylamine	10.522	169	766755	40.343	ng	100
67) 4-Bromophenyl-phenylether	10.892	248	273038	40.247	ng	100
68) Hexachlorobenzene	10.957	284	303316	40.165	ng	100
69) Atrazine	11.045	200	166125	32.462	ng	100
70) Pentachlorophenol	11.145	266	204286	42.241	ng	100
71) Phenanthrene	11.369	178	1254420	39.653	ng	100
72) Anthracene	11.422	178	1227926	39.920	ng	100
73) Carbazole	11.575	167	1112672	39.450	ng	100
74) Di-n-butylphthalate	11.910	149	1280428	39.669	ng	100
75) Fluoranthene	12.557	202	1222253	38.718	ng	100
77) Benzidine	12.680	184	268331	44.102	ng	100
78) Pyrene	12.786	202	1212637	38.696	ng	100
80) Butylbenzylphthalate	13.410	149	403087	38.580	ng	100
81) Benzo(a)anthracene	13.974	228	817209	36.599	ng	100
82) 3,3'-Dichlorobenzidine	13.939	252	274265	38.575	ng	100
83) Chrysene	14.016	228	791711	37.894	ng	100
84) Bis(2-ethylhexyl)phtha...	13.974	149	476500	38.010	ng	100
85) Di-n-octyl phthalate	14.586	149	755449	39.906	ng	100
87) Indeno(1,2,3-cd)pyrene	16.898	276	1049124	40.183	ng	100
88) Benzo(b)fluoranthene	15.021	252	855723	37.238	ng	100
89) Benzo(k)fluoranthene	15.051	252	743248	38.272	ng	100
90) Benzo(a)pyrene	15.380	252	740229	39.043	ng	100
91) Dibenzo(a,h)anthracene	16.915	278	852935	40.391	ng	100
92) Benzo(g,h,i)perylene	17.339	276	900014	40.976	ng	100

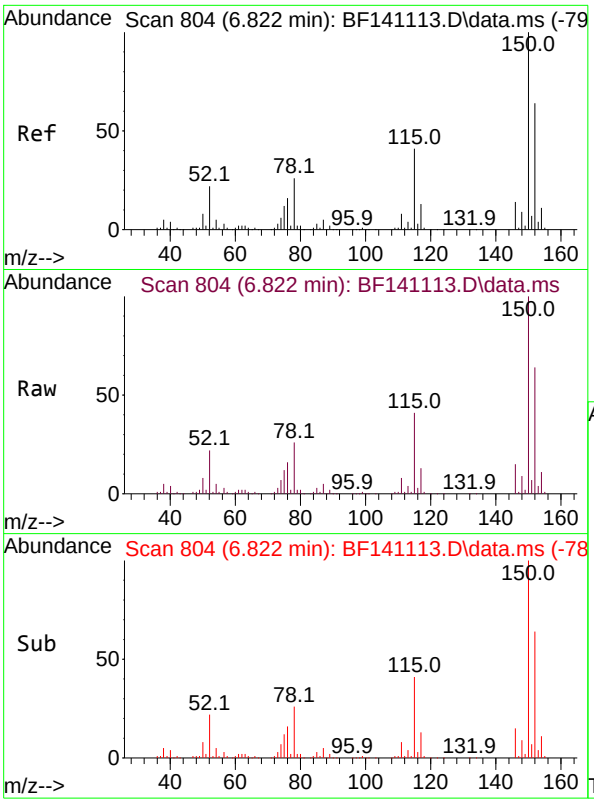
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141113.D
Acq On : 10 Jan 2025 14:36
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 10 22:20:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



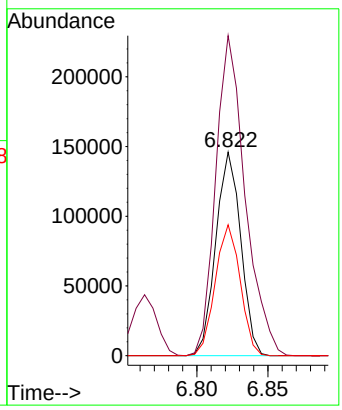


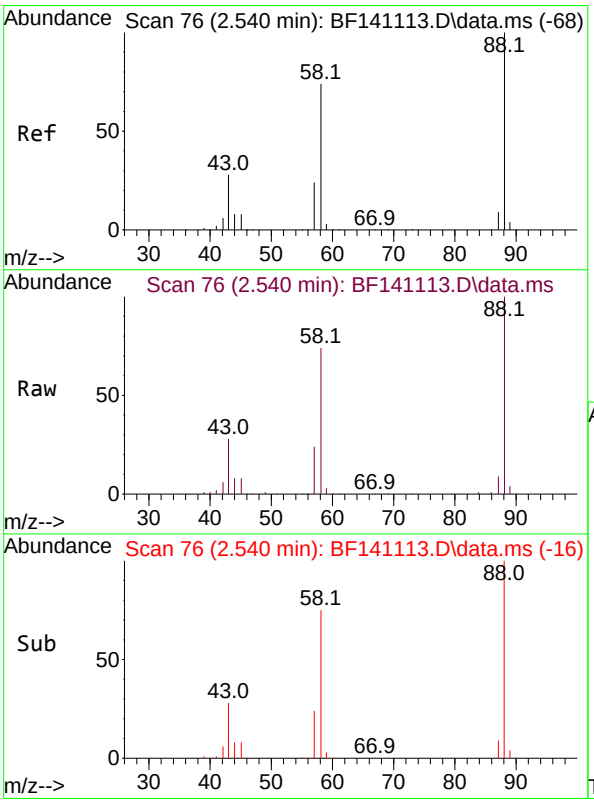
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 178652

Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.8	188.8
115	64.3	51.4	77.2

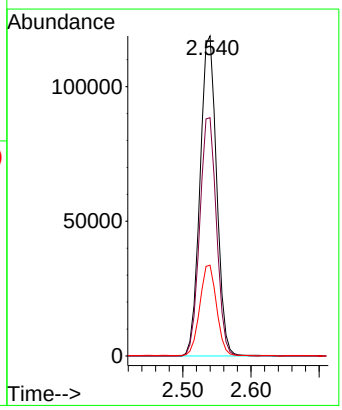


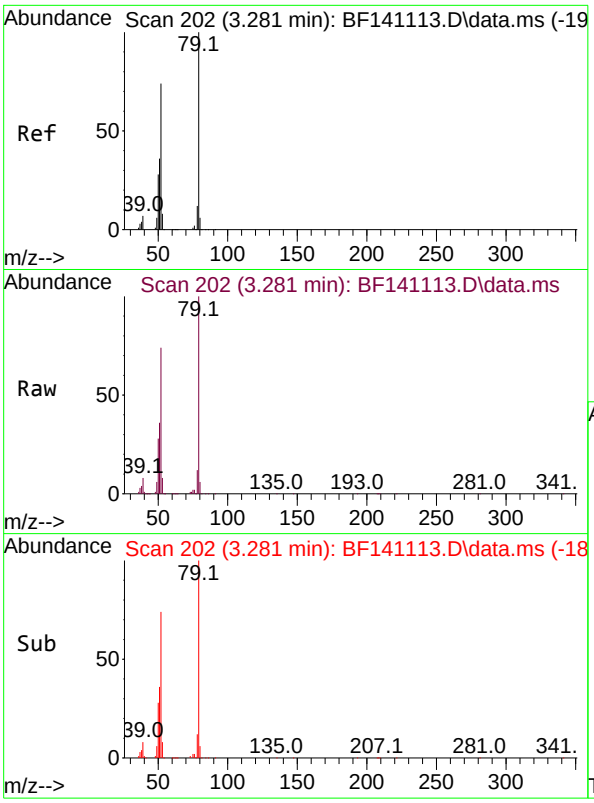


#2
1,4-Dioxane
Concen: 39.093 ng
RT: 2.540 min Scan# 76
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 88 Resp: 201329

Ion	Ratio	Lower	Upper
88	100		
58	75.1	60.1	90.1
43	28.9	23.1	34.7



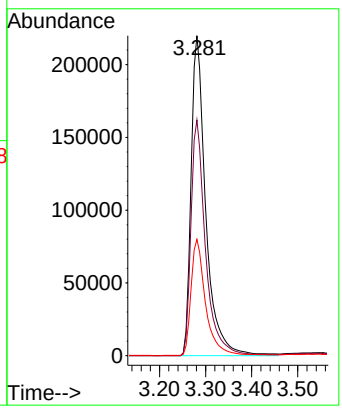


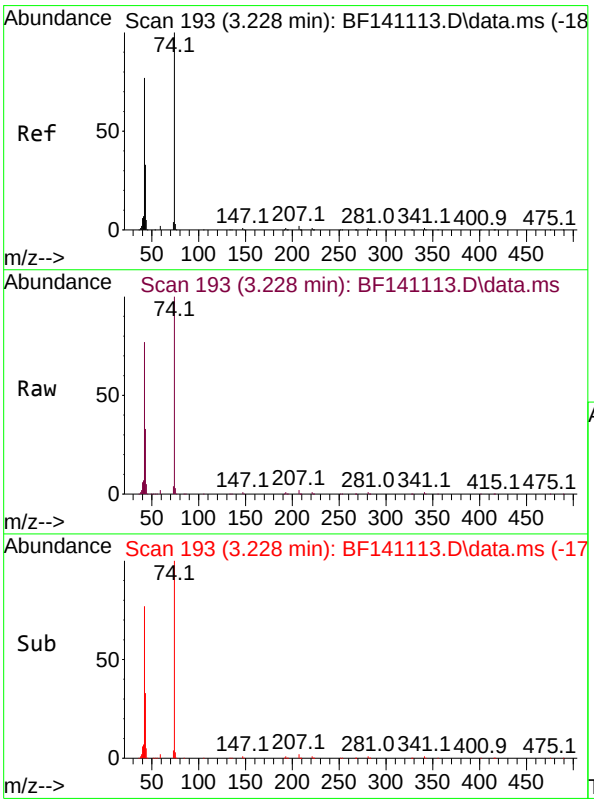
#3
Pyridine
Concen: 38.485 ng
RT: 3.281 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 486021

Ion	Ratio	Lower	Upper
79	100		
52	73.6	58.9	88.3
51	36.4	29.1	43.7

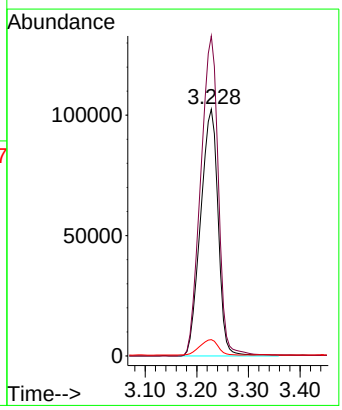


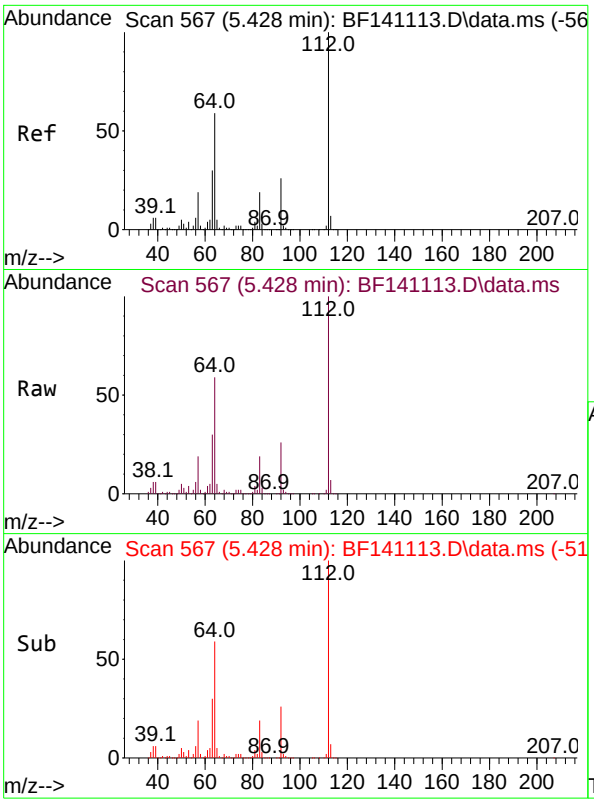


#4
n-Nitrosodimethylamine
Concen: 39.258 ng
RT: 3.228 min Scan# 193
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 42 Resp: 242419

Ion	Ratio	Lower	Upper
42	100		
74	129.7	103.8	155.6
44	6.6	5.3	7.9



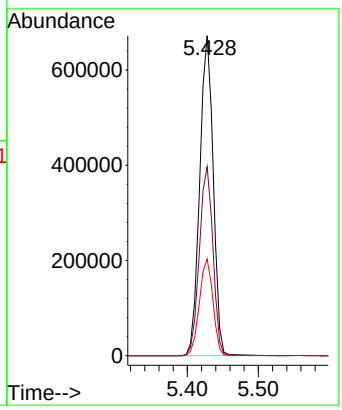


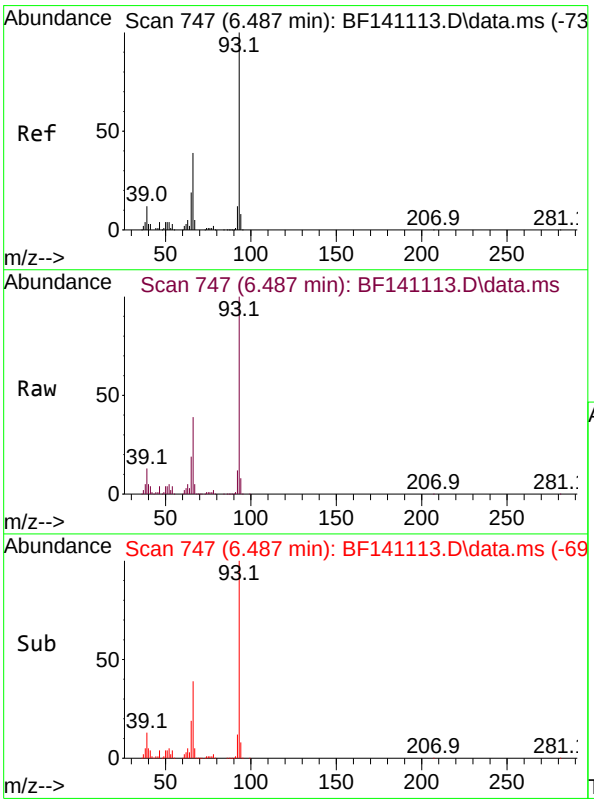
#5
2-Fluorophenol
Concen: 77.111 ng
RT: 5.428 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 891763

Ion	Ratio	Lower	Upper
112	100		
64	59.1	47.3	70.9
63	30.2	24.2	36.2

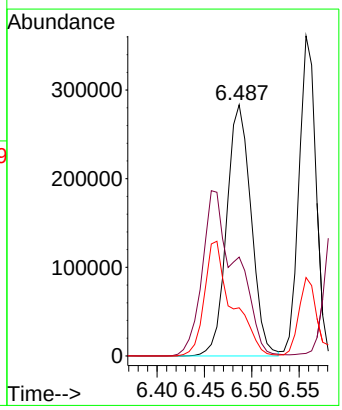


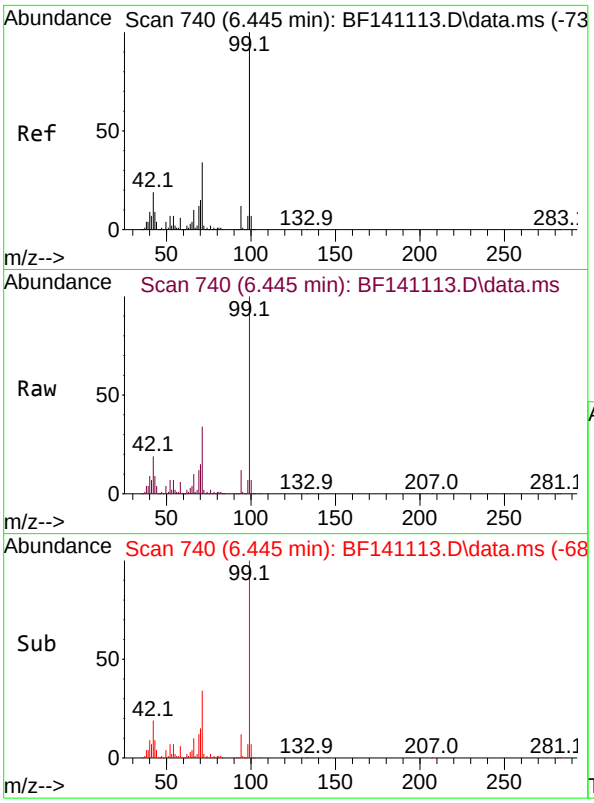


#6
Aniline
Concen: 39.127 ng
RT: 6.487 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 93 Resp: 508897

Ion	Ratio	Lower	Upper
93	100		
66	39.4	31.5	47.3
65	19.1	15.3	22.9



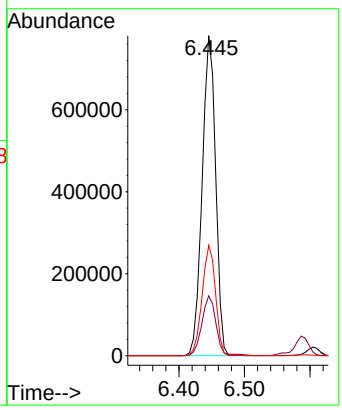


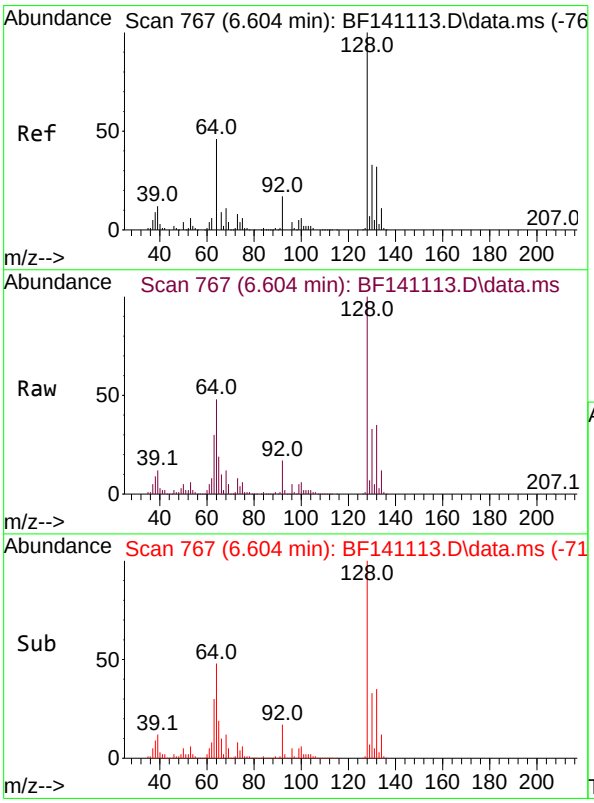
#7
Phenol-d6
Concen: 76.368 ng
RT: 6.445 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 1118731

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.0	22.4
71	34.5	27.6	41.4

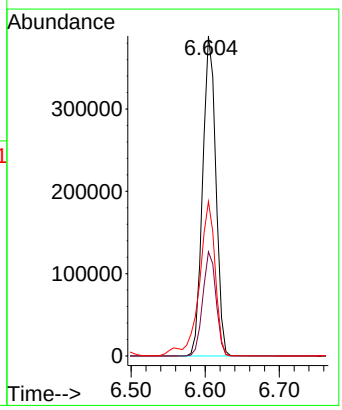


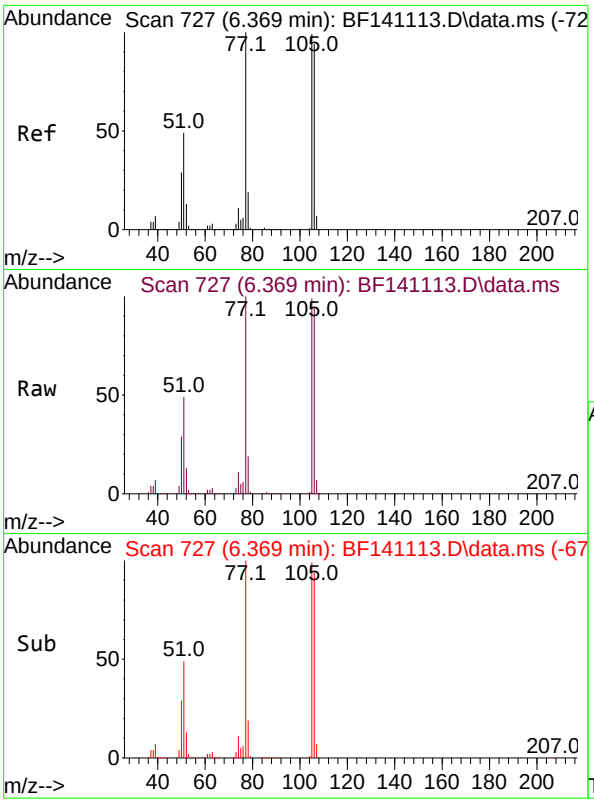


#8
2-Chlorophenol
Concen: 38.726 ng
RT: 6.604 min Scan# 767
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:128 Resp: 480497

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.5	52.5
64	48.3	28.3	68.3



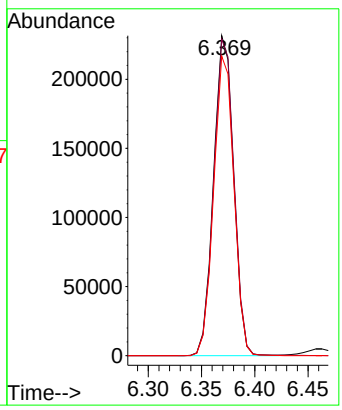


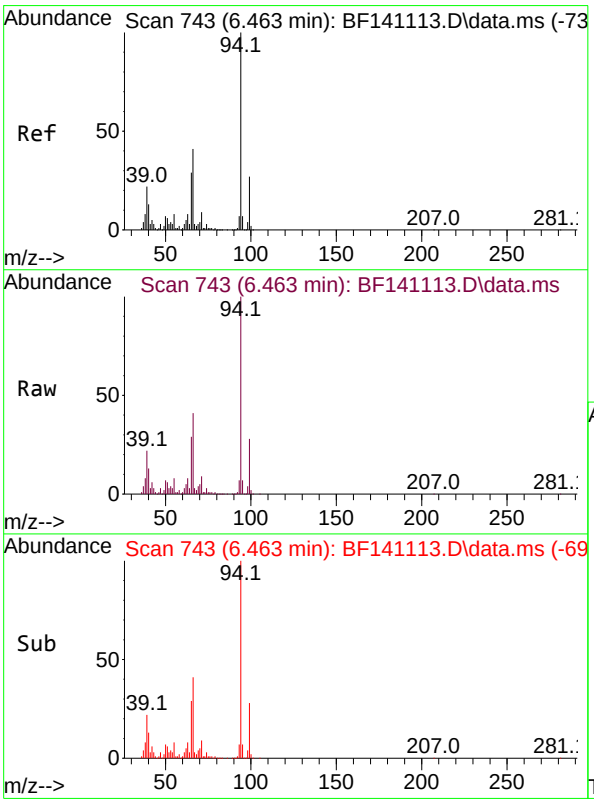
#9
Benzaldehyde
Concen: 37.048 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 303180

Ion	Ratio	Lower	Upper
77	100		
105	98.9	78.9	118.9
106	93.6	73.6	113.6

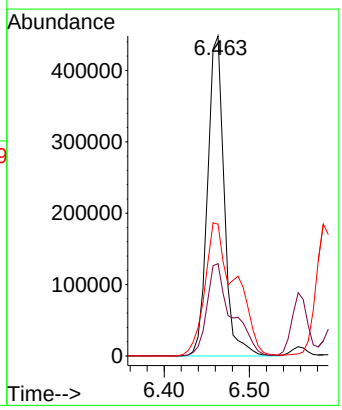


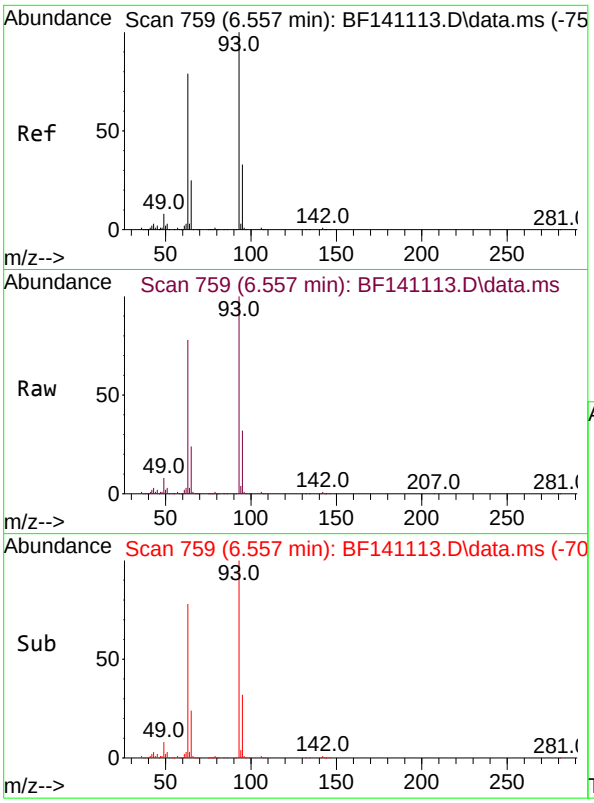


#10
Phenol
Concen: 38.754 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 94 Resp: 607714

Ion	Ratio	Lower	Upper
94	100		
65	28.9	8.9	48.9
66	41.2	21.2	61.2



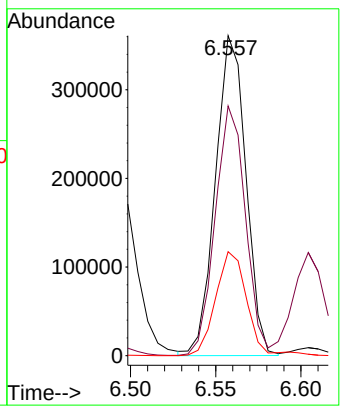


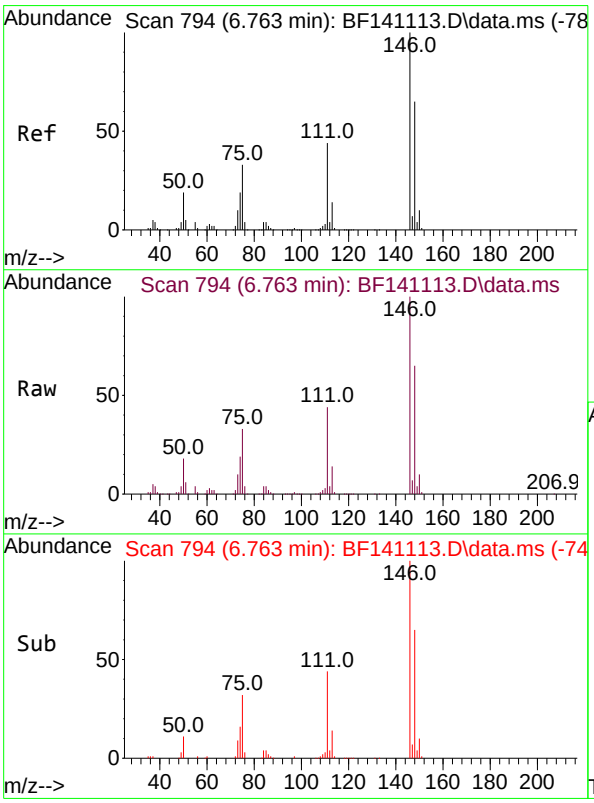
#11
bis(2-Chloroethyl)ether
Concen: 38.412 ng
RT: 6.557 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 448899

Ion	Ratio	Lower	Upper
93	100		
63	78.0	58.0	98.0
95	32.5	12.5	52.5

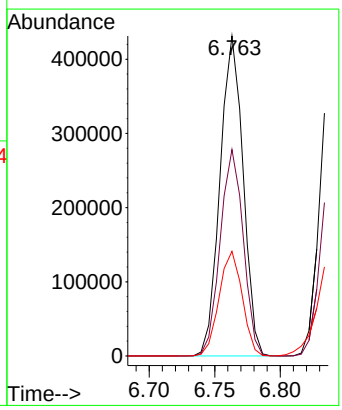


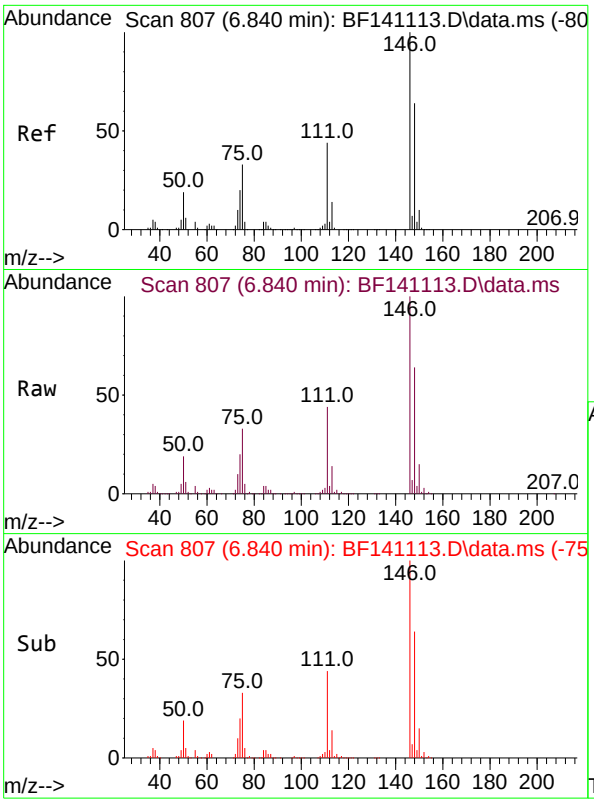


#12
1,3-Dichlorobenzene
Concen: 38.109 ng
RT: 6.763 min Scan# 794
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:146 Resp: 527365

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.6	77.4
75	32.7	26.2	39.2



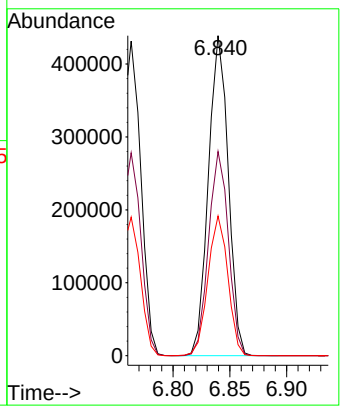


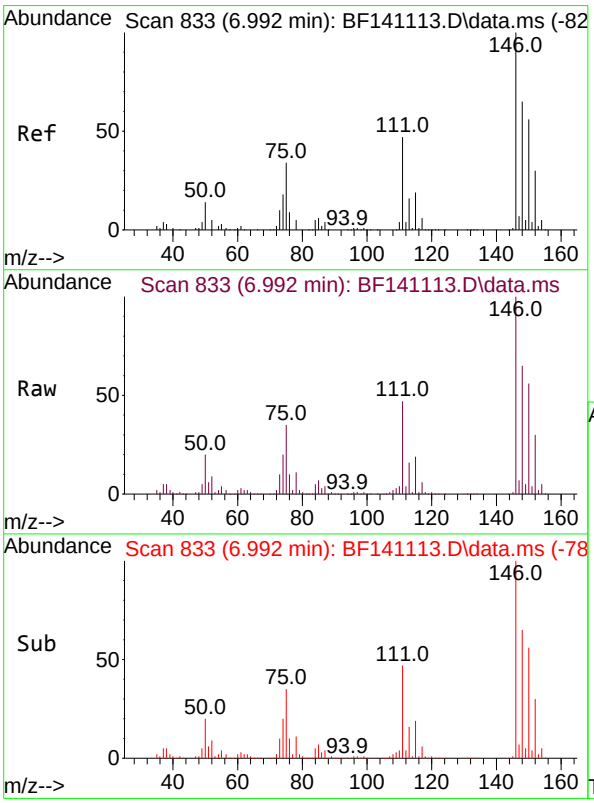
#13
1,4-Dichlorobenzene
Concen: 38.317 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 534324

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	43.6	34.9	52.3

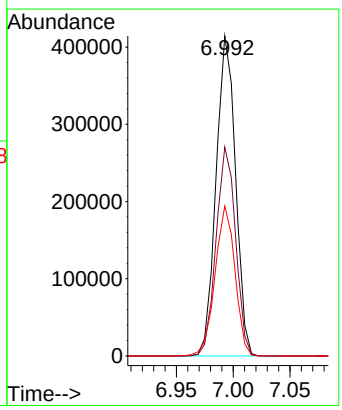


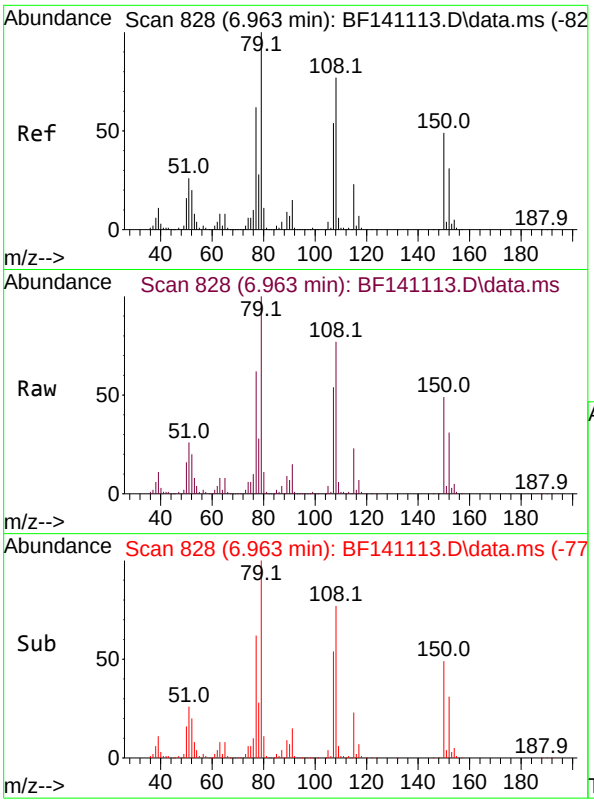


#14
1,2-Dichlorobenzene
Concen: 37.968 ng
RT: 6.992 min Scan# 833
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:146 Resp: 493883

Ion	Ratio	Lower	Upper
146	100		
148	65.3	52.2	78.4
111	46.9	37.5	56.3



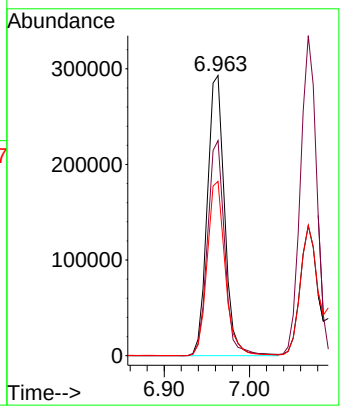


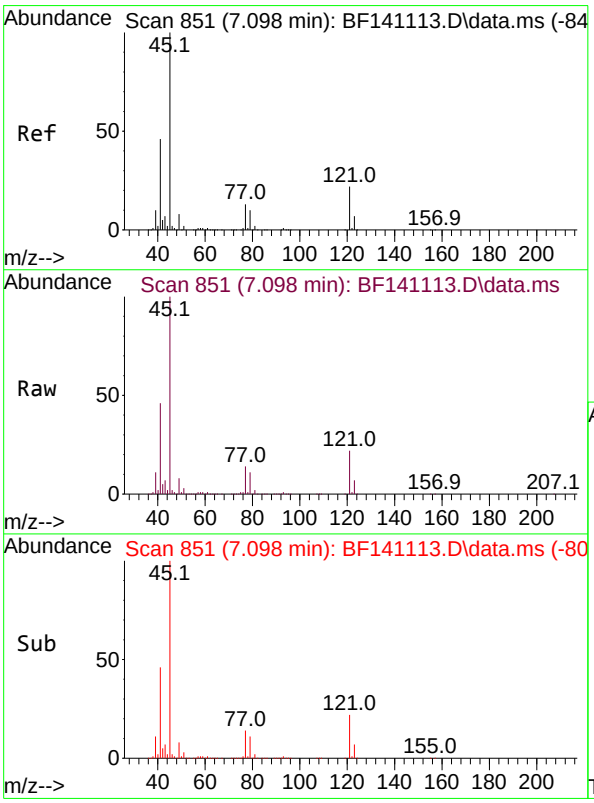
#15
Benzyl Alcohol
Concen: 39.120 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 413856

Ion	Ratio	Lower	Upper
79	100		
108	76.7	61.4	92.0
77	62.2	49.8	74.6

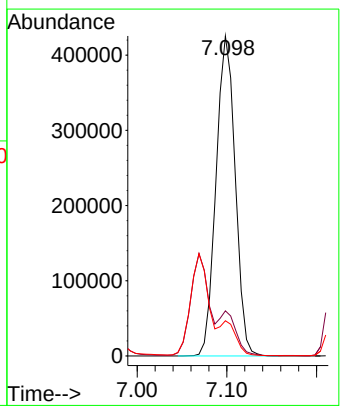


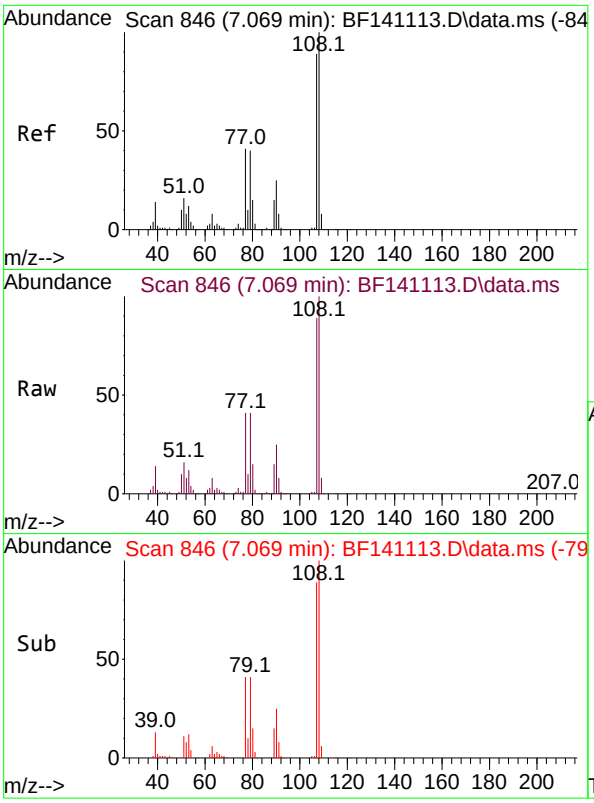


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.691 ng
RT: 7.098 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 45 Resp: 630969

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	34.1
79	11.0	0.0	31.0



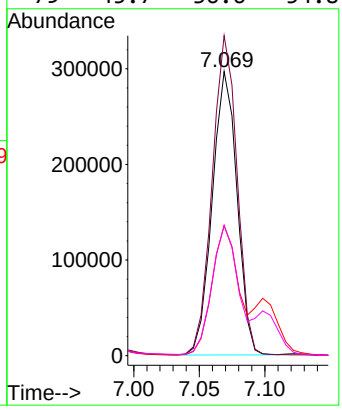


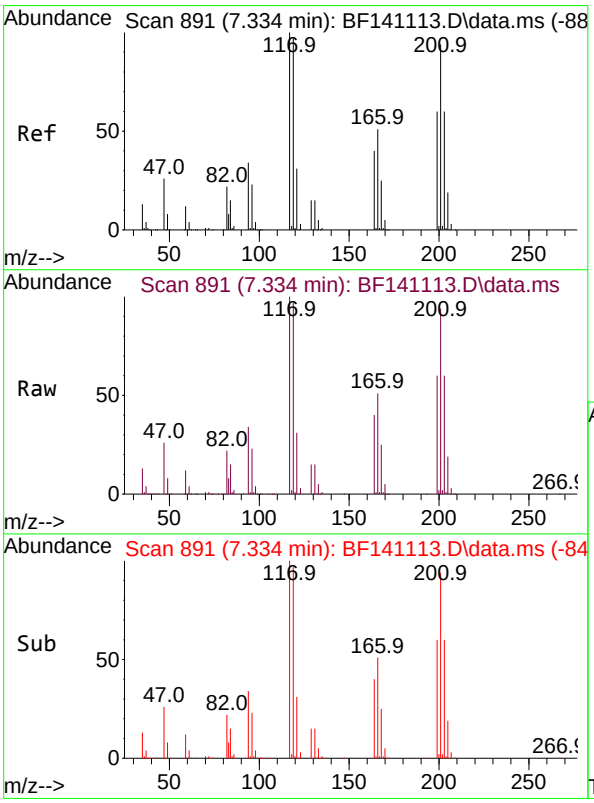
#17
2-Methylphenol
Concen: 38.821 ng
RT: 7.069 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 388877

Ion	Ratio	Lower	Upper
107	100		
108	112.6	90.1	135.1
77	45.8	36.6	55.0
79	45.7	36.6	54.8

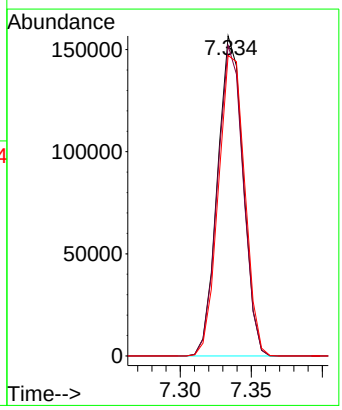


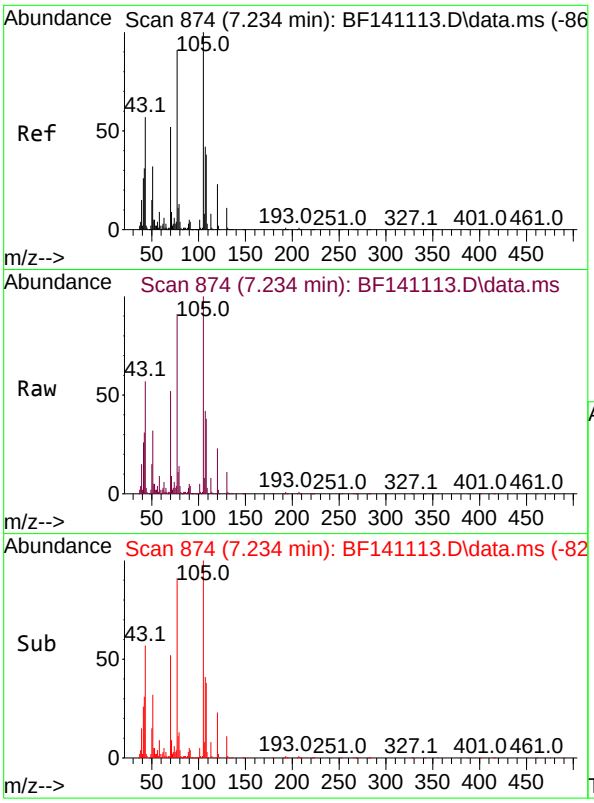


#18
Hexachloroethane
Concen: 38.816 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:117 Resp: 195745

Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.6	116.4
201	93.9	75.1	112.7



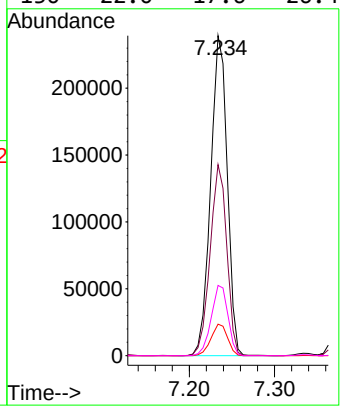


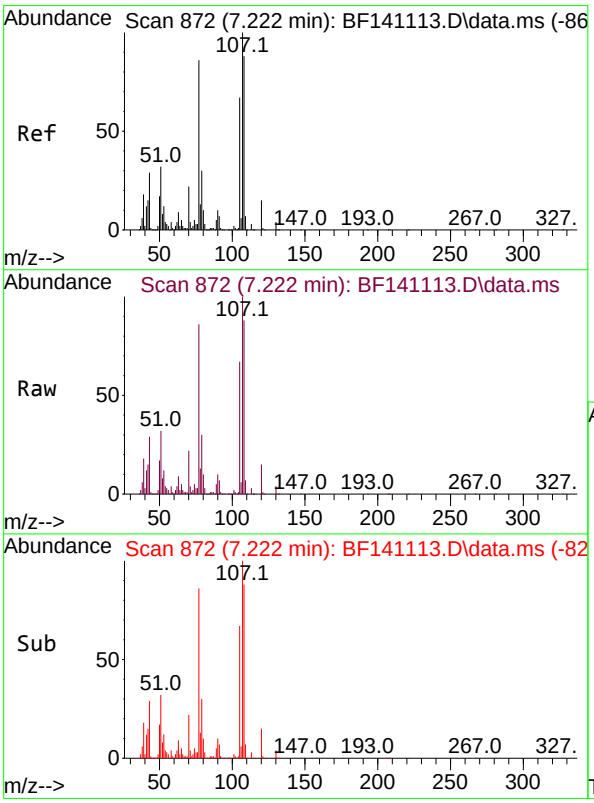
#19
n-Nitroso-di-n-propylamine
Concen: 37.522 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 323787

Ion	Ratio	Lower	Upper
70	100		
42	59.7	47.8	71.6
101	9.9	7.9	11.9
130	22.0	17.6	26.4

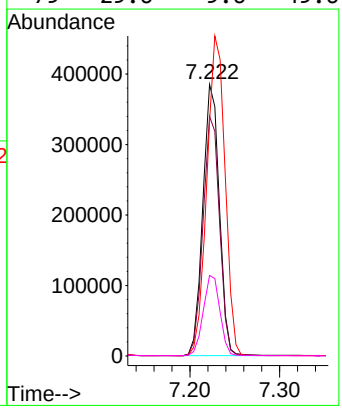


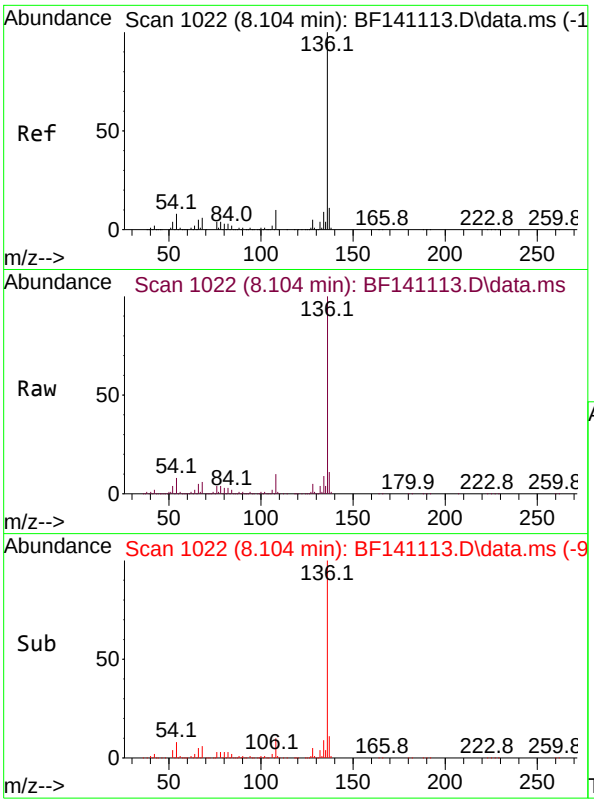


#20
3+4-Methylphenols
Concen: 38.868 ng
RT: 7.222 min Scan# 872
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:107 Resp: 491194

Ion	Ratio	Lower	Upper
107	100		
108	88.3	68.3	108.3
77	86.4	66.4	106.4
79	29.6	9.6	49.6



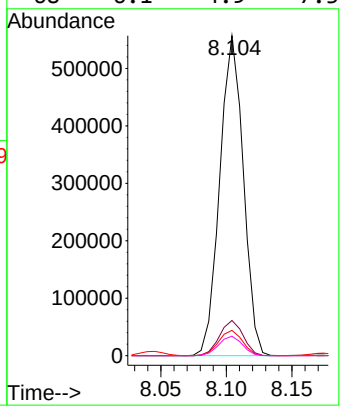


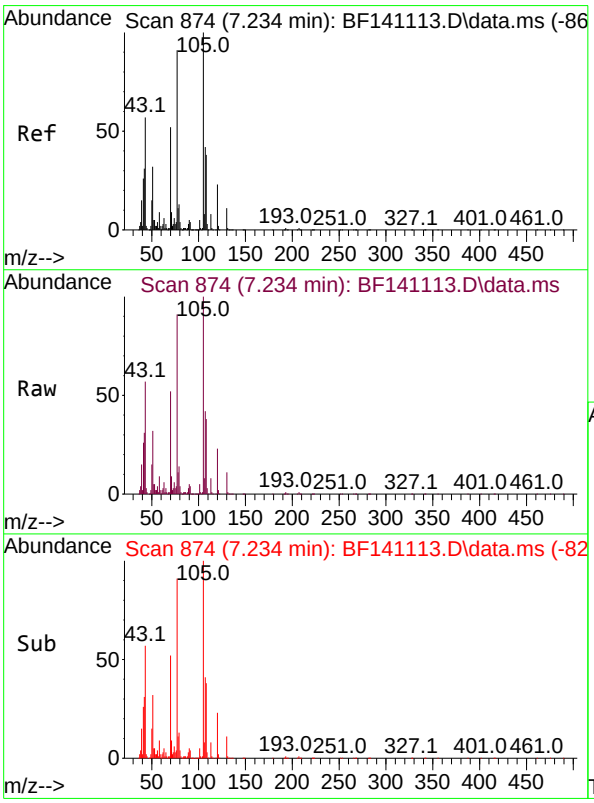
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 695197

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.9	6.3	9.5
68	6.1	4.9	7.3

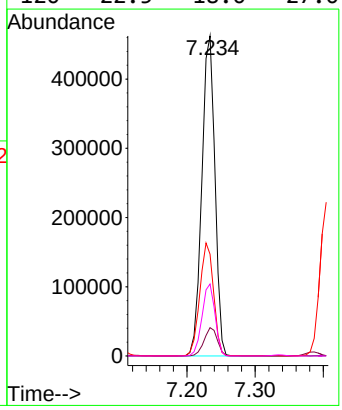


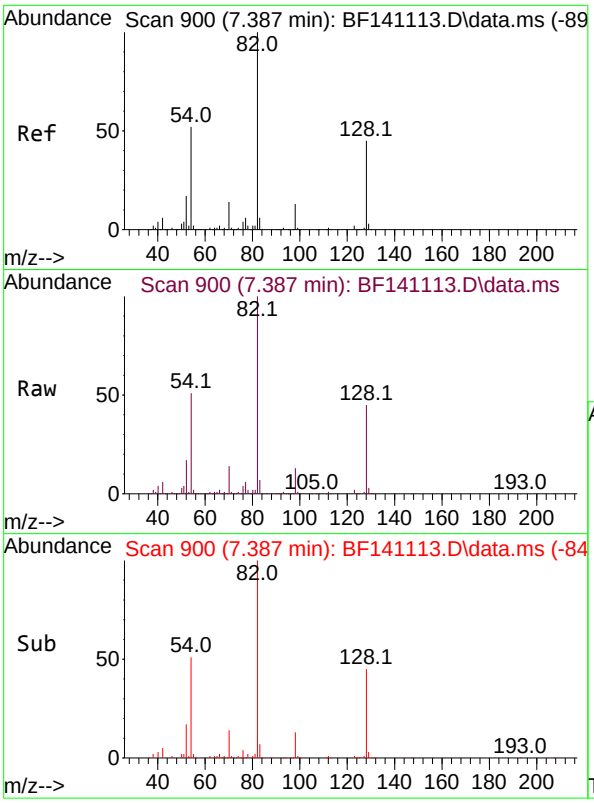


#22
Acetophenone
Concen: 37.419 ng
RT: 7.234 min Scan# 874
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:105 Resp: 618403

Ion	Ratio	Lower	Upper
105	100		
71	8.9	7.1	10.7
51	31.8	25.4	38.2
120	22.5	18.0	27.0



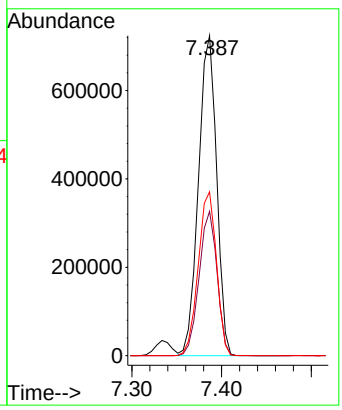


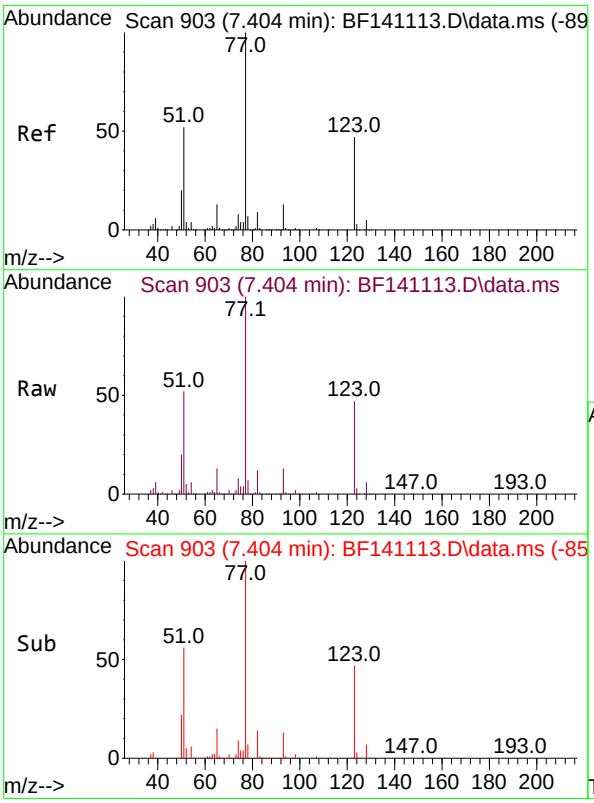
#23
Nitrobenzene-d5
Concen: 77.401 ng
RT: 7.387 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 1015102

Ion	Ratio	Lower	Upper
82	100		
128	45.1	36.1	54.1
54	51.2	41.0	61.4

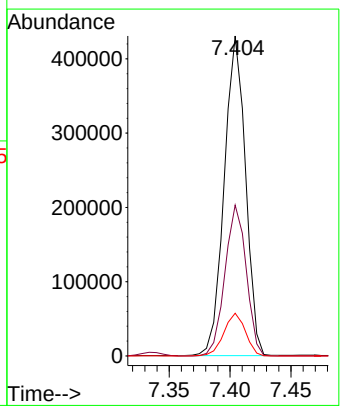


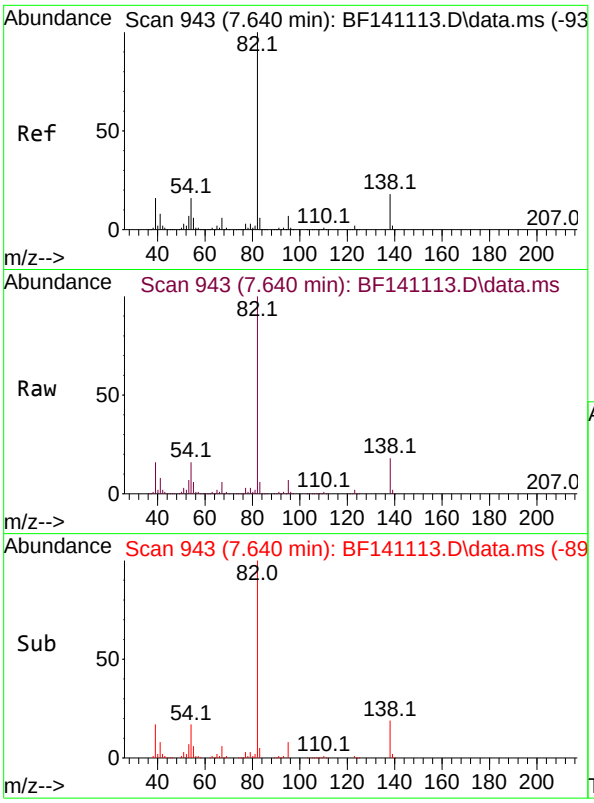


#24
Nitrobenzene
Concen: 38.355 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 77 Resp: 524255

Ion	Ratio	Lower	Upper
77	100		
123	47.1	37.7	56.5
65	13.3	10.6	16.0



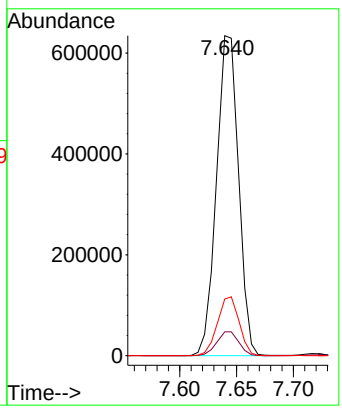


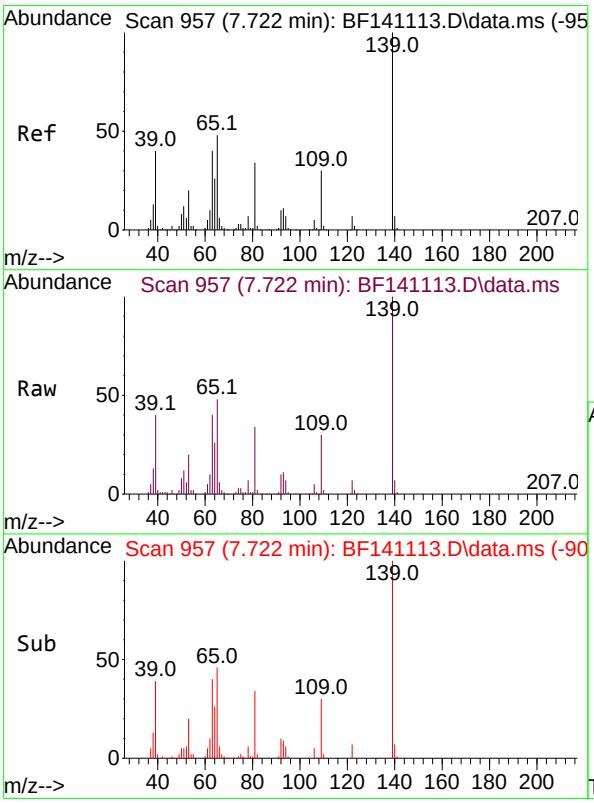
#25
Isophorone
Concen: 38.280 ng
RT: 7.640 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 857957

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	17.7	14.2	21.2

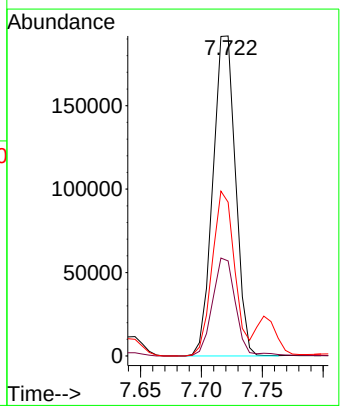


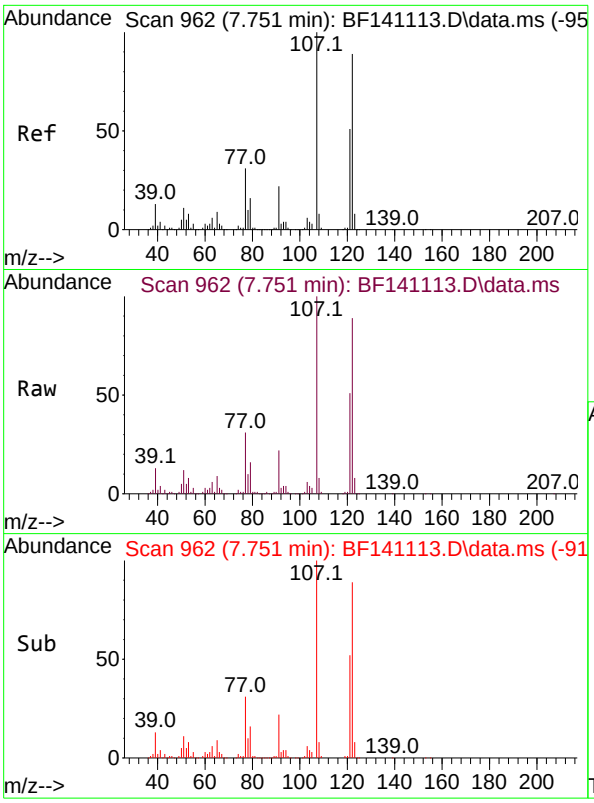


#26
2-Nitrophenol
Concen: 39.881 ng
RT: 7.722 min Scan# 957
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:139 Resp: 247962

Ion	Ratio	Lower	Upper
139	100		
109	29.7	23.8	35.6
65	48.1	38.5	57.7



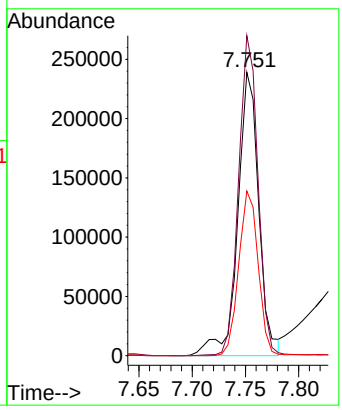


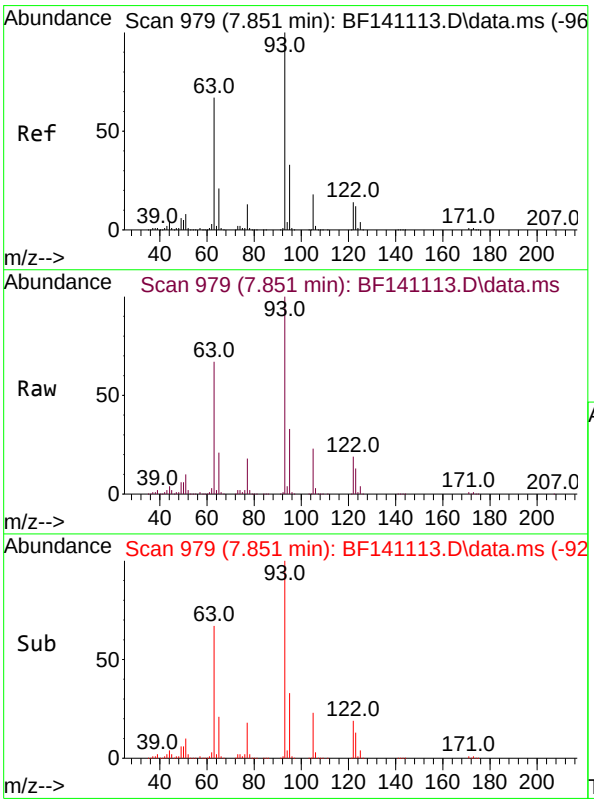
#27
2,4-Dimethylphenol
Concen: 39.185 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 328632

Ion	Ratio	Lower	Upper
122	100		
107	112.9	90.3	135.5
121	58.1	46.5	69.7

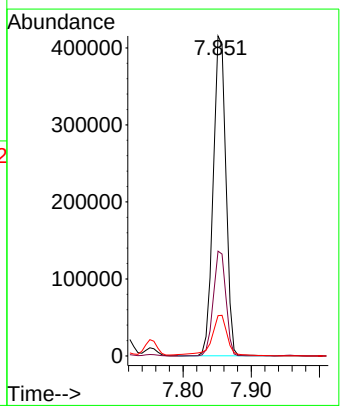


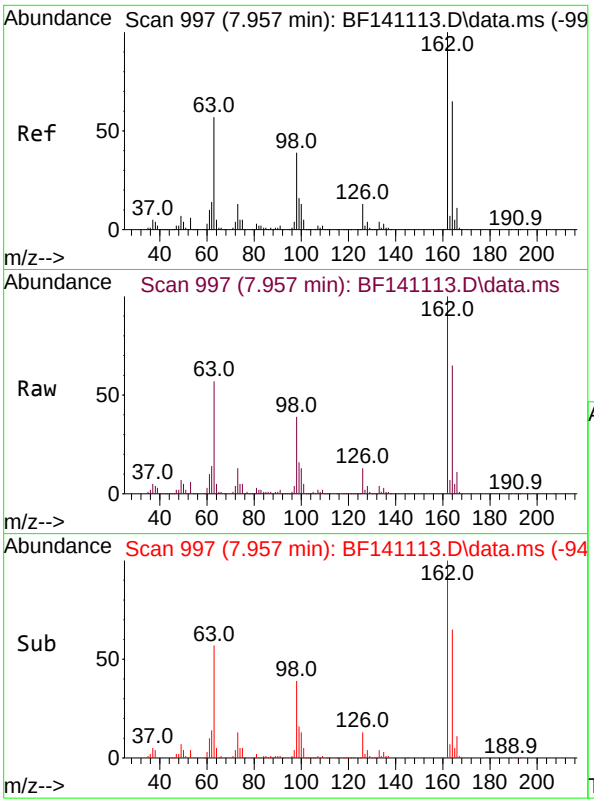


#28
bis(2-Chloroethoxy)methane
Concen: 38.228 ng
RT: 7.851 min Scan# 979
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 93 Resp: 537705

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.2	39.4
123	12.6	10.1	15.1



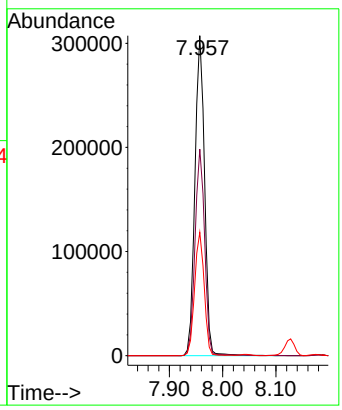


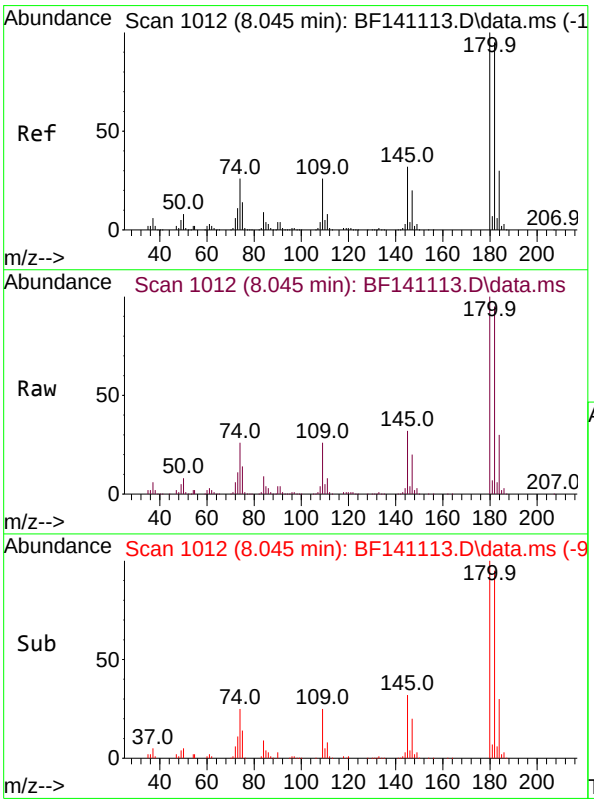
#29
2,4-Dichlorophenol
Concen: 38.711 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 385578

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.5	84.5
98	38.5	18.5	58.5

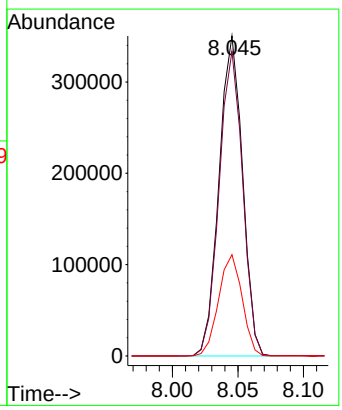


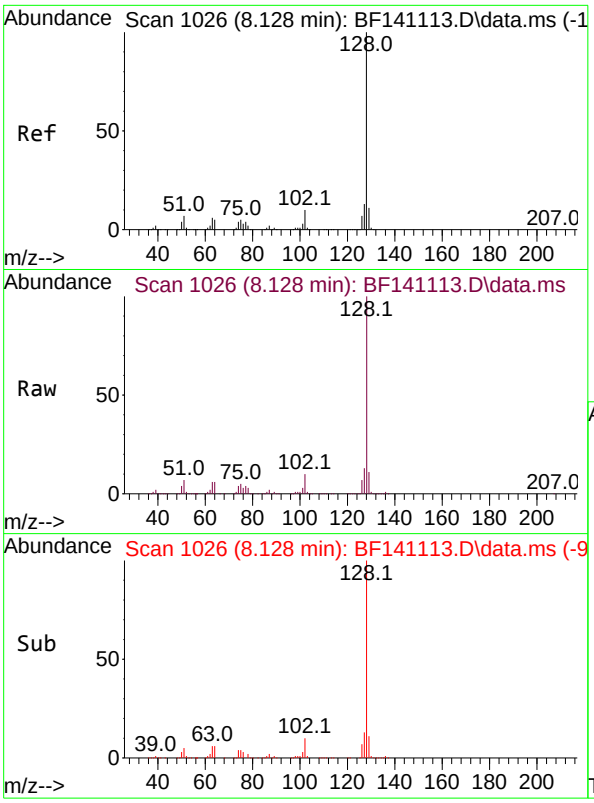


#30
1,2,4-Trichlorobenzene
Concen: 38.288 ng
RT: 8.045 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:180 Resp: 435914

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
145	31.6	25.3	37.9



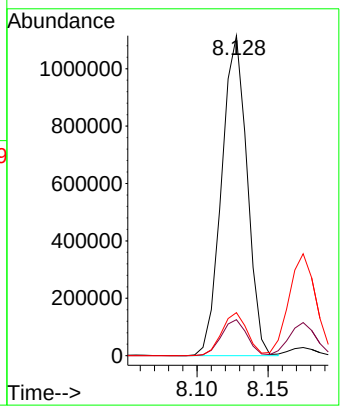


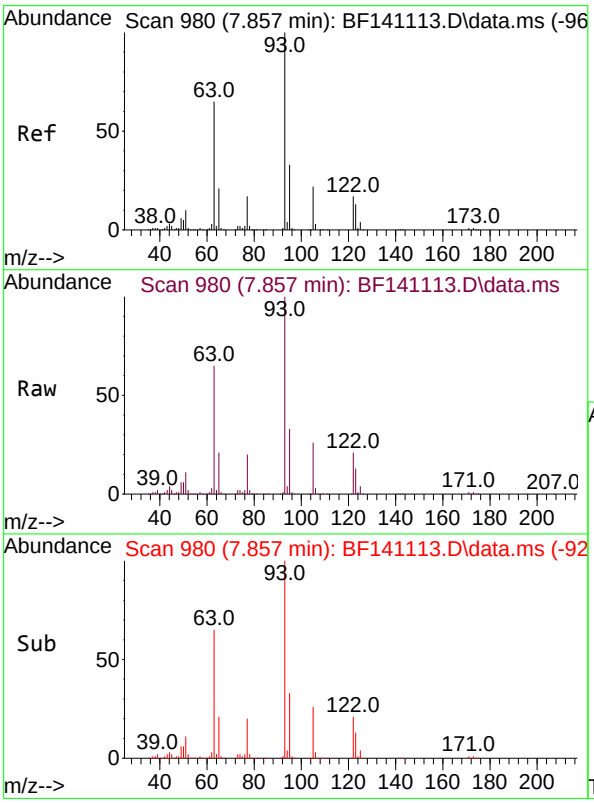
#31
Naphthalene
Concen: 37.866 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1388249

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.6
127	13.5	10.8	16.2

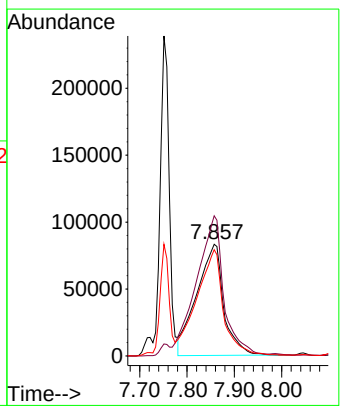


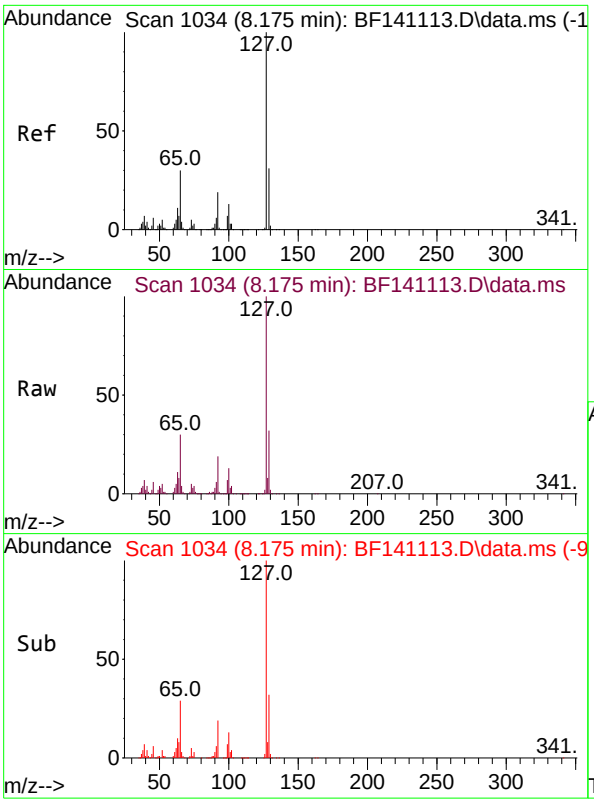


#32
Benzoic acid
Concen: 41.119 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:122 Resp: 330807

Ion	Ratio	Lower	Upper
122	100		
105	125.5	105.5	145.5
77	95.1	75.1	115.1



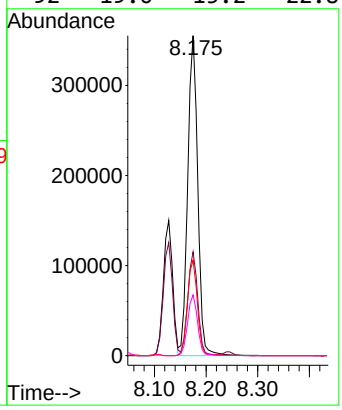


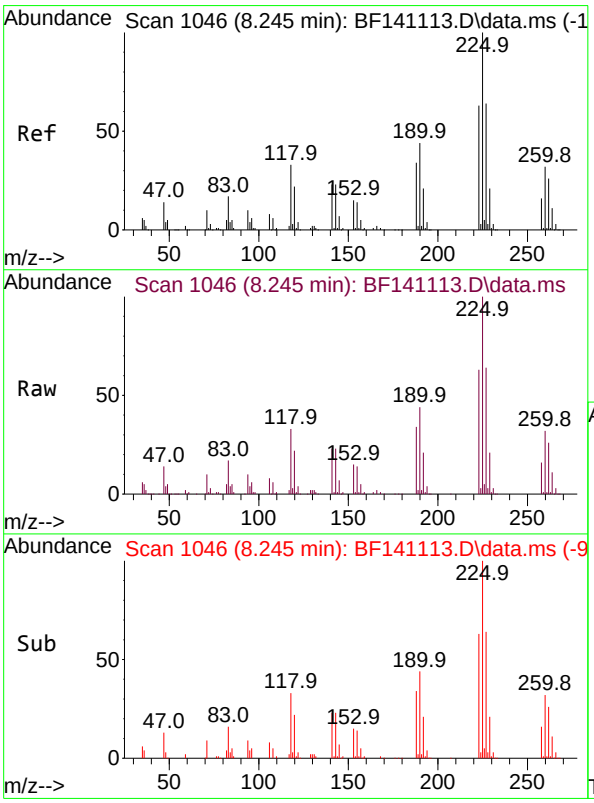
#33
4-Chloroaniline
Concen: 37.789 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 479132

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	29.8	23.8	35.8
92	19.0	15.2	22.8

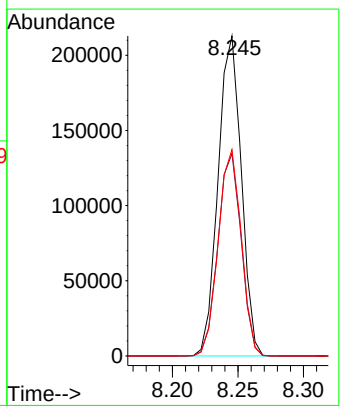


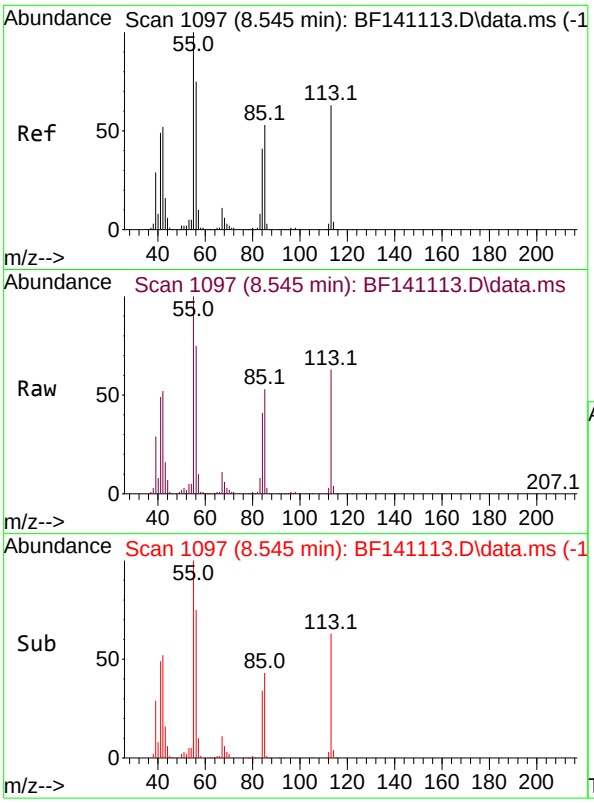


#34
Hexachlorobutadiene
Concen: 38.143 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:225 Resp: 261671

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.6	76.0
227	64.5	51.6	77.4



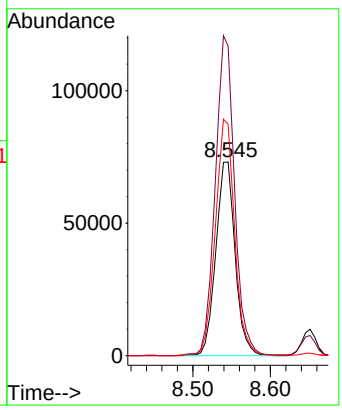


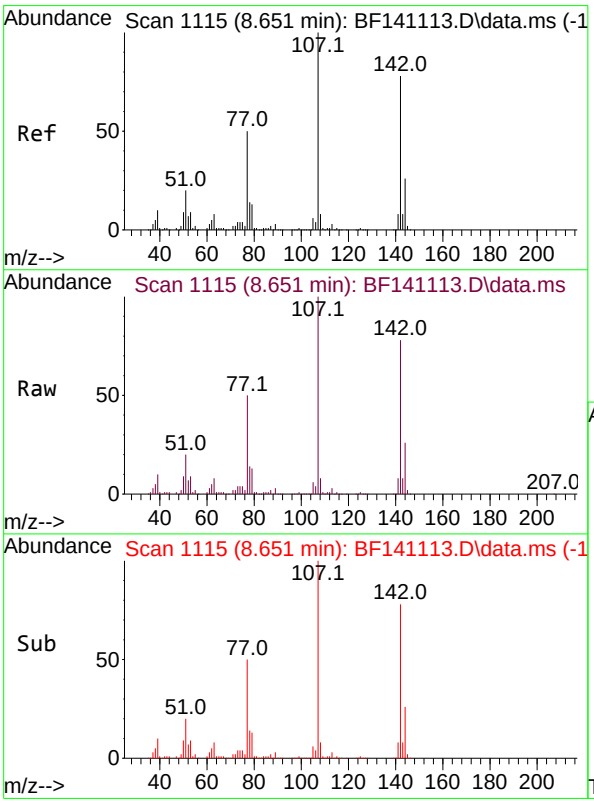
#35
Caprolactam
Concen: 38.712 ng
RT: 8.545 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 126481

Ion	Ratio	Lower	Upper
113	100		
55	159.7	139.7	179.7
56	119.4	99.4	139.4

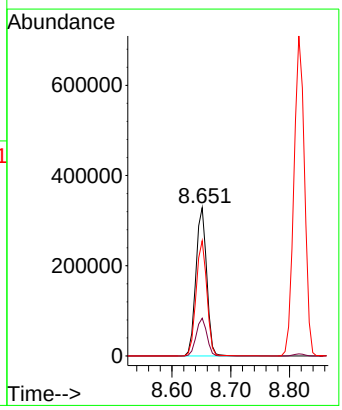


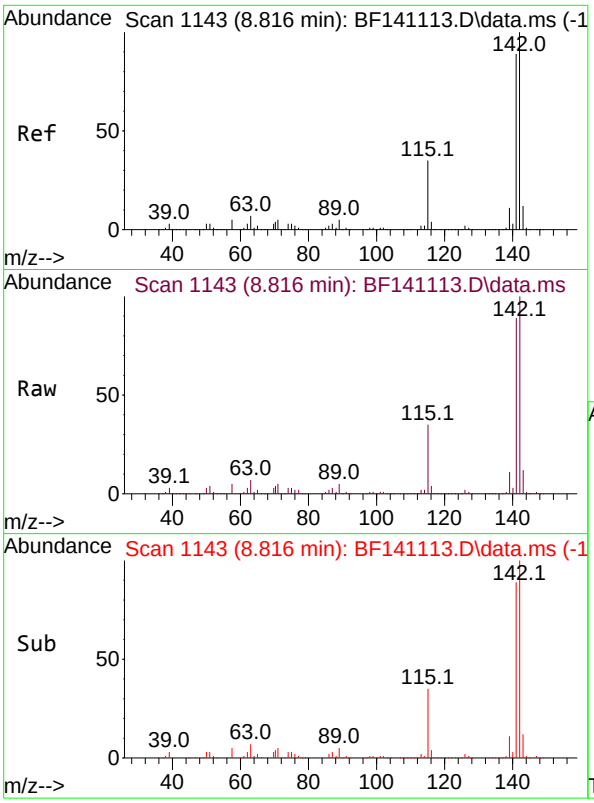


#36
4-Chloro-3-methylphenol
Concen: 38.566 ng
RT: 8.651 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:107 Resp: 420106

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.4	30.6
142	77.7	62.2	93.2



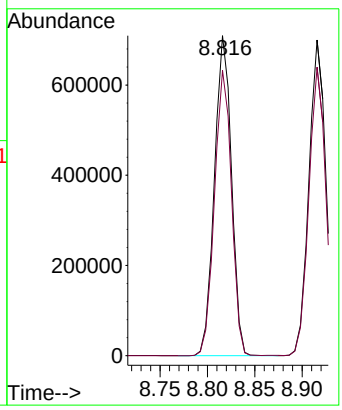


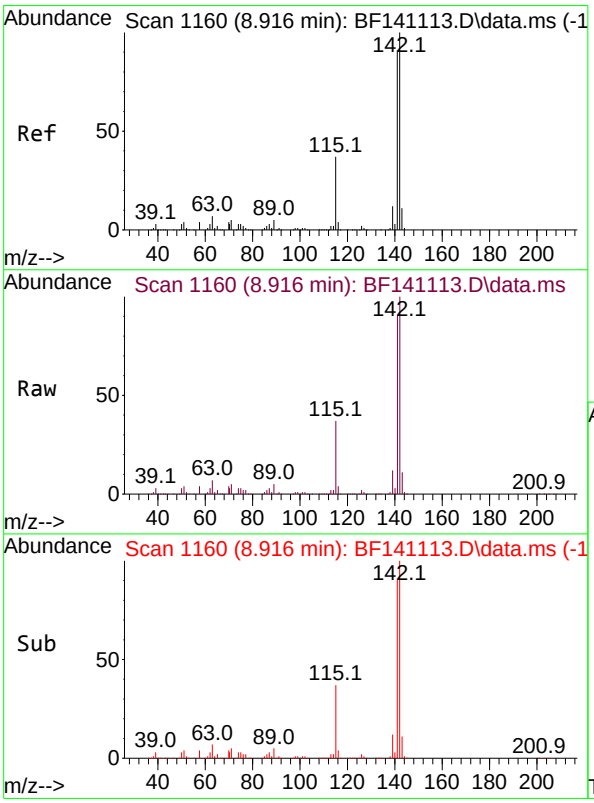
#37
2-Methylnaphthalene
Concen: 37.973 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 887132

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.3	106.9

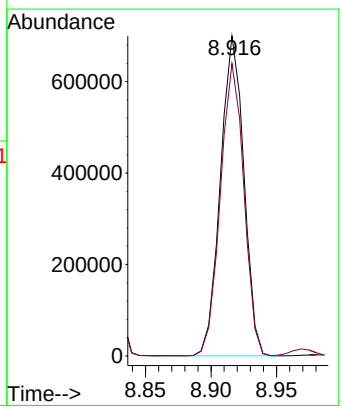


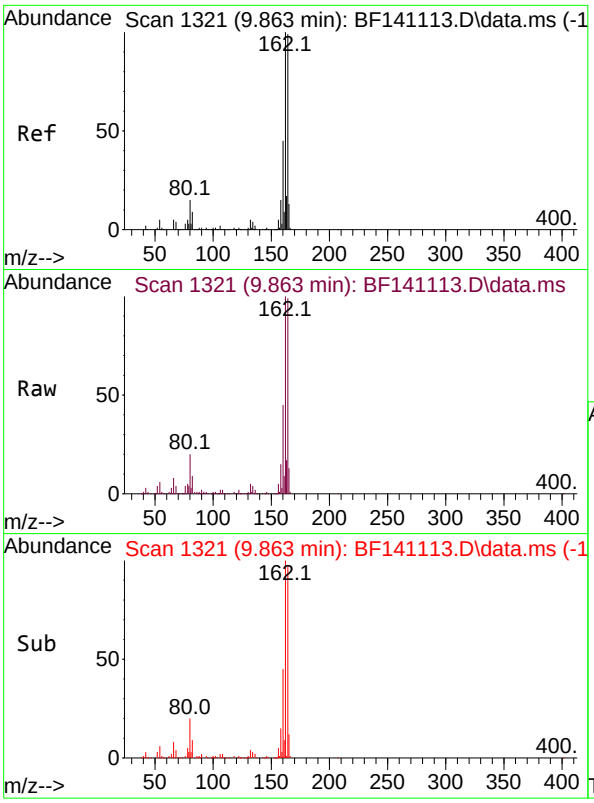


#38
1-Methylnaphthalene
Concen: 37.724 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:142 Resp: 868573

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7



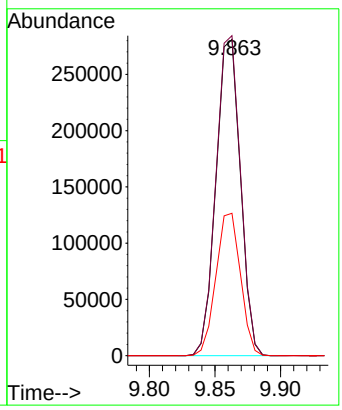


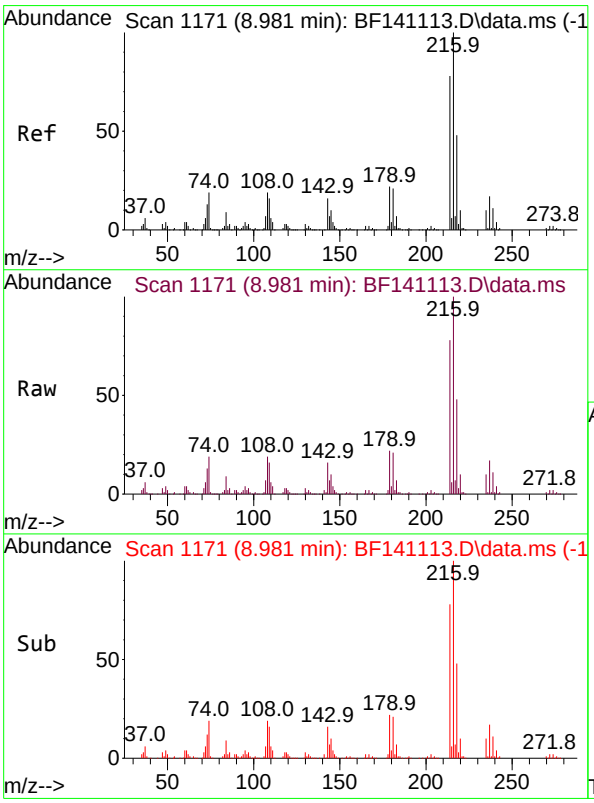
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 363903

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.0	121.4
160	45.1	36.1	54.1

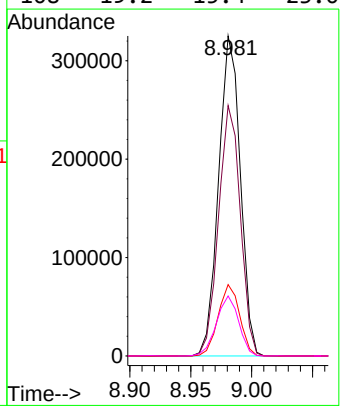


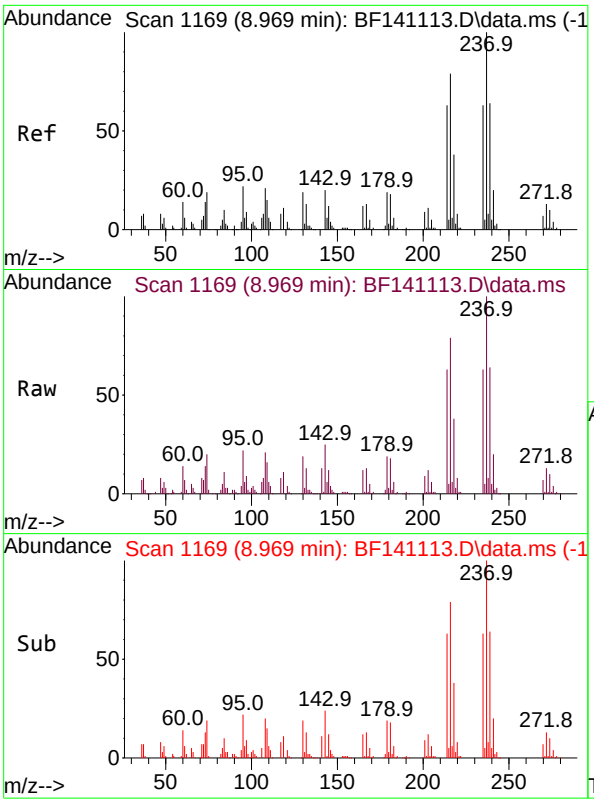


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.626 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:216 Resp: 403442

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.6	94.0
179	22.1	17.7	26.5
108	19.2	15.4	23.0



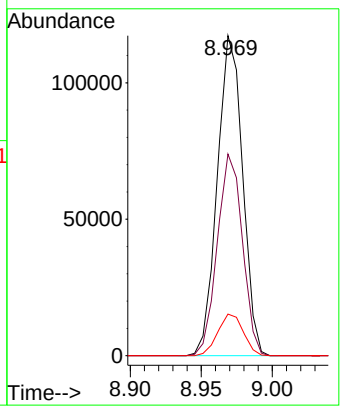


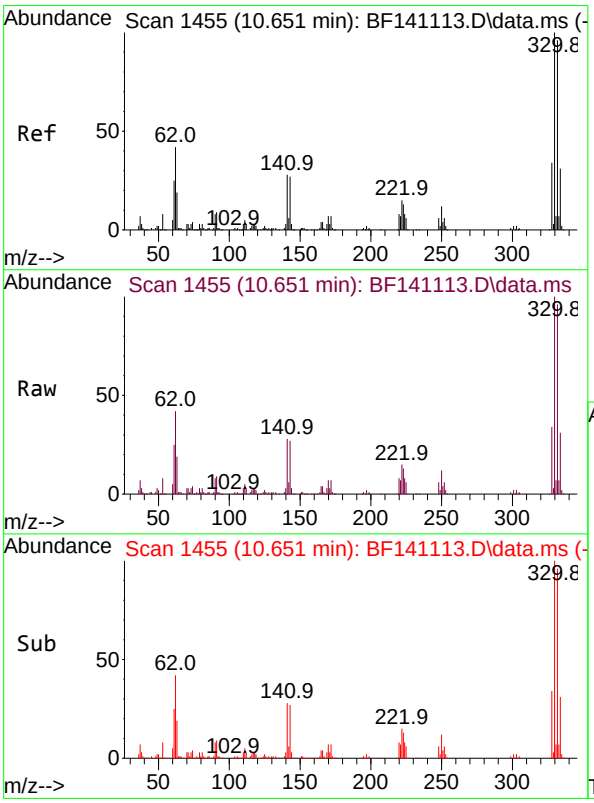
#41
Hexachlorocyclopentadiene
Concen: 42.508 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 145258

Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.0	83.0
272	13.0	0.0	33.0

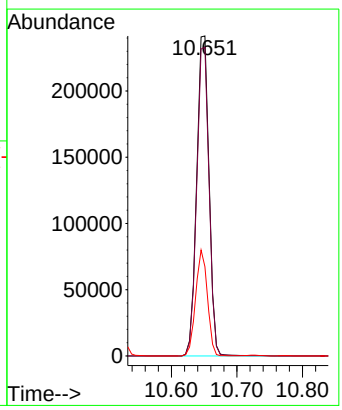


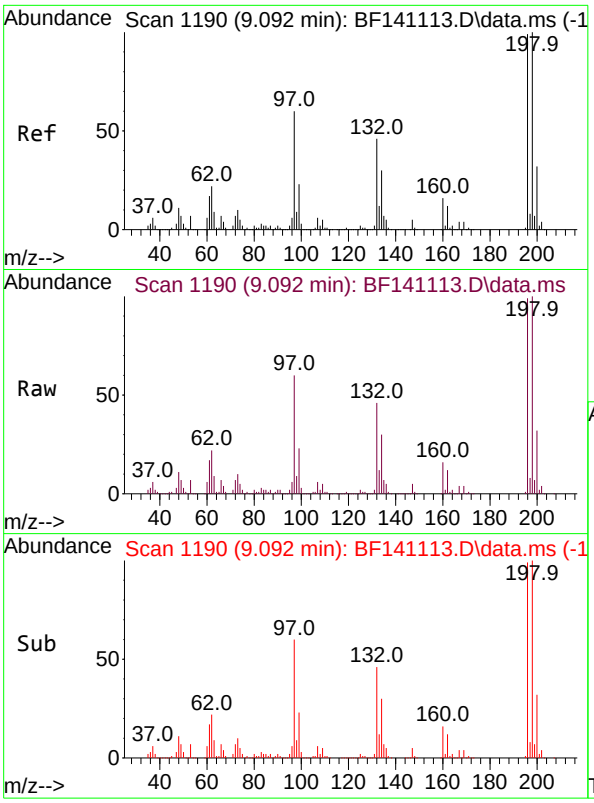


#42
2,4,6-Tribromophenol
Concen: 76.709 ng
RT: 10.651 min Scan# 1455
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:330 Resp: 318067

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.9	115.3
141	31.5	25.2	37.8



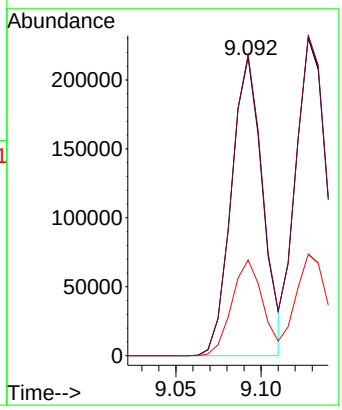


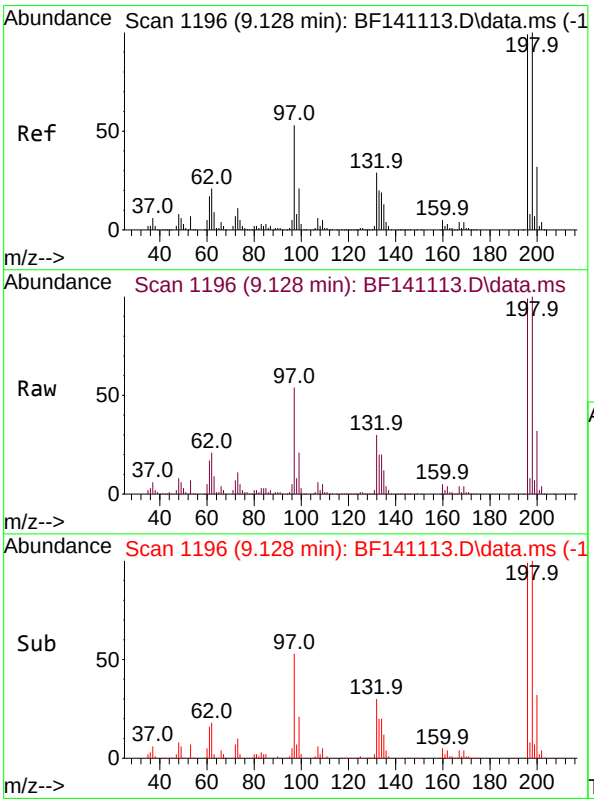
#43
2,4,6-Trichlorophenol
Concen: 39.231 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 276355

Ion	Ratio	Lower	Upper
196	100		
198	101.0	80.8	121.2
200	32.1	25.7	38.5

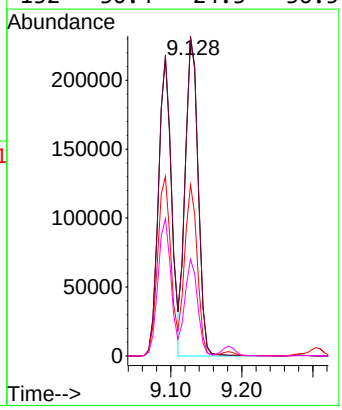


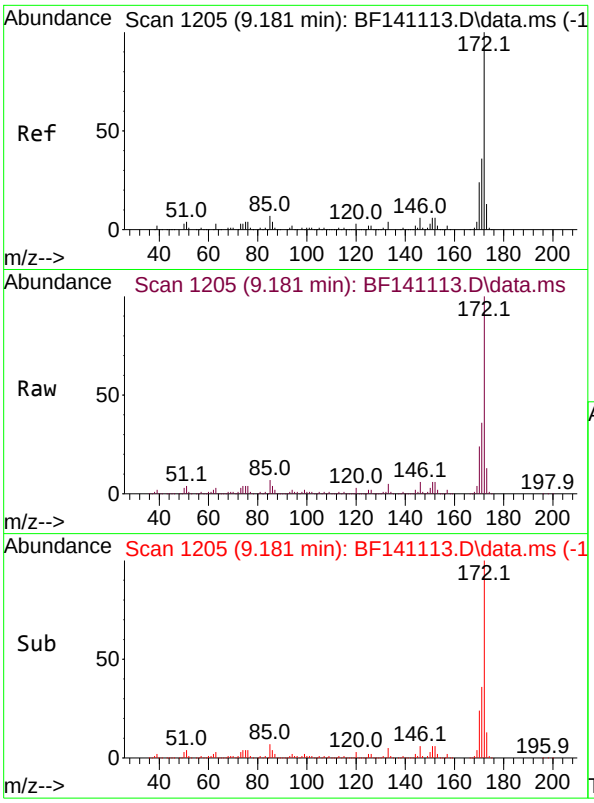


#44
2,4,5-Trichlorophenol
Concen: 39.203 ng
RT: 9.128 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:196 Resp: 291660

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.6	120.8
97	53.9	43.1	64.7
132	30.4	24.3	36.5



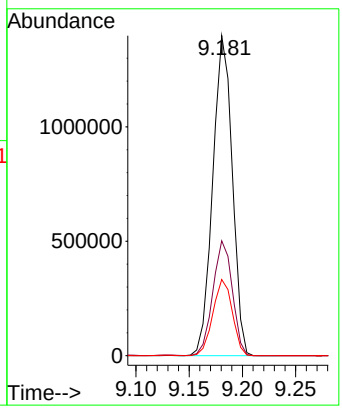


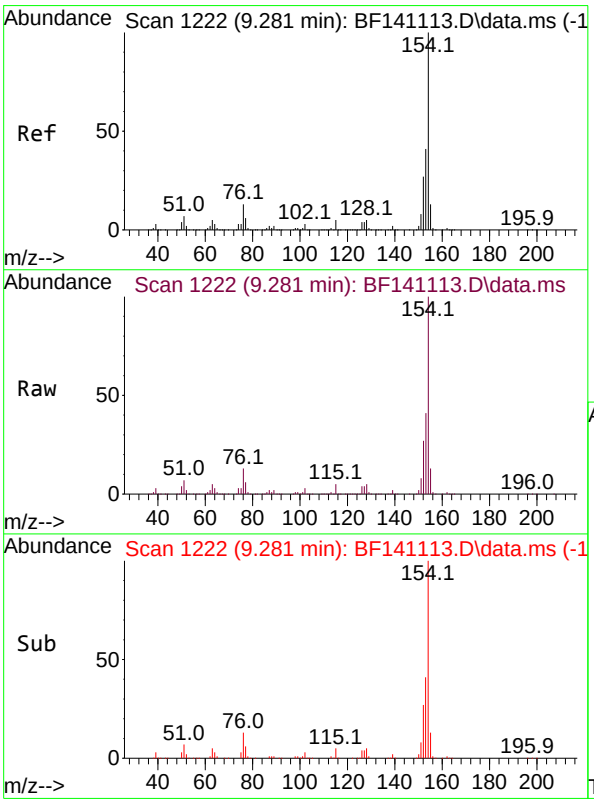
#45
2-Fluorobiphenyl
Concen: 74.817 ng
RT: 9.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1782936

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.7	43.1
170	23.8	19.0	28.6

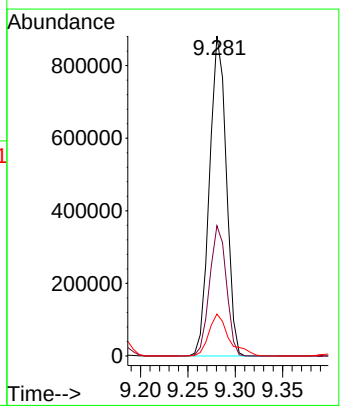


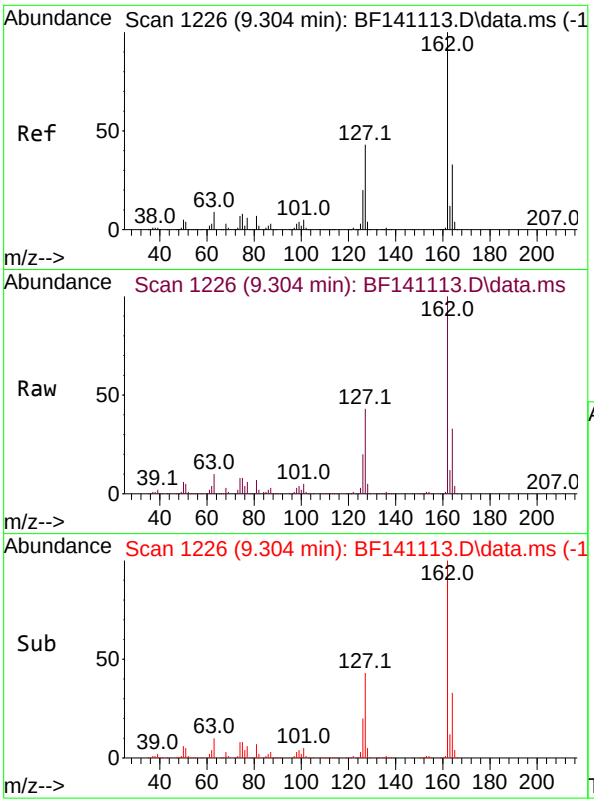


#46
1,1'-Biphenyl
Concen: 38.380 ng
RT: 9.281 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:154 Resp: 1084649

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.7	60.7
76	13.1	0.0	33.1



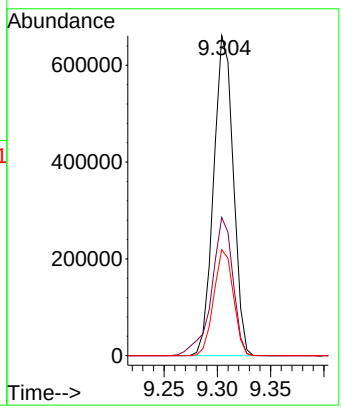


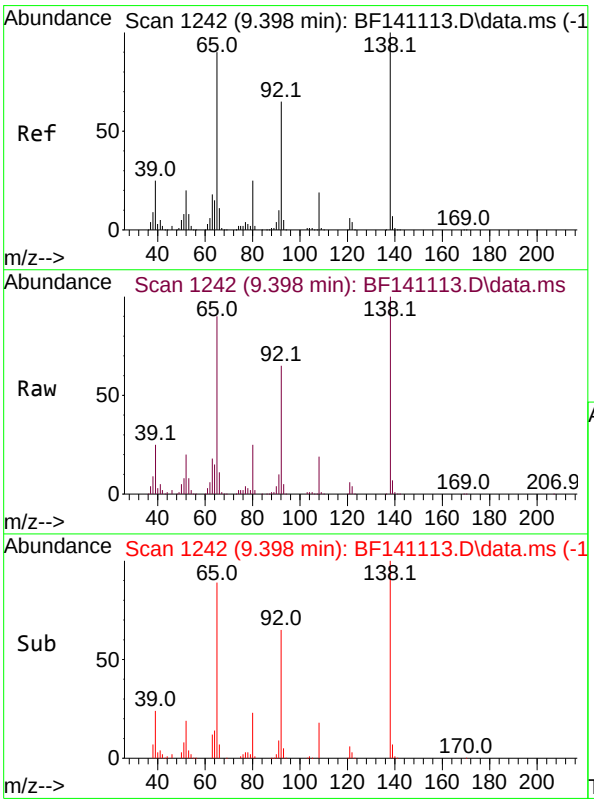
#47
2-Chloronaphthalene
Concen: 38.499 ng
RT: 9.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 847410

Ion	Ratio	Lower	Upper
162	100		
127	43.2	34.6	51.8
164	33.1	26.5	39.7

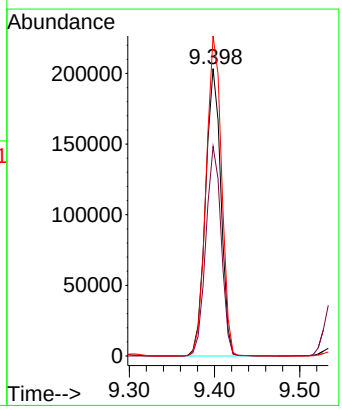


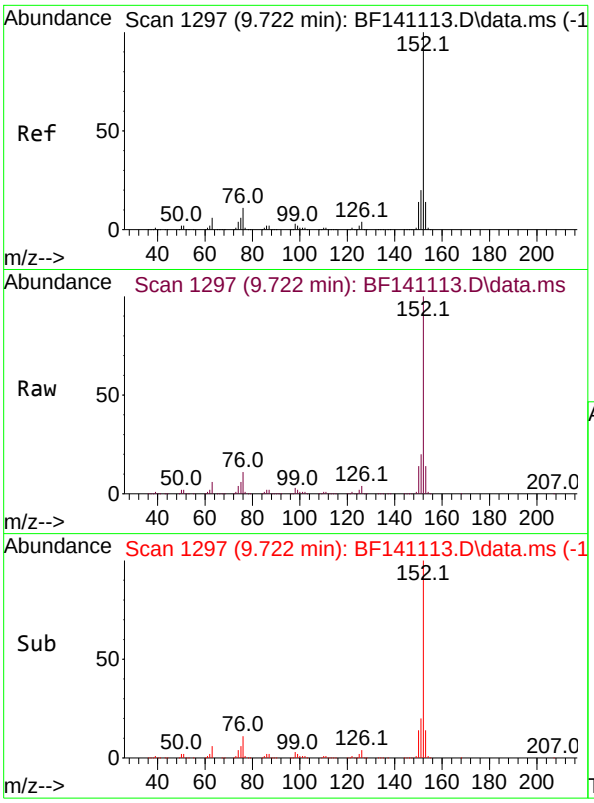


#48
2-Nitroaniline
Concen: 39.114 ng
RT: 9.398 min Scan# 1242
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion: 65 Resp: 255218

Ion	Ratio	Lower	Upper
65	100		
92	72.9	58.3	87.5
138	111.4	89.1	133.7



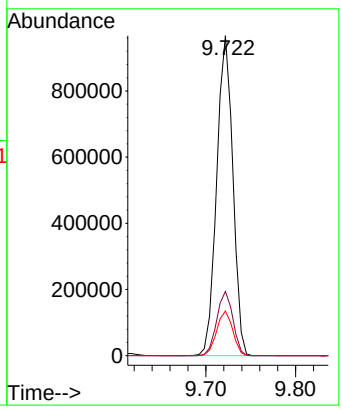


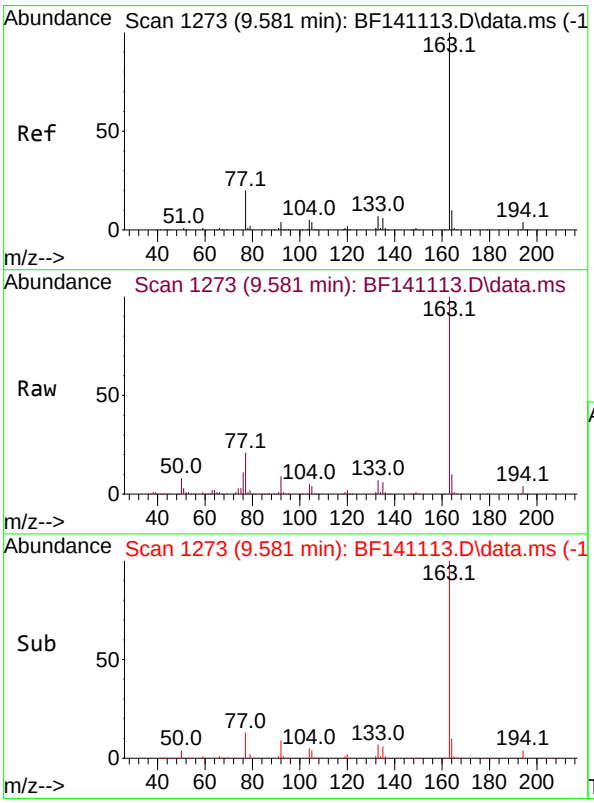
#49
Acenaphthylene
Concen: 38.412 ng
RT: 9.722 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1207984

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.9	11.1	16.7

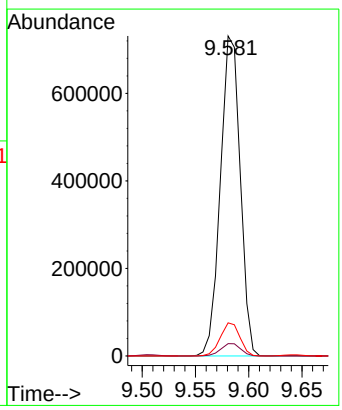


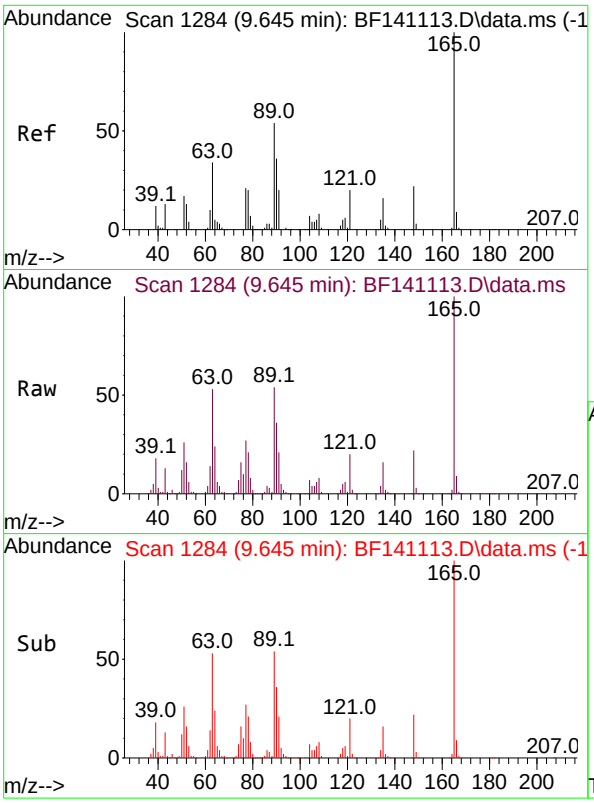


#50
Dimethylphthalate
Concen: 38.695 ng
RT: 9.581 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:163 Resp: 945319

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.2	12.4



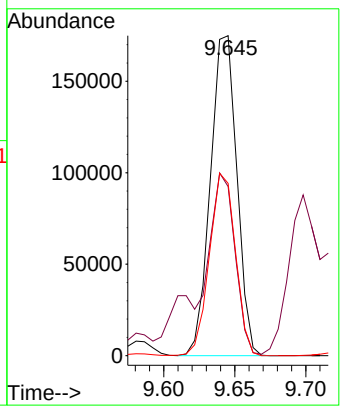


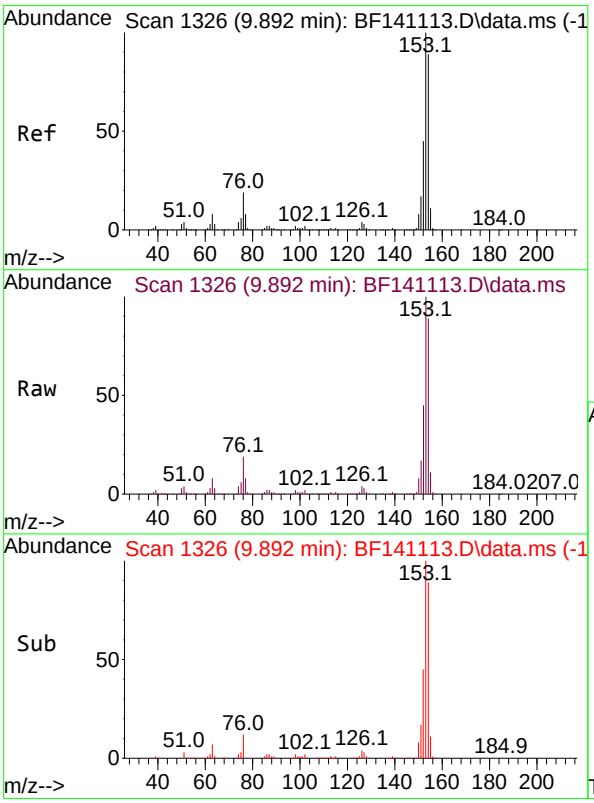
#51
2,6-Dinitrotoluene
Concen: 39.953 ng
RT: 9.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 226979

Ion	Ratio	Lower	Upper
165	100		
63	52.9	42.3	63.5
89	53.9	43.1	64.7

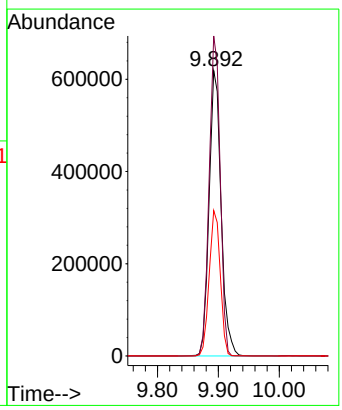


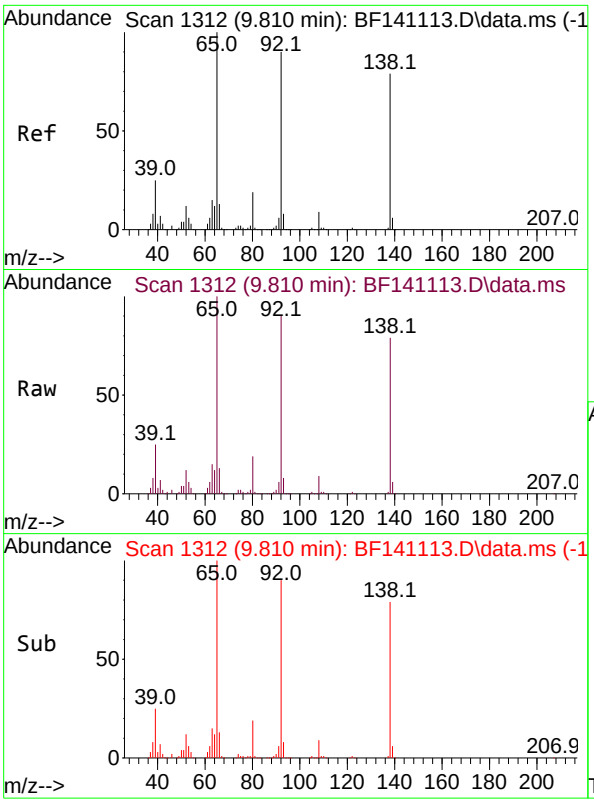


#52
Acenaphthene
Concen: 38.579 ng
RT: 9.892 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:154 Resp: 847617

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.8	134.6
152	51.0	40.8	61.2



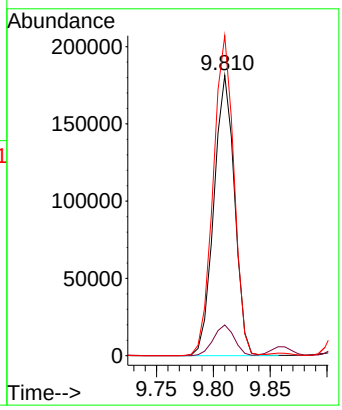


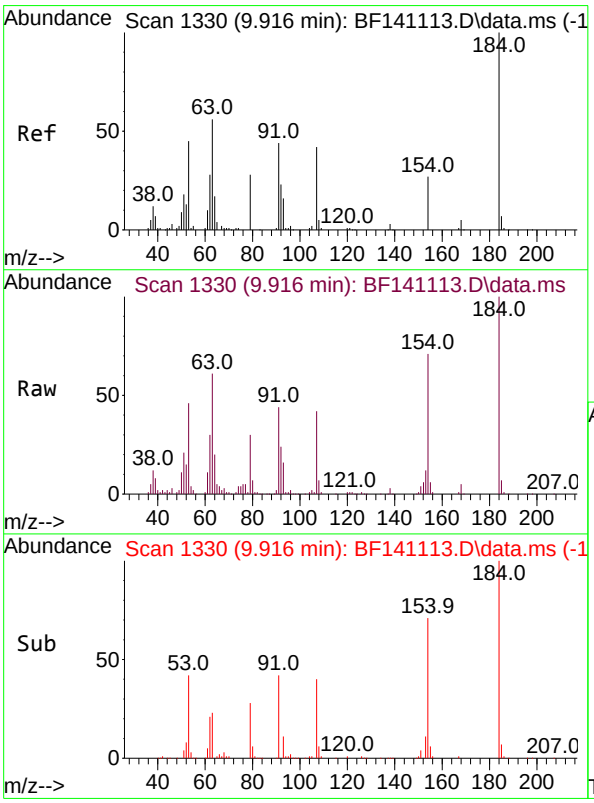
#53
3-Nitroaniline
Concen: 39.816 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 229868

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.8	13.2
92	114.1	91.3	136.9

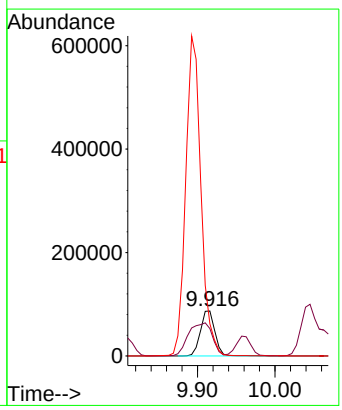


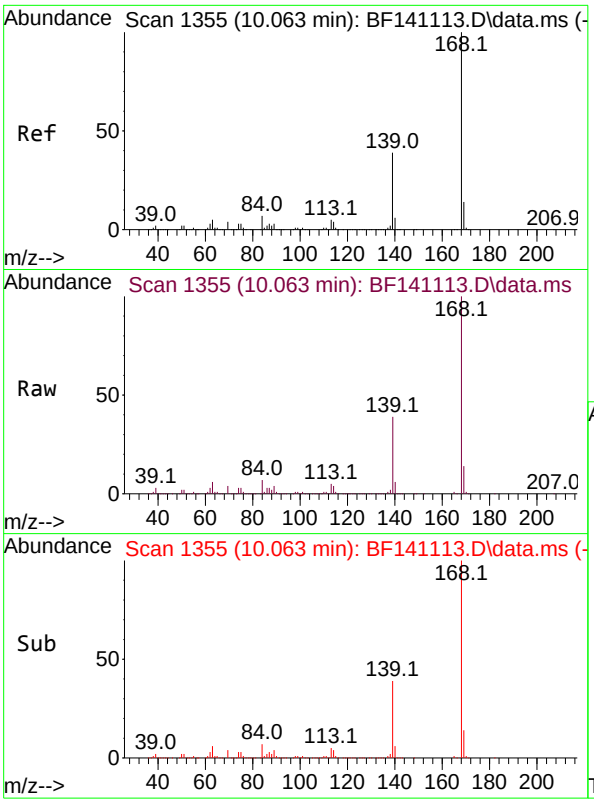


#54
2,4-Dinitrophenol
Concen: 41.896 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:184 Resp: 113135

Ion	Ratio	Lower	Upper
184	100		
63	60.9	48.7	73.1
154	71.4	57.1	85.7



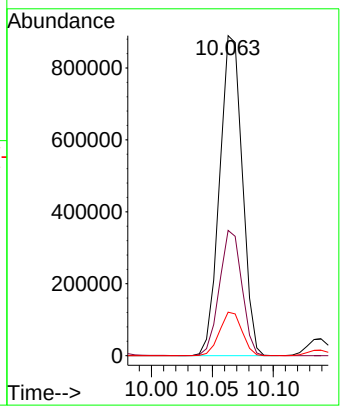


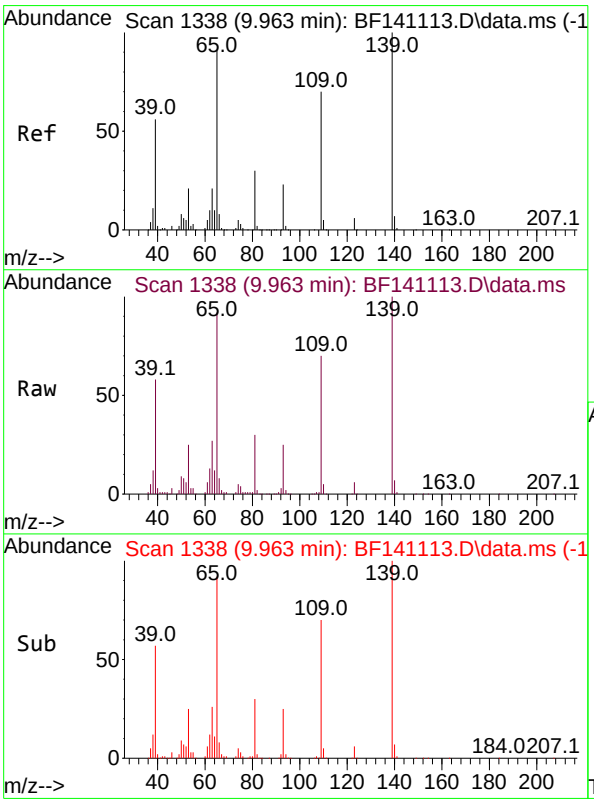
#55
Dibenzofuran
Concen: 38.617 ng
RT: 10.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1154072

Ion	Ratio	Lower	Upper
168	100		
139	39.2	31.4	47.0
169	13.6	10.9	16.3

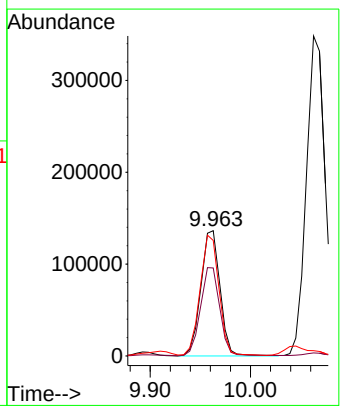


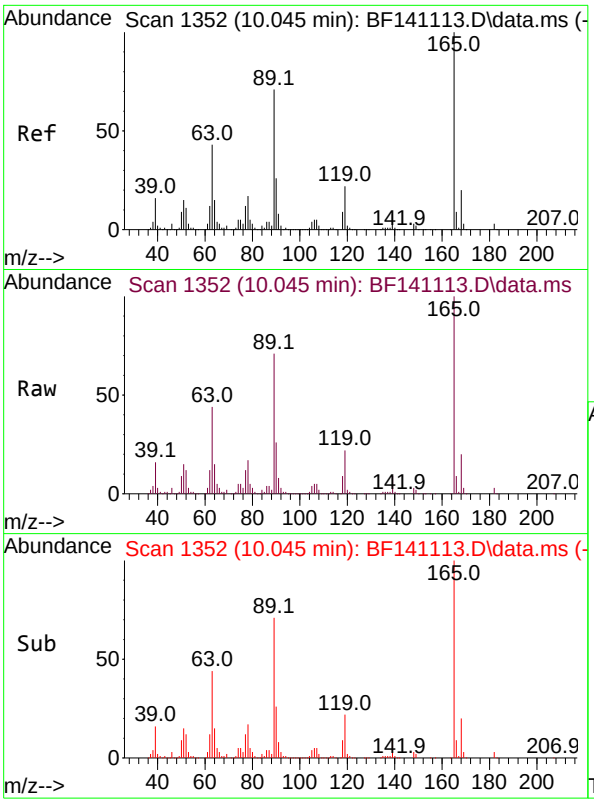


#56
4-Nitrophenol
Concen: 40.228 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:139 Resp: 181889

Ion	Ratio	Lower	Upper
139	100		
109	70.2	50.2	90.2
65	92.1	72.1	112.1



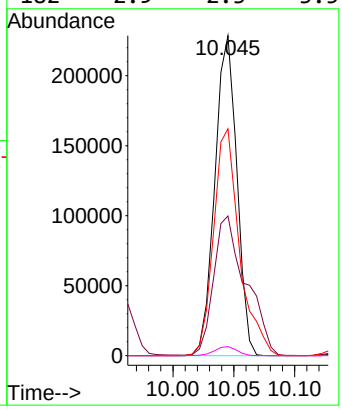


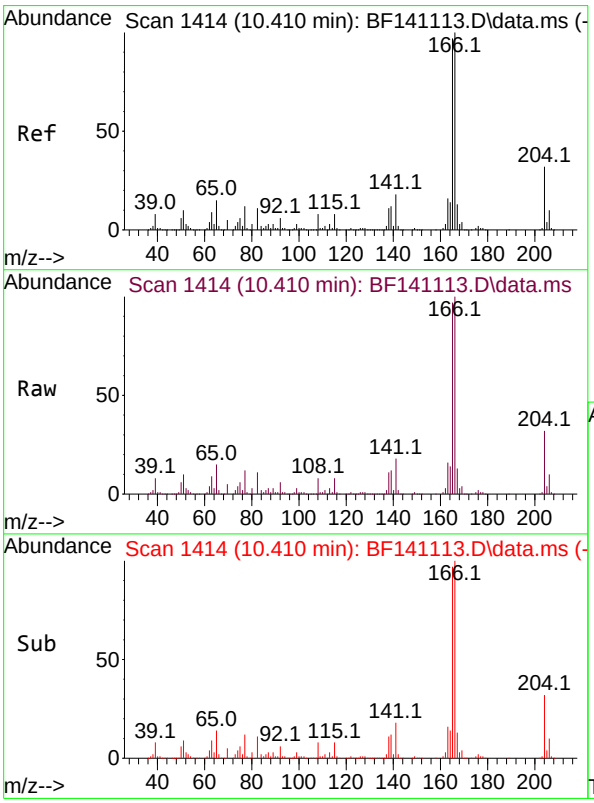
#57
2,4-Dinitrotoluene
Concen: 39.314 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 287835

Ion	Ratio	Lower	Upper
165	100		
63	43.7	35.0	52.4
89	70.9	56.7	85.1
182	2.9	2.3	3.5

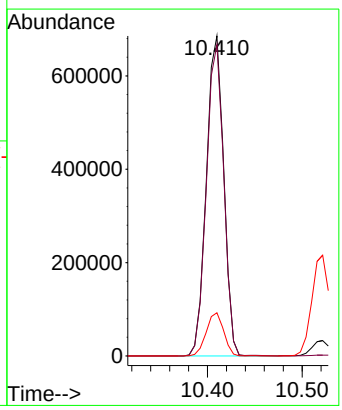


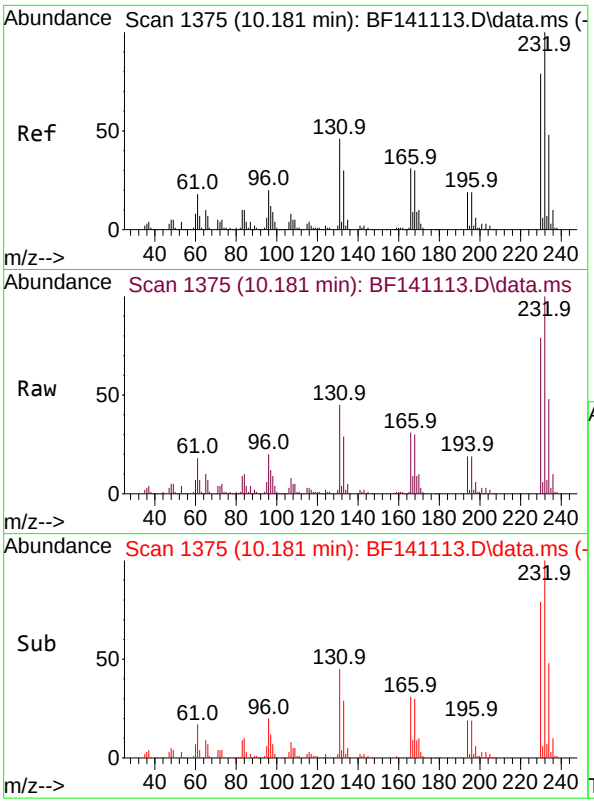


#58
Fluorene
Concen: 37.508 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:166 Resp: 870839

Ion	Ratio	Lower	Upper
166	100		
165	97.3	77.8	116.8
167	13.5	10.8	16.2



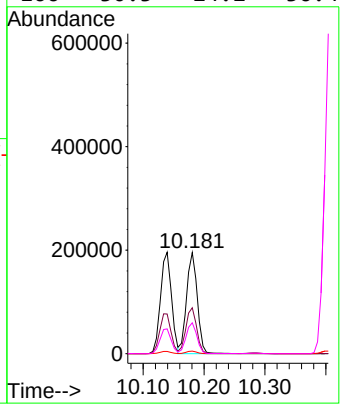


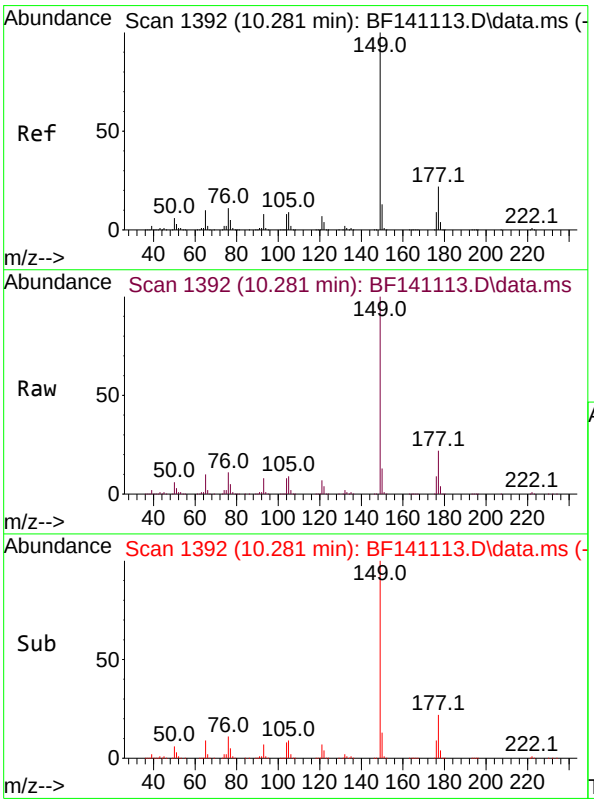
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.022 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 241313

Ion	Ratio	Lower	Upper
232	100		
131	45.3	36.2	54.4
130	2.5	2.0	3.0
166	30.3	24.2	36.4

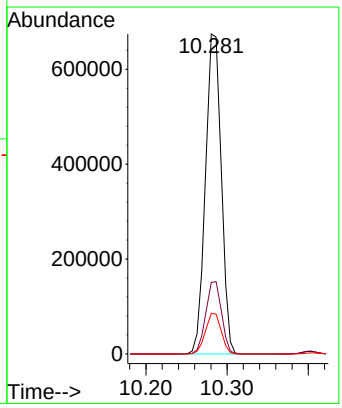


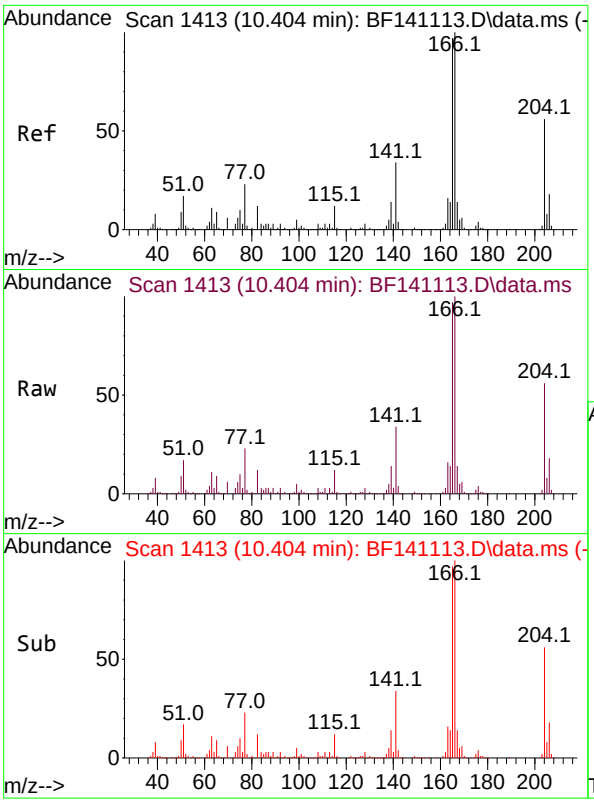


#60
Diethylphthalate
Concen: 38.240 ng
RT: 10.281 min Scan# 1392
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:149 Resp: 912032

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.7	10.2	15.2



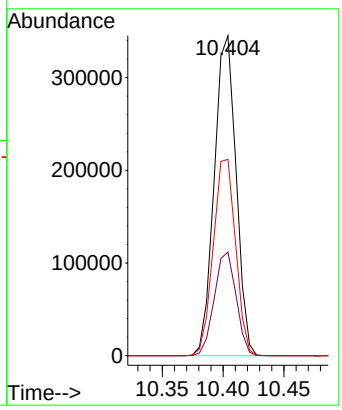


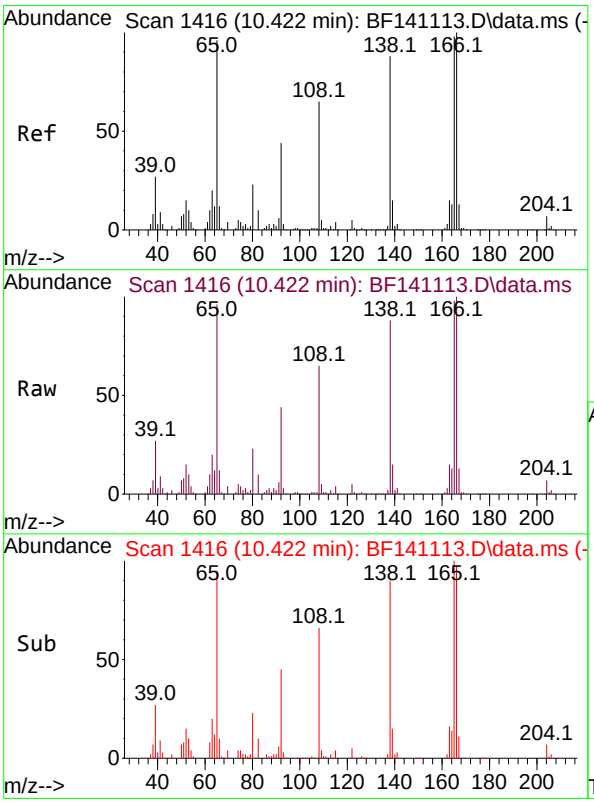
#61
4-Chlorophenyl-phenylether
Concen: 38.175 ng
RT: 10.404 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 431993

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	61.4	49.1	73.7

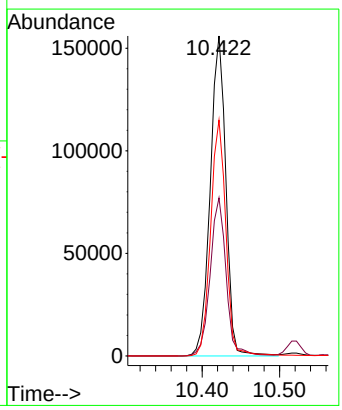


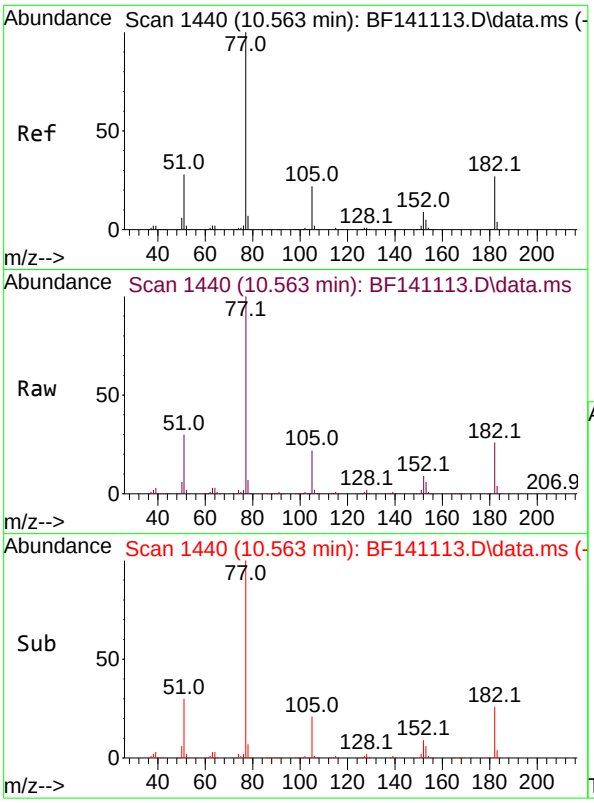


#62
4-Nitroaniline
Concen: 38.644 ng
RT: 10.422 min Scan# 1416
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:138 Resp: 218358

Ion	Ratio	Lower	Upper
138	100		
92	49.4	29.4	69.4
108	73.7	53.7	93.7



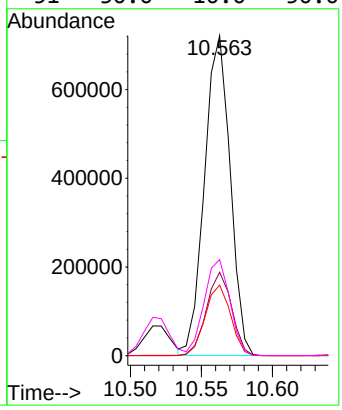


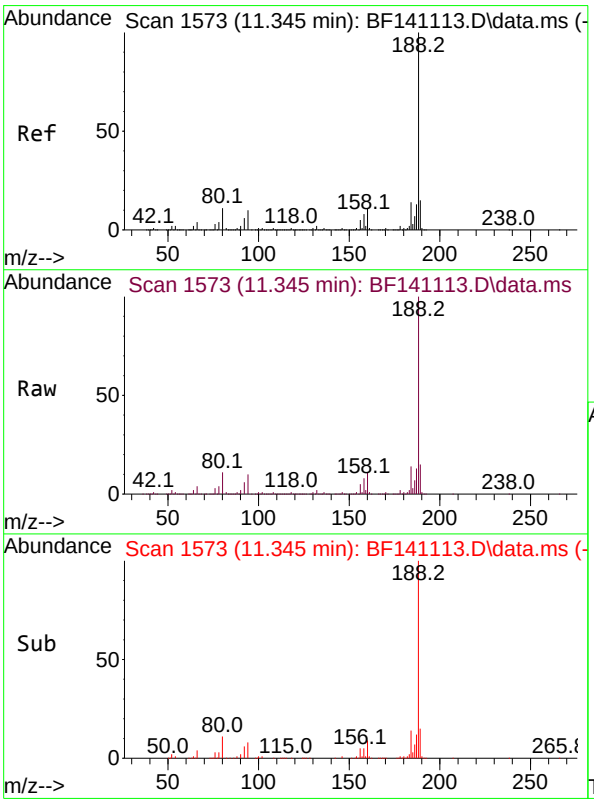
#63
Azobenzene
Concen: 38.497 ng
RT: 10.563 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 905963

Ion	Ratio	Lower	Upper
77	100		
182	26.1	6.1	46.1
105	22.1	2.1	42.1
51	30.0	10.0	50.0

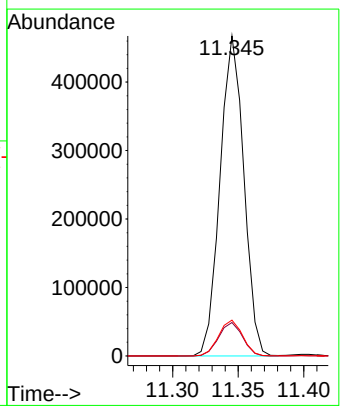


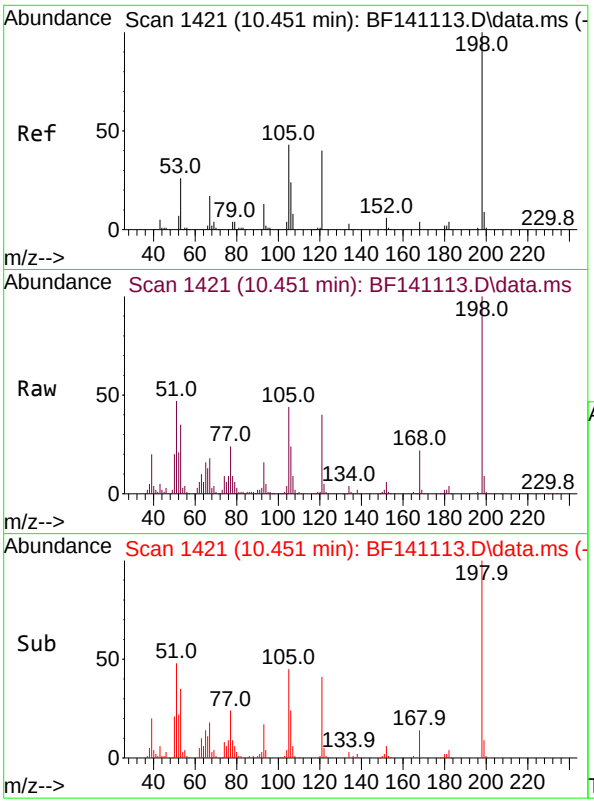


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:188 Resp: 589244

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.3	12.5
80	11.2	9.0	13.4



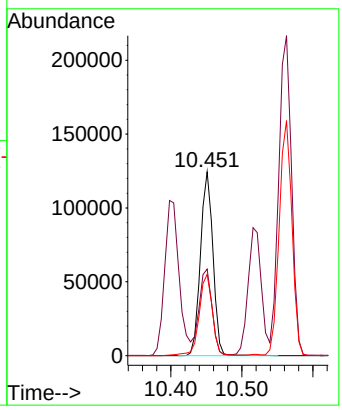


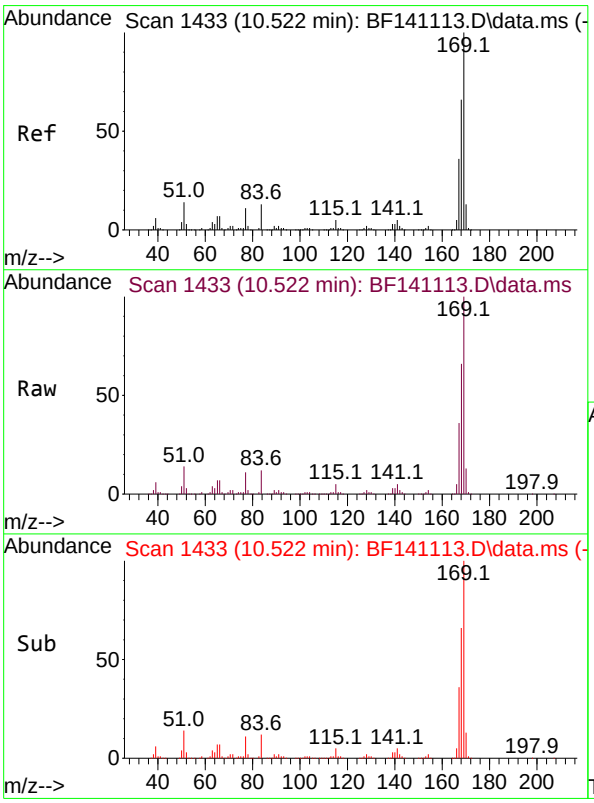
#65
4,6-Dinitro-2-methylphenol
Concen: 44.665 ng
RT: 10.451 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 152510

Ion	Ratio	Lower	Upper
198	100		
51	47.1	27.1	67.1
105	44.2	24.2	64.2

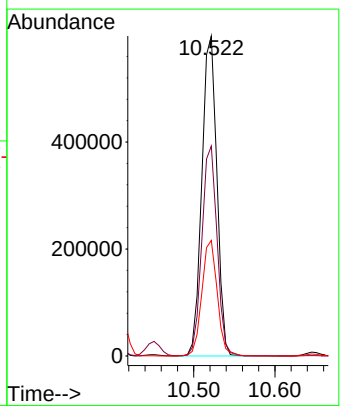


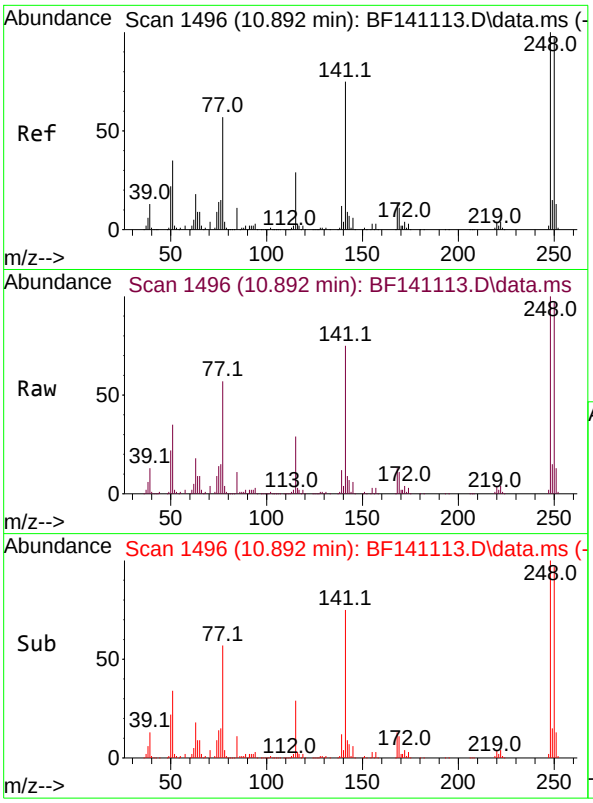


#66
n-Nitrosodiphenylamine
Concen: 40.343 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:169 Resp: 766755

Ion	Ratio	Lower	Upper
169	100		
168	65.6	52.5	78.7
167	36.1	28.9	43.3



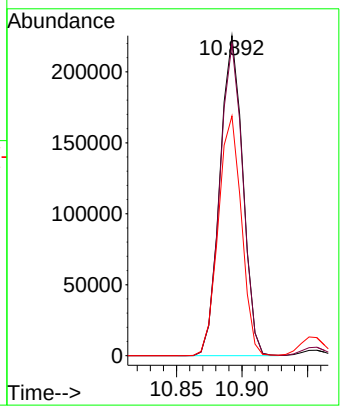


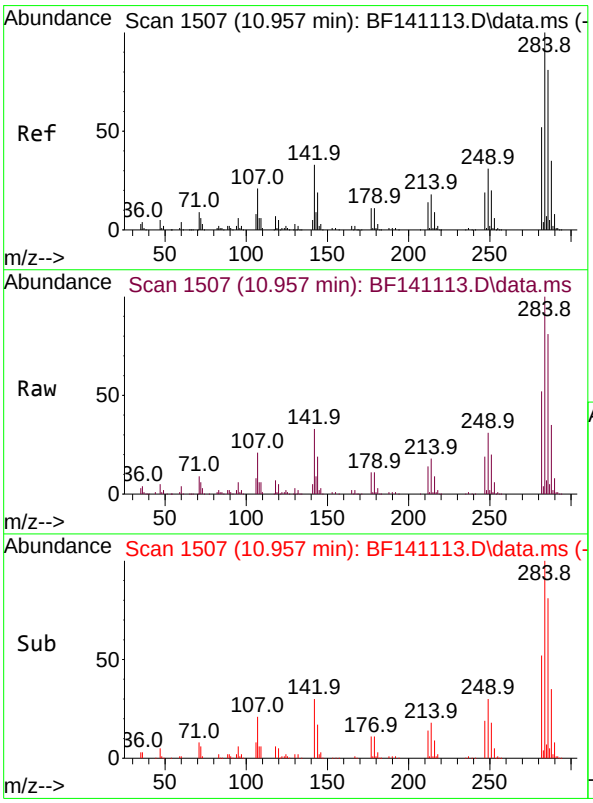
#67
4-Bromophenyl-phenylether
Concen: 40.247 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 273038

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.9	116.9
141	74.9	59.9	89.9

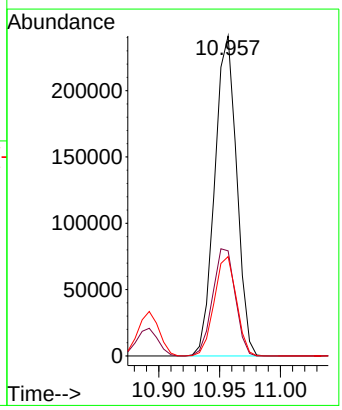


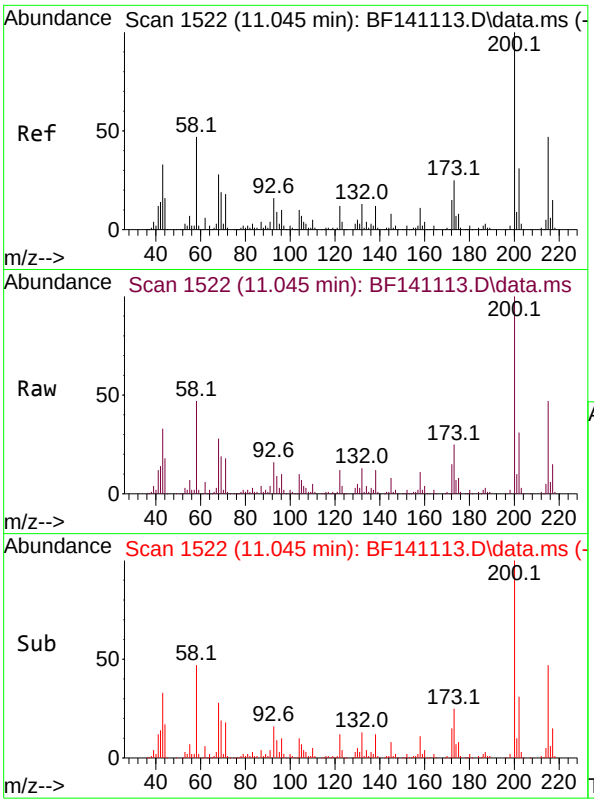


#68
Hexachlorobenzene
Concen: 40.165 ng
RT: 10.957 min Scan# 1507
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:284 Resp: 303316

Ion	Ratio	Lower	Upper
284	100		
142	32.9	26.3	39.5
249	31.1	24.9	37.3



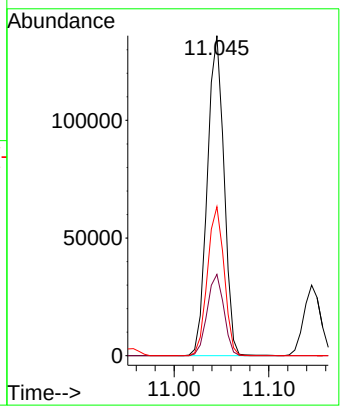


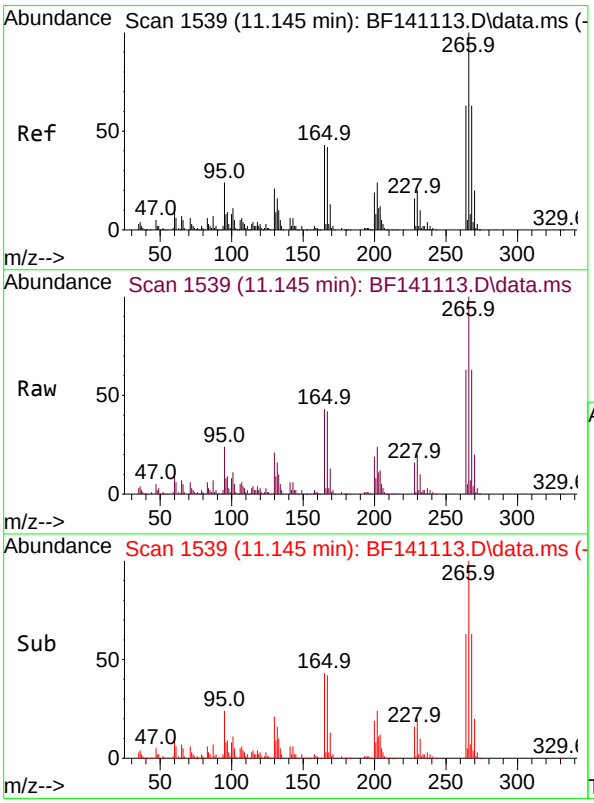
#69
Atrazine
Concen: 32.462 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 166125

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.4	45.4
215	46.6	26.6	66.6

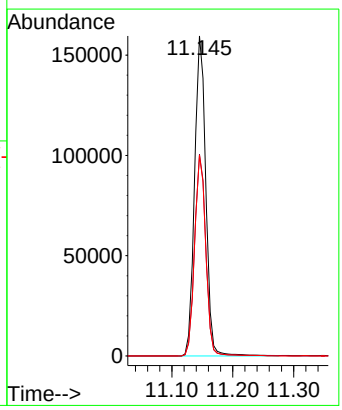


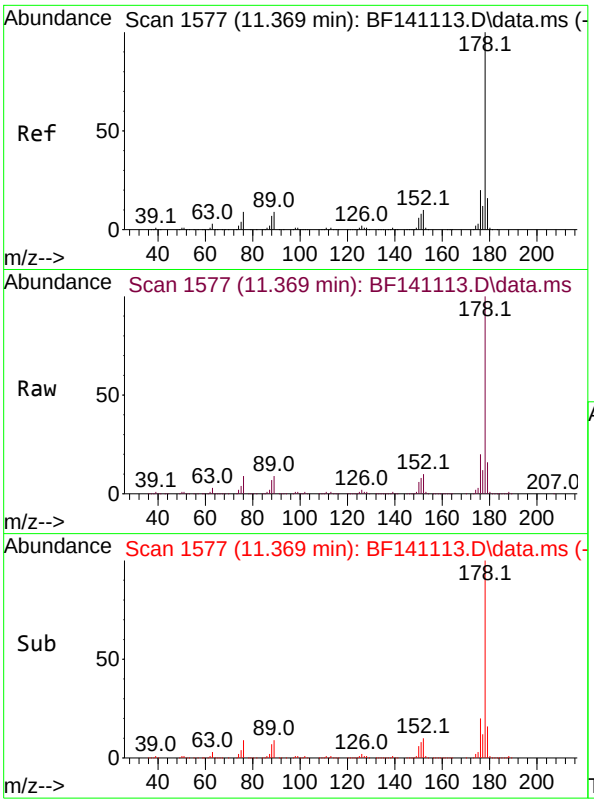


#70
Pentachlorophenol
Concen: 42.241 ng
RT: 11.145 min Scan# 1539
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:266 Resp: 204286

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.4	75.6
264	62.7	50.2	75.2



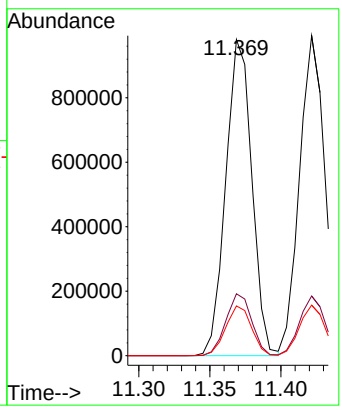


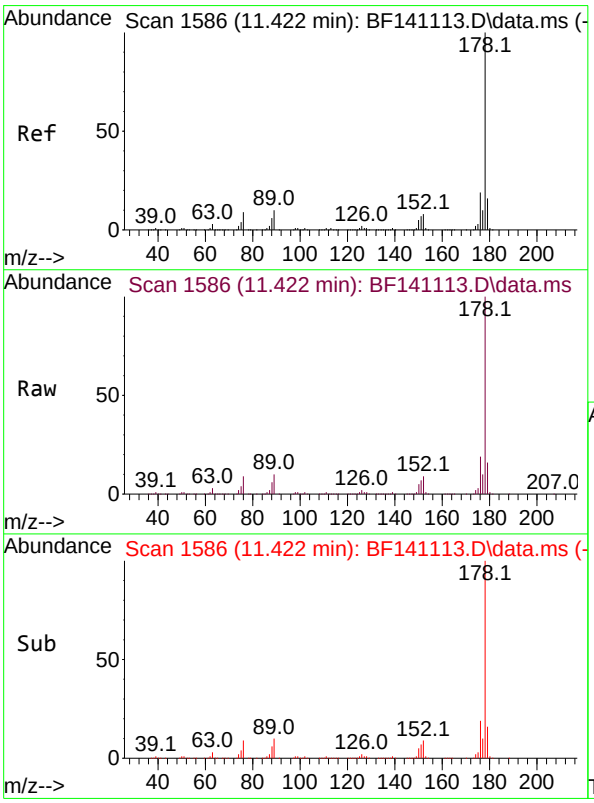
#71
Phenanthrene
Concen: 39.653 ng
RT: 11.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1254420

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.8	12.6	19.0

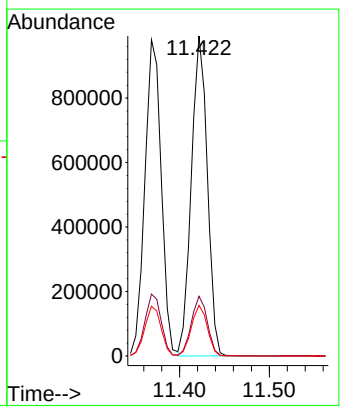


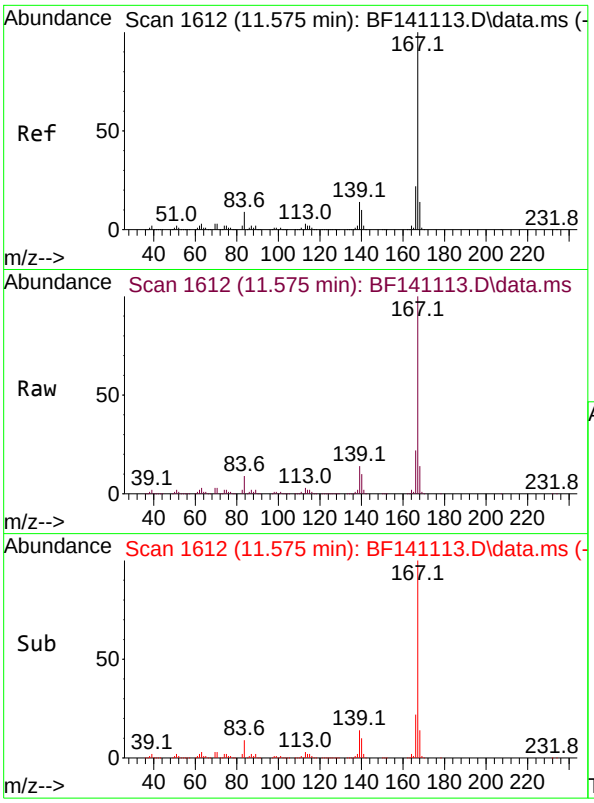


#72
Anthracene
Concen: 39.920 ng
RT: 11.422 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:178 Resp: 1227926

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.8	12.6	19.0



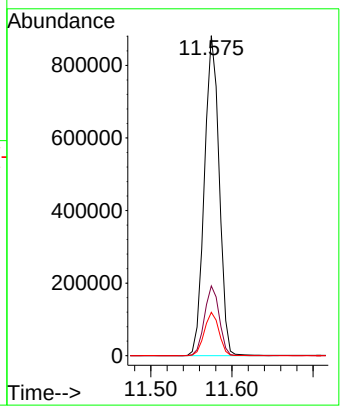


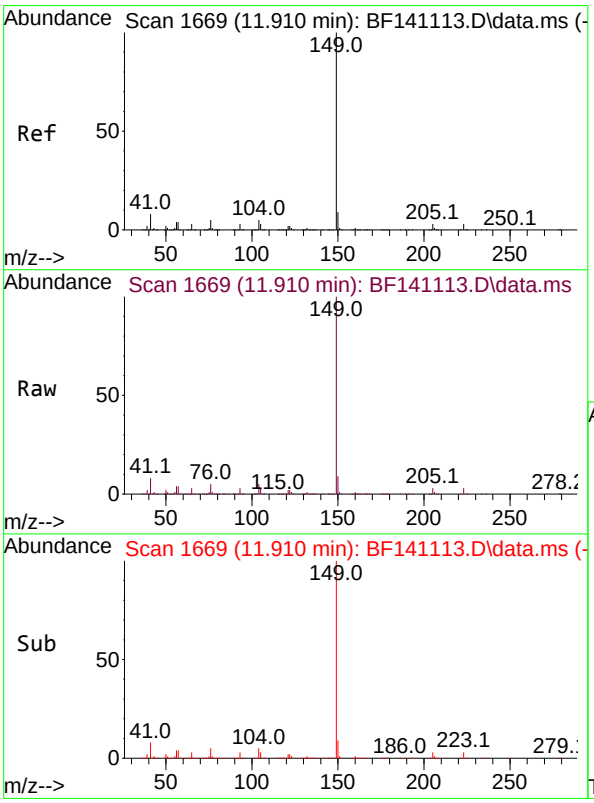
#73
Carbazole
Concen: 39.450 ng
RT: 11.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1112672

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.6	10.9	16.3

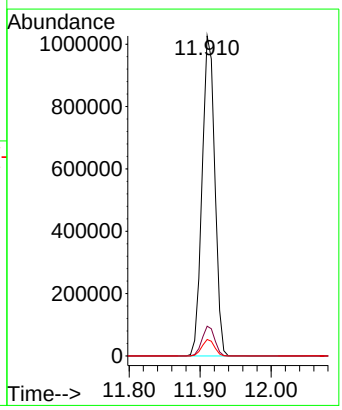


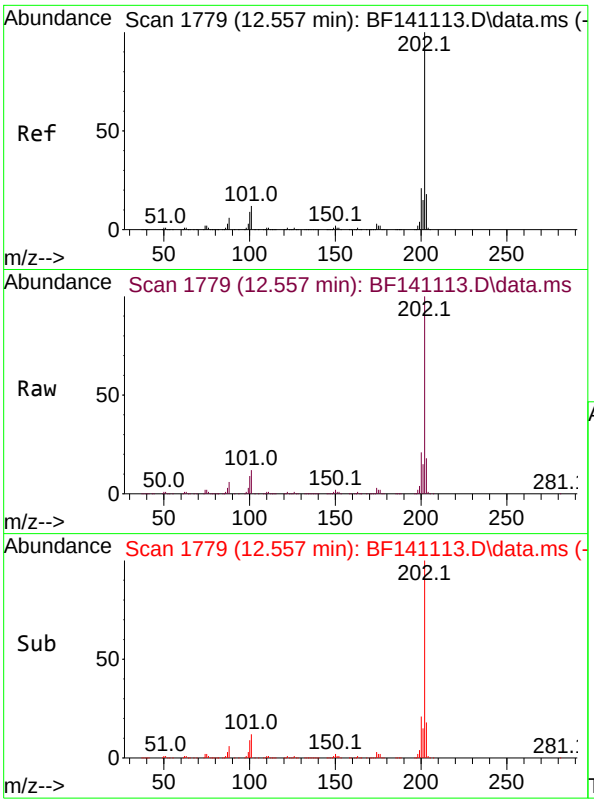


#74
Di-n-butylphthalate
Concen: 39.669 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:149 Resp: 1280428

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.2	4.2	6.2



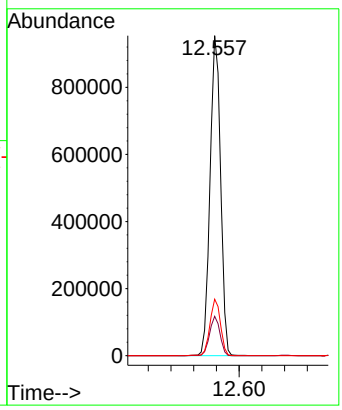


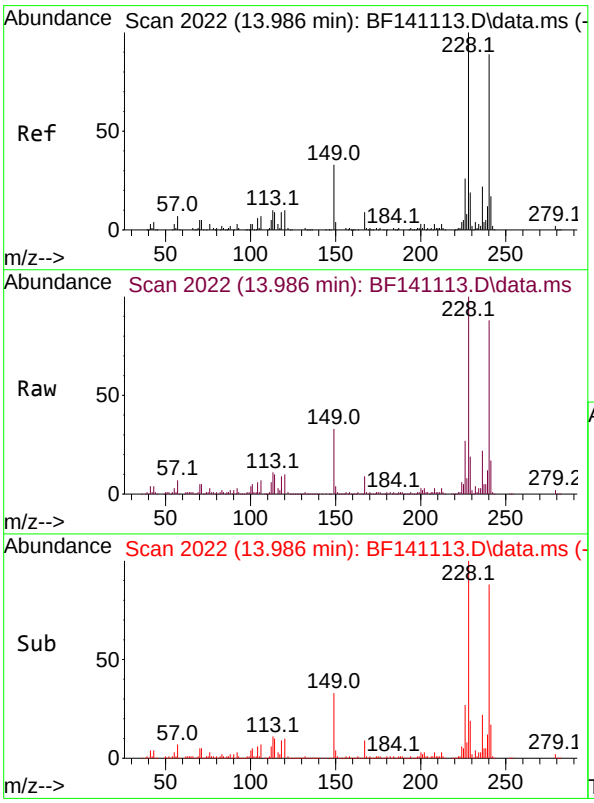
#75
Fluoranthene
Concen: 38.718 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 1222253

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	32.3
203	17.7	0.0	37.7

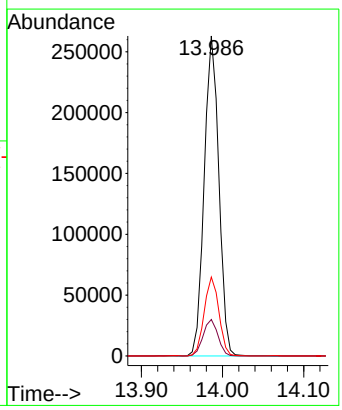


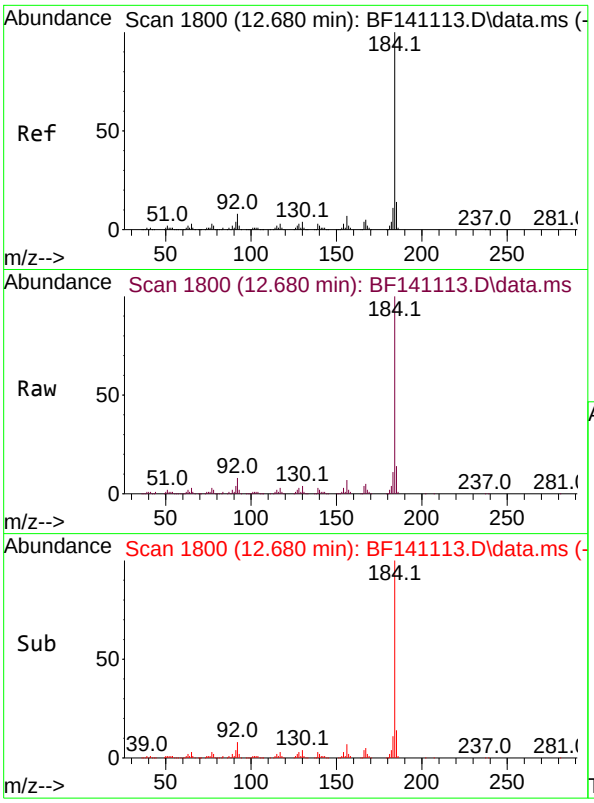


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:240 Resp: 328095

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.1	13.7
236	24.7	19.8	29.6



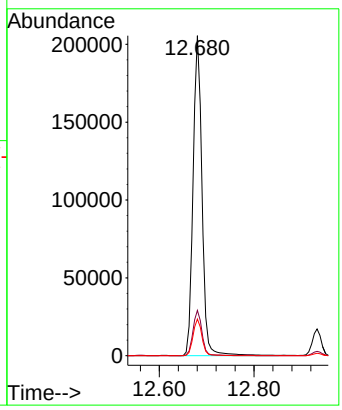


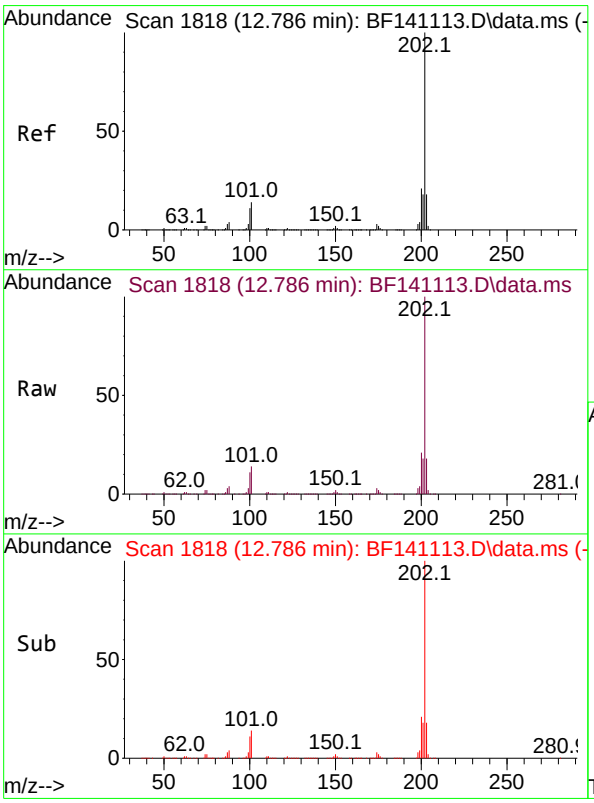
#77
Benzidine
Concen: 44.102 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 268331

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.4	17.0
183	11.5	9.2	13.8

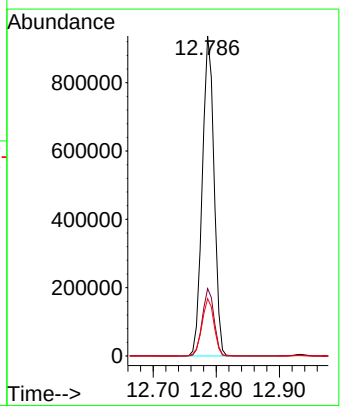


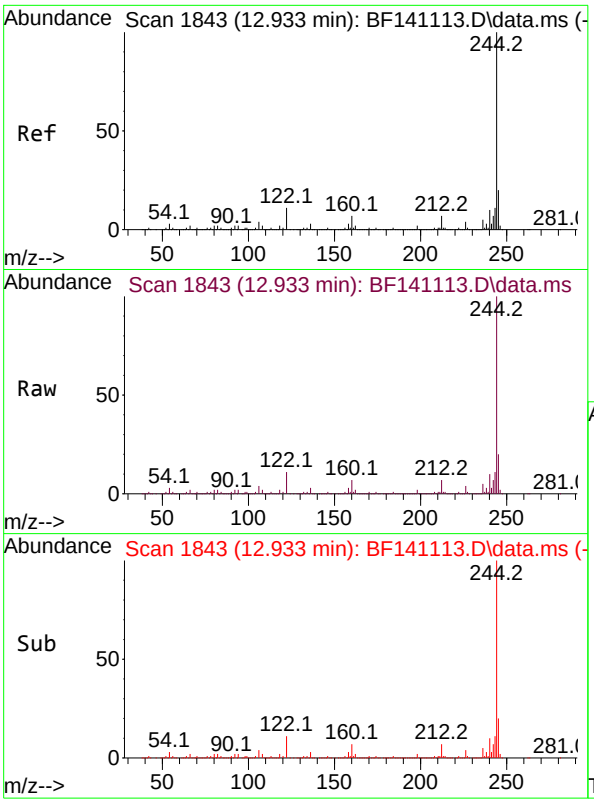


#78
Pyrene
Concen: 38.696 ng
RT: 12.786 min Scan# 1818
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:202 Resp: 1212637

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.9	14.3	21.5



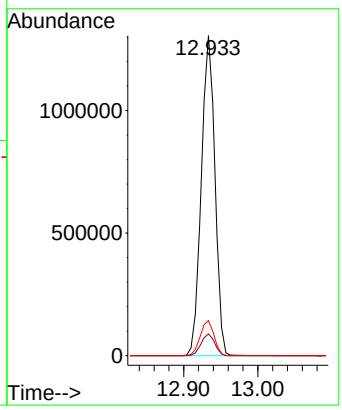


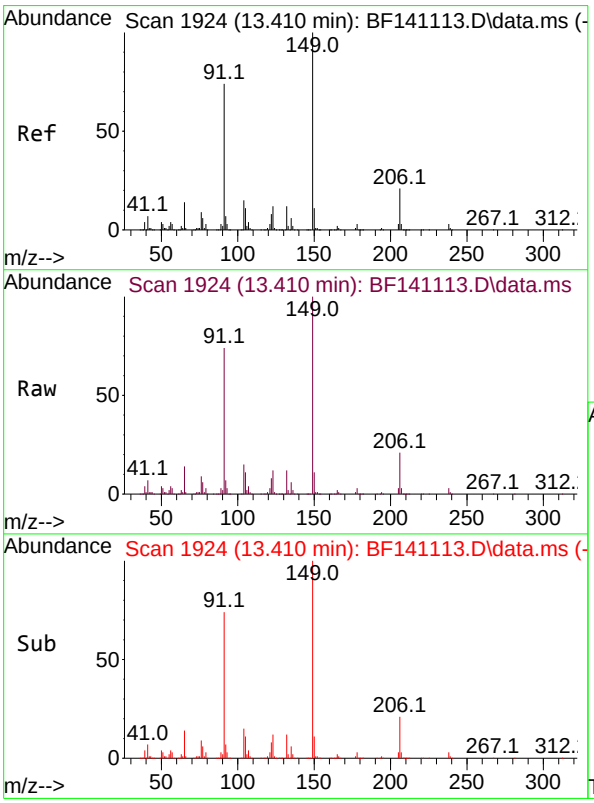
#79
Terphenyl-d14
Concen: 75.616 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1669190

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	11.0	8.8	13.2

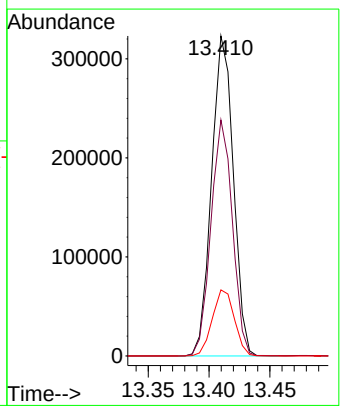


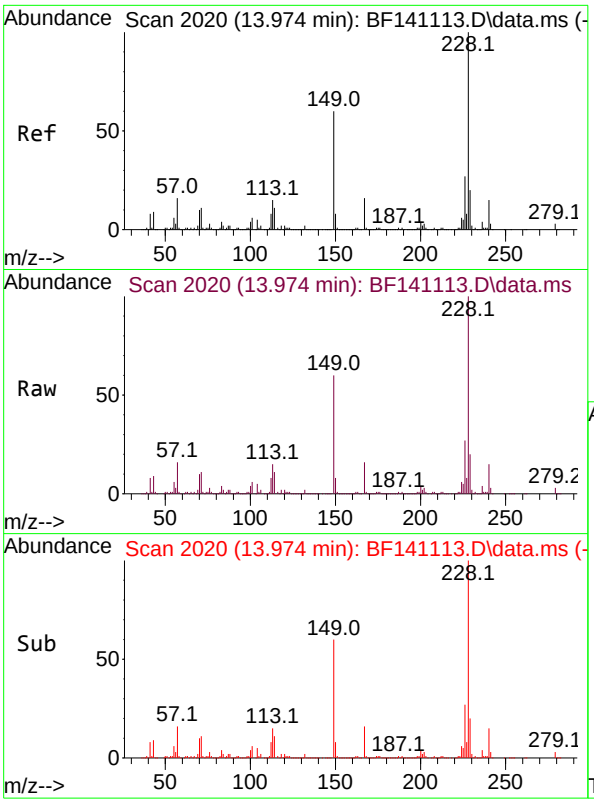


#80
Butylbenzylphthalate
Concen: 38.580 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:149 Resp: 403087

Ion	Ratio	Lower	Upper
149	100		
91	73.8	59.0	88.6
206	20.6	16.5	24.7



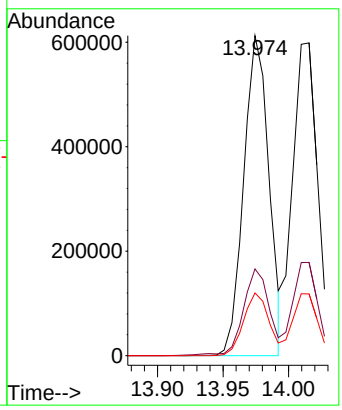


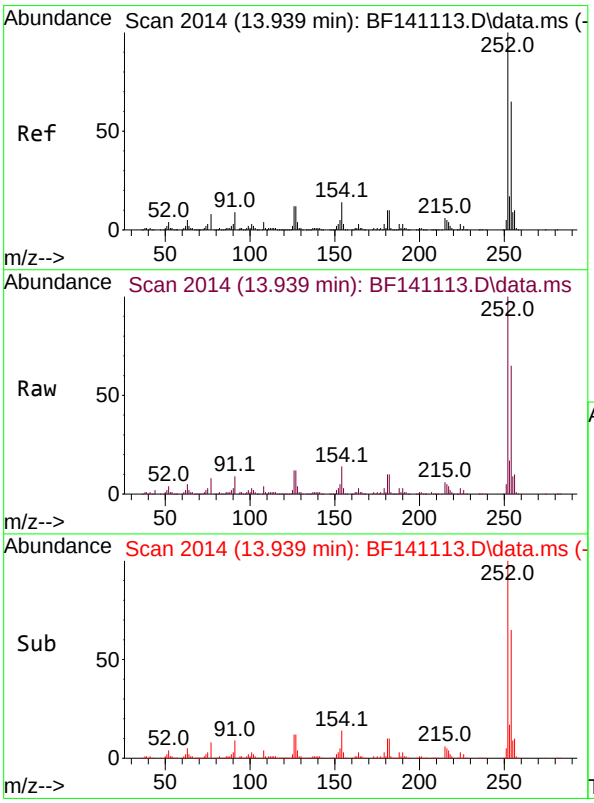
#81
Benzo(a)anthracene
Concen: 36.599 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 817209

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.7	32.5
229	19.6	15.7	23.5

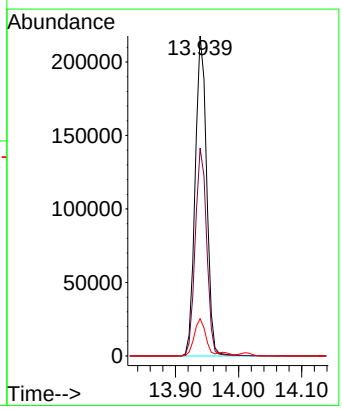


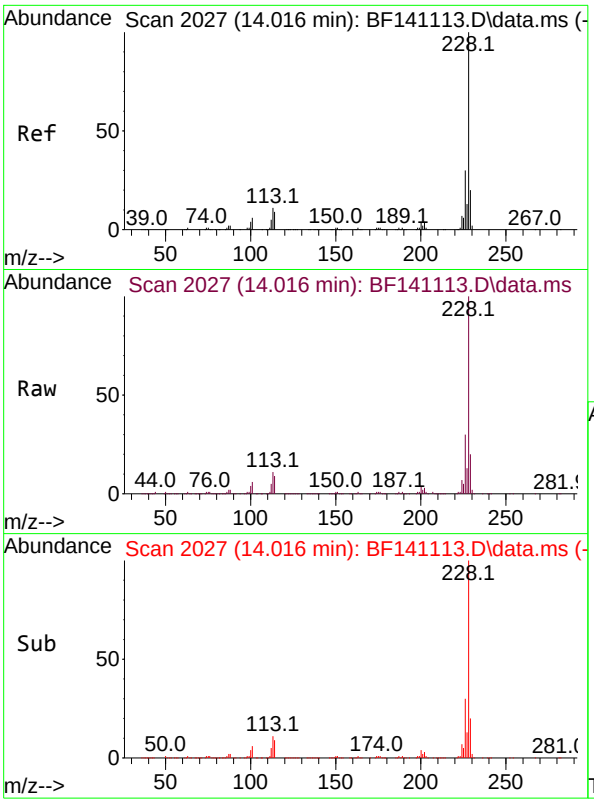


#82
3,3'-Dichlorobenzidine
Concen: 38.575 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:252 Resp: 274265

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.0	78.0
126	11.7	9.4	14.0



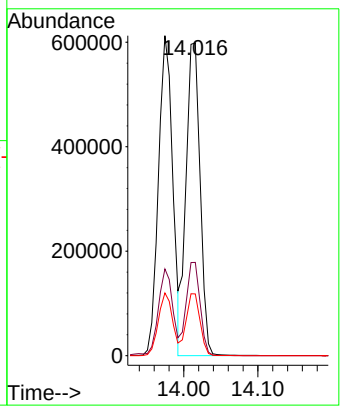


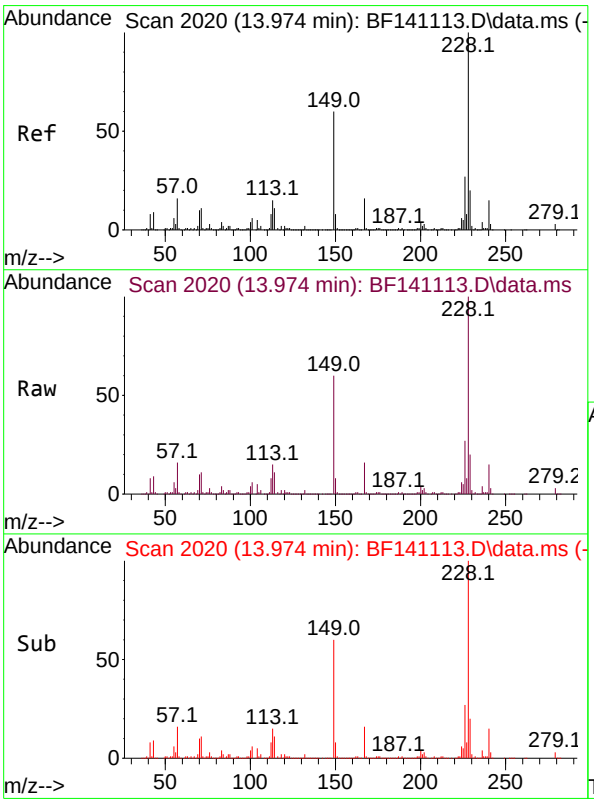
#83
Chrysene
Concen: 37.894 ng
RT: 14.016 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 791711

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	19.8	15.8	23.8

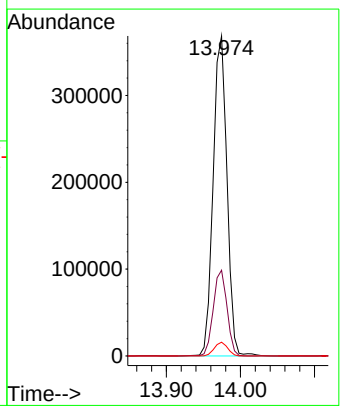


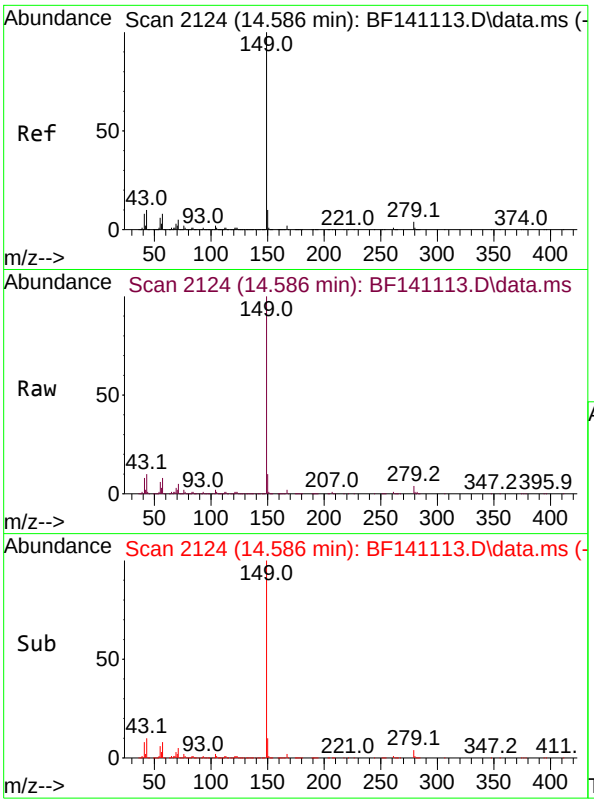


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.010 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:149 Resp: 476500

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.2
279	4.3	3.4	5.2



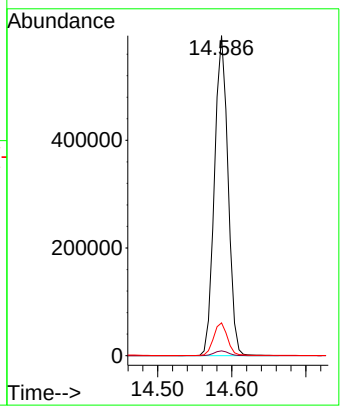


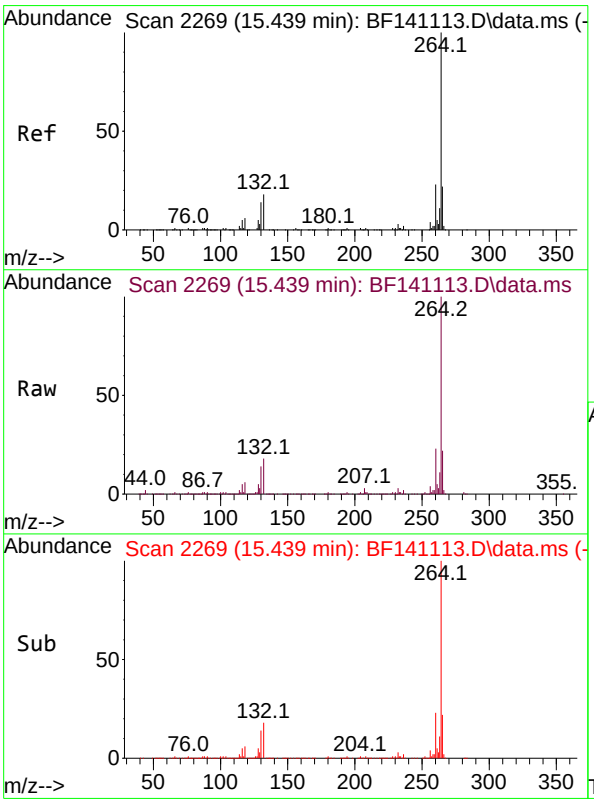
#85
Di-n-octyl phthalate
Concen: 39.906 ng
RT: 14.586 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 755449

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.5	8.4	12.6

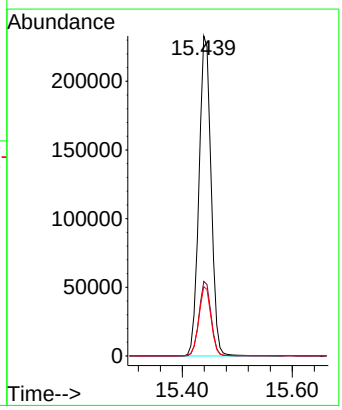


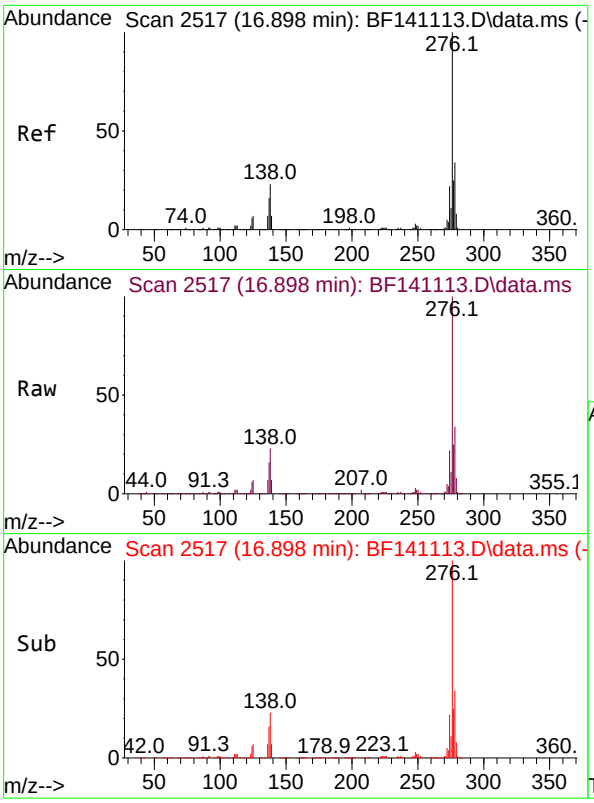


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:264 Resp: 356368

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.7	17.4	26.0



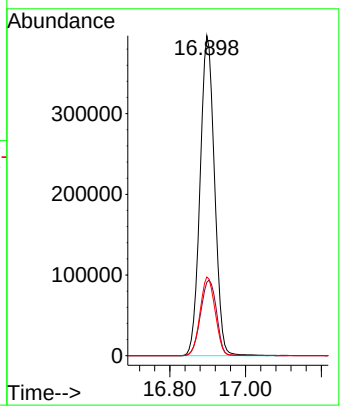


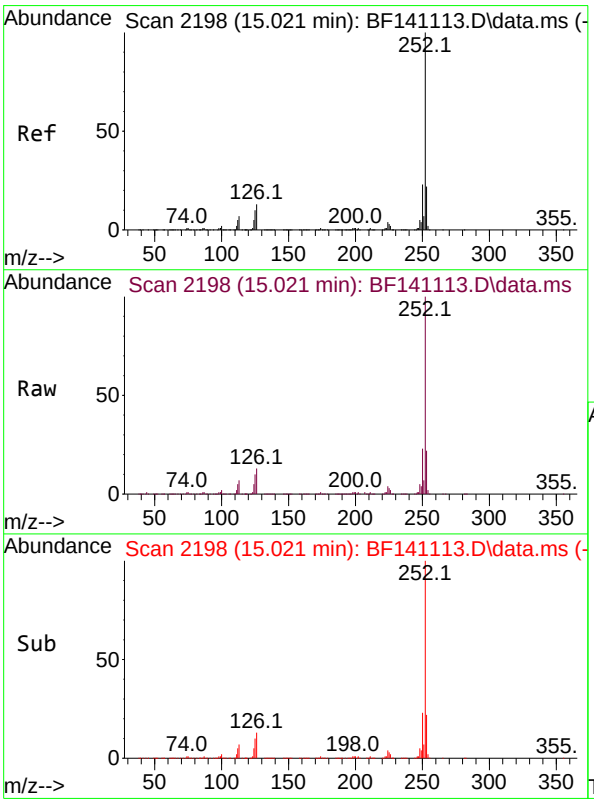
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.183 ng
RT: 16.898 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 1049124

Ion	Ratio	Lower	Upper
276	100		
138	25.9	20.7	31.1
277	25.7	20.6	30.8

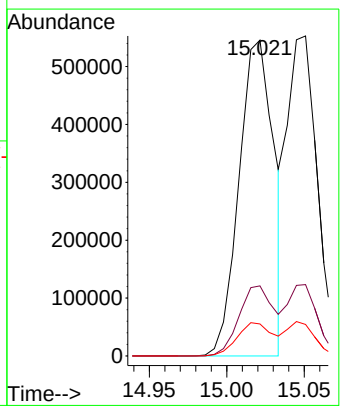


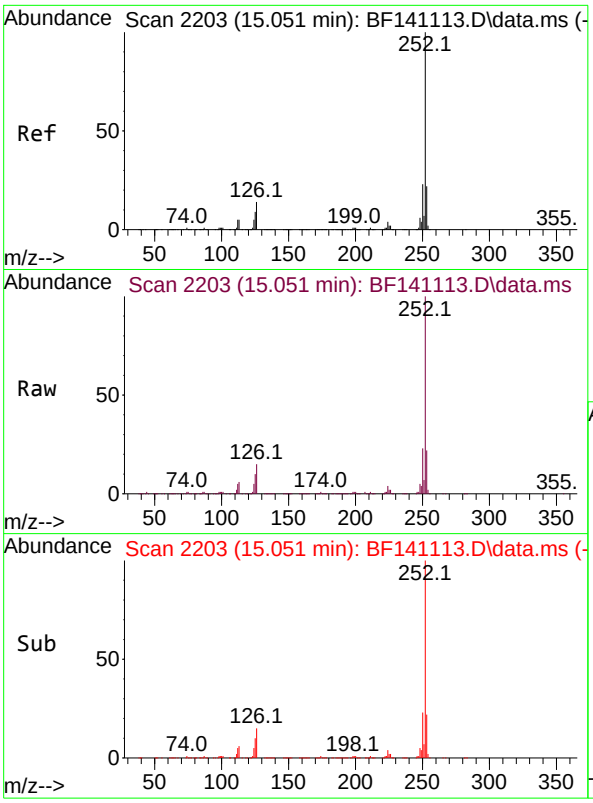


#88
Benzo(b)fluoranthene
Concen: 37.238 ng
RT: 15.021 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:252 Resp: 855723

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.1	8.1	12.1



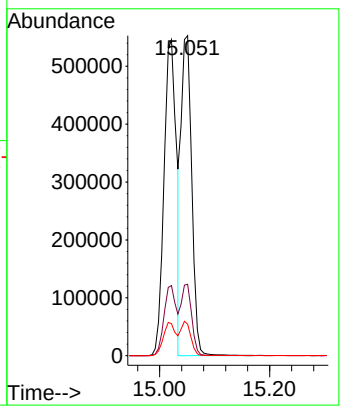


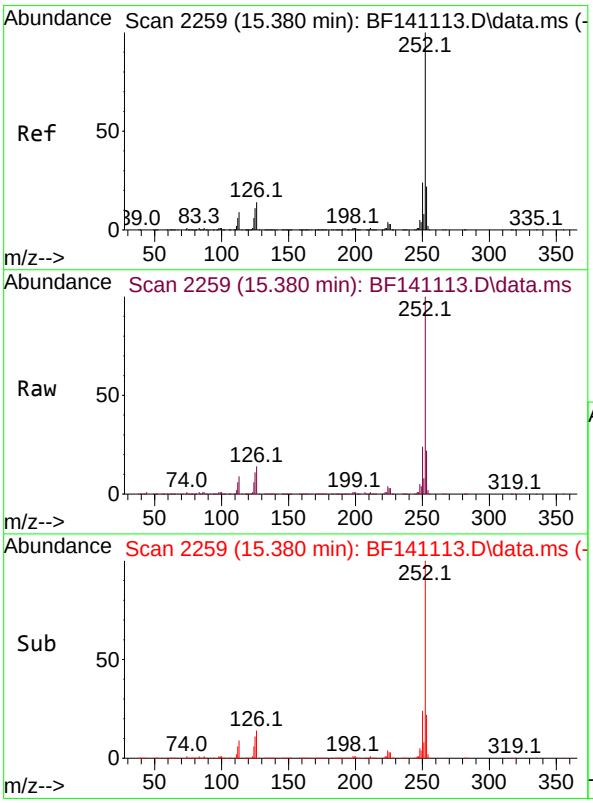
#89
Benzo(k)fluoranthene
Concen: 38.272 ng
RT: 15.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 743248

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	9.9	7.9	11.9

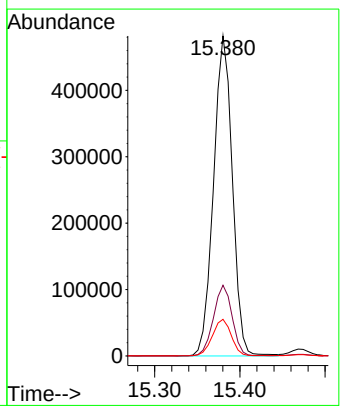


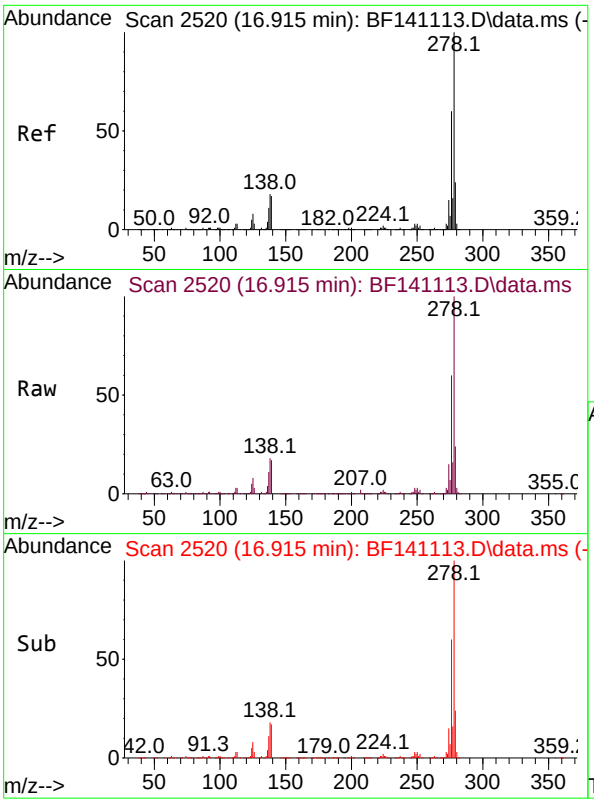


#90
Benzo(a)pyrene
Concen: 39.043 ng
RT: 15.380 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:252 Resp: 740229

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	11.4	9.1	13.7



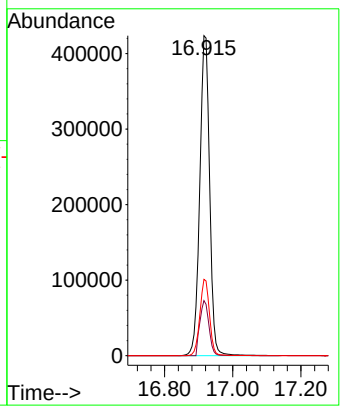


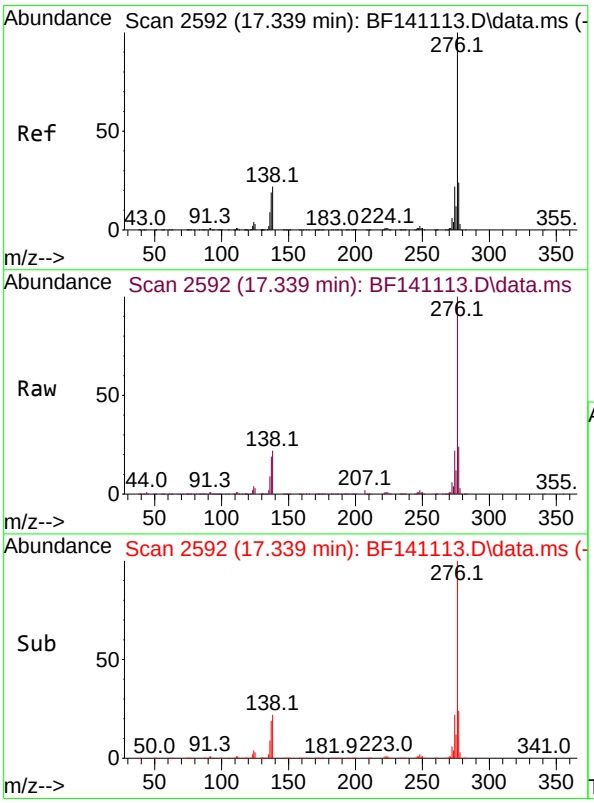
#91
Dibenzo(a,h)anthracene
Concen: 40.391 ng
RT: 16.915 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 852935

Ion	Ratio	Lower	Upper
278	100		
139	17.2	13.8	20.6
279	23.9	19.1	28.7

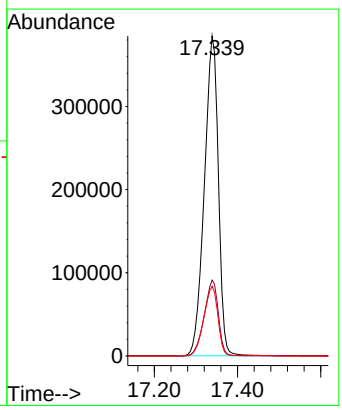




#92
Benzo(g,h,i)perylene
Concen: 40.976 ng
RT: 17.339 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BF141113.D
Acq: 10 Jan 2025 14:36

Tgt Ion:276 Resp: 900014

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	21.8	17.4	26.2



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141117.D
Acq On : 10 Jan 2025 16:53
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jan 10 22:22:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	163037	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	625072	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	333513	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	593257	20.000	ng		0.00
76) Chrysene-d12	13.998	240	341879	20.000	ng		0.01
86) Perylene-d12	15.468	264	333662	20.000	ng		0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	1007728	95.484	ng		0.00
7) Phenol-d6	6.445	99	1279370	95.699	ng		0.00
23) Nitrobenzene-d5	7.386	82	1156878	98.108	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	383942	101.033	ng		0.00
45) 2-Fluorobiphenyl	9.180	172	2040487	93.427	ng		0.00
79) Terphenyl-d14	12.939	244	2188278	95.134	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.546	88	233484	49.679	ng		98
3) Pyridine	3.287	79	555795	48.225	ng		98
4) n-Nitrosodimethylamine	3.240	42	280365	49.752	ng		98
6) Aniline	6.487	93	564714	47.577	ng		99
8) 2-Chlorophenol	6.604	128	545244	48.153	ng		99
9) Benzaldehyde	6.369	77	318659	42.669	ng		100
10) Phenol	6.463	94	678615	47.420	ng		98
11) bis(2-Chloroethyl)ether	6.557	93	521191	48.869	ng		98
12) 1,3-Dichlorobenzene	6.763	146	613813	48.605	ng		99
13) 1,4-Dichlorobenzene	6.839	146	609332	47.881	ng		99
14) 1,2-Dichlorobenzene	6.992	146	565717	47.656	ng		99
15) Benzyl Alcohol	6.963	79	474583	49.156	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.098	45	711735	47.824	ng		100
17) 2-Methylphenol	7.069	107	444678	48.644	ng		100
18) Hexachloroethane	7.334	117	224751	48.837	ng		98
19) n-Nitroso-di-n-propyla...	7.239	70	373068	47.373	ng		98
20) 3+4-Methylphenols	7.228	107	546998	47.429	ng	#	85
22) Acetophenone	7.234	105	711333	47.871	ng		98
24) Nitrobenzene	7.404	77	599817	48.807	ng		99
25) Isophorone	7.645	82	982492	48.754	ng		99
26) 2-Nitrophenol	7.722	139	287436	51.416	ng		99
27) 2,4-Dimethylphenol	7.751	122	374236	49.629	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	614567	48.594	ng		99
29) 2,4-Dichlorophenol	7.957	162	447208	49.935	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	495397	48.394	ng		99
31) Naphthalene	8.128	128	1598576	48.495	ng		100
32) Benzoic acid	7.869	122	391608	54.138	ng		98
33) 4-Chloroaniline	8.175	127	544930	47.801	ng		99
34) Hexachlorobutadiene	8.245	225	302873	49.102	ng		99
35) Caprolactam	8.545	113	146669m	49.927	ng		
36) 4-Chloro-3-methylphenol	8.651	107	488345	49.859	ng		99
37) 2-Methylnaphthalene	8.816	142	1021264	48.619	ng		98
38) 1-Methylnaphthalene	8.916	142	992651	47.950	ng		99
40) 1,2,4,5-Tetrachloroben...	8.980	216	460261	48.082	ng		99
41) Hexachlorocyclopentadiene	8.969	237	157828	50.395	ng		99
43) 2,4,6-Trichlorophenol	9.092	196	318276	49.299	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141117.D
Acq On : 10 Jan 2025 16:53
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jan 10 22:22:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	342288	50.201	ng		98
46) 1,1'-Biphenyl	9.286	154	1243305	48.003	ng		99
47) 2-Chloronaphthalene	9.310	162	979002	48.530	ng		99
48) 2-Nitroaniline	9.398	65	304048	50.844	ng		96
49) Acenaphthylene	9.722	152	1398990	48.539	ng		100
50) Dimethylphthalate	9.586	163	1098805	49.076	ng		100
51) 2,6-Dinitrotoluene	9.645	165	262596	50.434	ng		96
52) Acenaphthene	9.898	154	988008	49.066	ng		99
53) 3-Nitroaniline	9.810	138	266881	50.440	ng		97
54) 2,4-Dinitrophenol	9.916	184	139903	56.530	ng	#	86
55) Dibenzofuran	10.069	168	1321844	48.261	ng		100
56) 4-Nitrophenol	9.963	139	220382	53.183	ng		95
57) 2,4-Dinitrotoluene	10.045	165	353808	52.728	ng		97
58) Fluorene	10.410	166	1011650	47.543	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	277818	49.019	ng		98
60) Diethylphthalate	10.286	149	1074789	49.171	ng		100
61) 4-Chlorophenyl-phenyle...	10.404	204	494329	47.665	ng		97
62) 4-Nitroaniline	10.427	138	269415	52.024	ng		98
63) Azobenzene	10.563	77	1054277	48.881	ng		99
65) 4,6-Dinitro-2-methylph...	10.457	198	192136	55.890	ng		95
66) n-Nitrosodiphenylamine	10.522	169	894530	46.748	ng		99
67) 4-Bromophenyl-phenylether	10.892	248	326554	47.810	ng		99
68) Hexachlorobenzene	10.957	284	361542	47.551	ng		99
69) Atrazine	11.051	200	272232	52.837	ng		99
70) Pentachlorophenol	11.145	266	250381	51.422	ng		99
71) Phenanthrene	11.374	178	1503408	47.203	ng		99
72) Anthracene	11.422	178	1473797	47.589	ng		100
73) Carbazole	11.580	167	1386206	48.815	ng		100
74) Di-n-butylphthalate	11.916	149	1600680	49.255	ng		100
75) Fluoranthene	12.563	202	1558556	49.037	ng		99
77) Benzidine	12.680	184	290459	45.814	ng		99
78) Pyrene	12.792	202	1571607	48.129	ng		99
80) Butylbenzylphthalate	13.416	149	578964	53.179	ng		98
81) Benzo(a)anthracene	13.986	228	1136119	48.830	ng		100
82) 3,3'-Dichlorobenzidine	13.951	252	364178	49.156	ng		99
83) Chrysene	14.021	228	1057551	48.577	ng		99
84) Bis(2-ethylhexyl)phtha...	13.980	149	700052	53.591	ng		99
85) Di-n-octyl phthalate	14.610	149	1055383	53.503	ng		100
87) Indeno(1,2,3-cd)pyrene	16.933	276	1185030	48.477	ng		99
88) Benzo(b)fluoranthene	15.045	252	1096957	50.984	ng		100
89) Benzo(k)fluoranthene	15.074	252	865456	47.598	ng		99
90) Benzo(a)pyrene	15.410	252	874134	49.243	ng		100
91) Dibenzo(a,h)anthracene	16.956	278	959595	48.535	ng		99
92) Benzo(g,h,i)perylene	17.380	276	996659	48.464	ng		99

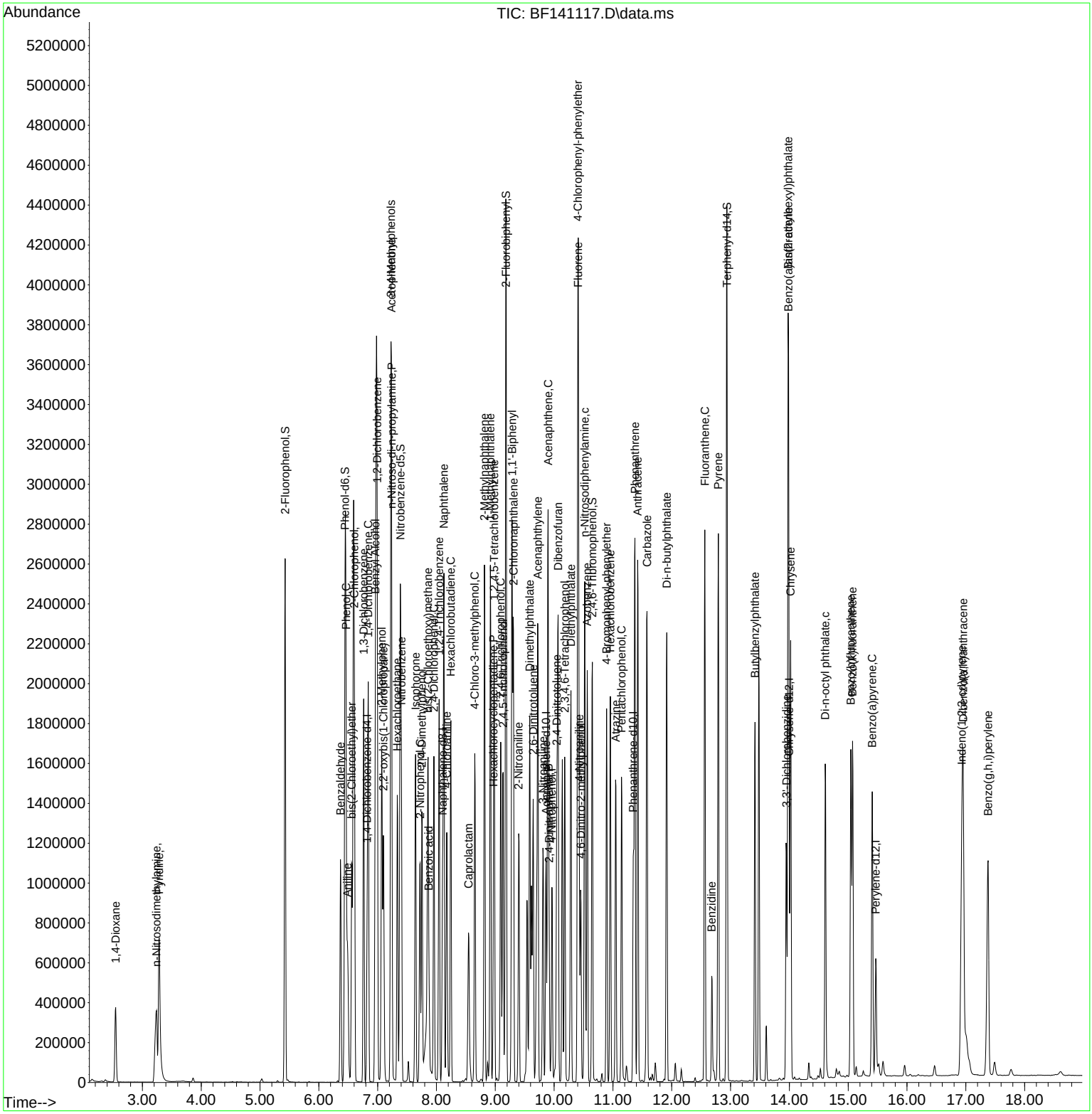
(#) = qualifier out of range (m) = manual integration (+) = signals summed

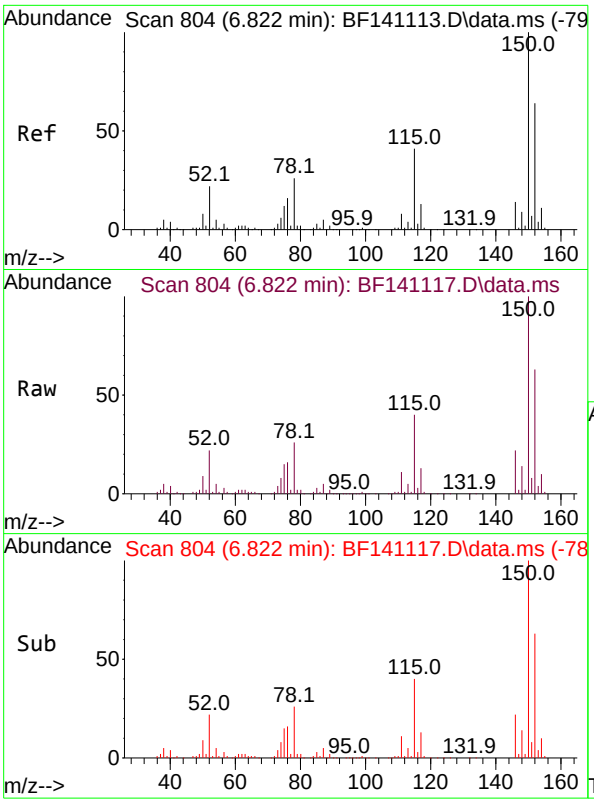
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141117.D
Acq On : 10 Jan 2025 16:53
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jan 10 22:22:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



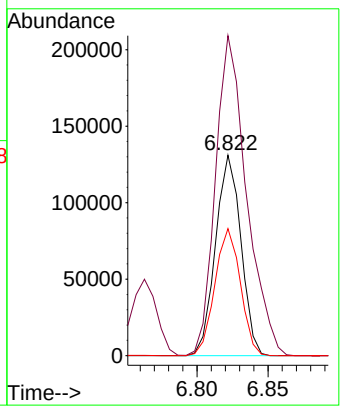


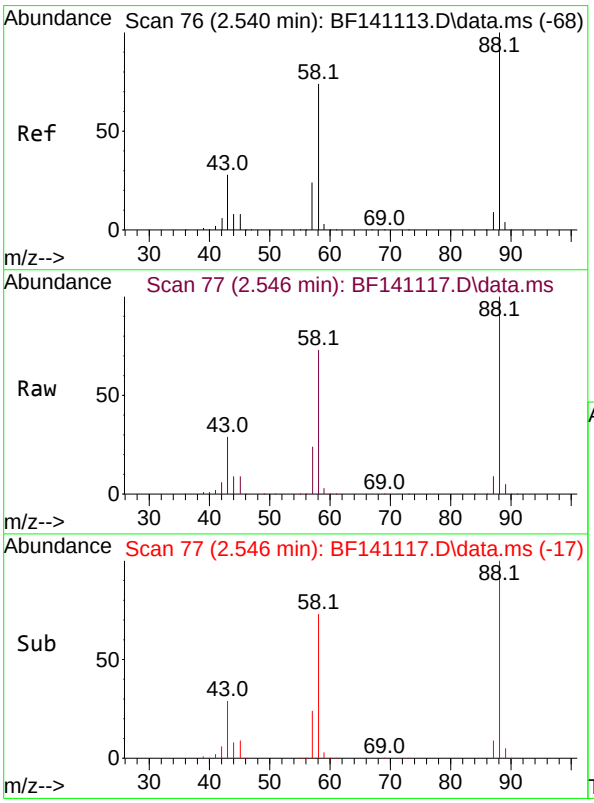
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 163037

Ion	Ratio	Lower	Upper
152	100		
150	159.6	125.8	188.8
115	63.4	51.4	77.2

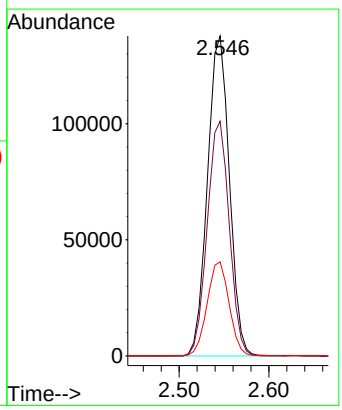


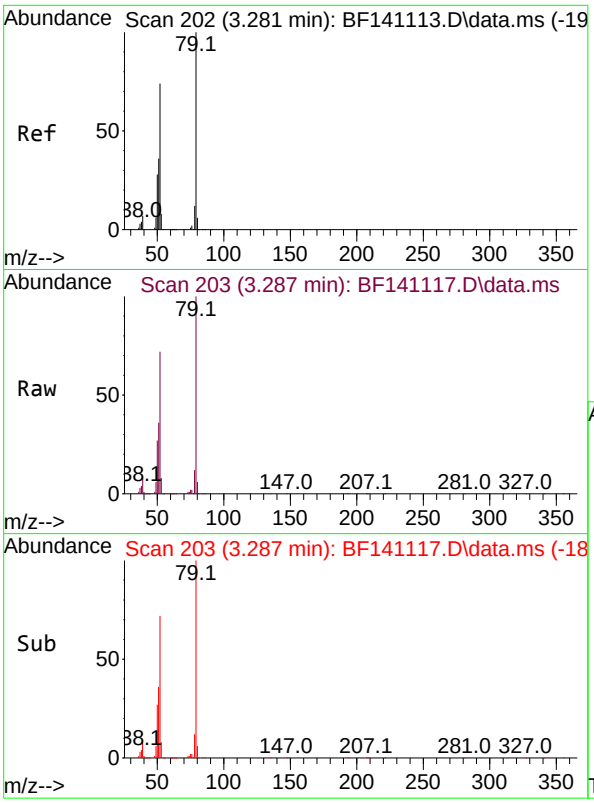


#2
1,4-Dioxane
Concen: 49.679 ng
RT: 2.546 min Scan# 77
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 88 Resp: 233484

Ion	Ratio	Lower	Upper
88	100		
58	73.8	60.1	90.1
43	29.7	23.1	34.7



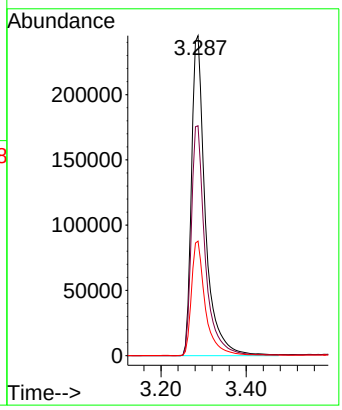


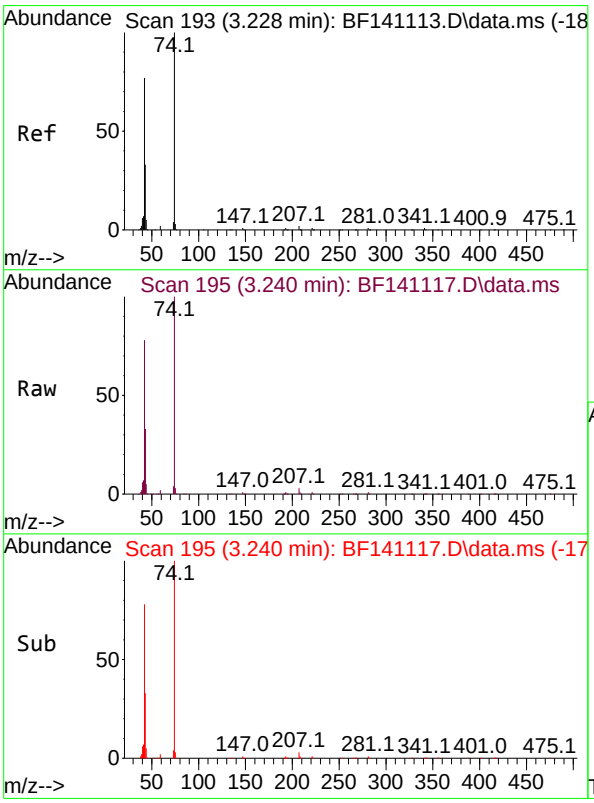
#3
Pyridine
Concen: 48.225 ng
RT: 3.287 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 555795

Ion	Ratio	Lower	Upper
79	100		
52	71.9	58.9	88.3
51	35.8	29.1	43.7

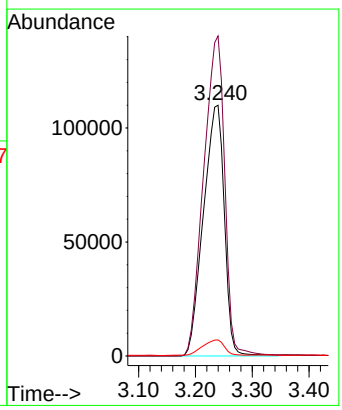


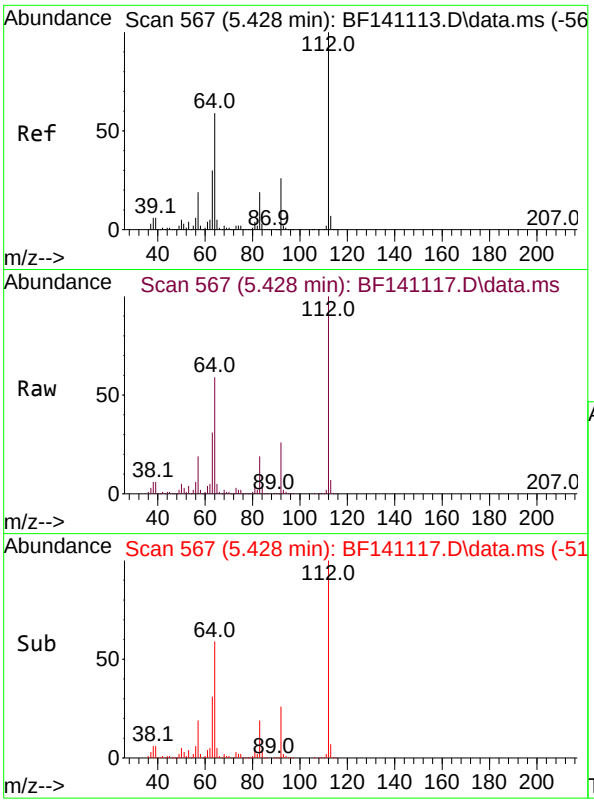


#4
n-Nitrosodimethylamine
Concen: 49.752 ng
RT: 3.240 min Scan# 195
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 42 Resp: 280365

Ion	Ratio	Lower	Upper
42	100		
74	127.7	103.8	155.6
44	6.4	5.3	7.9



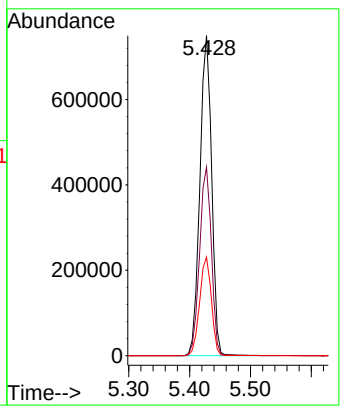


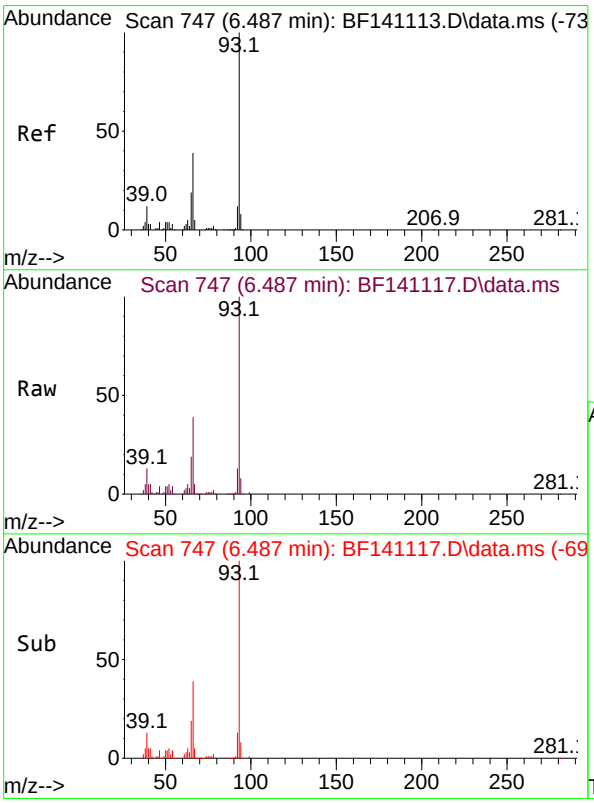
#5
2-Fluorophenol
Concen: 95.484 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 1007728

Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.3	70.9
63	30.8	24.2	36.2

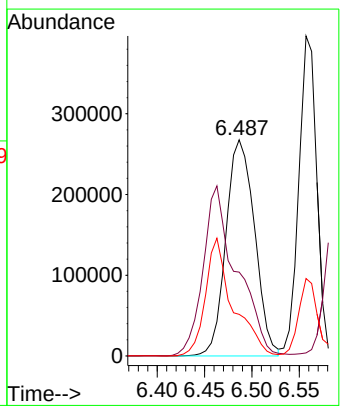


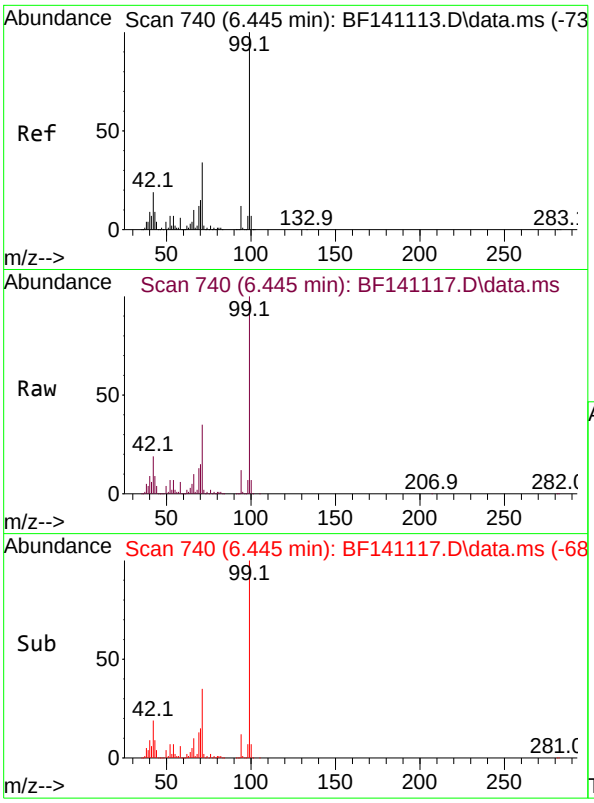


#6
Aniline
Concen: 47.577 ng
RT: 6.487 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 93 Resp: 564714

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.5	47.3
65	19.3	15.3	22.9



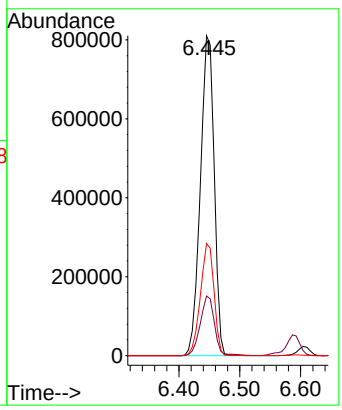


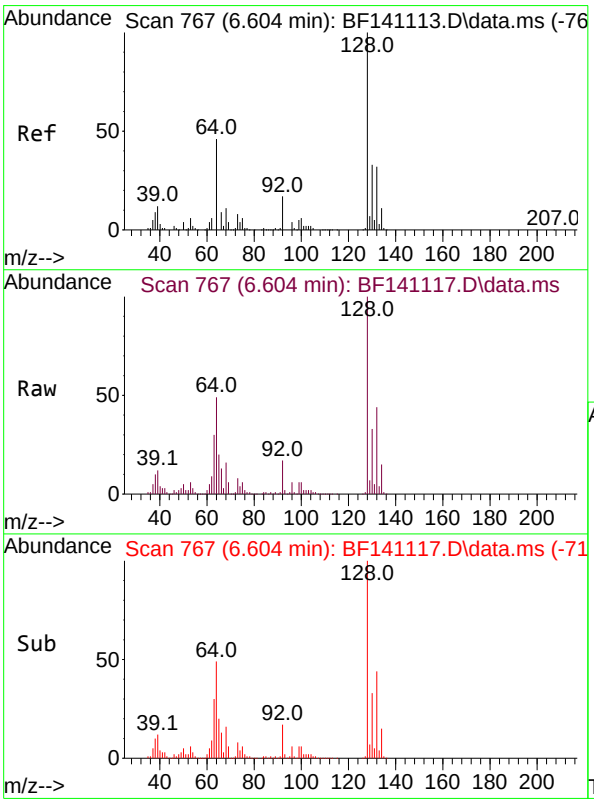
#7
Phenol-d6
Concen: 95.699 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 1279370

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.0	22.4
71	35.1	27.6	41.4

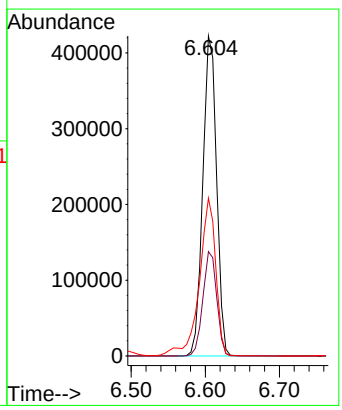


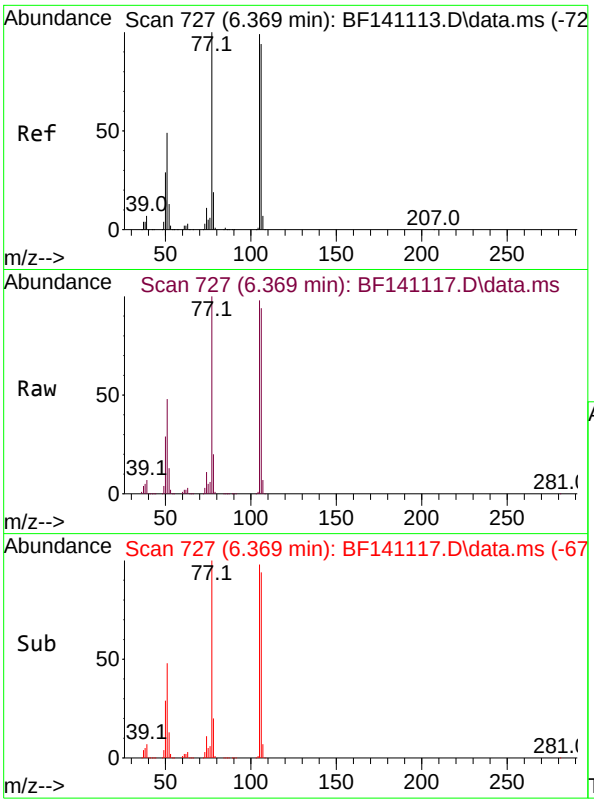


#8
2-Chlorophenol
Concen: 48.153 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:128 Resp: 545244

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.5	52.5
64	49.3	28.3	68.3



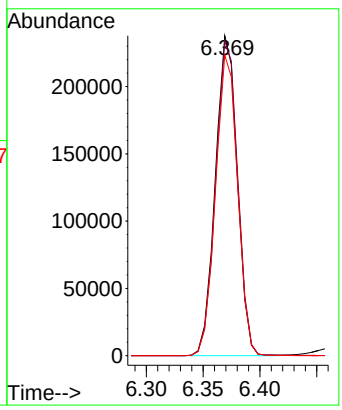


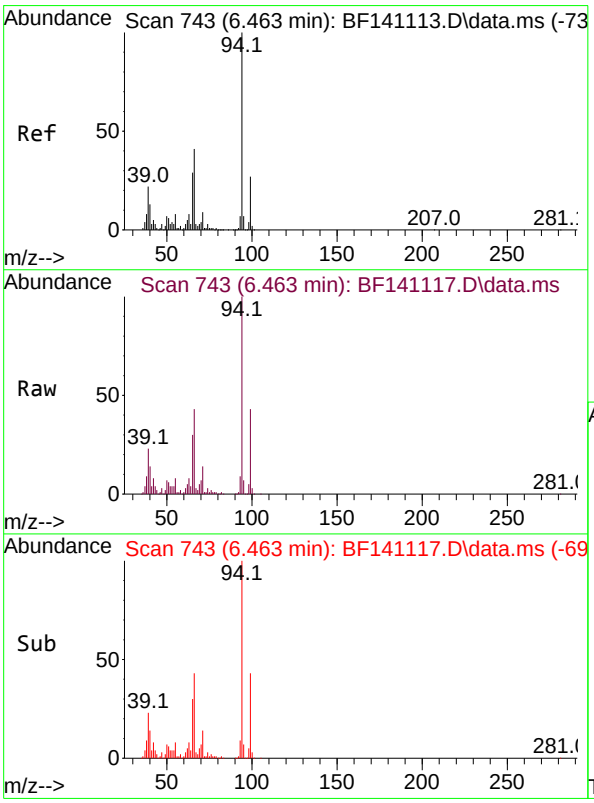
#9
Benzaldehyde
Concen: 42.669 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 318659

Ion	Ratio	Lower	Upper
77	100		
105	98.3	78.9	118.9
106	93.9	73.6	113.6

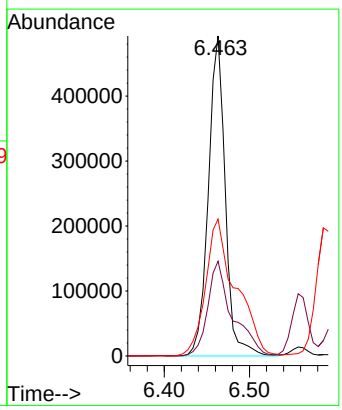


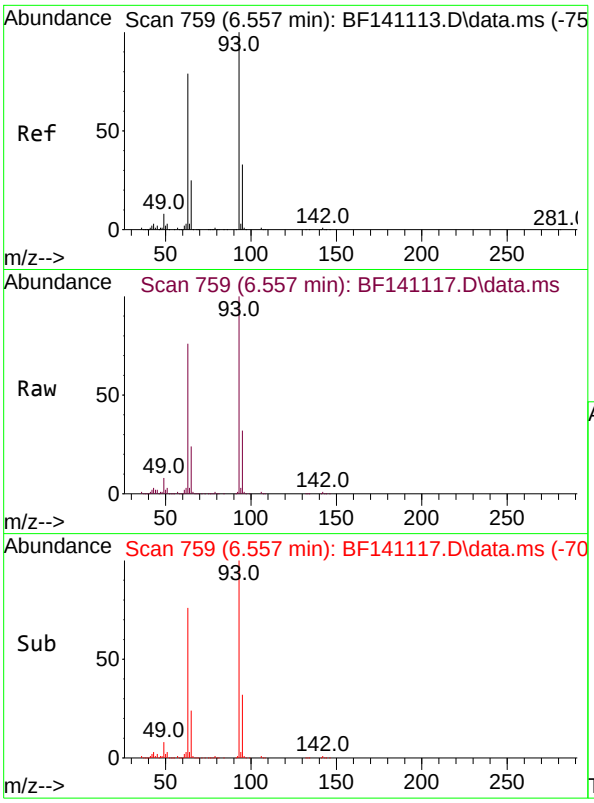


#10
Phenol
Concen: 47.420 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 94 Resp: 678615

Ion	Ratio	Lower	Upper
94	100		
65	29.6	8.9	48.9
66	42.8	21.2	61.2



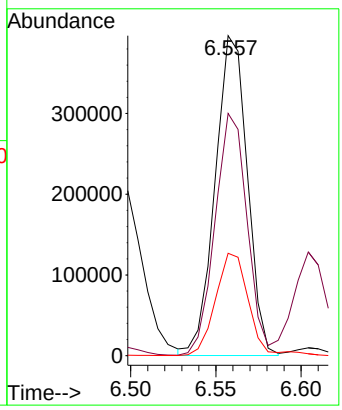


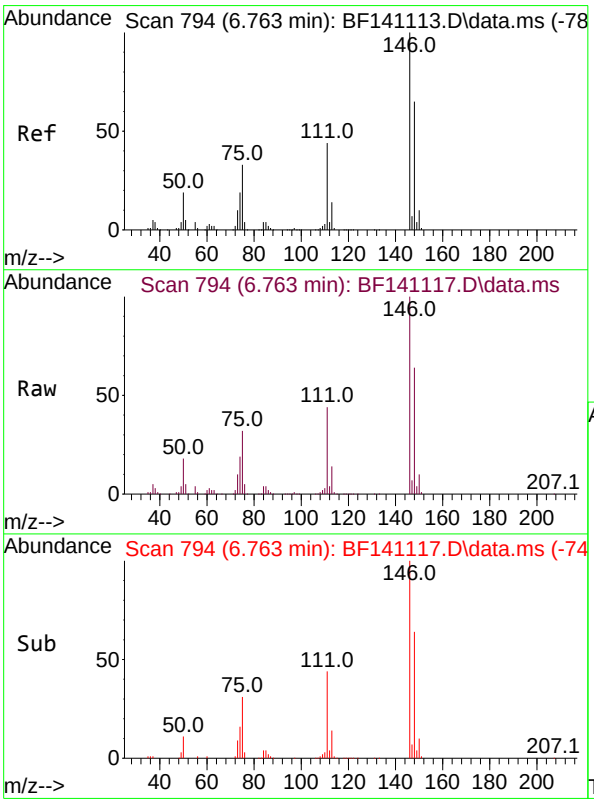
#11
bis(2-Chloroethyl)ether
Concen: 48.869 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 521191

Ion	Ratio	Lower	Upper
93	100		
63	75.7	58.0	98.0
95	32.0	12.5	52.5

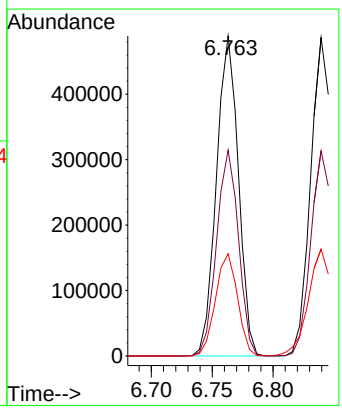


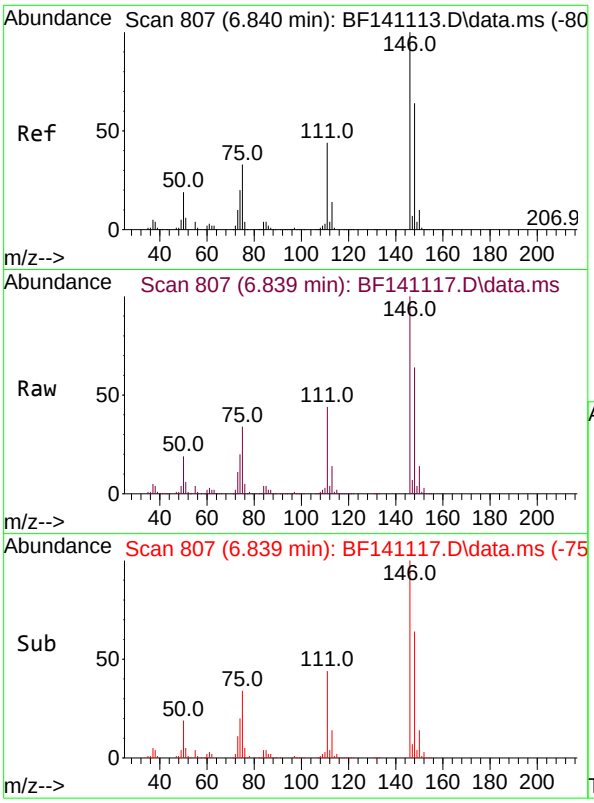


#12
1,3-Dichlorobenzene
Concen: 48.605 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:146 Resp: 613813

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.6	77.4
75	32.0	26.2	39.2



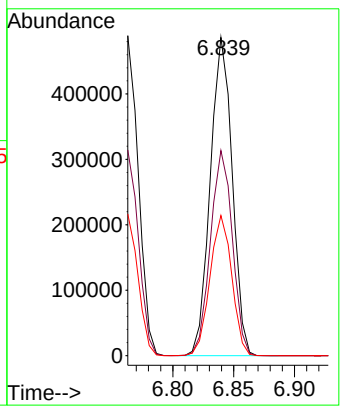


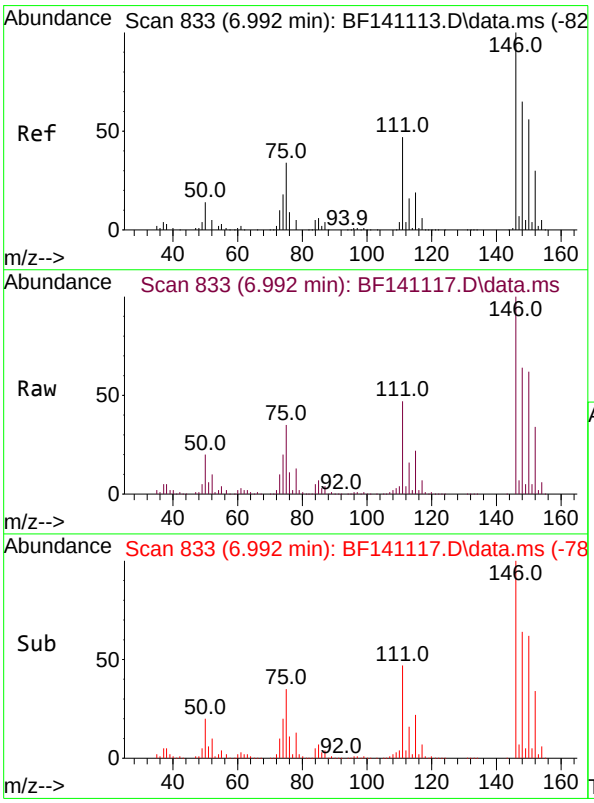
#13
1,4-Dichlorobenzene
Concen: 47.881 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 609332

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	44.0	34.9	52.3

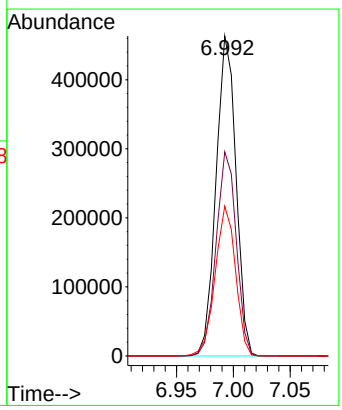


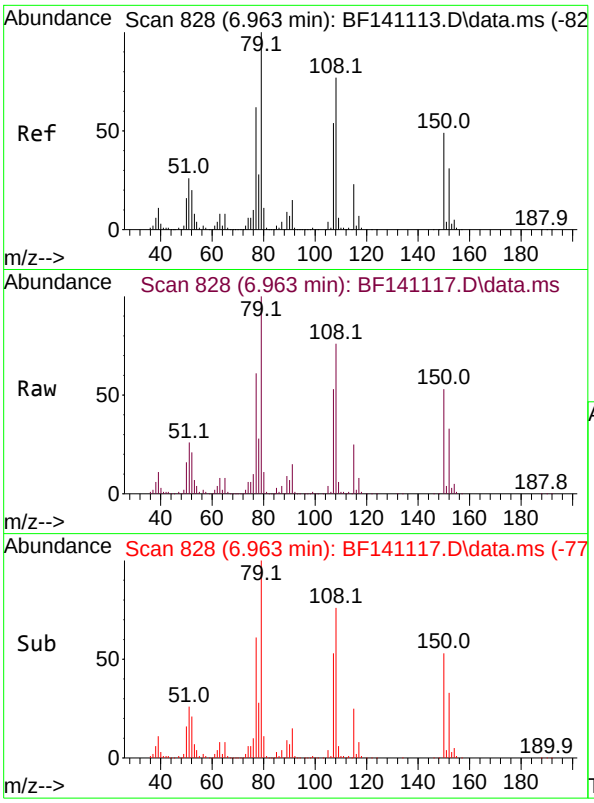


#14
1,2-Dichlorobenzene
Concen: 47.656 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:146 Resp: 565717

Ion	Ratio	Lower	Upper
146	100		
148	63.8	52.2	78.4
111	46.8	37.5	56.3



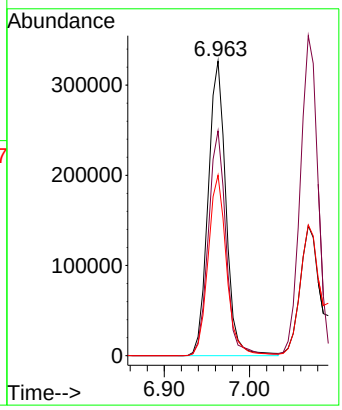


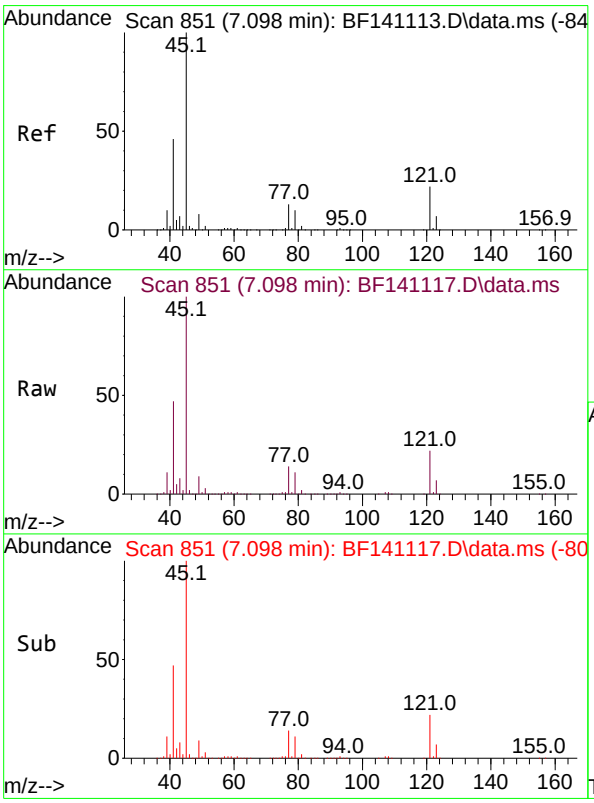
#15
Benzyl Alcohol
Concen: 49.156 ng
RT: 6.963 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 474583

Ion	Ratio	Lower	Upper
79	100		
108	76.3	61.4	92.0
77	61.3	49.8	74.6

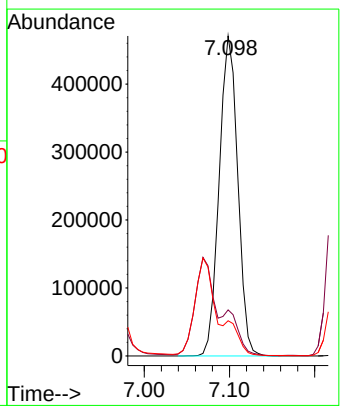


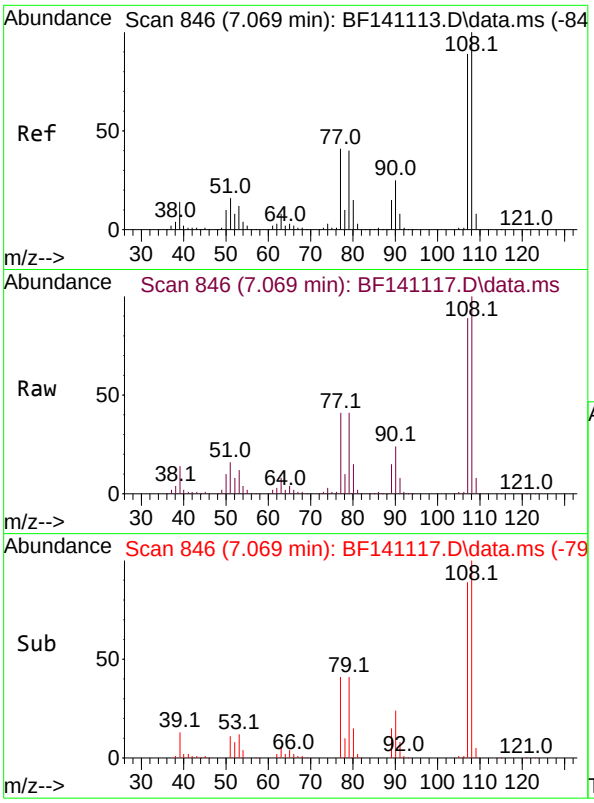


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.824 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 45 Resp: 711735

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.1
79	11.0	0.0	31.0



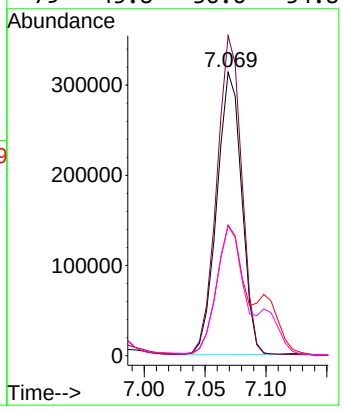


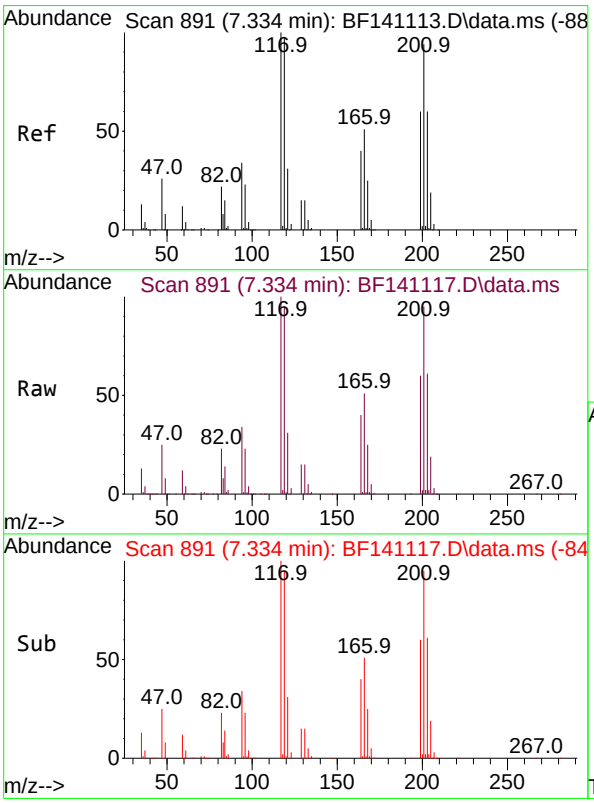
#17
2-Methylphenol
Concen: 48.644 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 444678

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.1	135.1
77	46.1	36.6	55.0
79	45.8	36.6	54.8

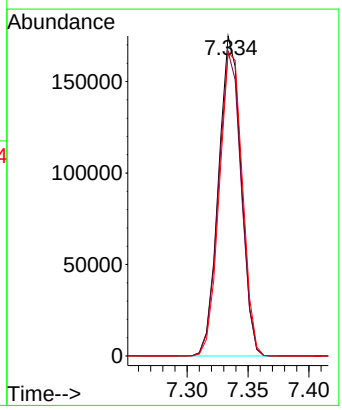


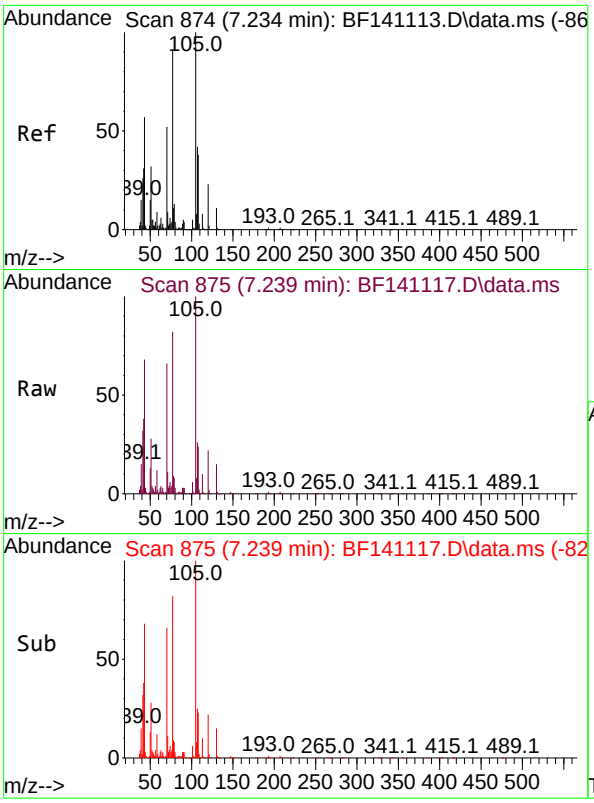


#18
Hexachloroethane
Concen: 48.837 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:117 Resp: 224751

Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.6	116.4
201	95.1	75.1	112.7



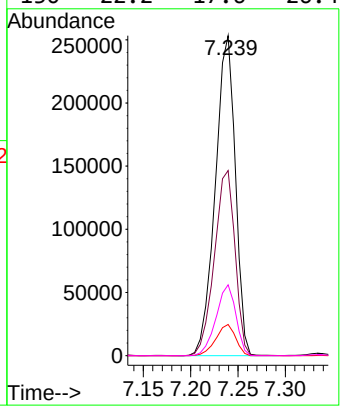


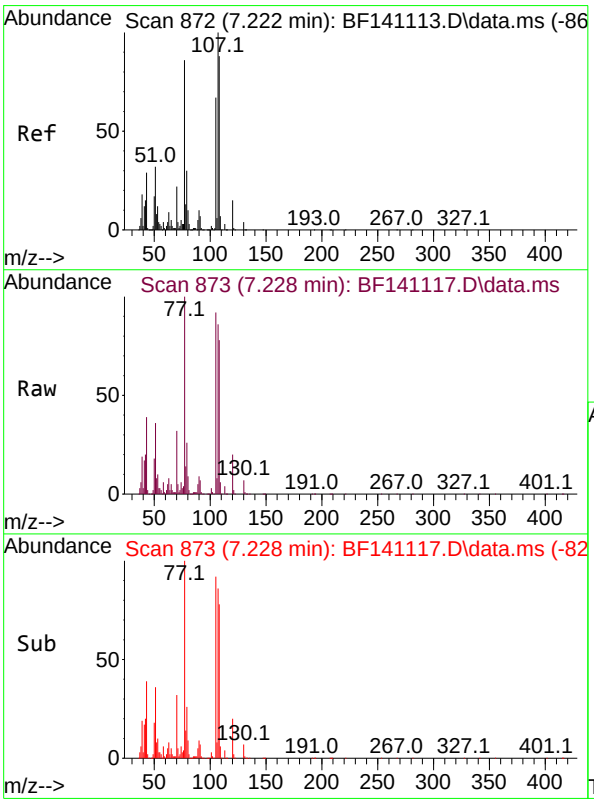
#19
n-Nitroso-di-n-propylamine
Concen: 47.373 ng
RT: 7.239 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 373068

Ion	Ratio	Lower	Upper
70	100		
42	57.9	47.8	71.6
101	9.7	7.9	11.9
130	22.2	17.6	26.4

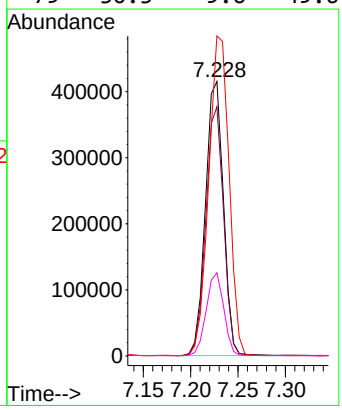


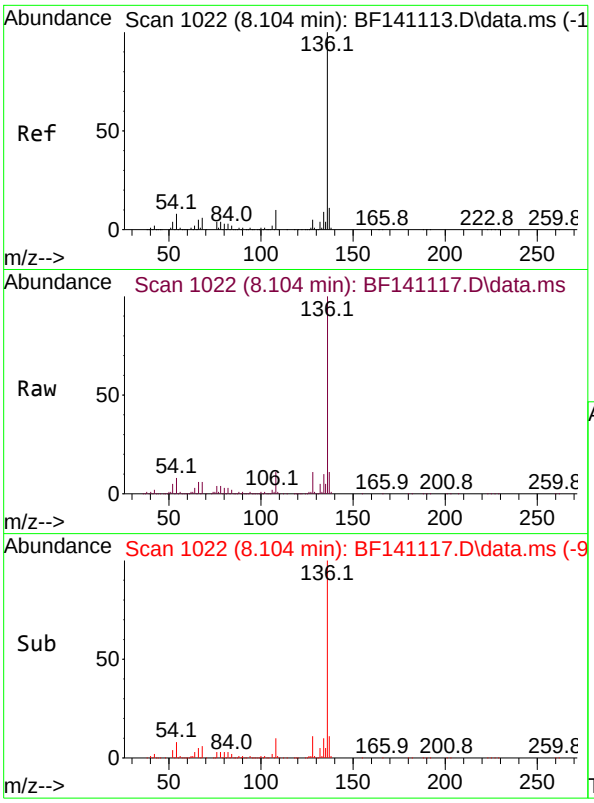


#20
3+4-Methylphenols
Concen: 47.429 ng
RT: 7.228 min Scan# 873
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:107 Resp: 546998

Ion	Ratio	Lower	Upper
107	100		
108	90.9	68.3	108.3
77	116.6	66.4	106.4#
79	30.3	9.6	49.6



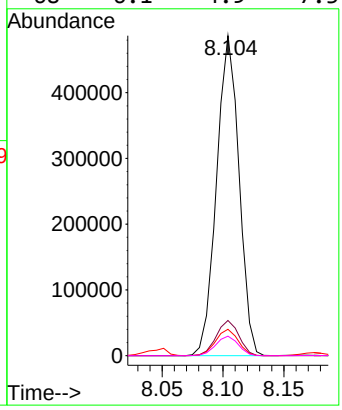


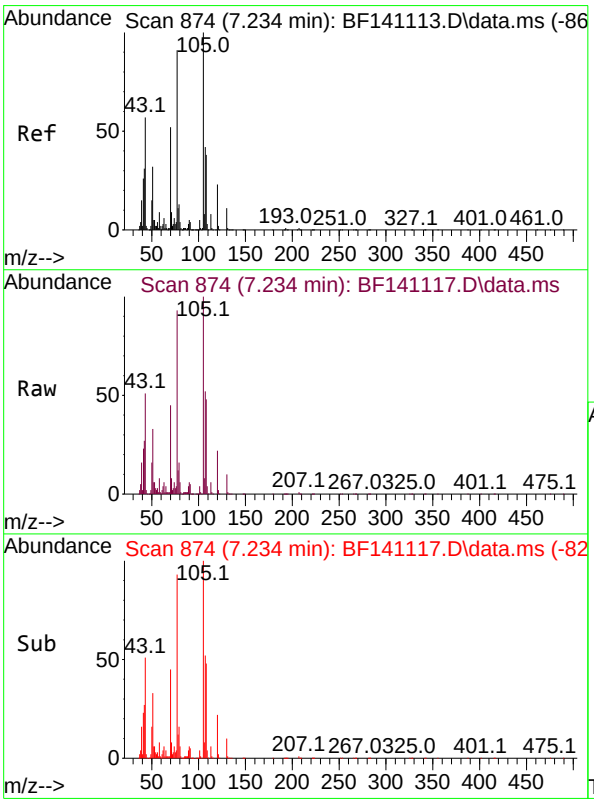
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 625072

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.3	6.3	9.5
68	6.1	4.9	7.3

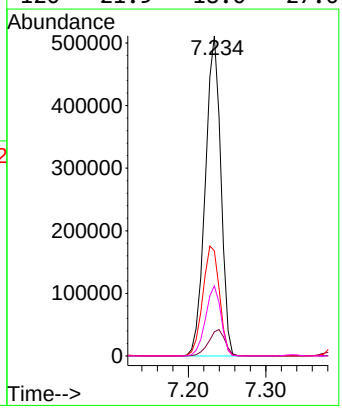


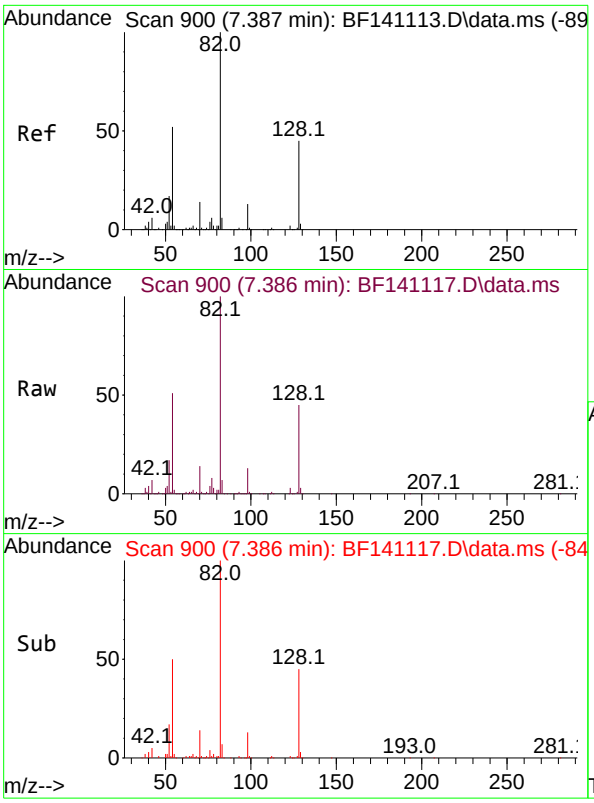


#22
Acetophenone
Concen: 47.871 ng
RT: 7.234 min Scan# 874
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:105 Resp: 711333

Ion	Ratio	Lower	Upper
105	100		
71	7.5	7.1	10.7
51	32.9	25.4	38.2
120	21.9	18.0	27.0



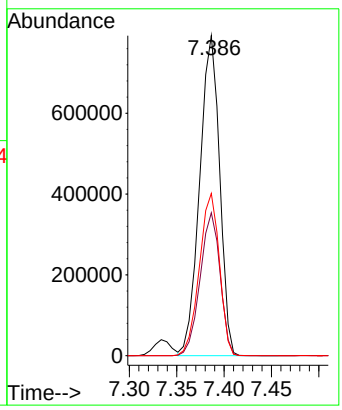


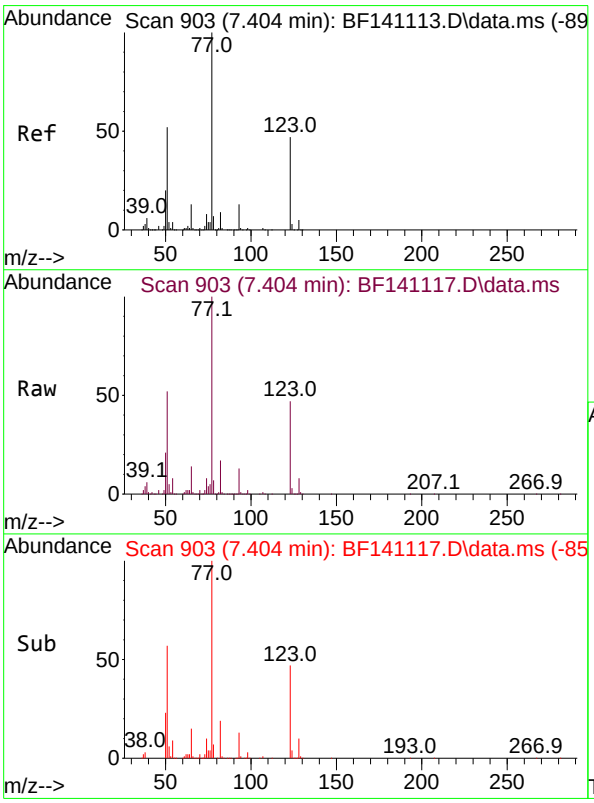
#23
Nitrobenzene-d5
Concen: 98.108 ng
RT: 7.386 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1156878

Ion	Ratio	Lower	Upper
82	100		
128	44.6	36.1	54.1
54	50.7	41.0	61.4

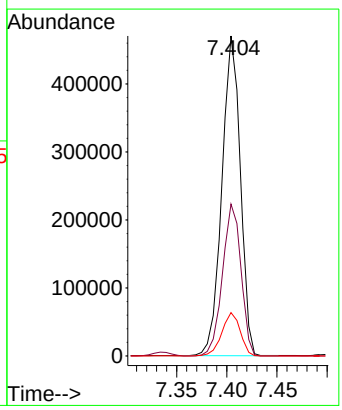


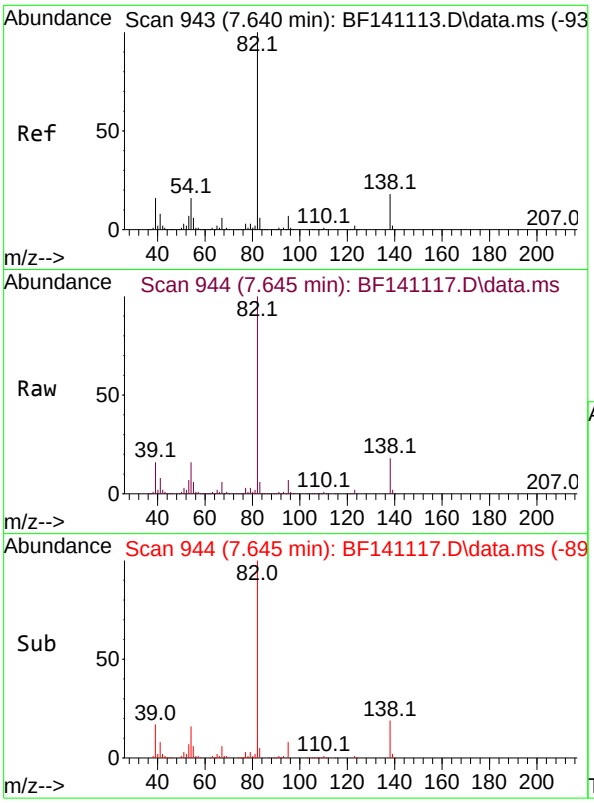


#24
Nitrobenzene
Concen: 48.807 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 77 Resp: 599817

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.7	56.5
65	13.6	10.6	16.0



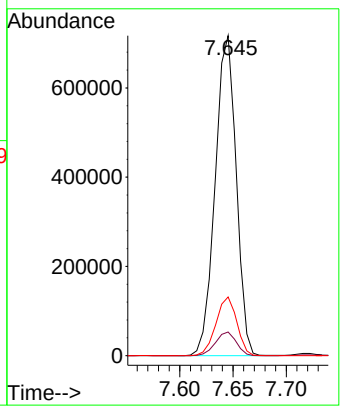


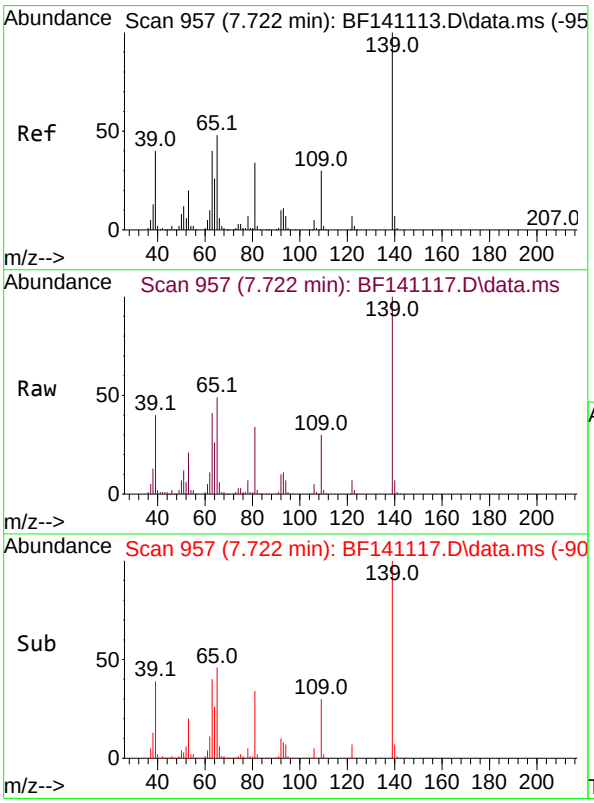
#25
Isophorone
Concen: 48.754 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 982492

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	18.3	14.2	21.2

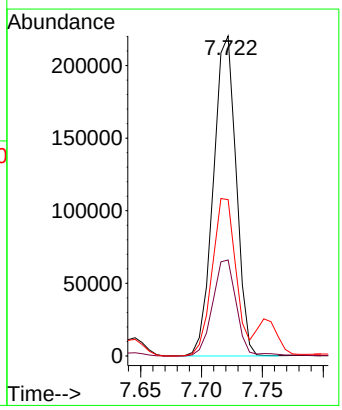


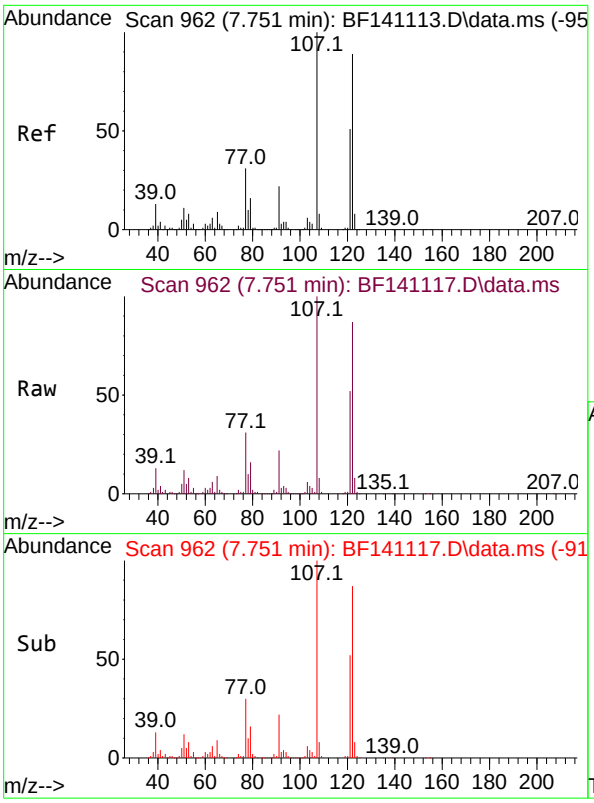


#26
2-Nitrophenol
Concen: 51.416 ng
RT: 7.722 min Scan# 957
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:139 Resp: 287436

Ion	Ratio	Lower	Upper
139	100		
109	30.0	23.8	35.6
65	48.8	38.5	57.7



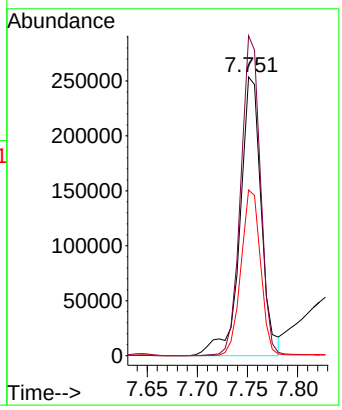


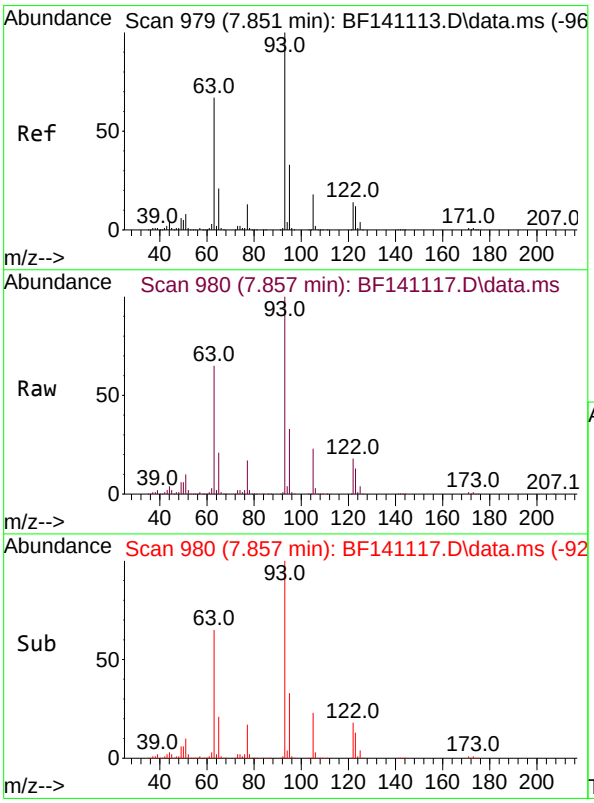
#27
2,4-Dimethylphenol
Concen: 49.629 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 374236

Ion	Ratio	Lower	Upper
122	100		
107	114.8	90.3	135.5
121	59.5	46.5	69.7

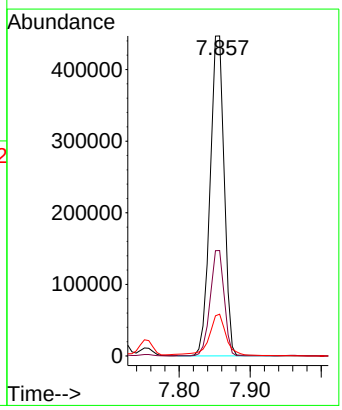


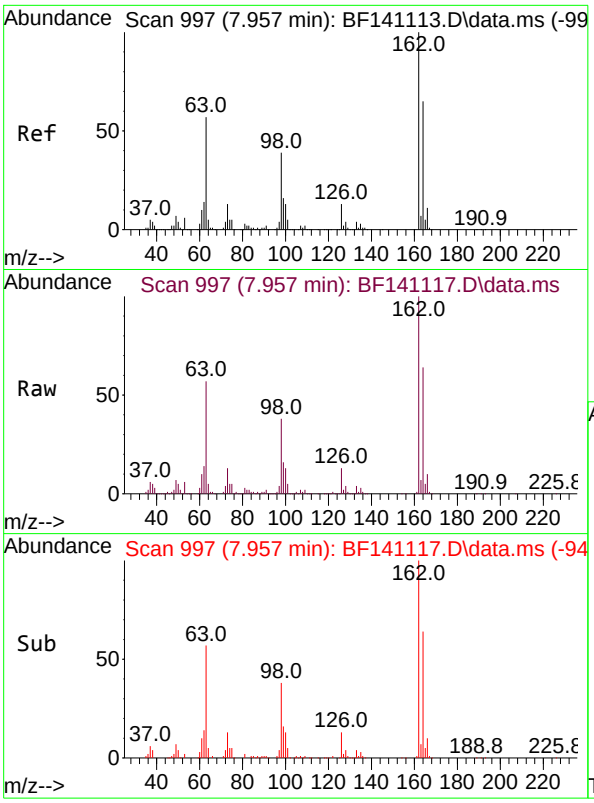


#28
bis(2-Chloroethoxy)methane
Concen: 48.594 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 93 Resp: 614567

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.2	39.4
123	13.1	10.1	15.1



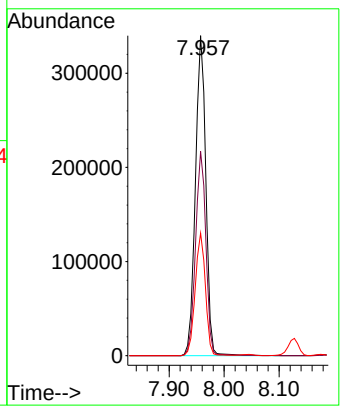


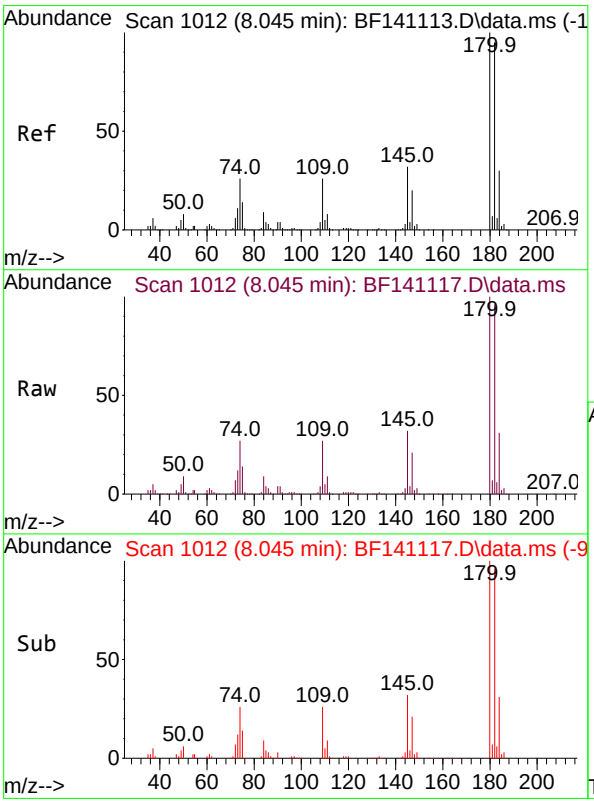
#29
2,4-Dichlorophenol
Concen: 49.935 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 447208

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.5	84.5
98	38.3	18.5	58.5

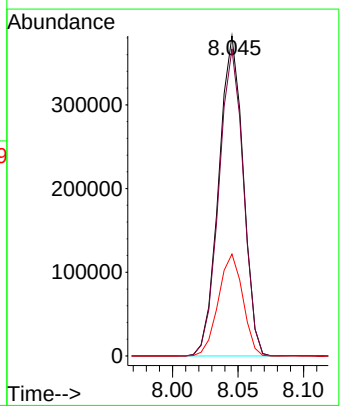


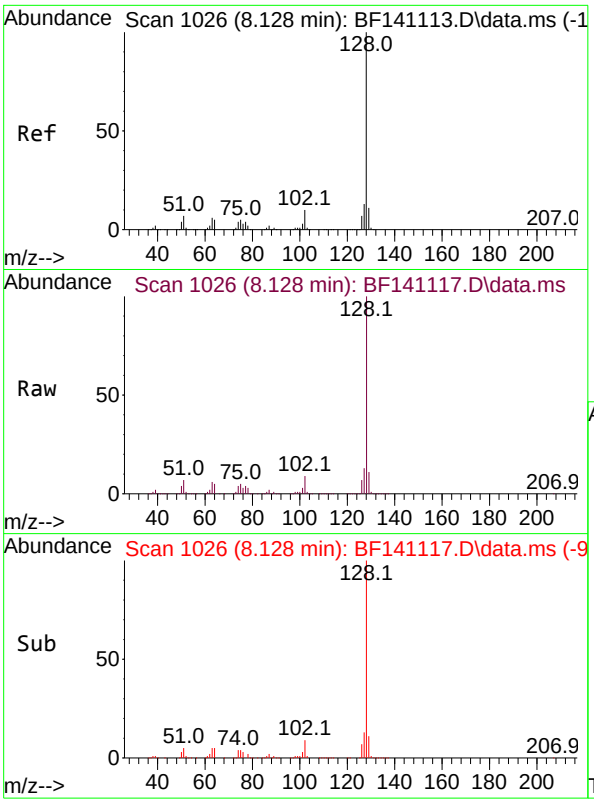


#30
1,2,4-Trichlorobenzene
Concen: 48.394 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:180 Resp: 495397

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.2
145	31.8	25.3	37.9



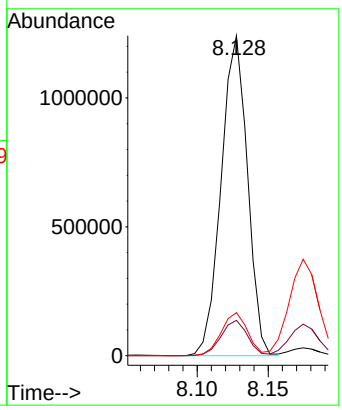


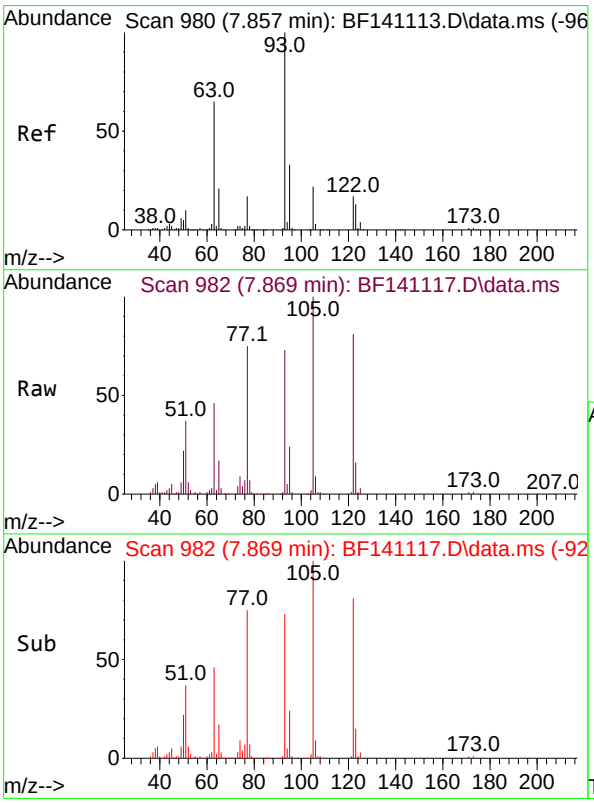
#31
Naphthalene
Concen: 48.495 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 1598576

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.5	10.8	16.2

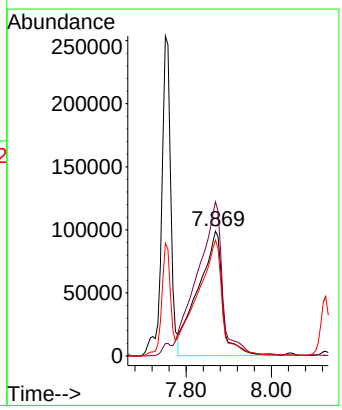


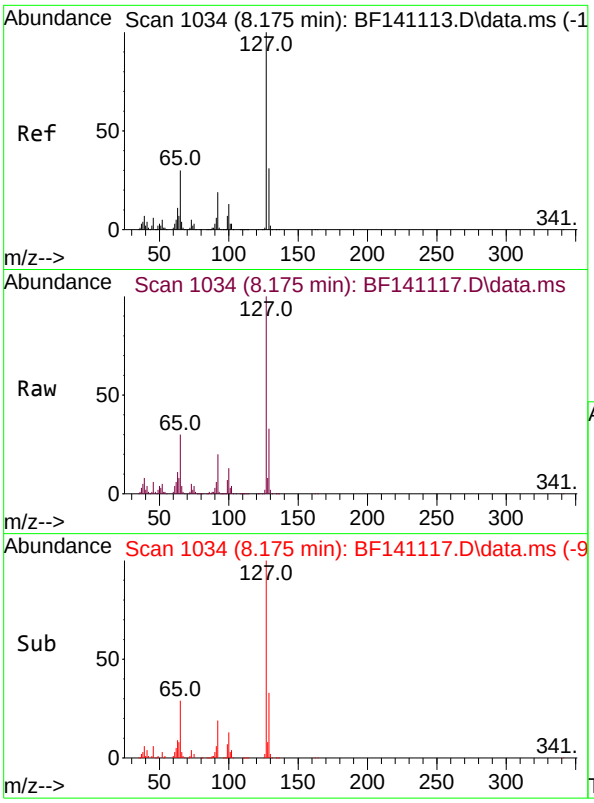


#32
Benzoic acid
Concen: 54.138 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:122 Resp: 391608

Ion	Ratio	Lower	Upper
122	100		
105	123.5	105.5	145.5
77	92.8	75.1	115.1



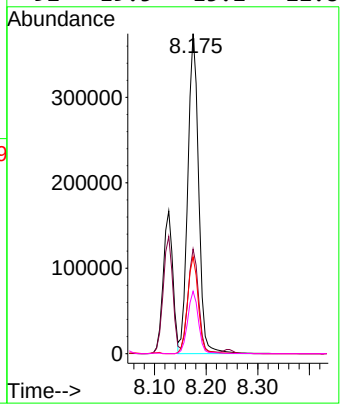


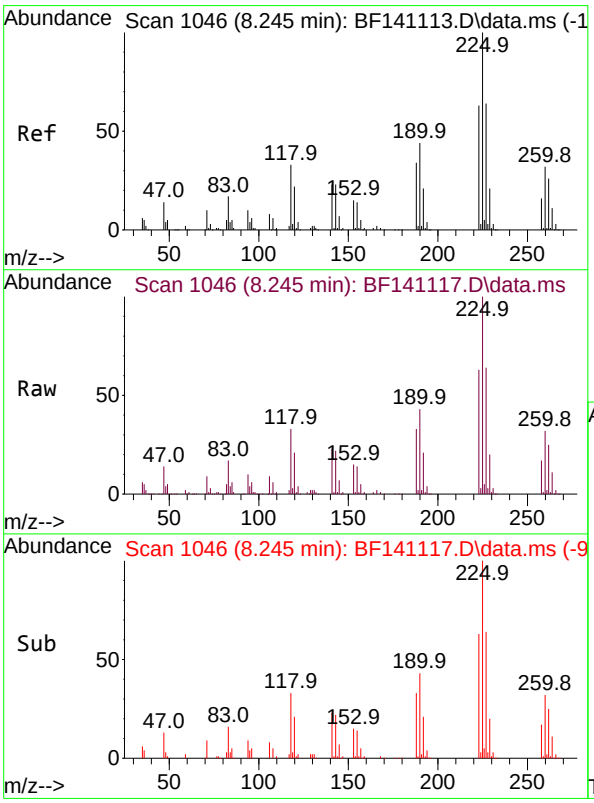
#33
4-Chloroaniline
Concen: 47.801 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 544930

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	30.3	23.8	35.8
92	19.5	15.2	22.8

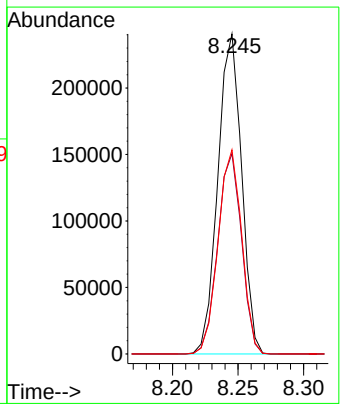


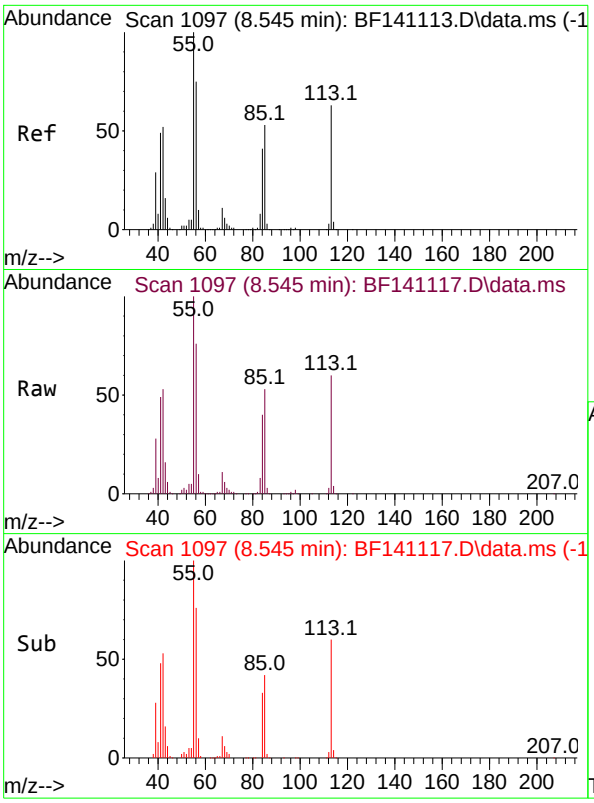


#34
Hexachlorobutadiene
Concen: 49.102 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:225 Resp: 302873

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.6	76.0
227	63.8	51.6	77.4



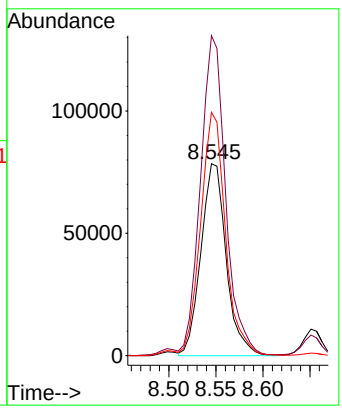


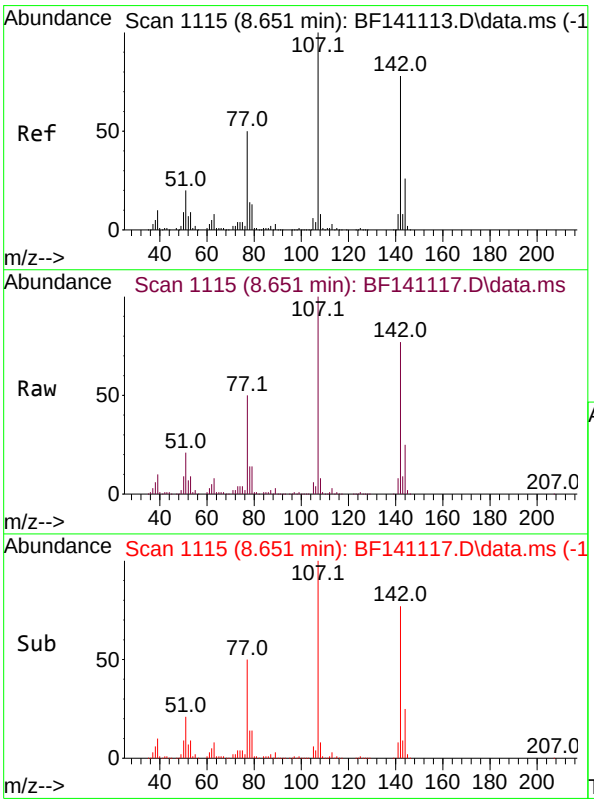
#35
Caprolactam
Concen: 49.927 ng m
RT: 8.545 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 146669

Ion	Ratio	Lower	Upper
113	100		
55	166.6	139.7	179.7
56	126.8	99.4	139.4

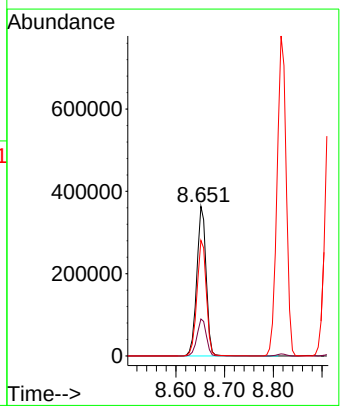


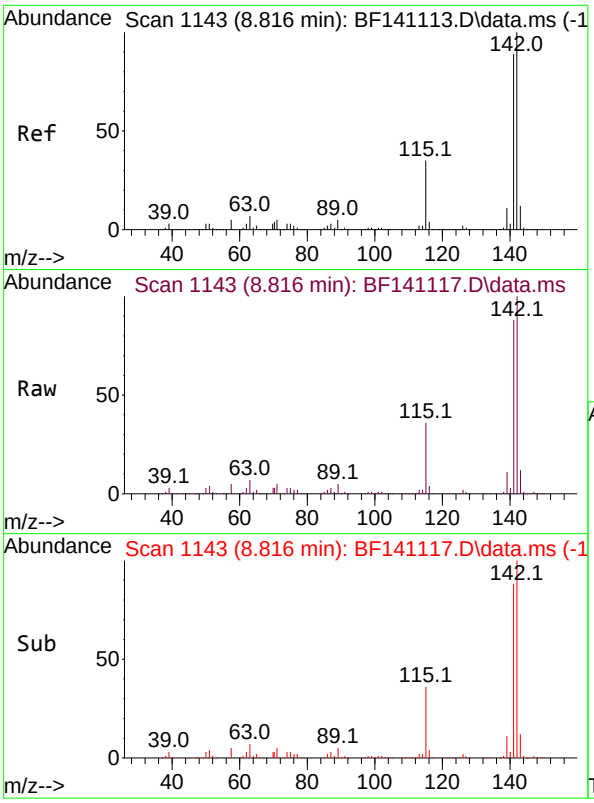


#36
4-Chloro-3-methylphenol
Concen: 49.859 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:107 Resp: 488345

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.4	30.6
142	77.2	62.2	93.2



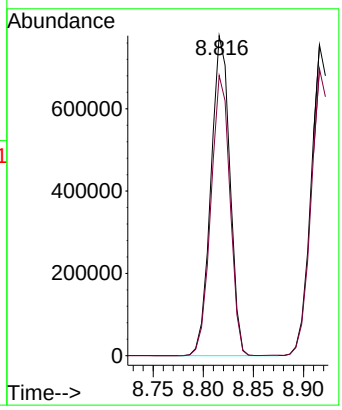


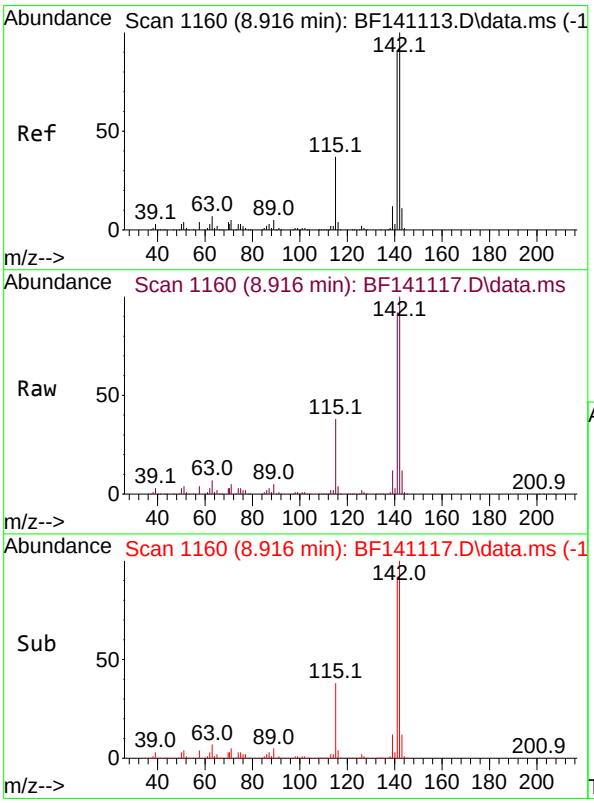
#37
2-Methylnaphthalene
Concen: 48.619 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1021264

Ion	Ratio	Lower	Upper
142	100		
141	87.5	71.3	106.9

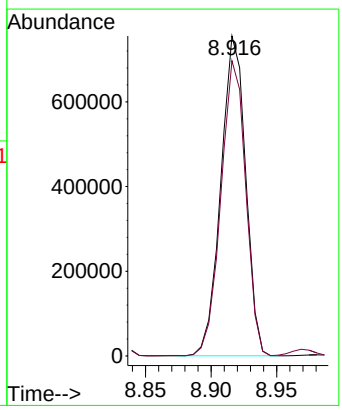


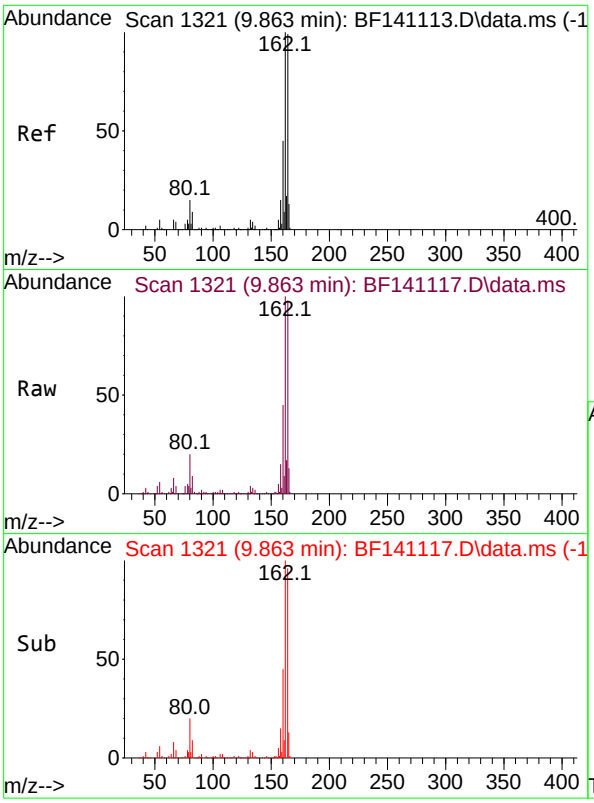


#38
1-Methylnaphthalene
Concen: 47.950 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:142 Resp: 992651

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



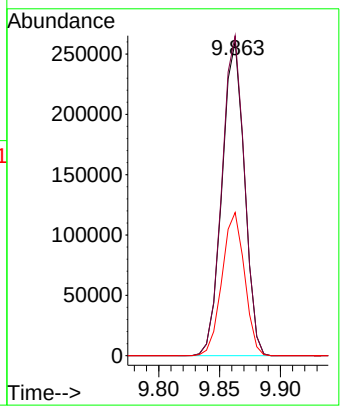


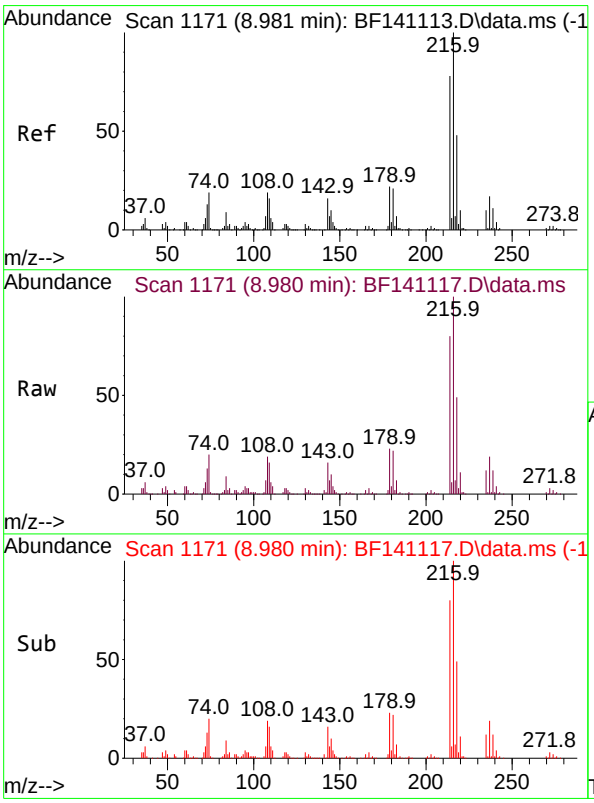
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 333513

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.4
160	45.6	36.1	54.1

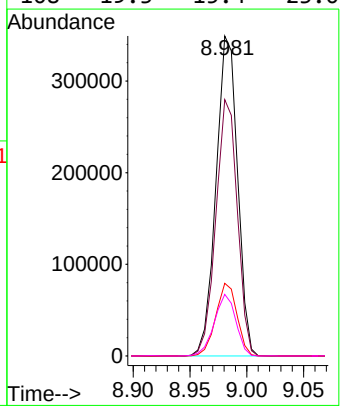


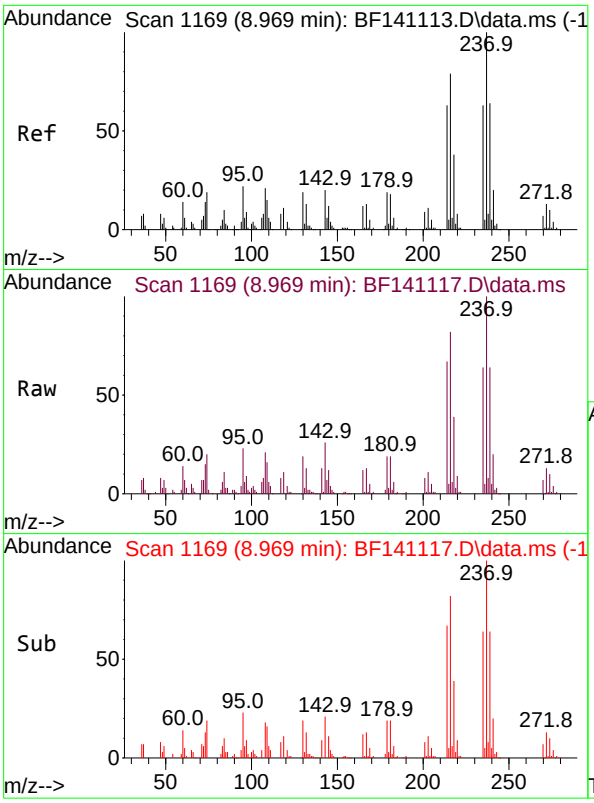


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.082 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:216 Resp: 460261

Ion	Ratio	Lower	Upper
216	100		
214	79.7	62.6	94.0
179	22.3	17.7	26.5
108	19.3	15.4	23.0



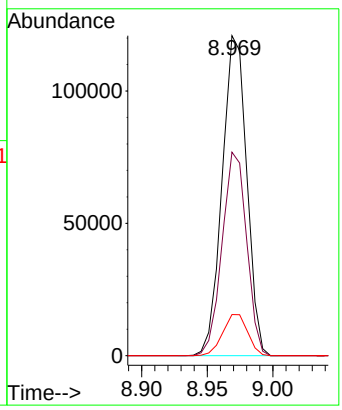


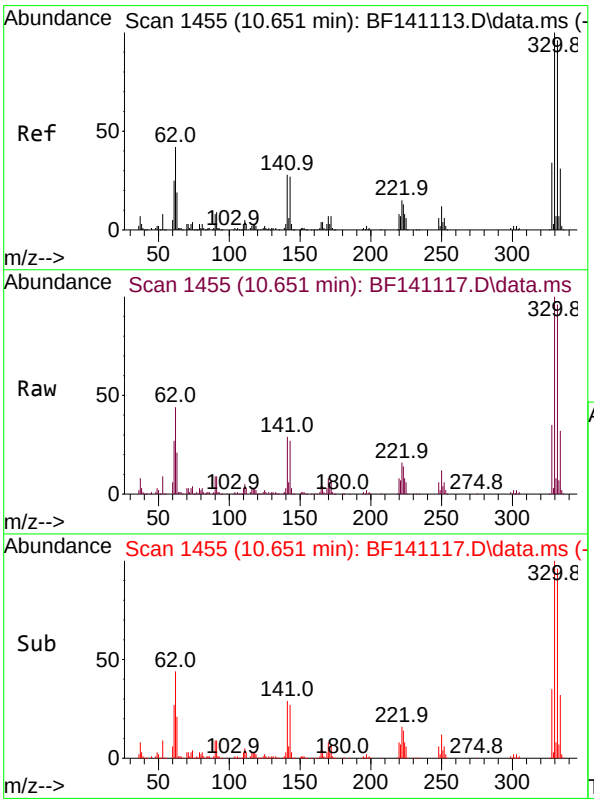
#41
Hexachlorocyclopentadiene
Concen: 50.395 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 157828

Ion	Ratio	Lower	Upper
237	100		
235	63.6	43.0	83.0
272	12.8	0.0	33.0

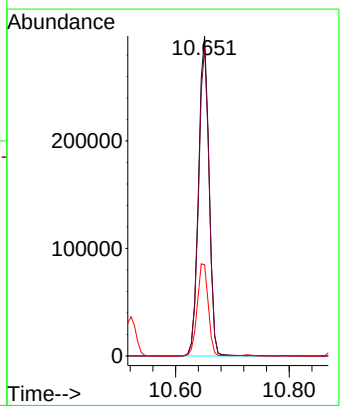


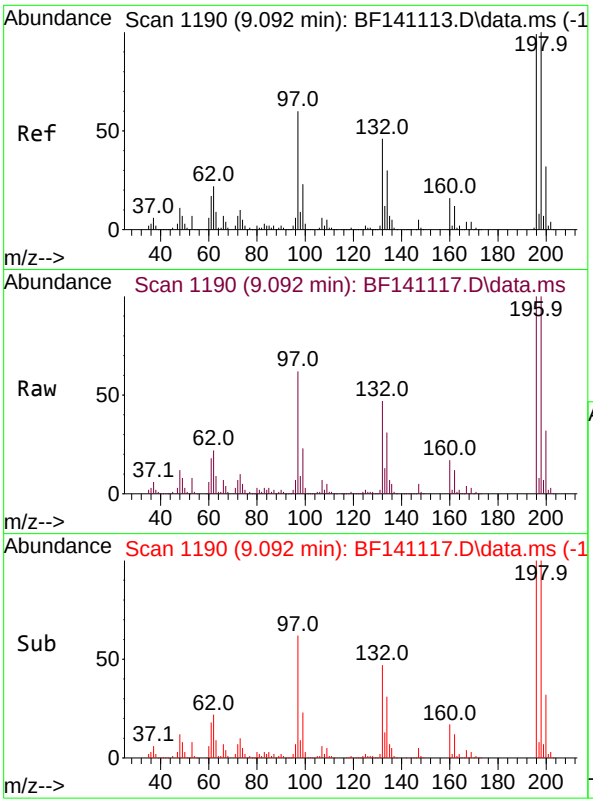


#42
2,4,6-Tribromophenol
Concen: 101.033 ng
RT: 10.651 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:330 Resp: 383942

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.9	115.3
141	30.2	25.2	37.8



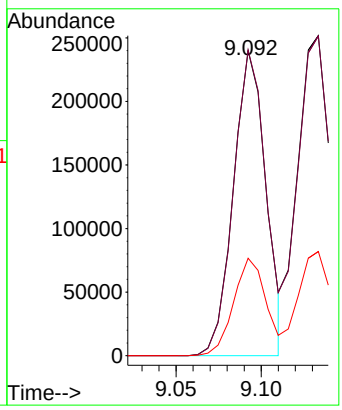


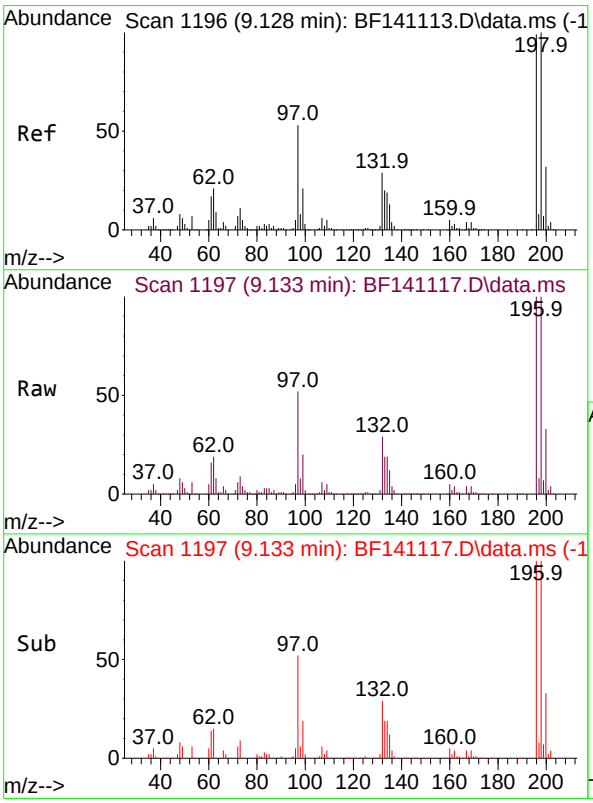
#43
2,4,6-Trichlorophenol
Concen: 49.299 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 318276

Ion	Ratio	Lower	Upper
196	100		
198	100.3	80.8	121.2
200	32.0	25.7	38.5

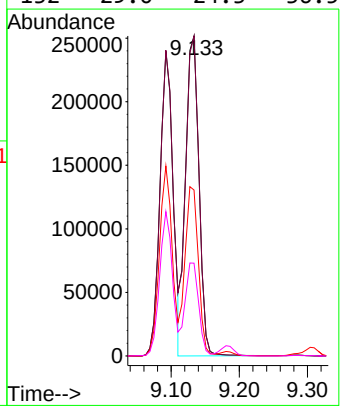


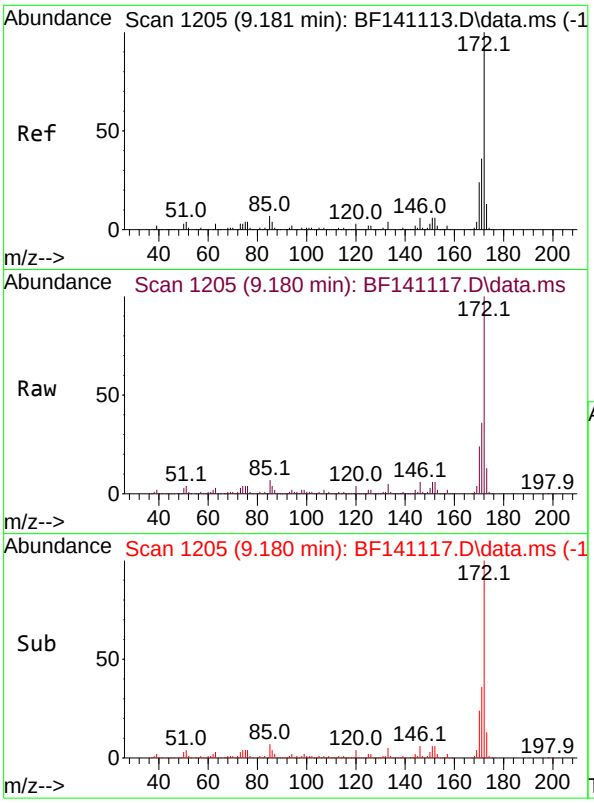


#44
2,4,5-Trichlorophenol
Concen: 50.201 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:196 Resp: 342288

Ion	Ratio	Lower	Upper
196	100		
198	99.9	80.6	120.8
97	51.9	43.1	64.7
132	29.0	24.3	36.5



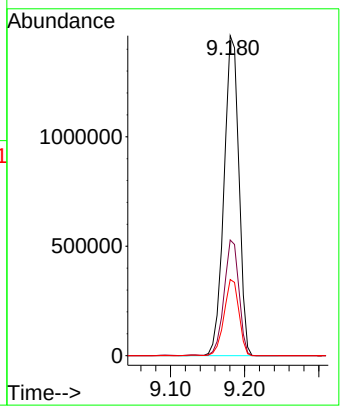


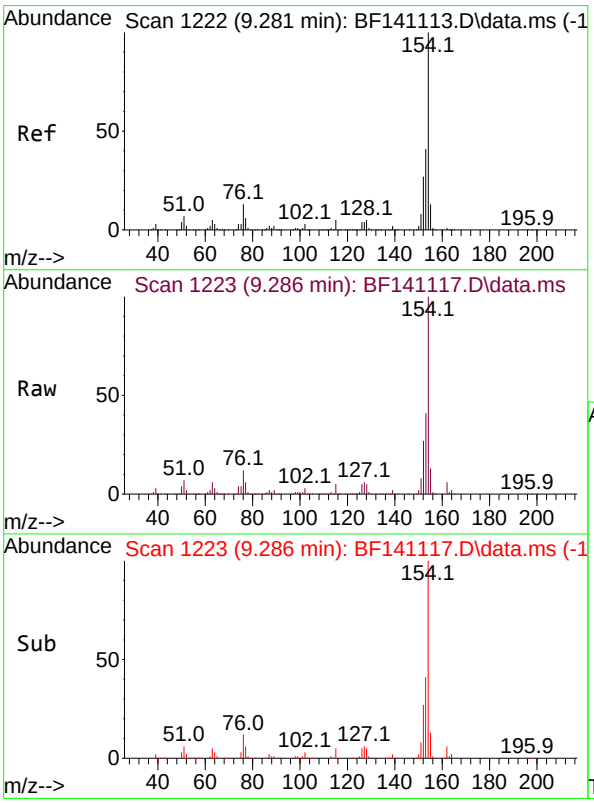
#45
2-Fluorobiphenyl
Concen: 93.427 ng
RT: 9.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 2040487

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.8	19.0	28.6

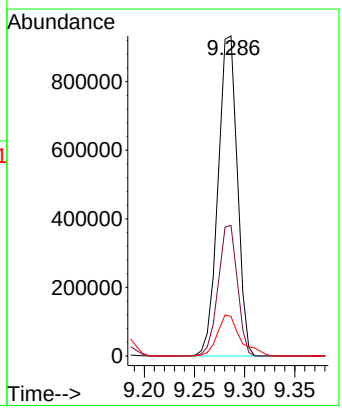


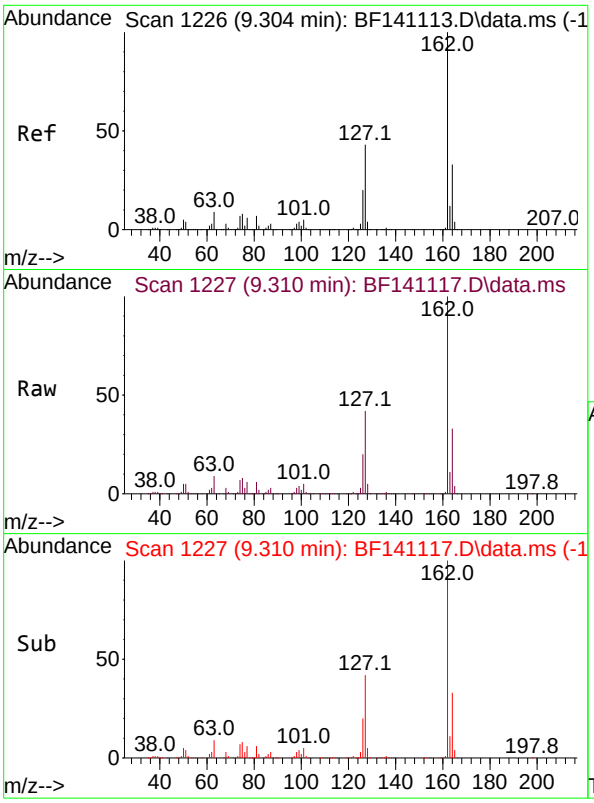


#46
1,1'-Biphenyl
Concen: 48.003 ng
RT: 9.286 min Scan# 1223
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:154 Resp: 1243305

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.7	60.7
76	12.4	0.0	33.1



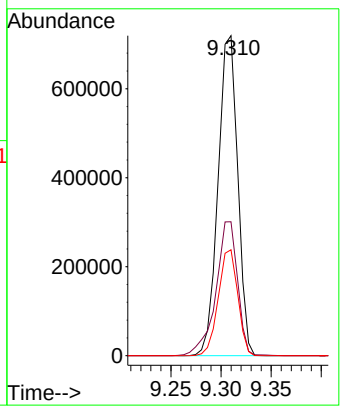


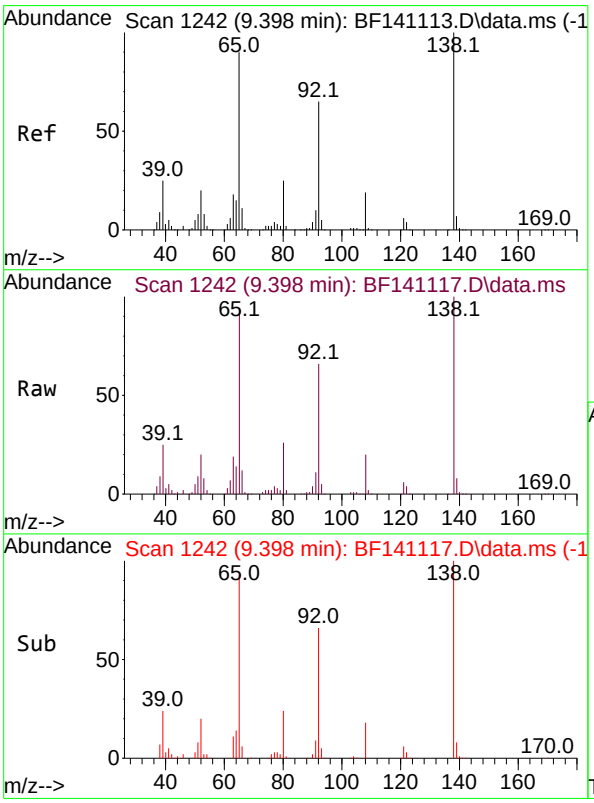
#47
2-Chloronaphthalene
Concen: 48.530 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 979002

Ion	Ratio	Lower	Upper
162	100		
127	41.9	34.6	51.8
164	33.1	26.5	39.7

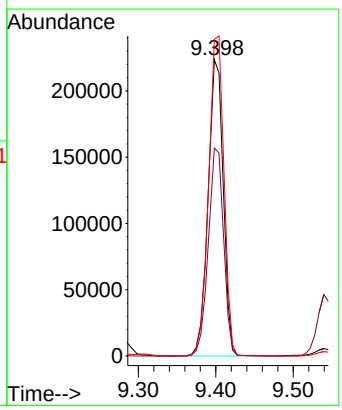


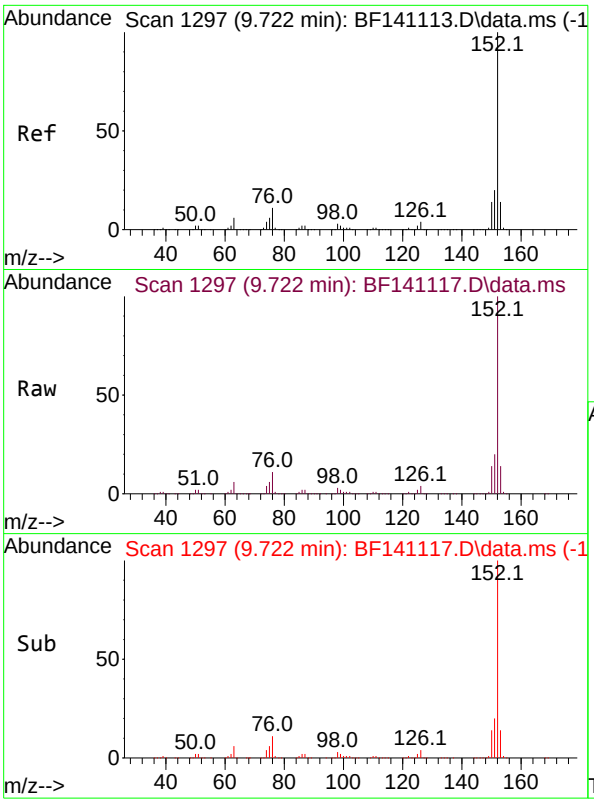


#48
2-Nitroaniline
Concen: 50.844 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 65 Resp: 304048

Ion	Ratio	Lower	Upper
65	100		
92	70.1	58.3	87.5
138	106.9	89.1	133.7



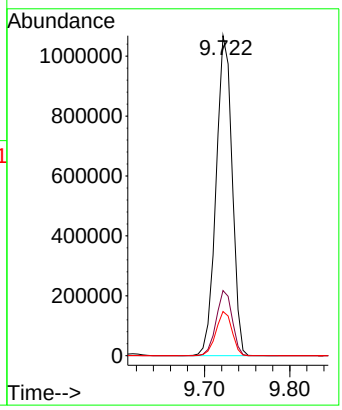


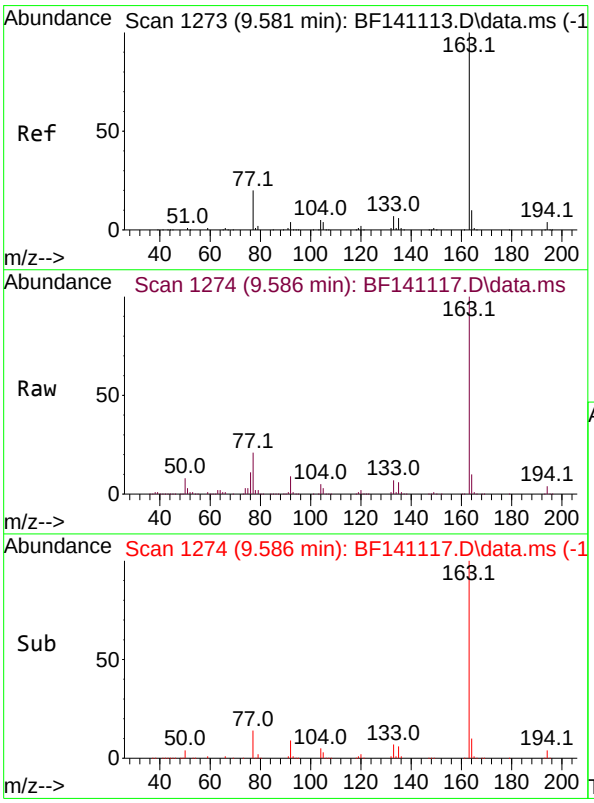
#49
Acenaphthylene
Concen: 48.539 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 1398990

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.1	24.1
153	13.8	11.1	16.7

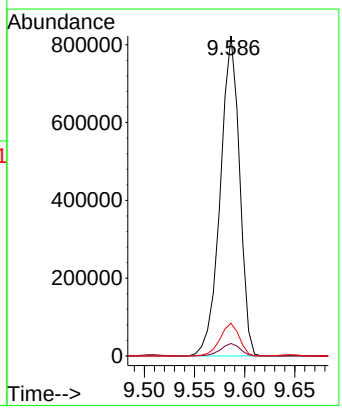


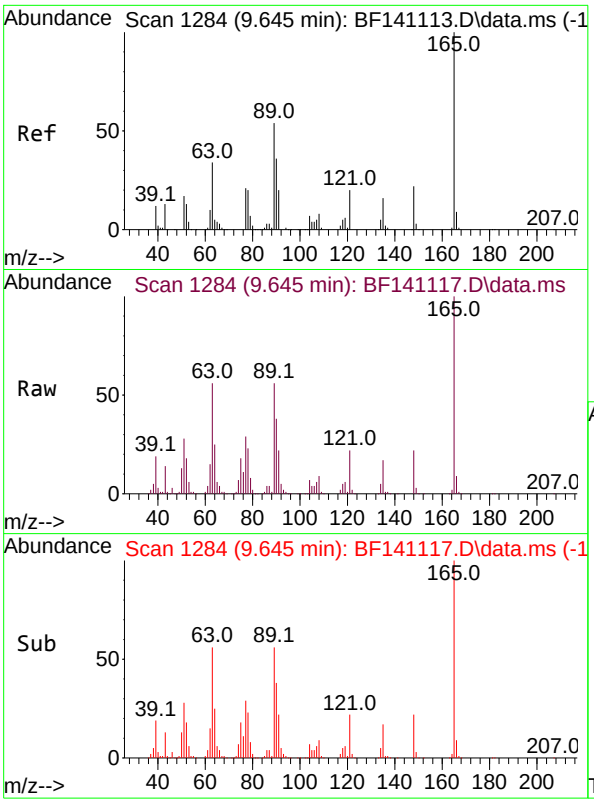


#50
Dimethylphthalate
Concen: 49.076 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:163 Resp: 1098805

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.2	8.2	12.4



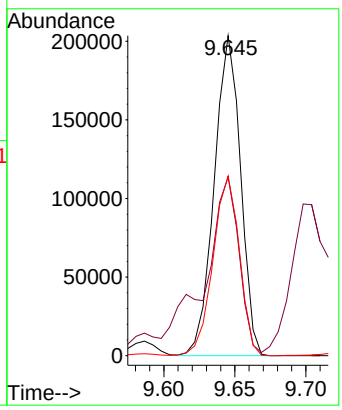


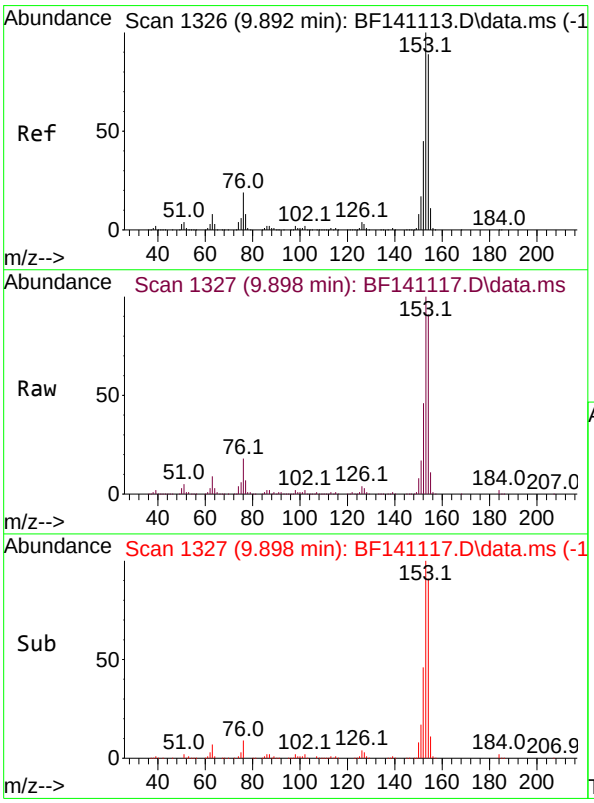
#51
2,6-Dinitrotoluene
Concen: 50.434 ng
RT: 9.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 262596

Ion	Ratio	Lower	Upper
165	100		
63	55.8	42.3	63.5
89	56.1	43.1	64.7

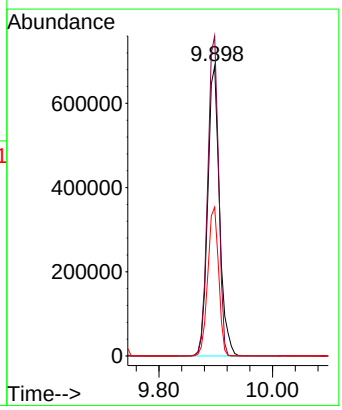


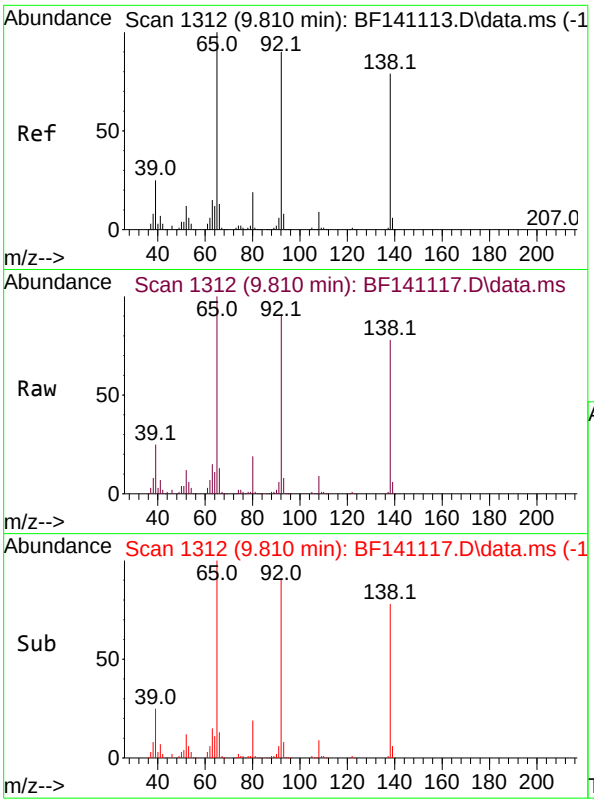


#52
Acenaphthene
Concen: 49.066 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:154 Resp: 988008

Ion	Ratio	Lower	Upper
154	100		
153	110.4	89.8	134.6
152	51.3	40.8	61.2



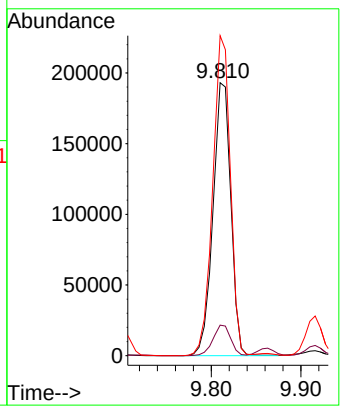


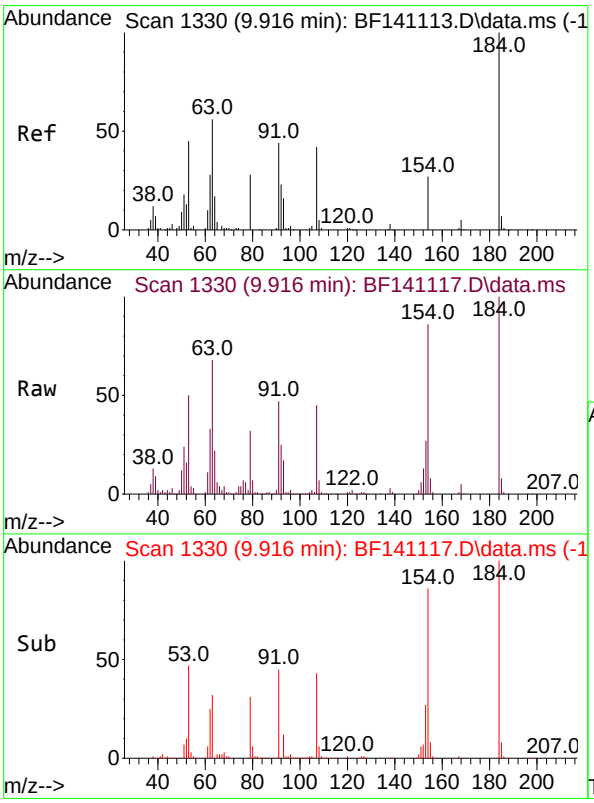
#53
3-Nitroaniline
Concen: 50.440 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 266881

Ion	Ratio	Lower	Upper
138	100		
108	11.2	8.8	13.2
92	117.2	91.3	136.9

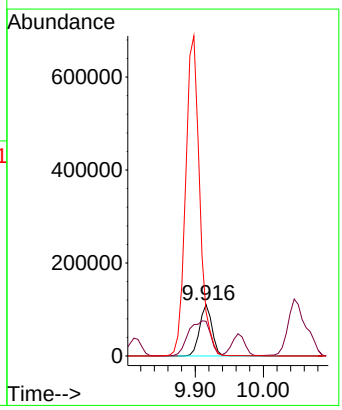


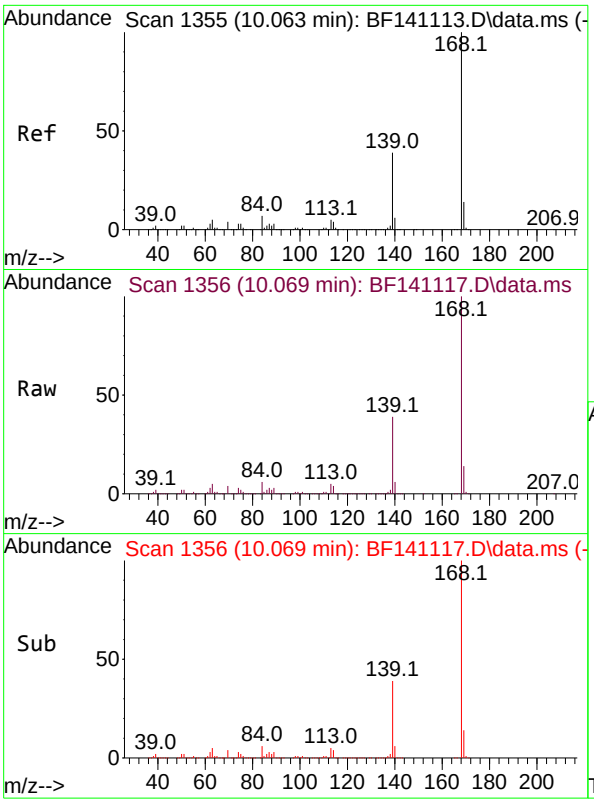


#54
2,4-Dinitrophenol
Concen: 56.530 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:184 Resp: 139903

Ion	Ratio	Lower	Upper
184	100		
63	67.8	48.7	73.1
154	86.2	57.1	85.7#



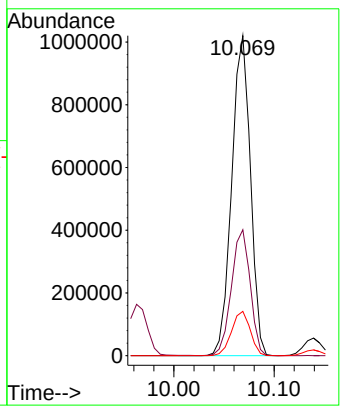


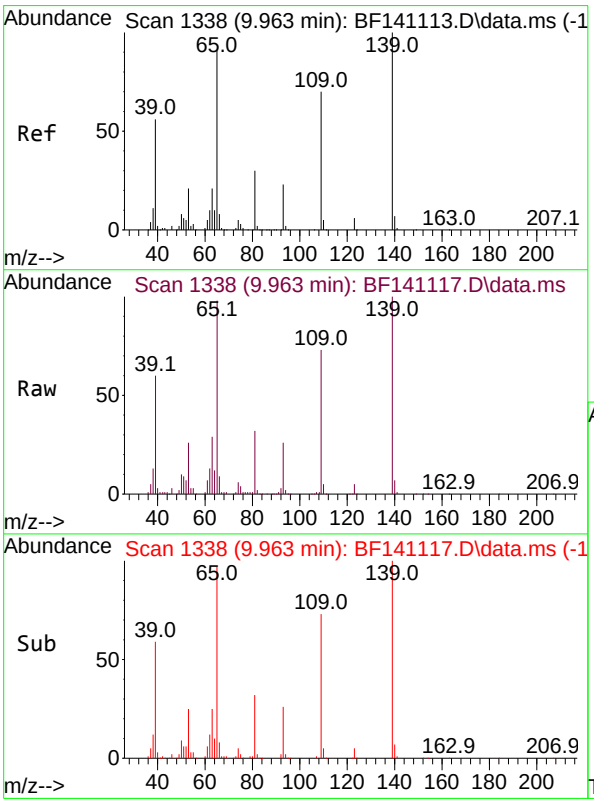
#55
Dibenzofuran
Concen: 48.261 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1321844

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.4	47.0
169	13.9	10.9	16.3

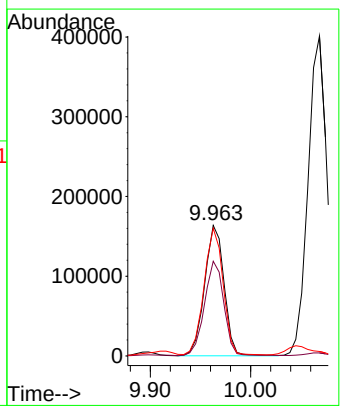


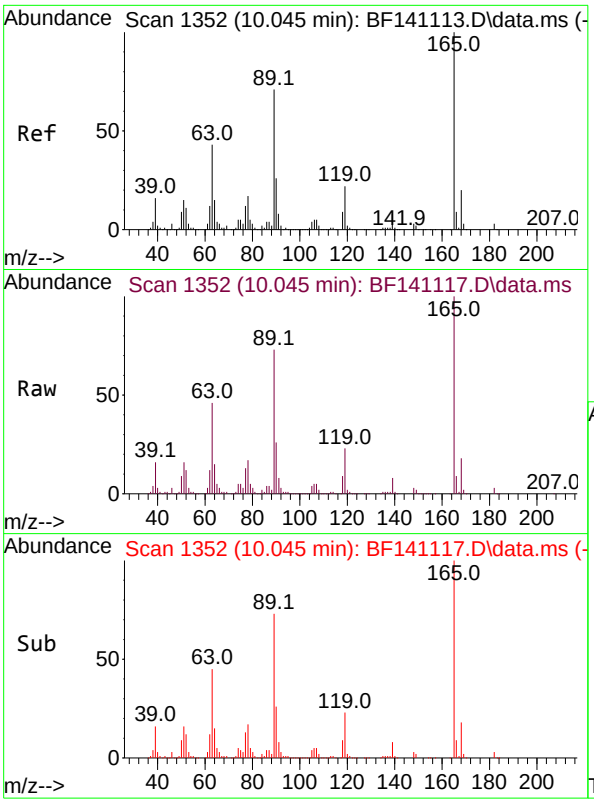


#56
4-Nitrophenol
Concen: 53.183 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:139 Resp: 220382

Ion	Ratio	Lower	Upper
139	100		
109	72.5	50.2	90.2
65	97.7	72.1	112.1



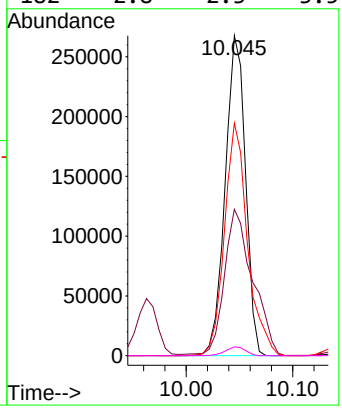


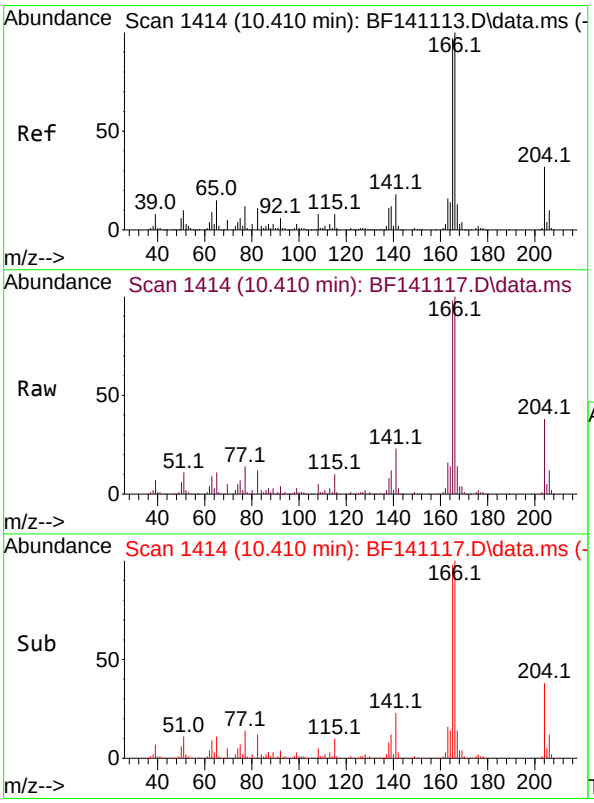
#57
2,4-Dinitrotoluene
Concen: 52.728 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 353808

Ion	Ratio	Lower	Upper
165	100		
63	45.8	35.0	52.4
89	72.7	56.7	85.1
182	2.8	2.3	3.5

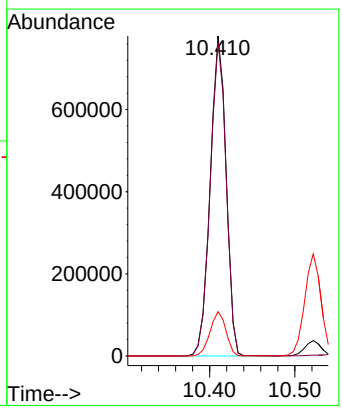


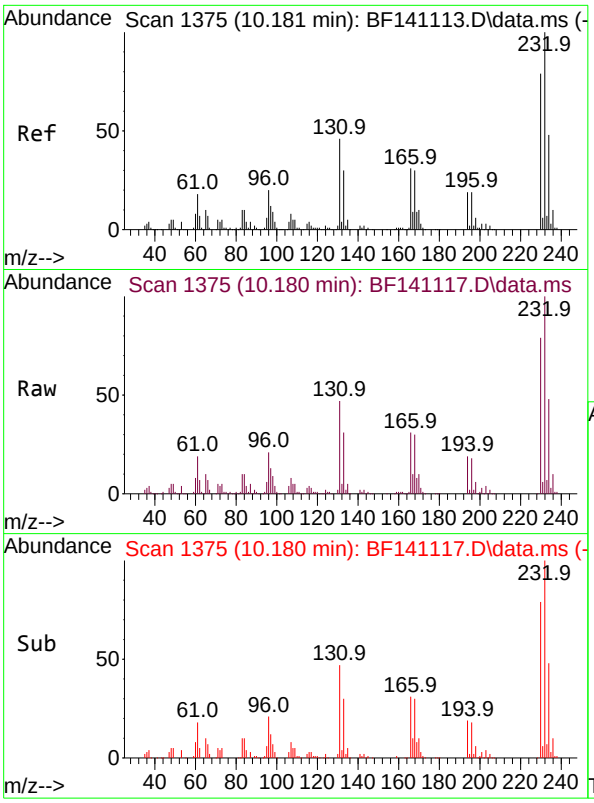


#58
Fluorene
Concen: 47.543 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:166 Resp: 1011650

Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.8	10.8	16.2



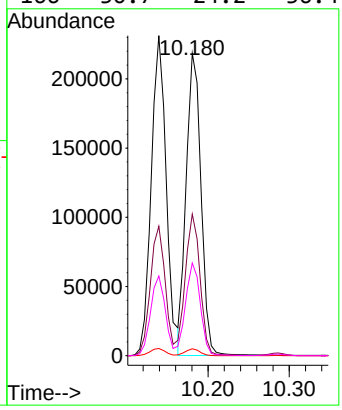


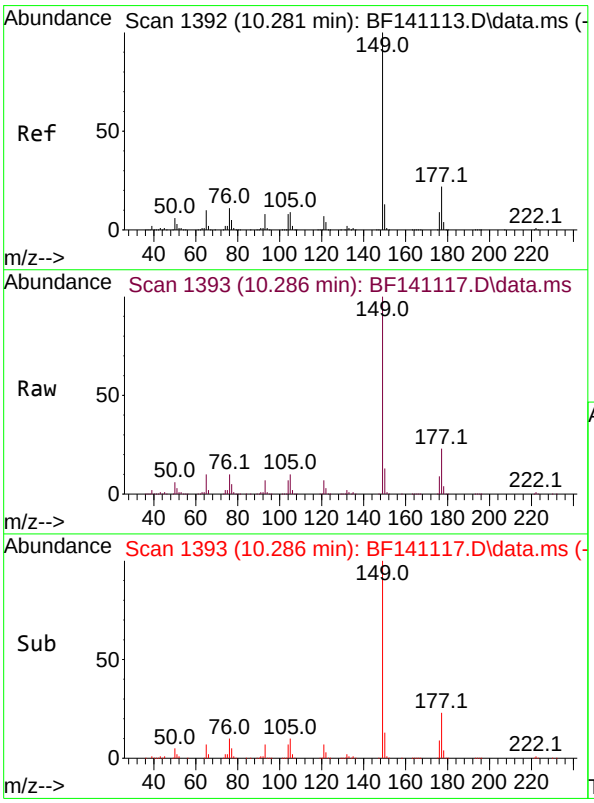
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.019 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 277818

Ion	Ratio	Lower	Upper
232	100		
131	46.8	36.2	54.4
130	2.3	2.0	3.0
166	30.7	24.2	36.4

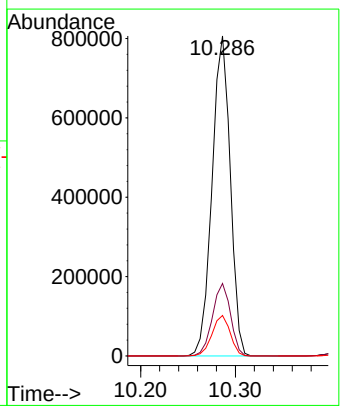


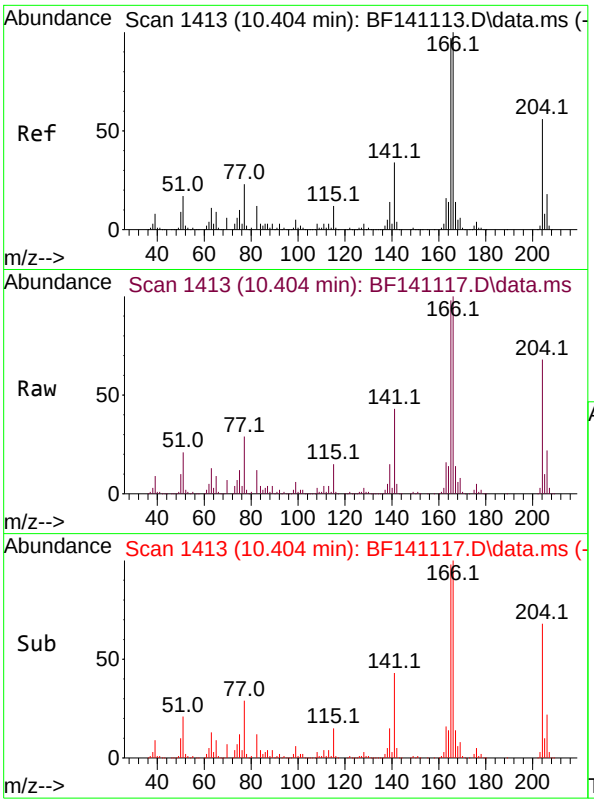


#60
Diethylphthalate
Concen: 49.171 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 1074789

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.9	26.9
150	12.6	10.2	15.2



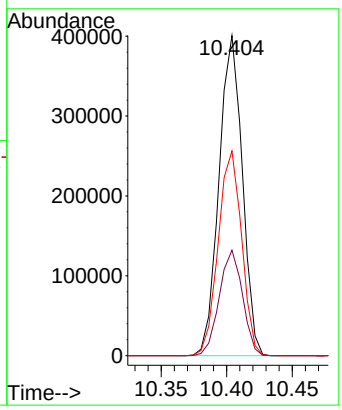


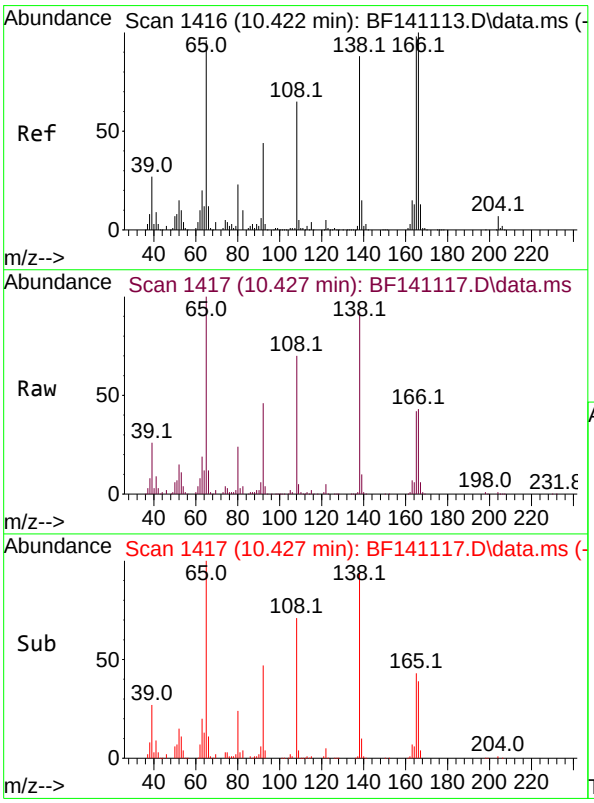
#61
4-Chlorophenyl-phenylether
Concen: 47.665 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 494329

Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.9	38.9
141	64.0	49.1	73.7

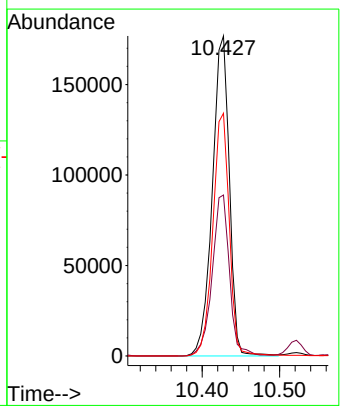


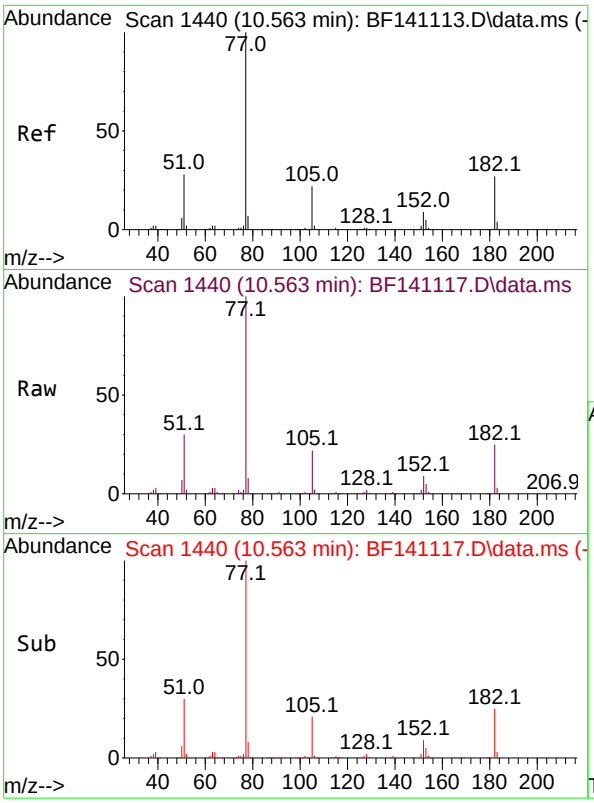


#62
4-Nitroaniline
Concen: 52.024 ng
RT: 10.427 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:138 Resp: 269415

Ion	Ratio	Lower	Upper
138	100		
92	50.3	29.4	69.4
108	75.9	53.7	93.7



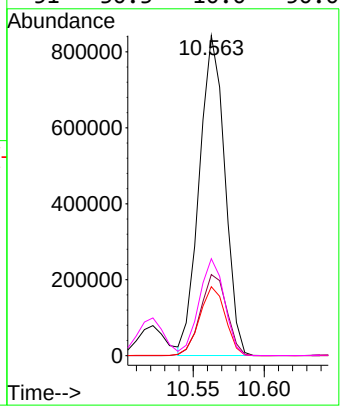


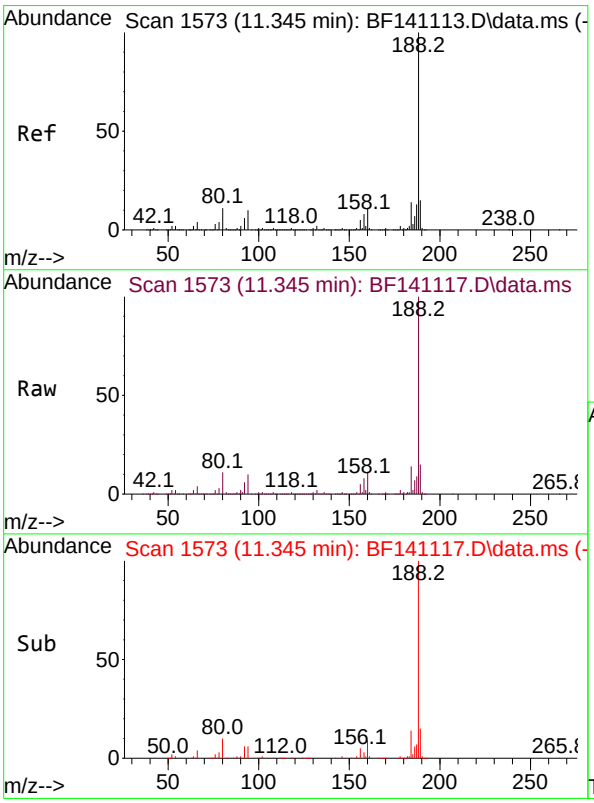
#63
Azobenzene
Concen: 48.881 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 1054277

Ion	Ratio	Lower	Upper
77	100		
182	25.4	6.1	46.1
105	21.6	2.1	42.1
51	30.3	10.0	50.0

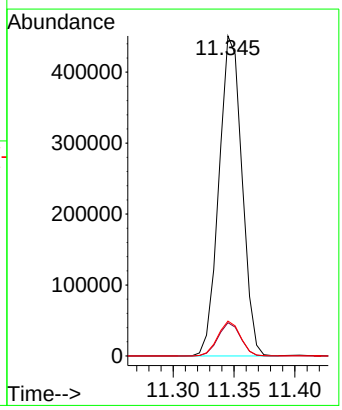


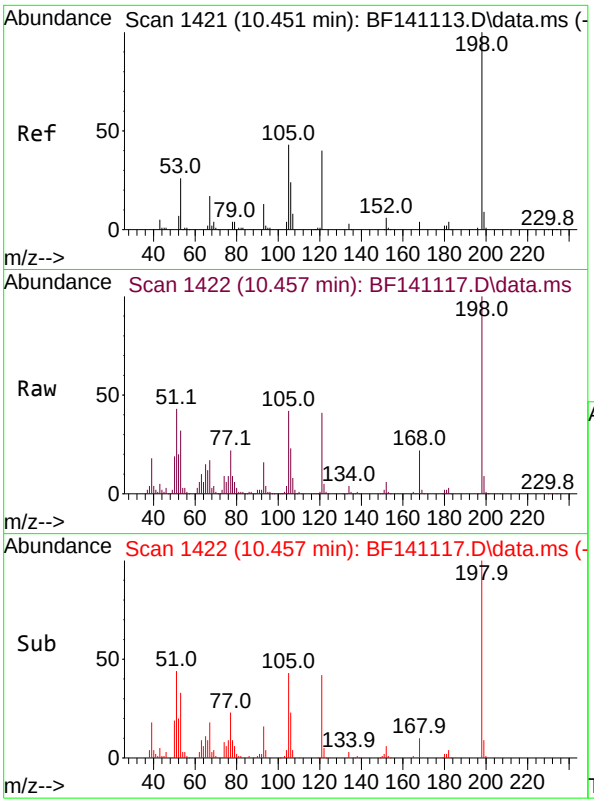


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:188 Resp: 593257

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.3	12.5
80	10.9	9.0	13.4



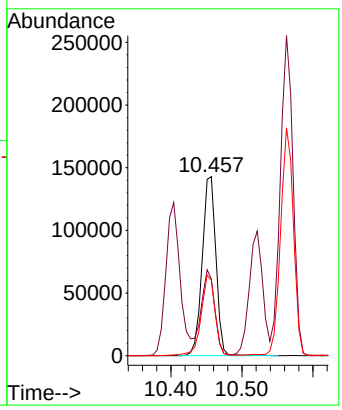


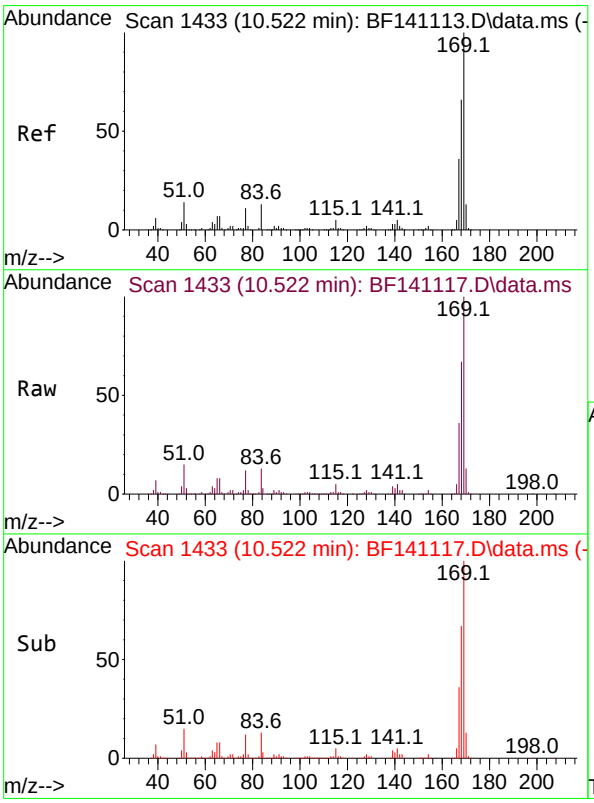
#65
4,6-Dinitro-2-methylphenol
Concen: 55.890 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 192136

Ion	Ratio	Lower	Upper
198	100		
51	42.9	27.1	67.1
105	42.1	24.2	64.2

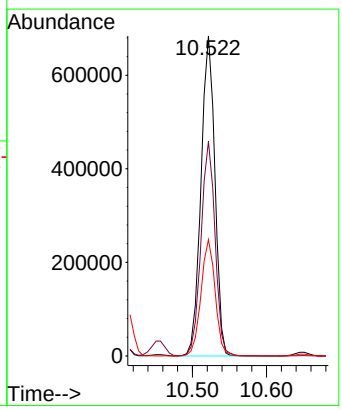


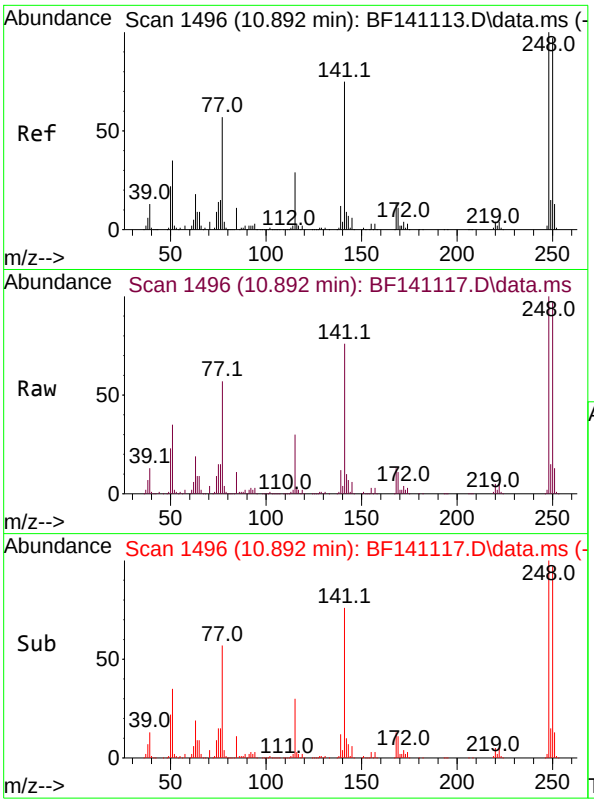


#66
n-Nitrosodiphenylamine
Concen: 46.748 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:169 Resp: 894530

Ion	Ratio	Lower	Upper
169	100		
168	67.0	52.5	78.7
167	36.4	28.9	43.3



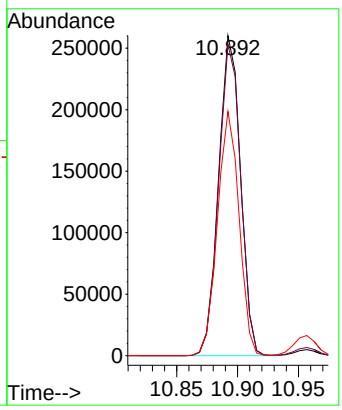


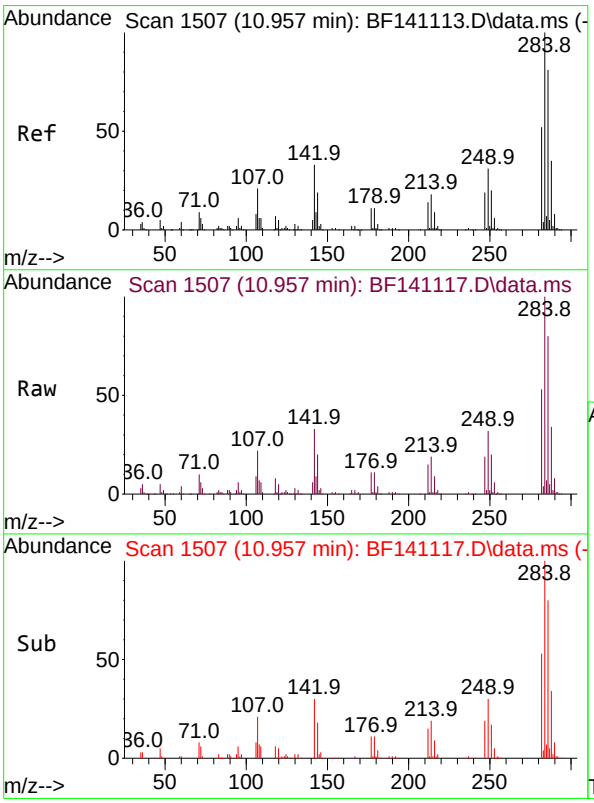
#67
4-Bromophenyl-phenylether
Concen: 47.810 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 326554

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.9	116.9
141	76.3	59.9	89.9

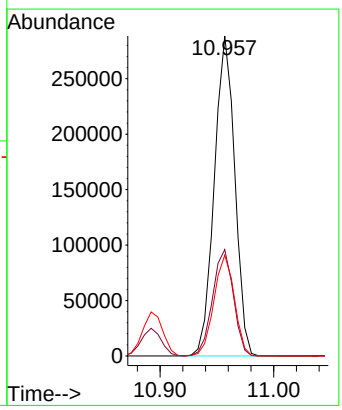


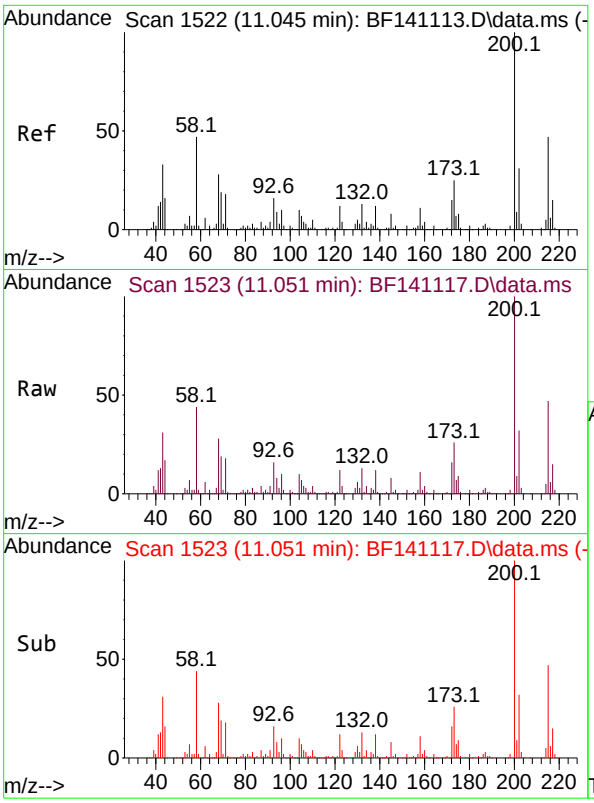


#68
Hexachlorobenzene
Concen: 47.551 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:284 Resp: 361542

Ion	Ratio	Lower	Upper
284	100		
142	33.2	26.3	39.5
249	31.5	24.9	37.3



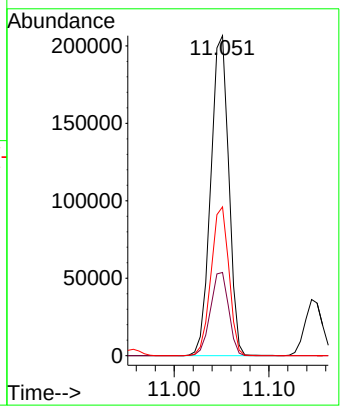


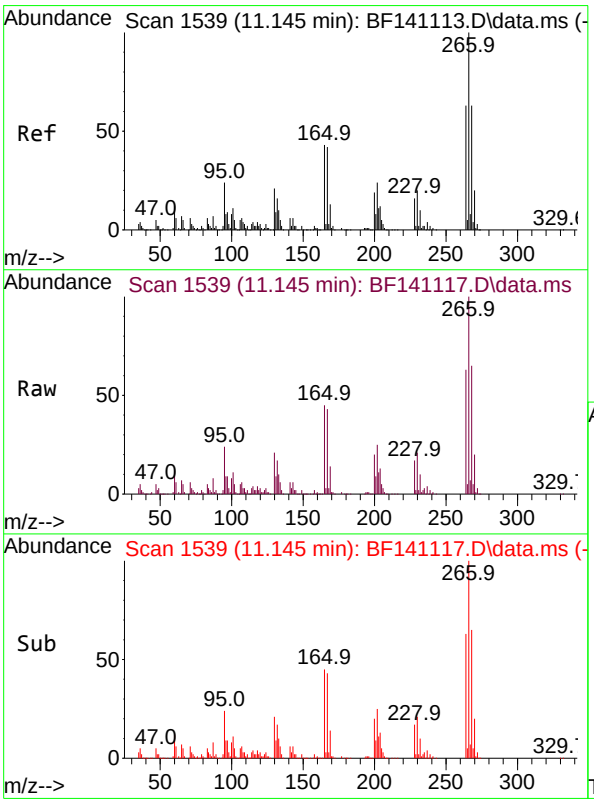
#69
Atrazine
Concen: 52.837 ng
RT: 11.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 272232

Ion	Ratio	Lower	Upper
200	100		
173	26.0	5.4	45.4
215	46.5	26.6	66.6

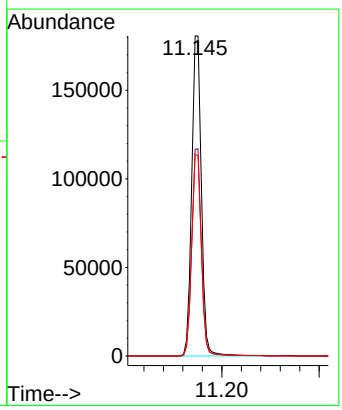


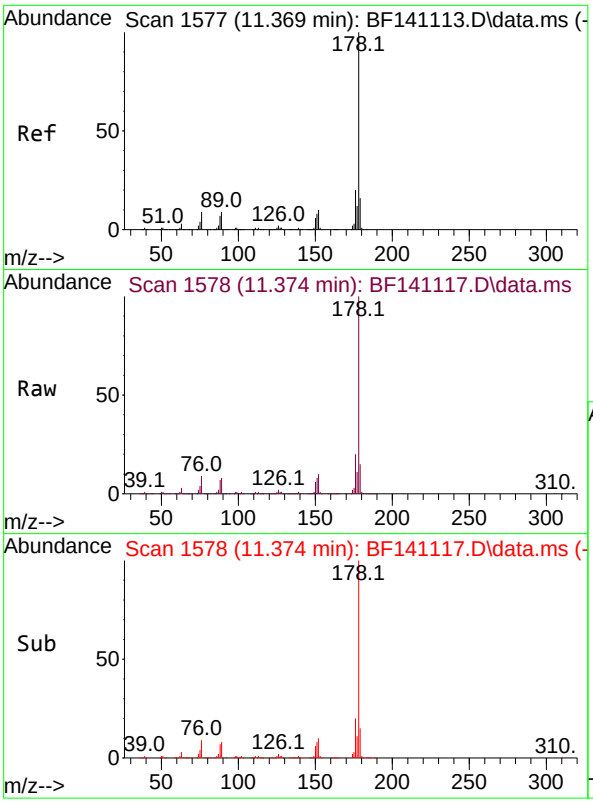


#70
Pentachlorophenol
Concen: 51.422 ng
RT: 11.145 min Scan# 1539
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:266 Resp: 250381

Ion	Ratio	Lower	Upper
266	100		
268	64.6	50.4	75.6
264	63.1	50.2	75.2



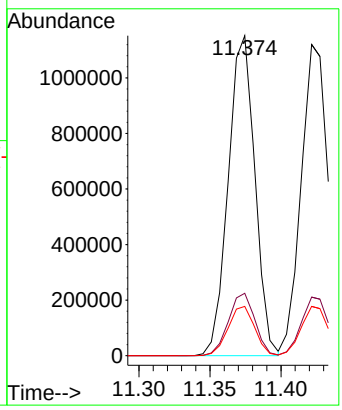


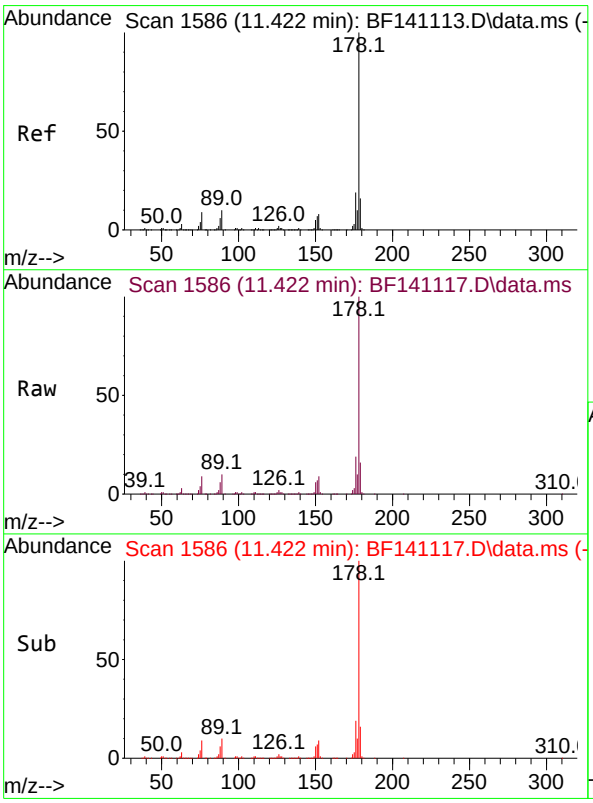
#71
Phenanthrene
Concen: 47.203 ng
RT: 11.374 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 1503408

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.4	12.6	19.0

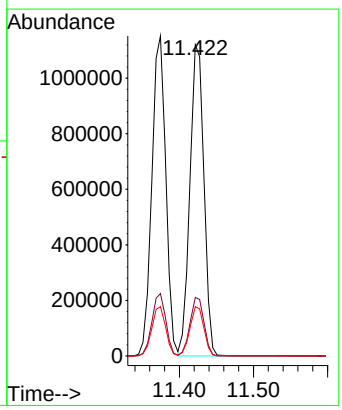


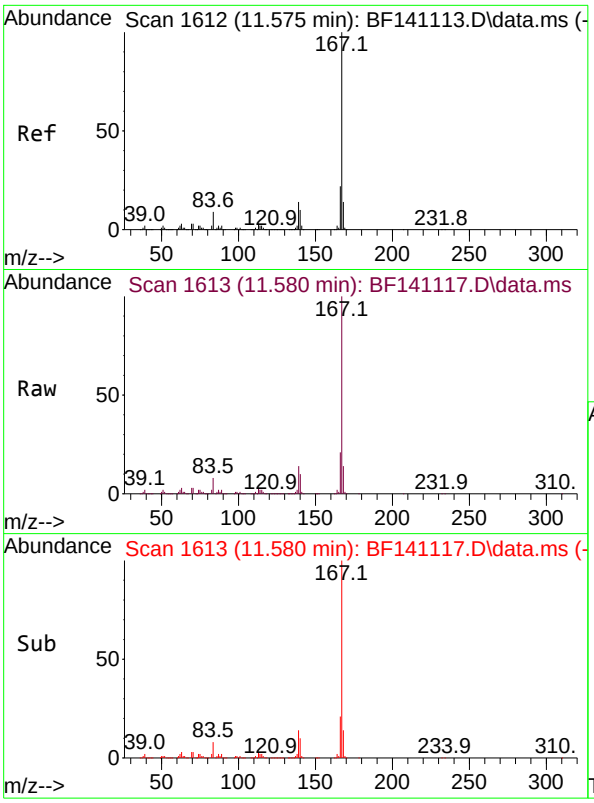


#72
Anthracene
Concen: 47.589 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:178 Resp: 1473797

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.9	12.6	19.0



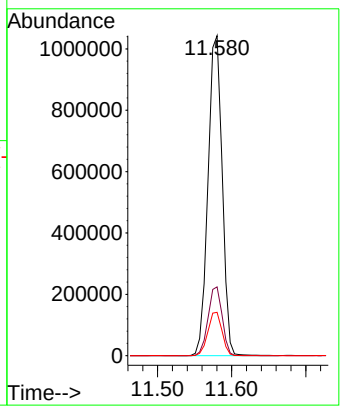


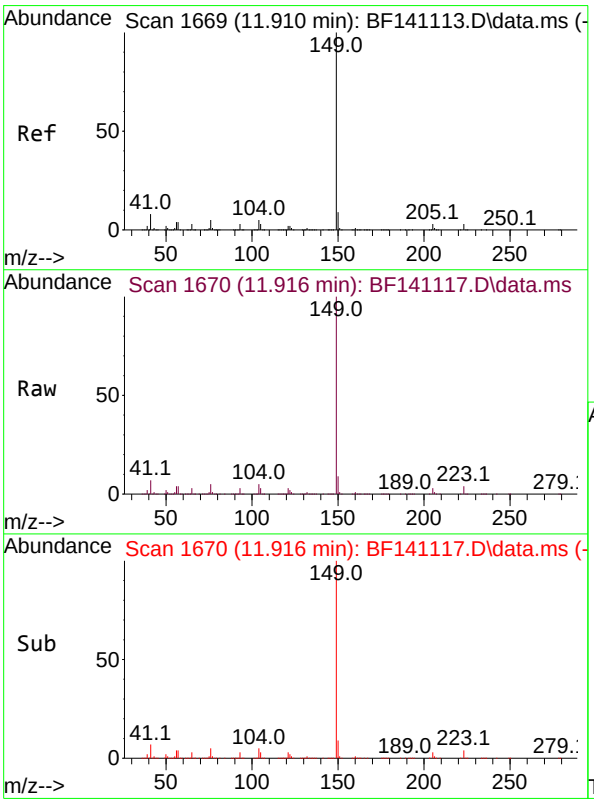
#73
Carbazole
Concen: 48.815 ng
RT: 11.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 1386206

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.4	26.2
139	13.6	10.9	16.3

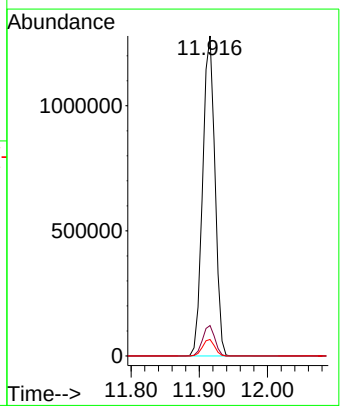


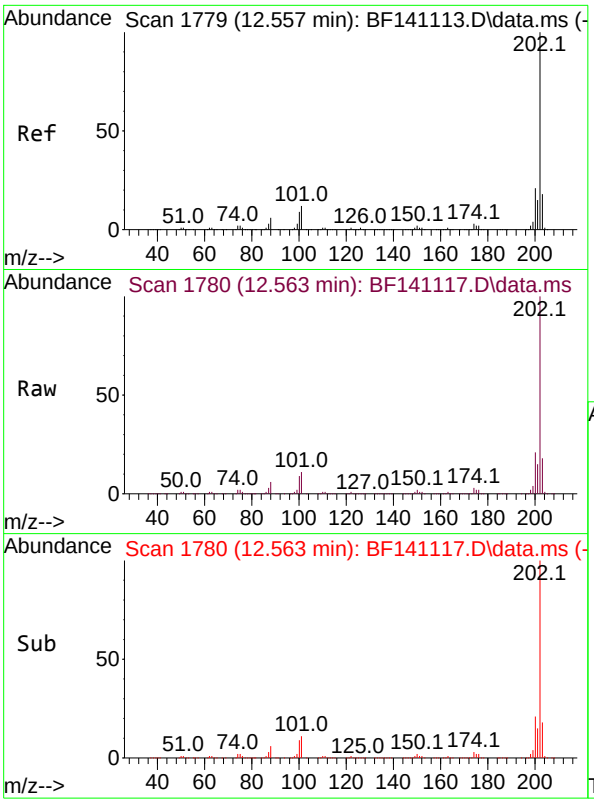


#74
Di-n-butylphthalate
Concen: 49.255 ng
RT: 11.916 min Scan# 1670
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 1600680

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	5.2	4.2	6.2



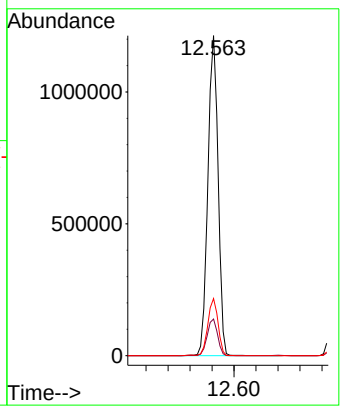


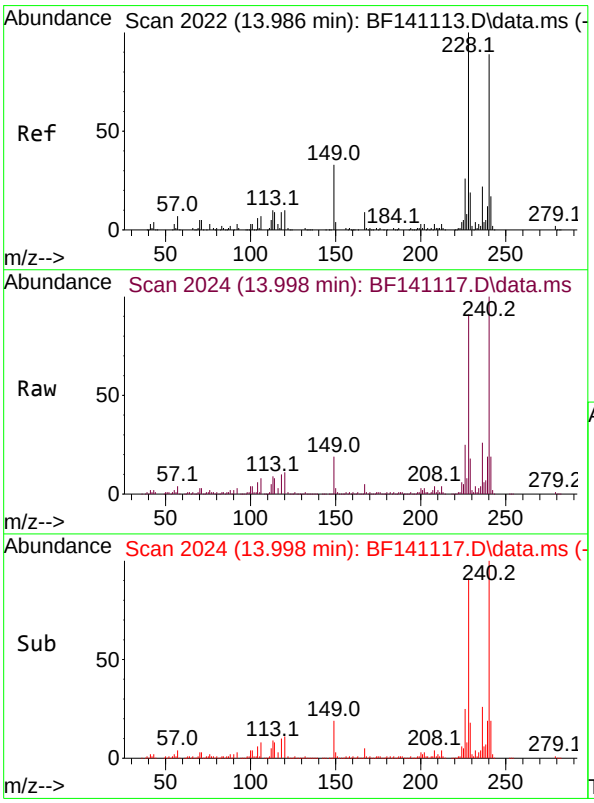
#75
Fluoranthene
Concen: 49.037 ng
RT: 12.563 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 1558556

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.3
203	17.9	0.0	37.7

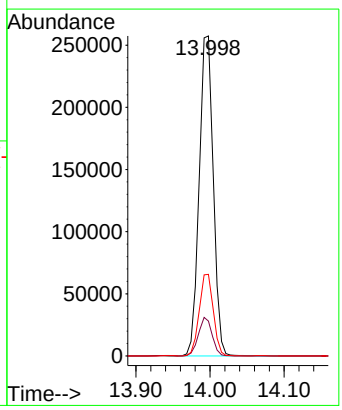


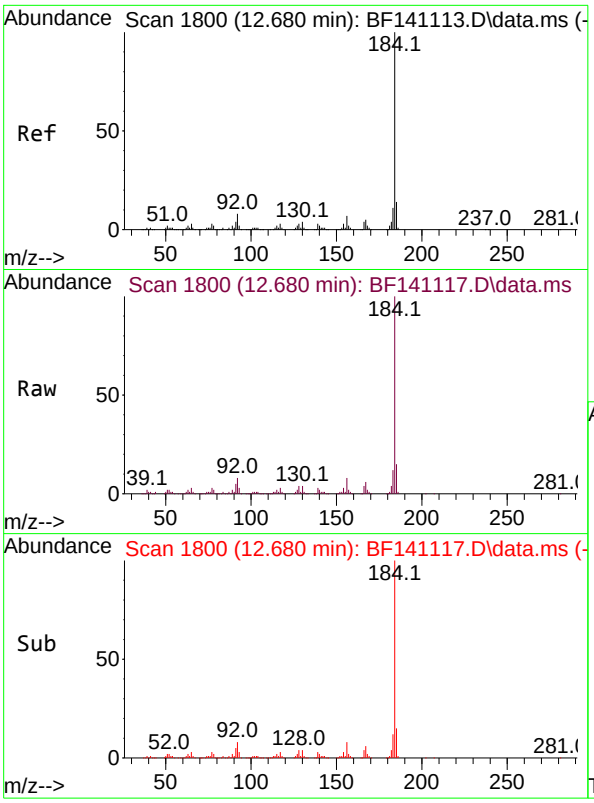


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:240 Resp: 341879

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.1	13.7
236	25.5	19.8	29.6



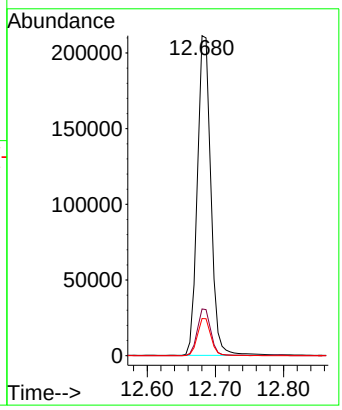


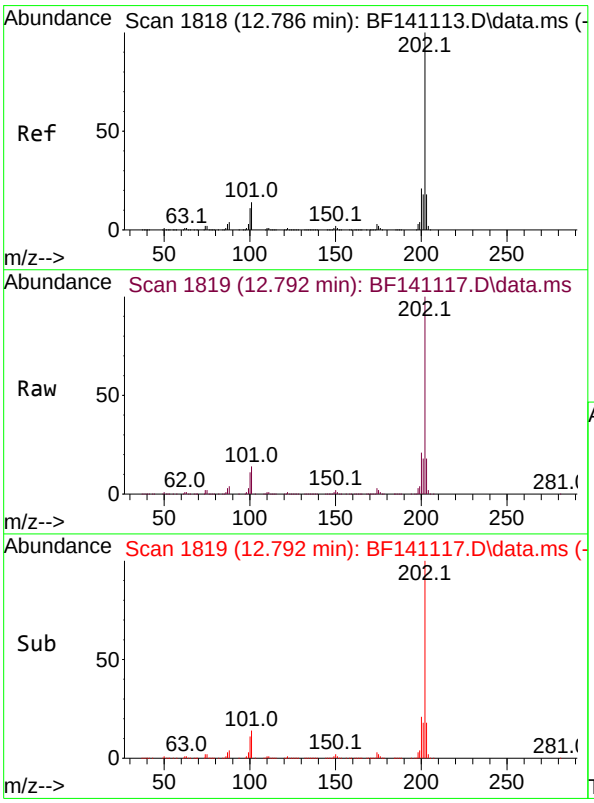
#77
Benzidine
Concen: 45.814 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 290459

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.4	17.0
183	11.6	9.2	13.8

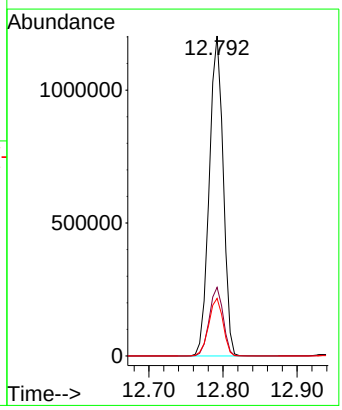


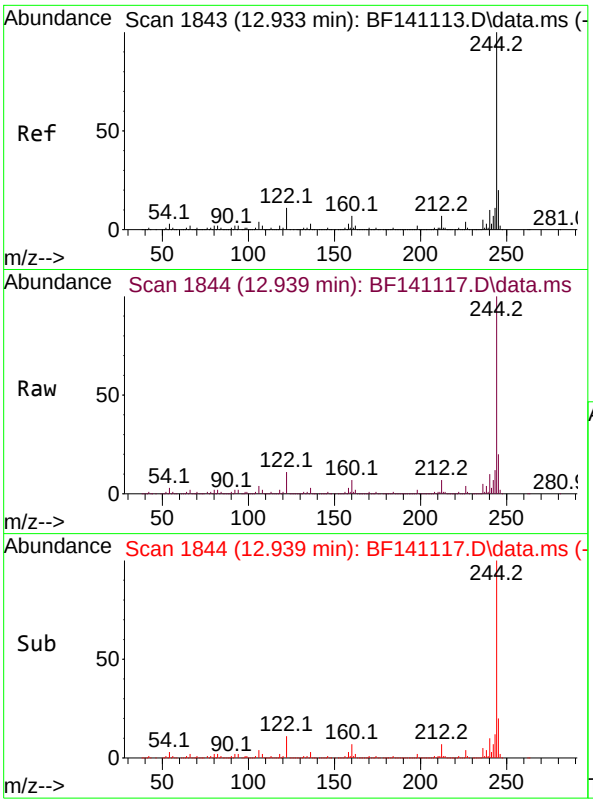


#78
Pyrene
Concen: 48.129 ng
RT: 12.792 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:202 Resp: 1571607

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.8	25.2
203	18.0	14.3	21.5



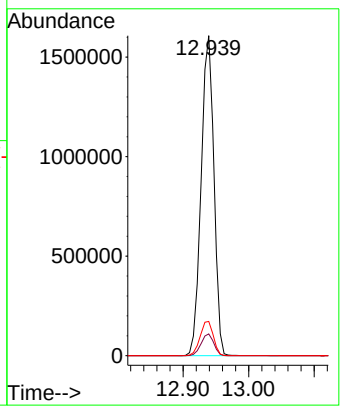


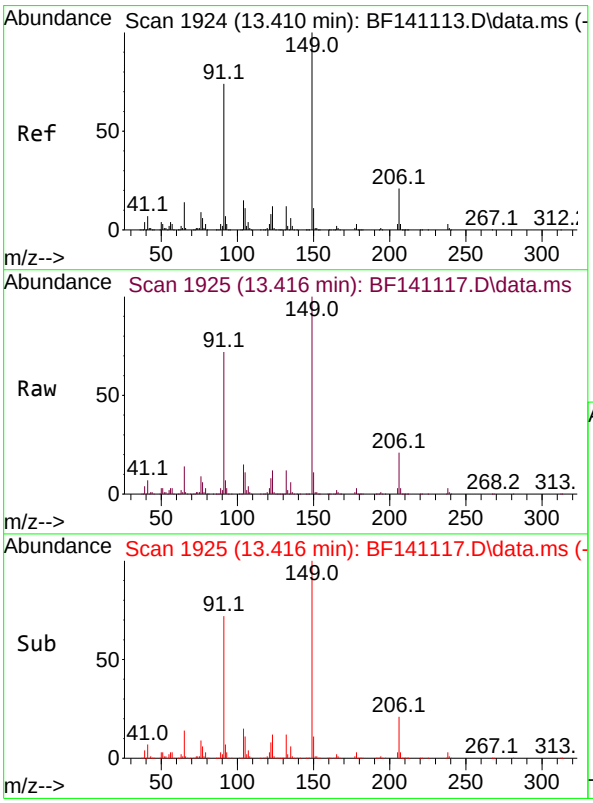
#79
Terphenyl-d14
Concen: 95.134 ng
RT: 12.939 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 2188278

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.7	8.8	13.2

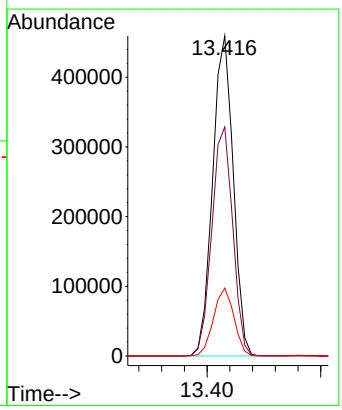


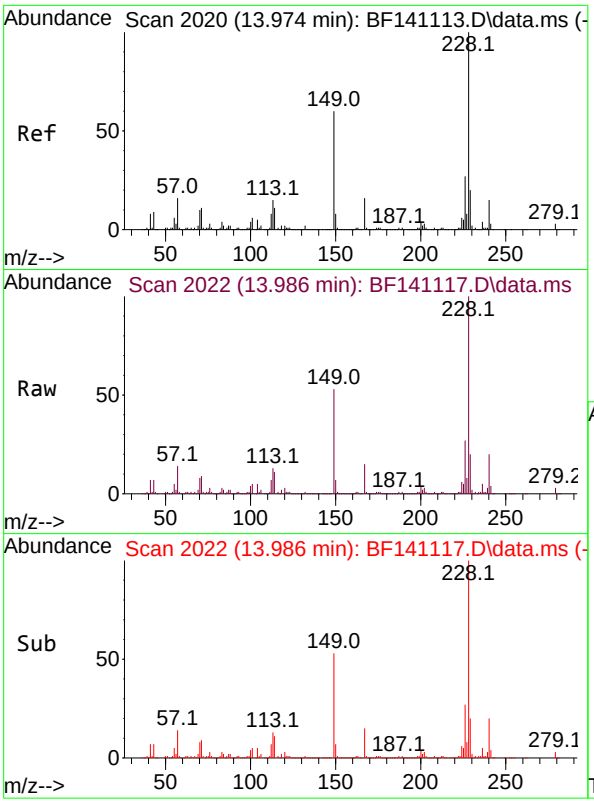


#80
Butylbenzylphthalate
Concen: 53.179 ng
RT: 13.416 min Scan# 1925
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 578964

Ion	Ratio	Lower	Upper
149	100		
91	71.5	59.0	88.6
206	21.2	16.5	24.7



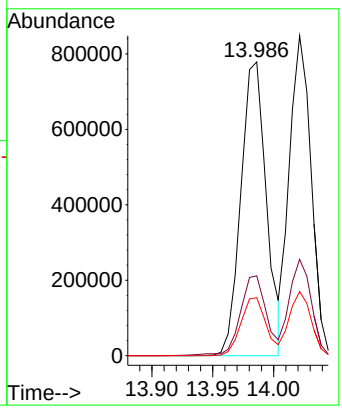


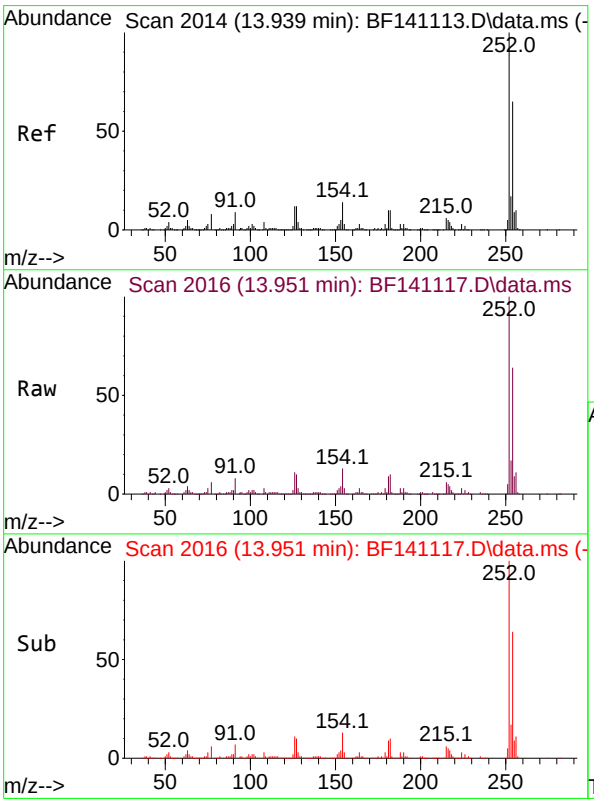
#81
Benzo(a)anthracene
Concen: 48.830 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1136119

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	19.7	15.7	23.5

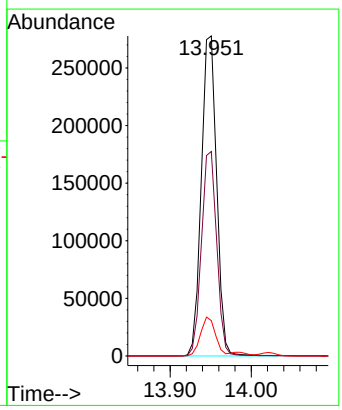


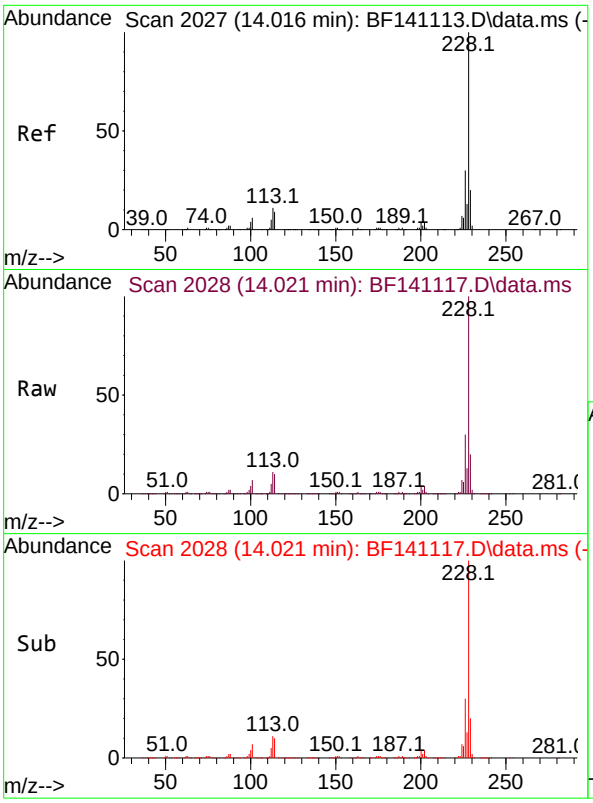


#82
3,3'-Dichlorobenzidine
Concen: 49.156 ng
RT: 13.951 min Scan# 2016
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:252 Resp: 364178

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.0	78.0
126	11.0	9.4	14.0



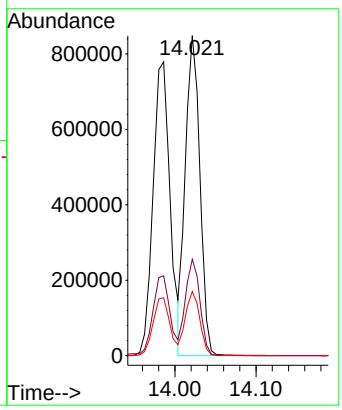


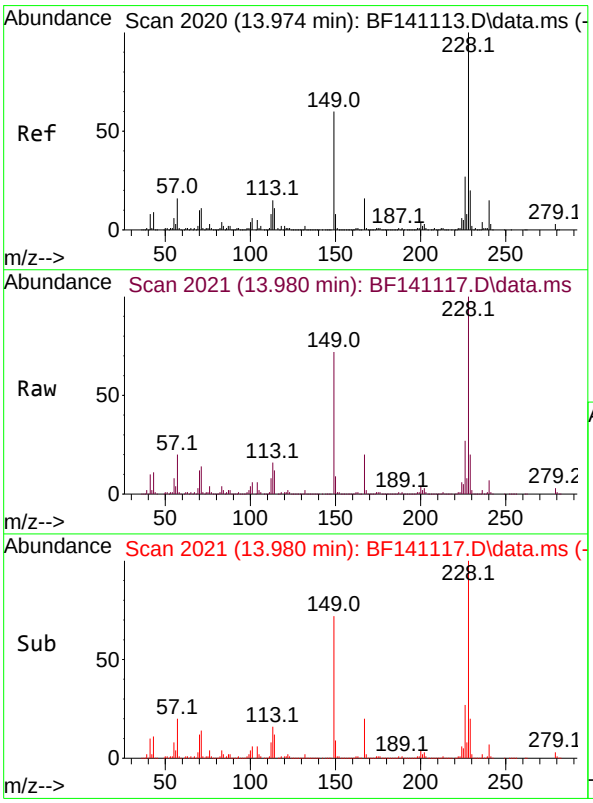
#83
Chrysene
Concen: 48.577 ng
RT: 14.021 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1057551

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	20.1	15.8	23.8

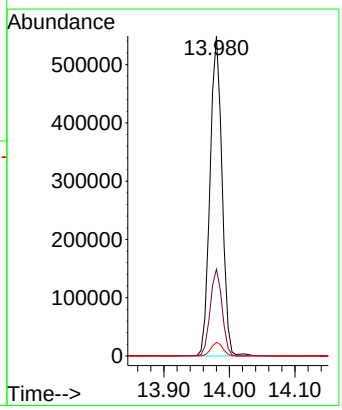


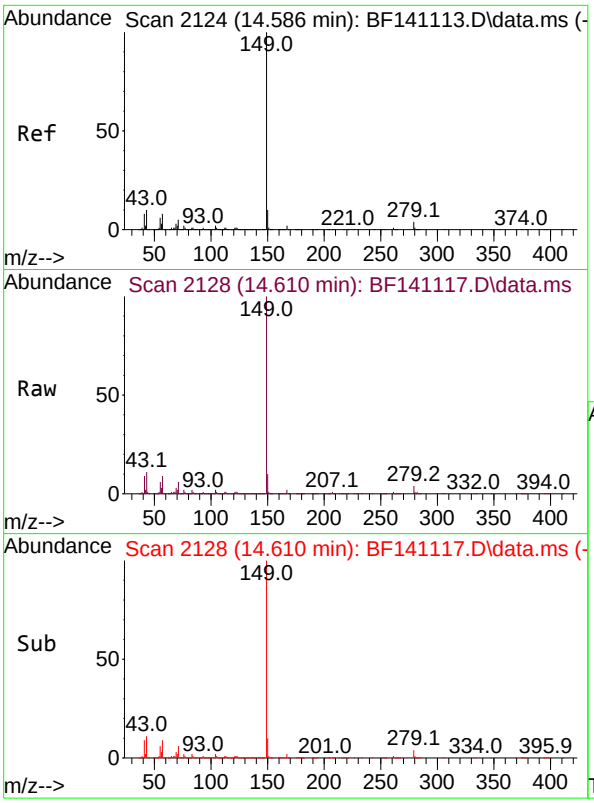


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.591 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 700052

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.2
279	4.2	3.4	5.2



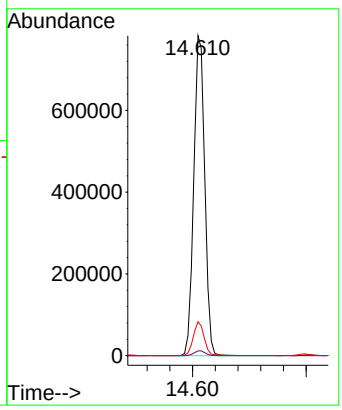


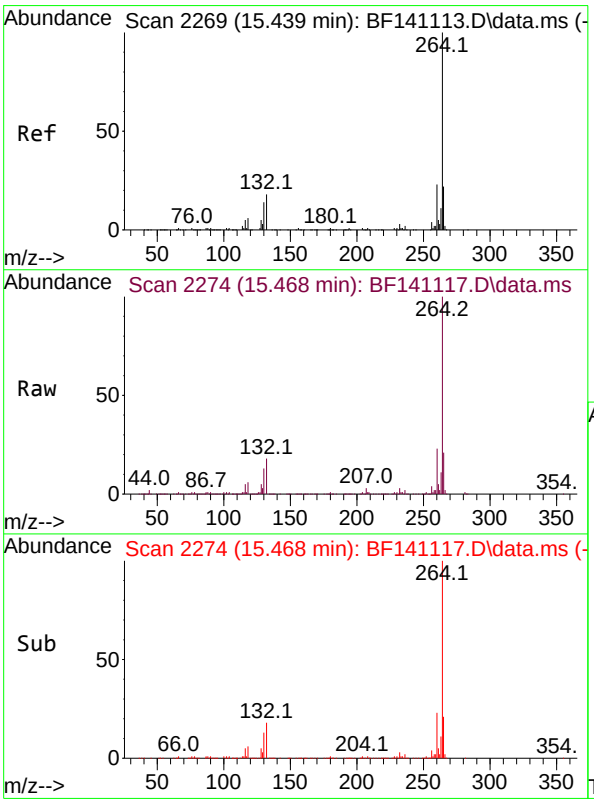
#85
Di-n-octyl phthalate
Concen: 53.503 ng
RT: 14.610 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1055383

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.4	8.4	12.6

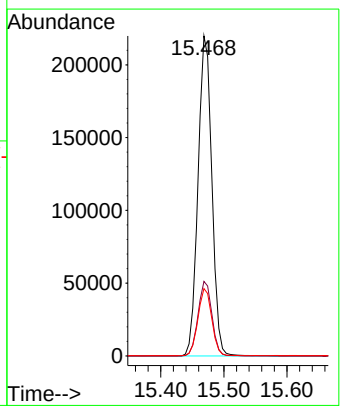


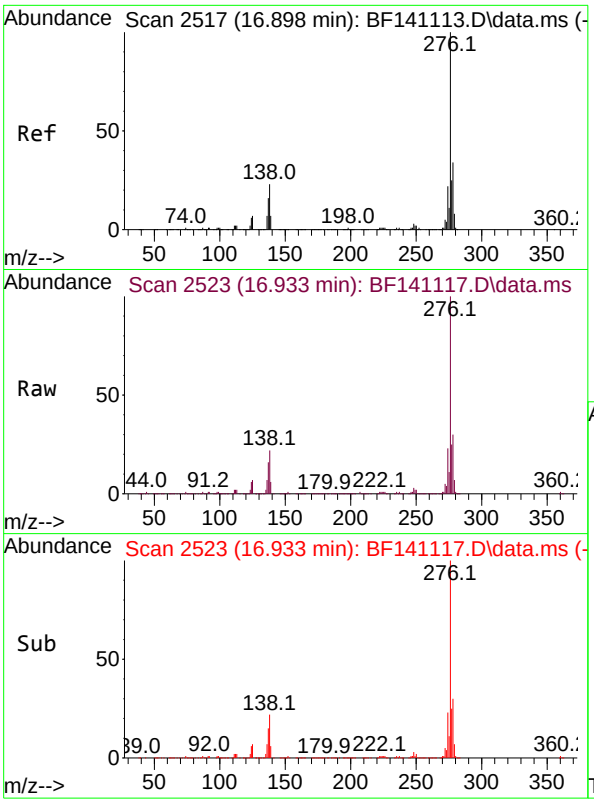


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.029 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:264 Resp: 333662

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.0	17.4	26.0



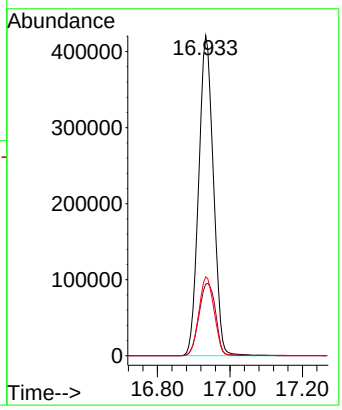


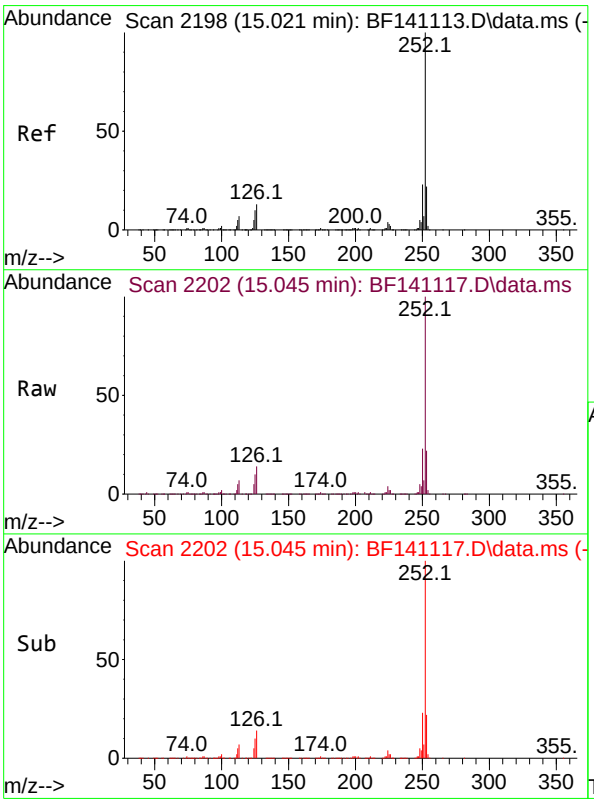
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.477 ng
RT: 16.933 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1185030

Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.7	31.1
277	25.6	20.6	30.8

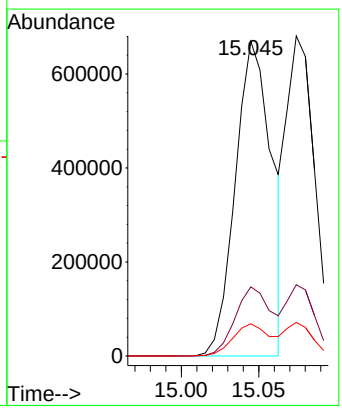


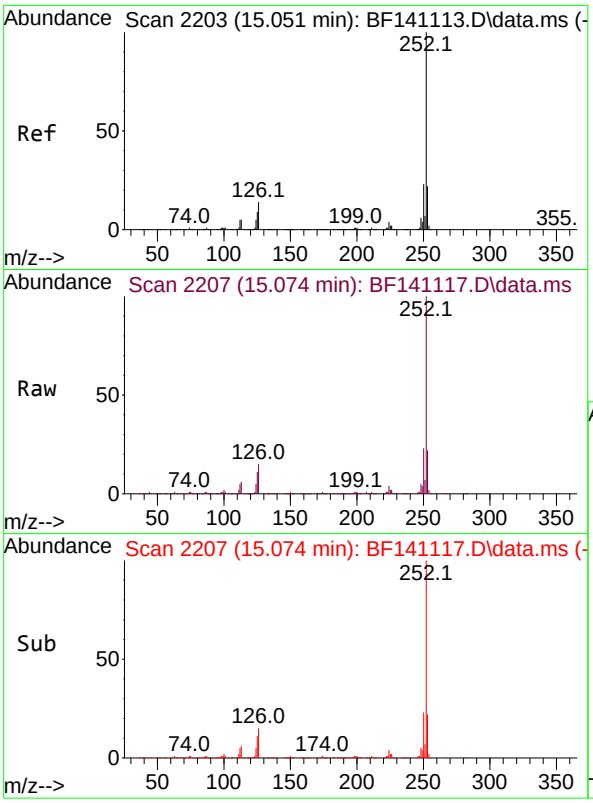


#88
Benzo(b)fluoranthene
Concen: 50.984 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.023 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:252 Resp: 1096957

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	10.2	8.1	12.1



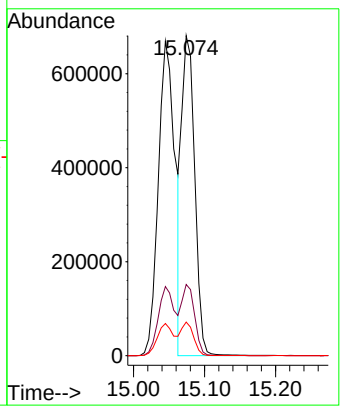


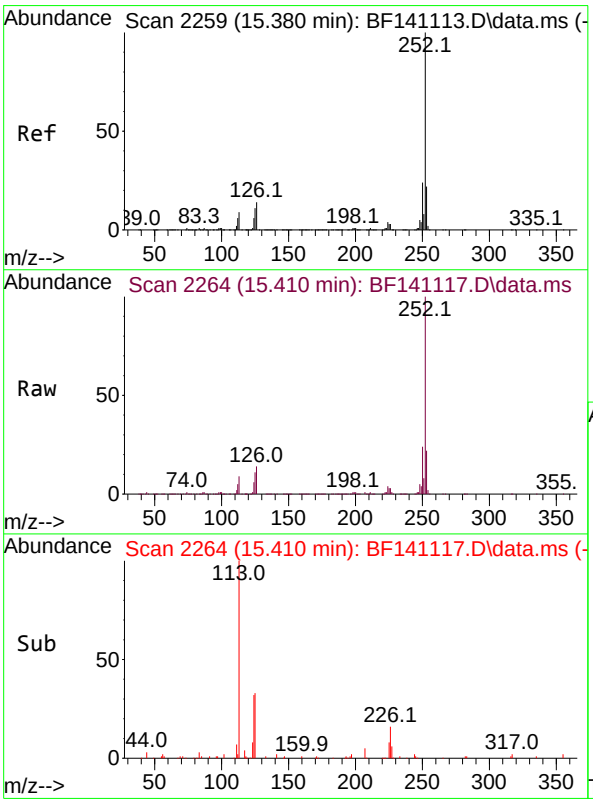
#89
Benzo(k)fluoranthene
Concen: 47.598 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 865456

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.5	7.9	11.9

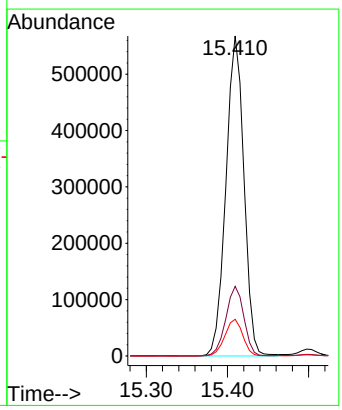


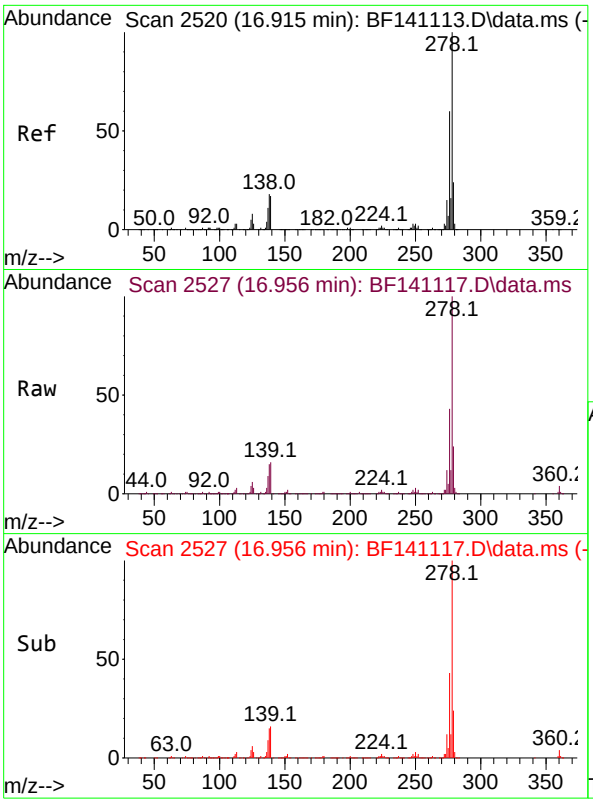


#90
Benzo(a)pyrene
Concen: 49.243 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.029 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:252 Resp: 874134

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	11.4	9.1	13.7



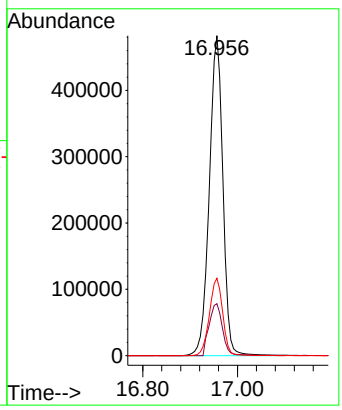


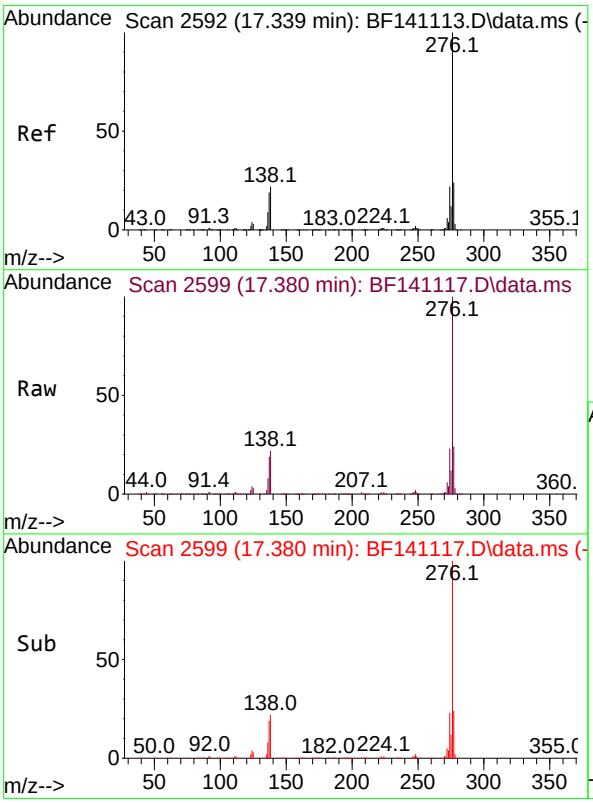
#91
Dibenzo(a,h)anthracene
Concen: 48.535 ng
RT: 16.956 min Scan# 2
Delta R.T. 0.041 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 959595

Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.8	20.6
279	24.2	19.1	28.7

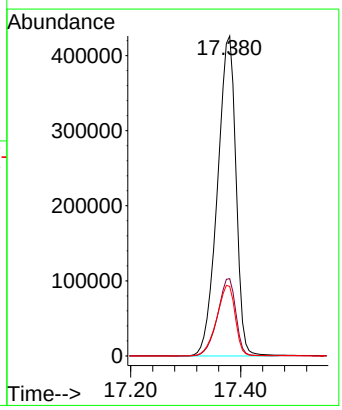




#92
Benzo(g,h,i)perylene
Concen: 48.464 ng
RT: 17.380 min Scan# 2599
Delta R.T. 0.041 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:276 Resp: 996659

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.4
138	21.7	17.4	26.2



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141118.D
Acq On : 10 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jan 10 22:23:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	157706	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	600362	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	321522	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	544574	20.000	ng		0.00
76) Chrysene-d12	13.986	240	270448	20.000	ng		0.00
86) Perylene-d12	15.457	264	319464	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	1161166	113.741	ng		0.00
7) Phenol-d6	6.451	99	1464294	113.234	ng		0.00
23) Nitrobenzene-d5	7.387	82	1340654	118.372	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	435599	118.901	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	2268382	107.735	ng		0.00
79) Terphenyl-d14	12.933	244	2193567	120.552	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.534	88	266794	58.686	ng		100
3) Pyridine	3.275	79	636756	57.117	ng		97
4) n-Nitrosodimethylamine	3.234	42	325634	59.738	ng		99
6) Aniline	6.487	93	643255	56.026	ng		99
8) 2-Chlorophenol	6.604	128	624776	57.043	ng		99
9) Benzaldehyde	6.369	77	364797	50.499	ng		99
10) Phenol	6.463	94	788986	56.996	ng		97
11) bis(2-Chloroethyl)ether	6.563	93	598240	57.990	ng		98
12) 1,3-Dichlorobenzene	6.763	146	693741	56.791	ng		99
13) 1,4-Dichlorobenzene	6.840	146	700356	56.894	ng		99
14) 1,2-Dichlorobenzene	6.993	146	644752	56.150	ng		99
15) Benzyl Alcohol	6.963	79	541420	57.975	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.098	45	818728	56.872	ng		99
17) 2-Methylphenol	7.069	107	509763	57.648	ng		99
18) Hexachloroethane	7.334	117	260241	58.460	ng		99
19) n-Nitroso-di-n-propyla...	7.240	70	426961	56.050	ng		99
20) 3+4-Methylphenols	7.228	107	624218	55.954	ng	#	87
22) Acetophenone	7.234	105	809173	56.696	ng	#	97
24) Nitrobenzene	7.404	77	699248	59.239	ng		99
25) Isophorone	7.645	82	1131315	58.450	ng		99
26) 2-Nitrophenol	7.722	139	336551	62.679	ng		99
27) 2,4-Dimethylphenol	7.751	122	429261	59.269	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	708043	58.290	ng		99
29) 2,4-Dichlorophenol	7.957	162	510890	59.394	ng		100
30) 1,2,4-Trichlorobenzene	8.045	180	568765	57.848	ng		100
31) Naphthalene	8.128	128	1795916	56.724	ng		100
32) Benzoic acid	7.875	122	465348	66.980	ng		97
33) 4-Chloroaniline	8.175	127	639712	58.424	ng		100
34) Hexachlorobutadiene	8.245	225	344699	58.183	ng		100
35) Caprolactam	8.551	113	168796	59.824	ng		96
36) 4-Chloro-3-methylphenol	8.651	107	552248	58.704	ng		99
37) 2-Methylnaphthalene	8.816	142	1147172	56.860	ng		100
38) 1-Methylnaphthalene	8.916	142	1129604	56.812	ng		99
40) 1,2,4,5-Tetrachloroben...	8.981	216	534399	57.909	ng		100
41) Hexachlorocyclopentadiene	8.969	237	184204	61.011	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	364034	58.489	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141118.D
Acq On : 10 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jan 10 22:23:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

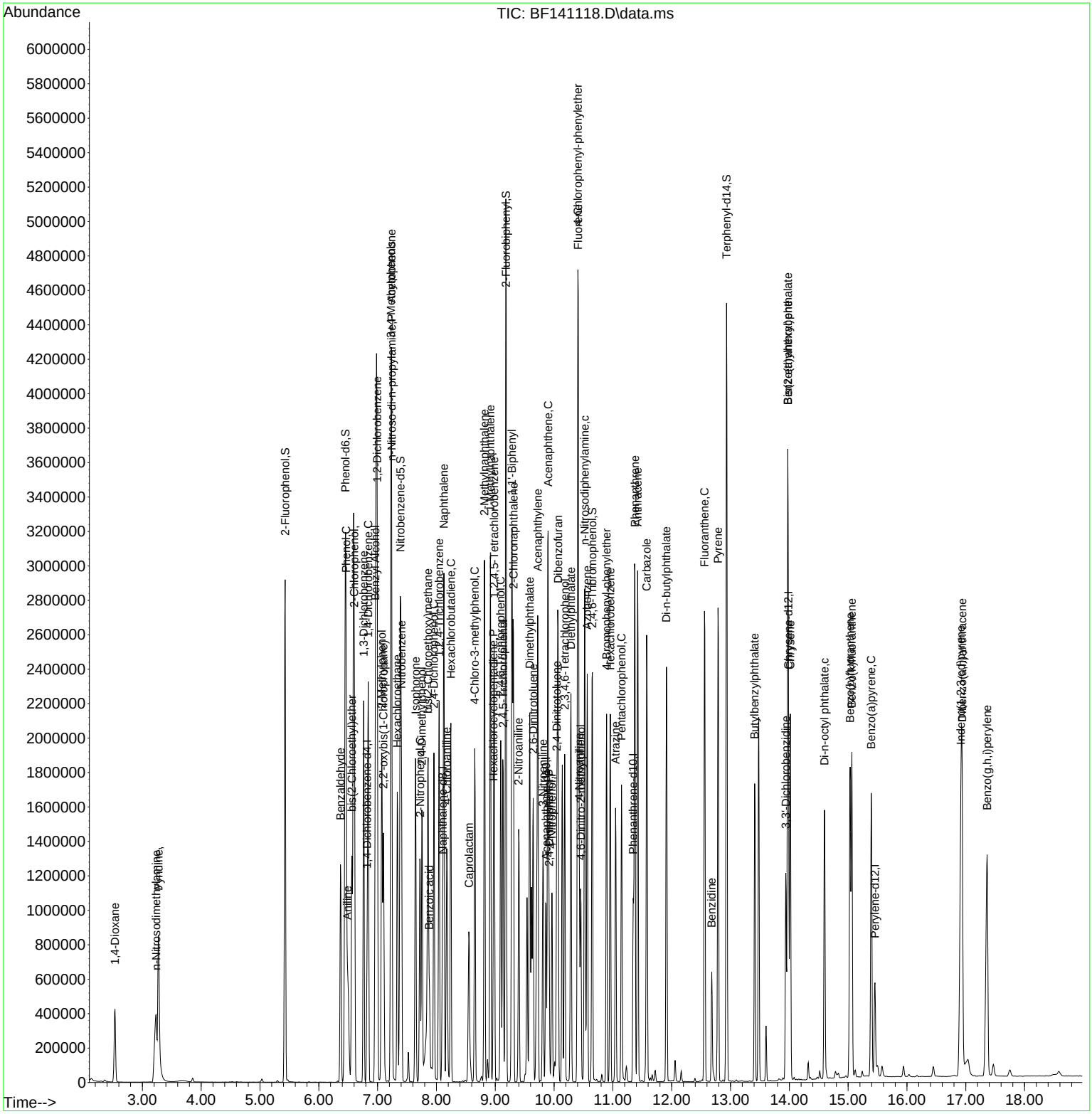
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.134	196	392463	59.706	ng	98
46) 1,1'-Biphenyl	9.281	154	1400460	56.087	ng	99
47) 2-Chloronaphthalene	9.310	162	1104069	56.770	ng	99
48) 2-Nitroaniline	9.398	65	351824	61.027	ng	96
49) Acenaphthylene	9.722	152	1595599	57.426	ng	100
50) Dimethylphthalate	9.587	163	1246443	57.746	ng	100
51) 2,6-Dinitrotoluene	9.645	165	300526	59.872	ng	98
52) Acenaphthene	9.898	154	1118880	57.638	ng	99
53) 3-Nitroaniline	9.810	138	301277	59.064	ng	99
54) 2,4-Dinitrophenol	9.916	184	160627	67.324	ng	90
55) Dibenzofuran	10.069	168	1491333	56.480	ng	100
56) 4-Nitrophenol	9.963	139	248603	62.231	ng	99
57) 2,4-Dinitrotoluene	10.045	165	396697	61.325	ng	98
58) Fluorene	10.410	166	1140533	55.599	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.181	232	324822	59.450	ng	99
60) Diethylphthalate	10.286	149	1212103	57.521	ng	99
61) 4-Chlorophenyl-phenyle...	10.404	204	563117	56.322	ng	99
62) 4-Nitroaniline	10.428	138	303457	60.783	ng	99
63) Azobenzene	10.563	77	1189100	57.188	ng	100
65) 4,6-Dinitro-2-methylph...	10.457	198	216263	68.532	ng	97
66) n-Nitrosodiphenylamine	10.522	169	1016238	57.856	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	373557	59.581	ng	100
68) Hexachlorobenzene	10.957	284	412239	59.066	ng	99
69) Atrazine	11.045	200	275405	58.231	ng	99
70) Pentachlorophenol	11.145	266	280071	62.662	ng	100
71) Phenanthrene	11.375	178	1652586	56.525	ng	100
72) Anthracene	11.422	178	1628828	57.297	ng	100
73) Carbazole	11.575	167	1471188	56.440	ng	100
74) Di-n-butylphthalate	11.910	149	1703503	57.105	ng	100
75) Fluoranthene	12.557	202	1612262	55.261	ng	100
77) Benzidine	12.680	184	339258	67.645	ng	100
78) Pyrene	12.786	202	1586225	61.407	ng	99
80) Butylbenzylphthalate	13.410	149	542533	62.995	ng	100
81) Benzo(a)anthracene	13.974	228	1109142	60.261	ng	99
82) 3,3'-Dichlorobenzidine	13.939	252	357792	61.050	ng	99
83) Chrysene	14.016	228	1004586	58.332	ng	100
84) Bis(2-ethylhexyl)phtha...	13.974	149	635471	61.496	ng	100
85) Di-n-octyl phthalate	14.598	149	1008931	64.657	ng	100
87) Indeno(1,2,3-cd)pyrene	16.915	276	1475298	63.034	ng	99
88) Benzo(b)fluoranthene	15.033	252	1141152	55.395	ng	100
89) Benzo(k)fluoranthene	15.063	252	1057429	60.741	ng	99
90) Benzo(a)pyrene	15.392	252	1022132	60.139	ng	100
91) Dibenzo(a,h)anthracene	16.939	278	1195359	63.146	ng	99
92) Benzo(g,h,i)perylene	17.363	276	1241806	63.068	ng	100

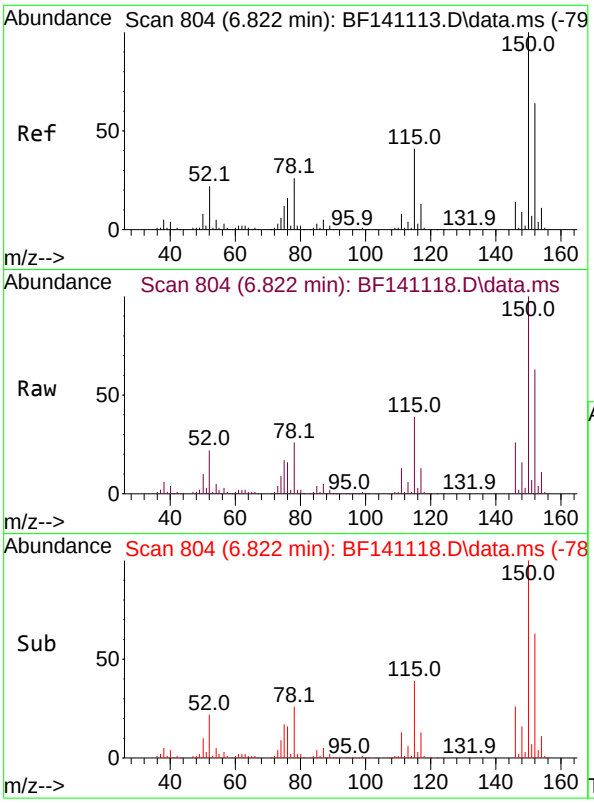
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141118.D
Acq On : 10 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Jan 10 22:23:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



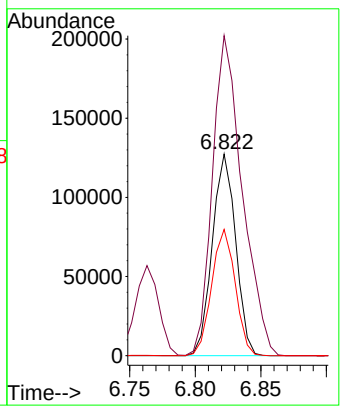


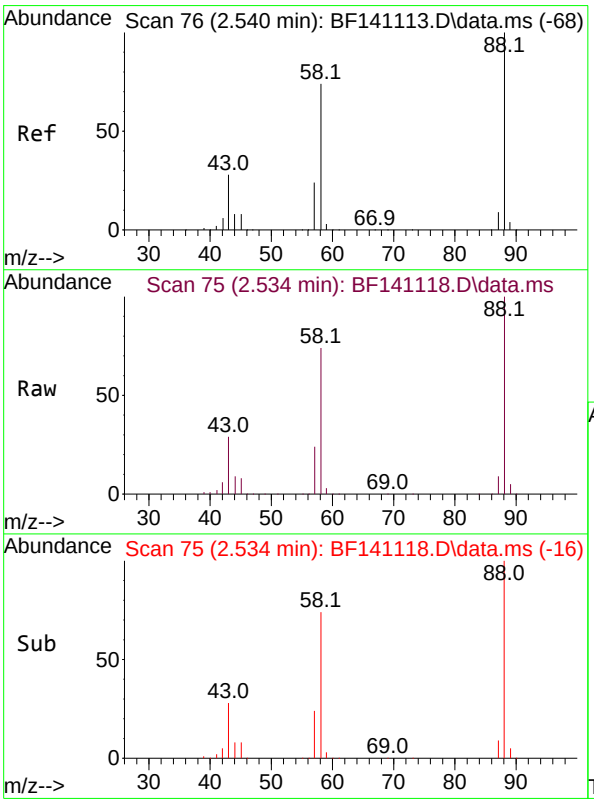
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 157706

Ion	Ratio	Lower	Upper
152	100		
150	158.8	125.8	188.8
115	62.7	51.4	77.2

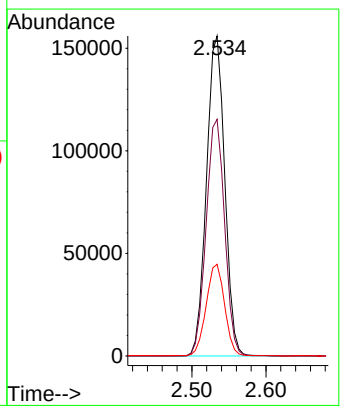


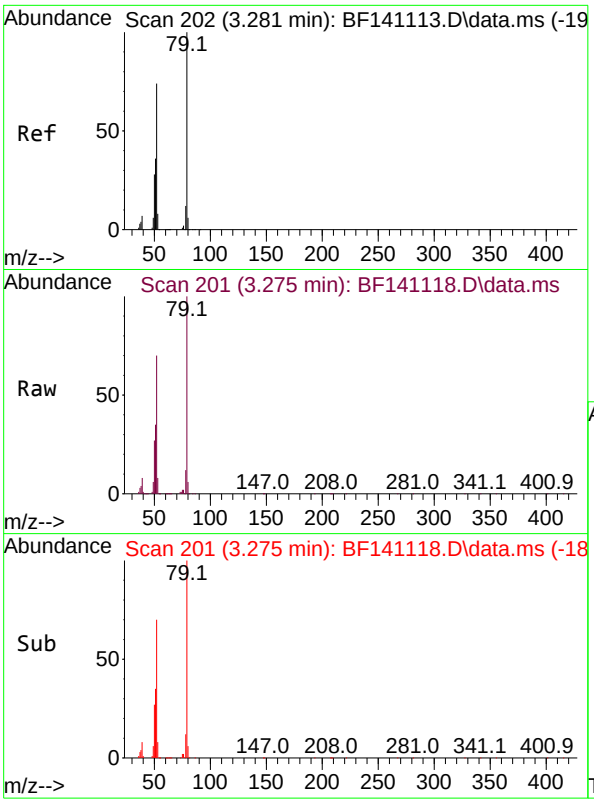


#2
1,4-Dioxane
Concen: 58.686 ng
RT: 2.534 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 88 Resp: 266794

Ion	Ratio	Lower	Upper
88	100		
58	75.0	60.1	90.1
43	28.7	23.1	34.7



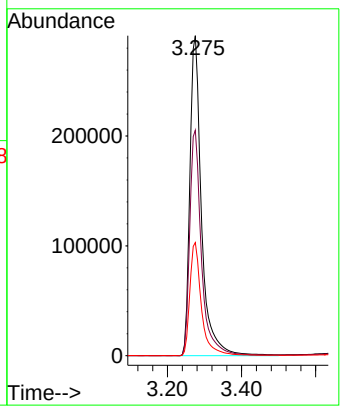


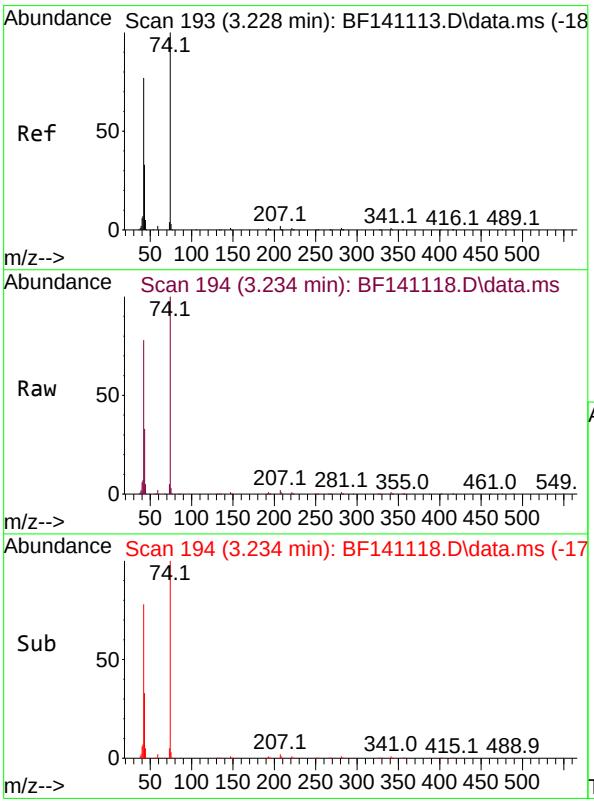
#3
Pyridine
Concen: 57.117 ng
RT: 3.275 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 636756

Ion	Ratio	Lower	Upper
79	100		
52	70.5	58.9	88.3
51	35.4	29.1	43.7

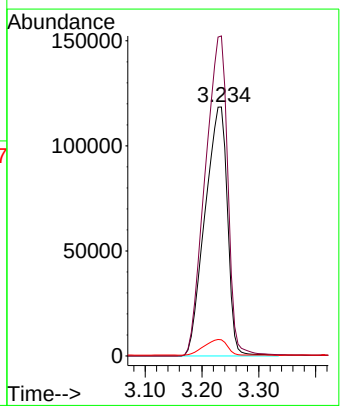


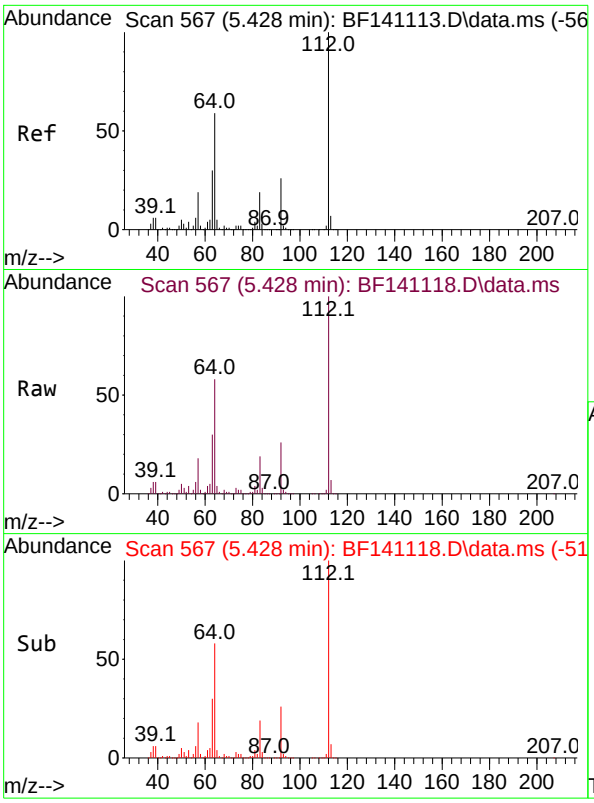


#4
n-Nitrosodimethylamine
Concen: 59.738 ng
RT: 3.234 min Scan# 194
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 42 Resp: 325634

Ion	Ratio	Lower	Upper
42	100		
74	128.5	103.8	155.6
44	6.5	5.3	7.9



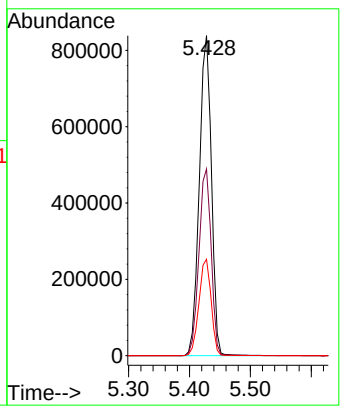


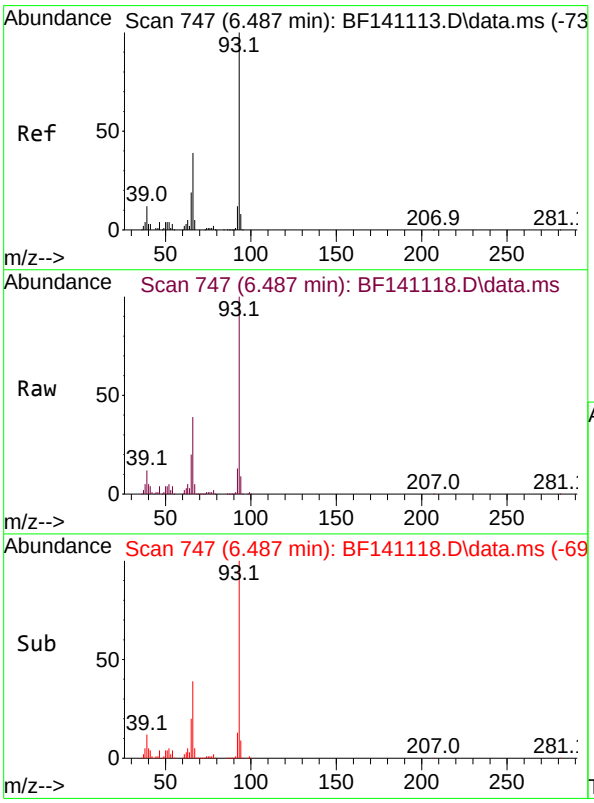
#5
2-Fluorophenol
Concen: 113.741 ng
RT: 5.428 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 1161166

Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.3	70.9
63	30.2	24.2	36.2

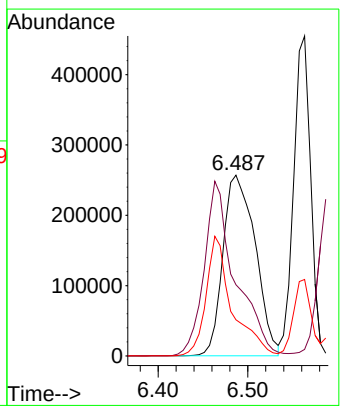


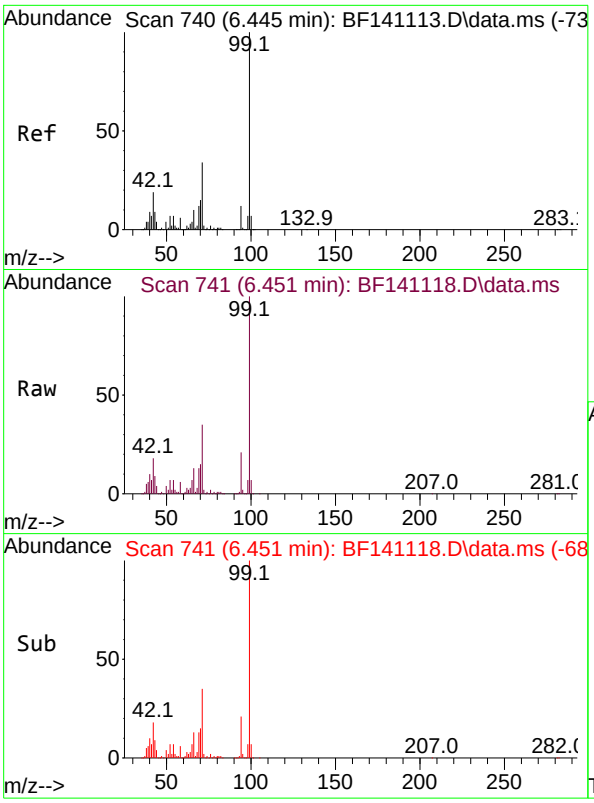


#6
Aniline
Concen: 56.026 ng
RT: 6.487 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 93 Resp: 643255

Ion	Ratio	Lower	Upper
93	100		
66	39.4	31.5	47.3
65	20.0	15.3	22.9



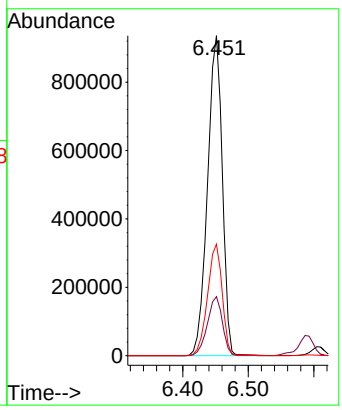


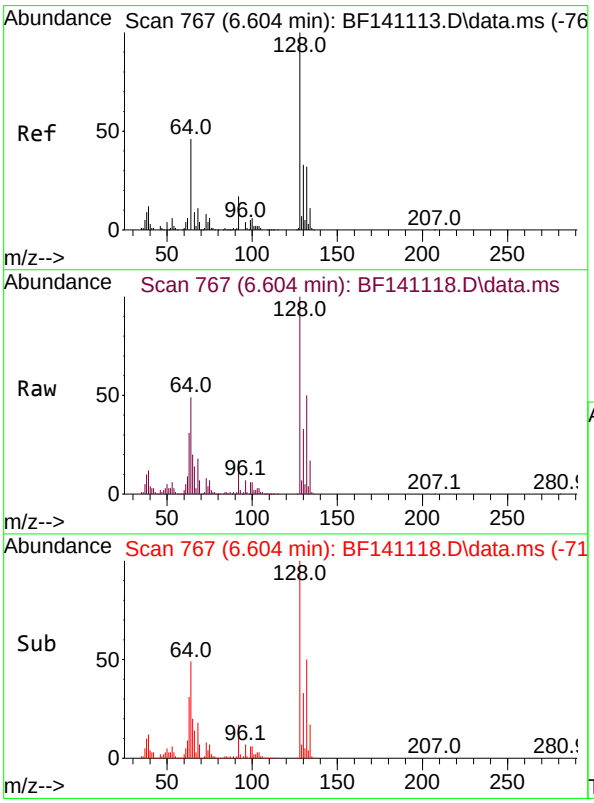
#7
Phenol-d6
Concen: 113.234 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 1464294

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.0	22.4
71	34.8	27.6	41.4

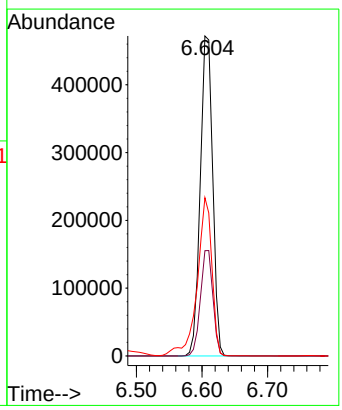


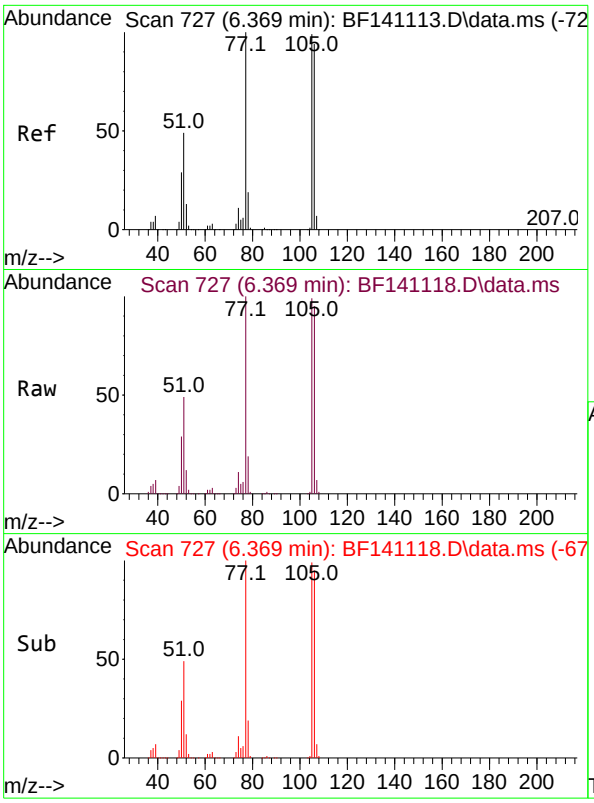


#8
2-Chlorophenol
Concen: 57.043 ng
RT: 6.604 min Scan# 767
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:128 Resp: 624776

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.5	52.5
64	49.5	28.3	68.3



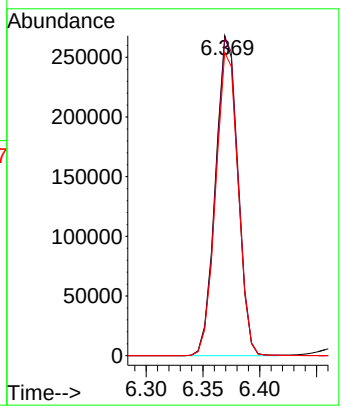


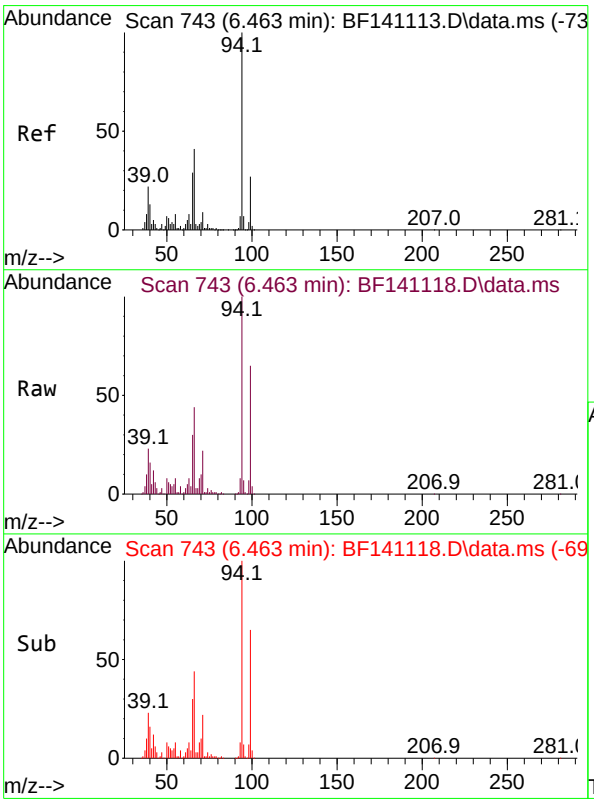
#9
Benzaldehyde
Concen: 50.499 ng
RT: 6.369 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 364797

Ion	Ratio	Lower	Upper
77	100		
105	99.2	78.9	118.9
106	94.8	73.6	113.6

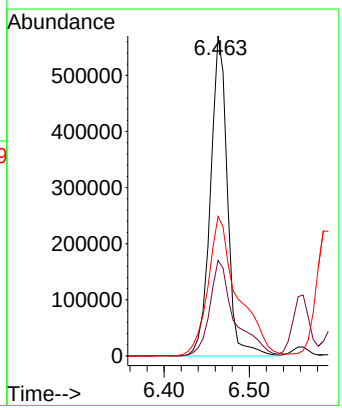


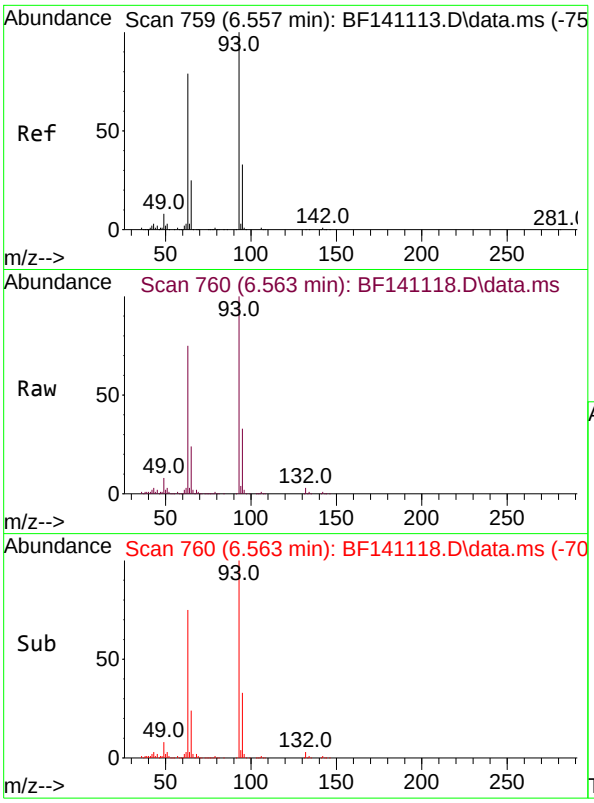


#10
Phenol
Concen: 56.996 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 94 Resp: 788986

Ion	Ratio	Lower	Upper
94	100		
65	29.9	8.9	48.9
66	43.6	21.2	61.2



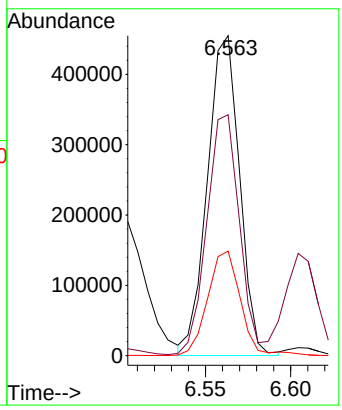


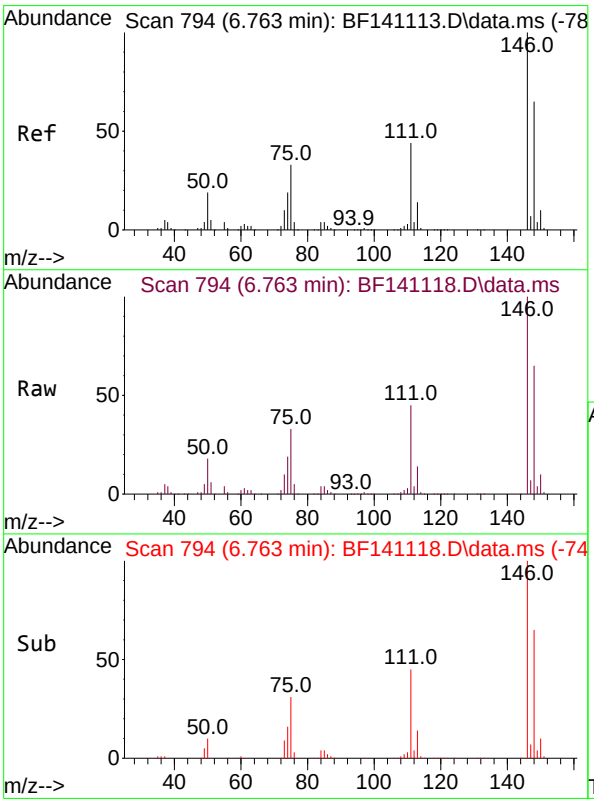
#11
bis(2-Chloroethyl)ether
Concen: 57.990 ng
RT: 6.563 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 598240

Ion	Ratio	Lower	Upper
93	100		
63	75.3	58.0	98.0
95	32.7	12.5	52.5

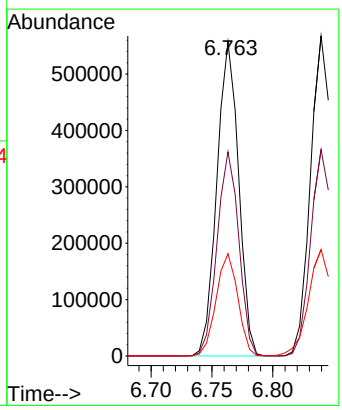


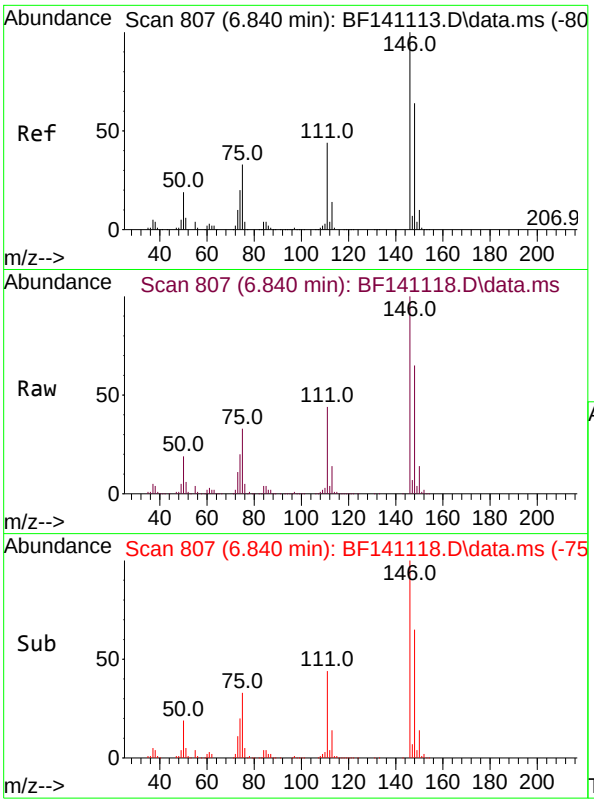


#12
1,3-Dichlorobenzene
Concen: 56.791 ng
RT: 6.763 min Scan# 794
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:146 Resp: 693741

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.6	77.4
75	32.6	26.2	39.2



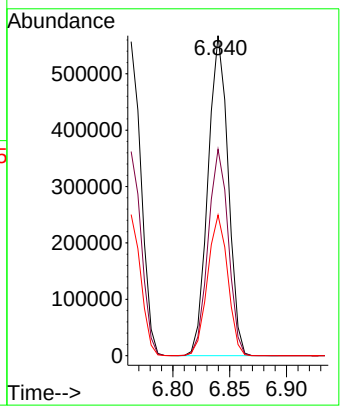


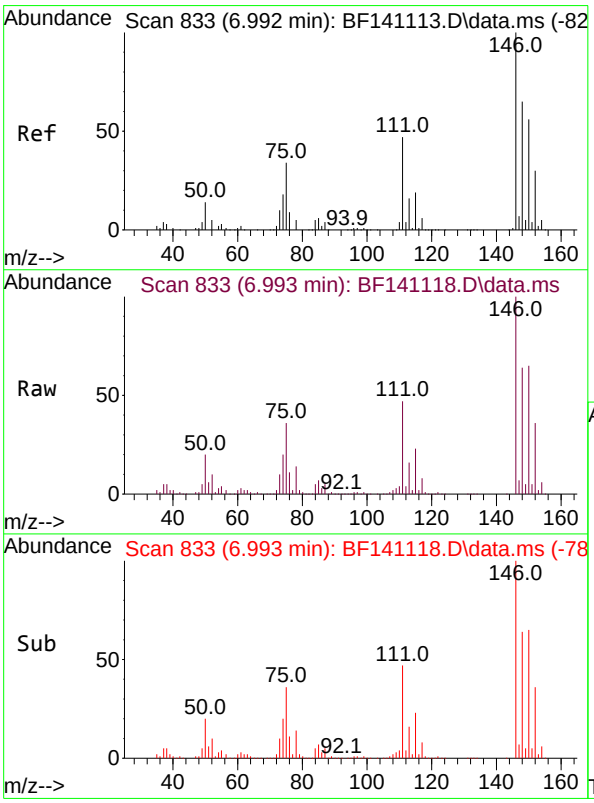
#13
1,4-Dichlorobenzene
Concen: 56.894 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 700356

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.0	76.6
111	43.9	34.9	52.3

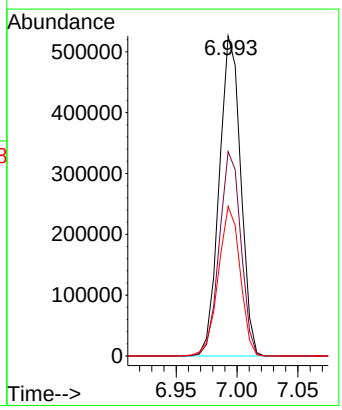


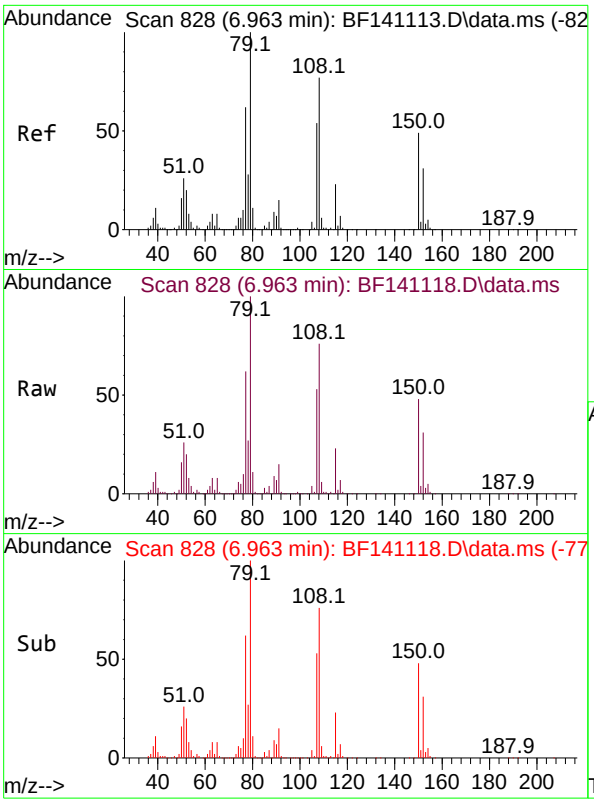


#14
1,2-Dichlorobenzene
Concen: 56.150 ng
RT: 6.993 min Scan# 833
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:146 Resp: 644752

Ion	Ratio	Lower	Upper
146	100		
148	63.9	52.2	78.4
111	46.8	37.5	56.3



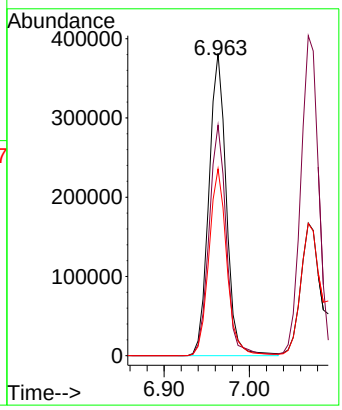


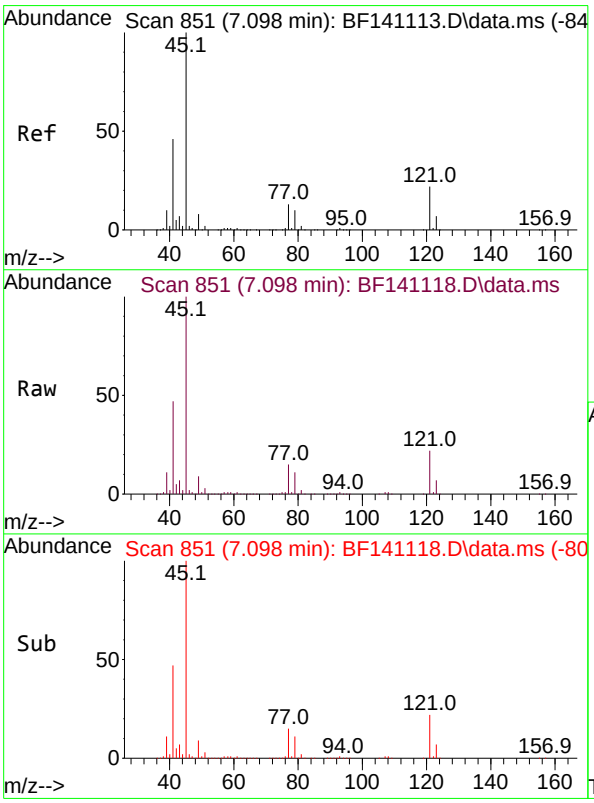
#15
Benzyl Alcohol
Concen: 57.975 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 541420

Ion	Ratio	Lower	Upper
79	100		
108	76.3	61.4	92.0
77	61.8	49.8	74.6

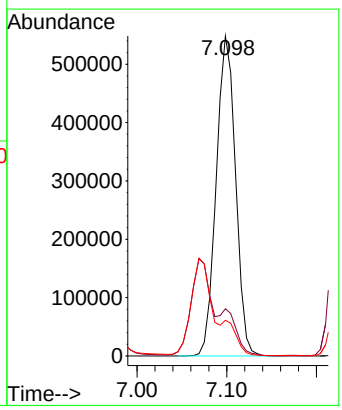


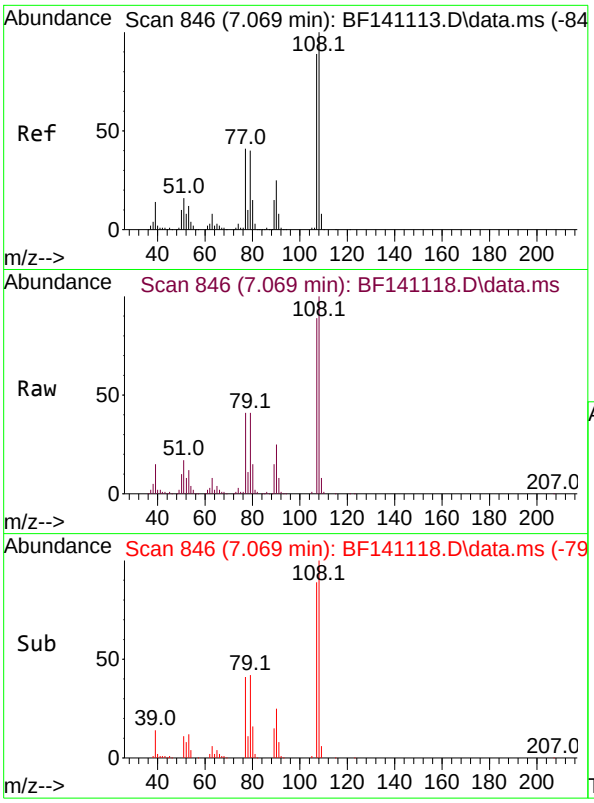


#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.872 ng
RT: 7.098 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 45 Resp: 818728

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	34.1
79	11.2	0.0	31.0



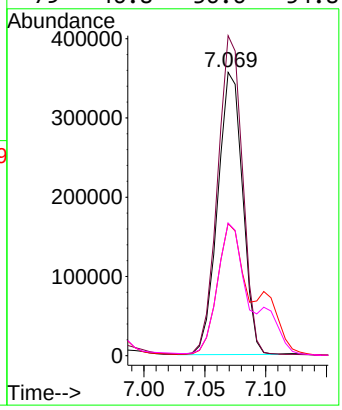


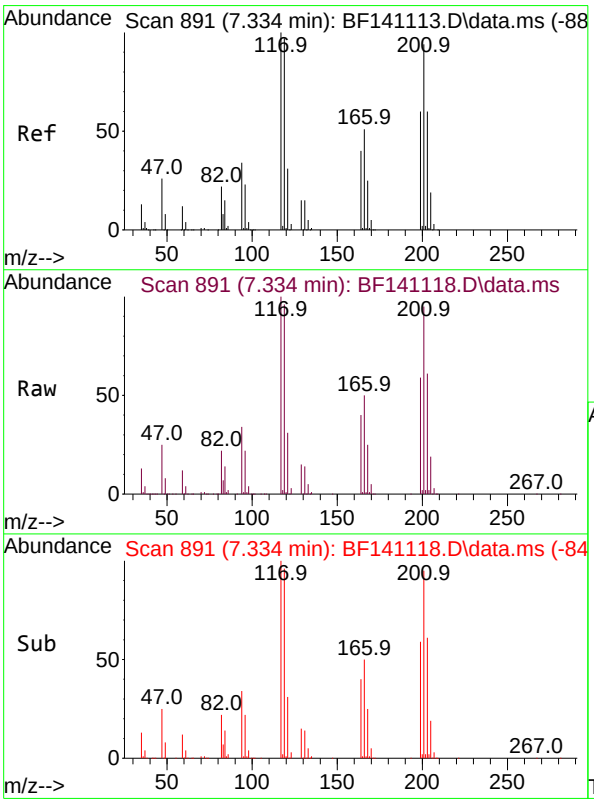
#17
2-Methylphenol
Concen: 57.648 ng
RT: 7.069 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 509763

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.1	135.1
77	46.6	36.6	55.0
79	46.8	36.6	54.8

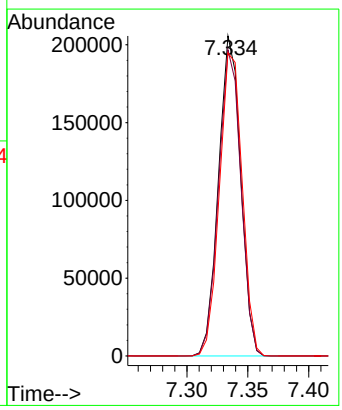


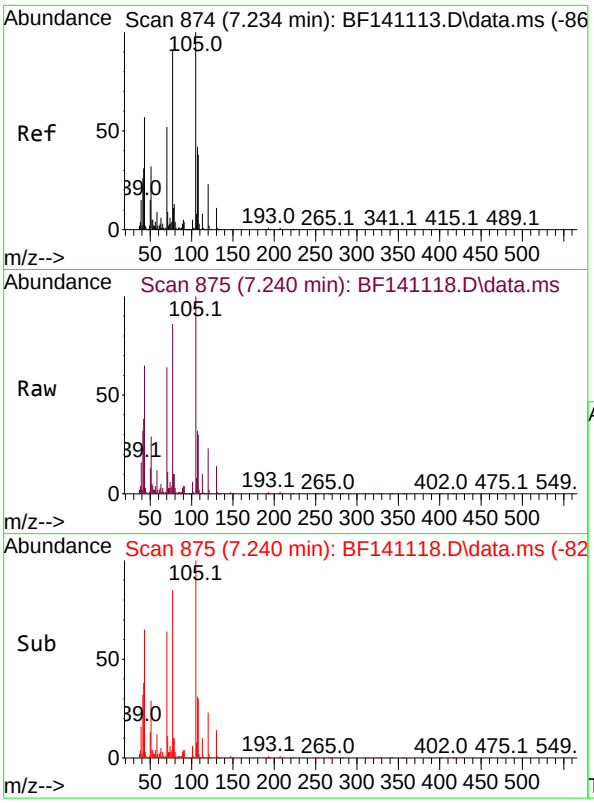


#18
Hexachloroethane
Concen: 58.460 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:117 Resp: 260241

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.6	116.4
201	94.7	75.1	112.7



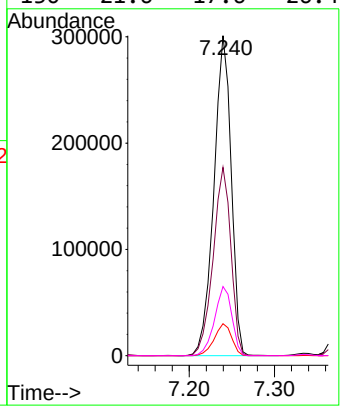


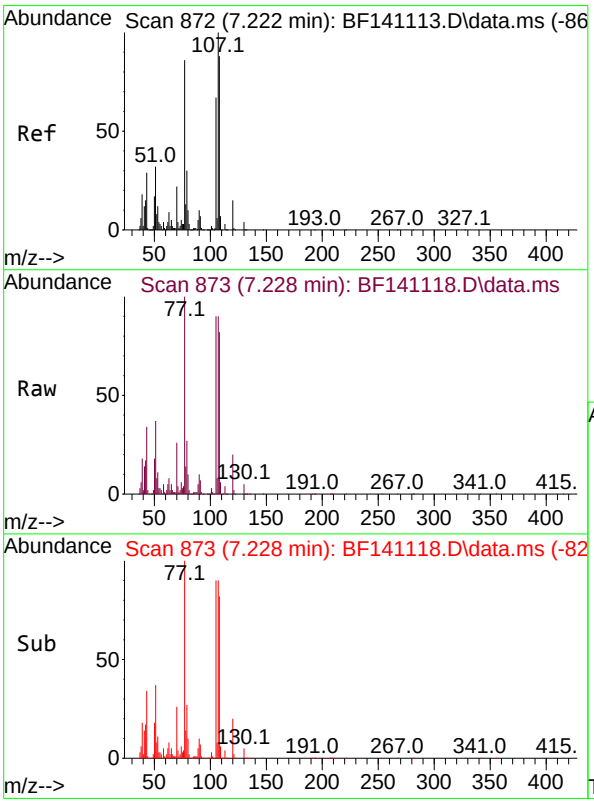
#19
n-Nitroso-di-n-propylamine
Concen: 56.050 ng
RT: 7.240 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 426961

Ion	Ratio	Lower	Upper
70	100		
42	58.9	47.8	71.6
101	10.0	7.9	11.9
130	21.6	17.6	26.4

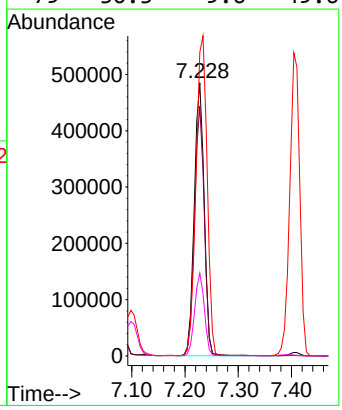


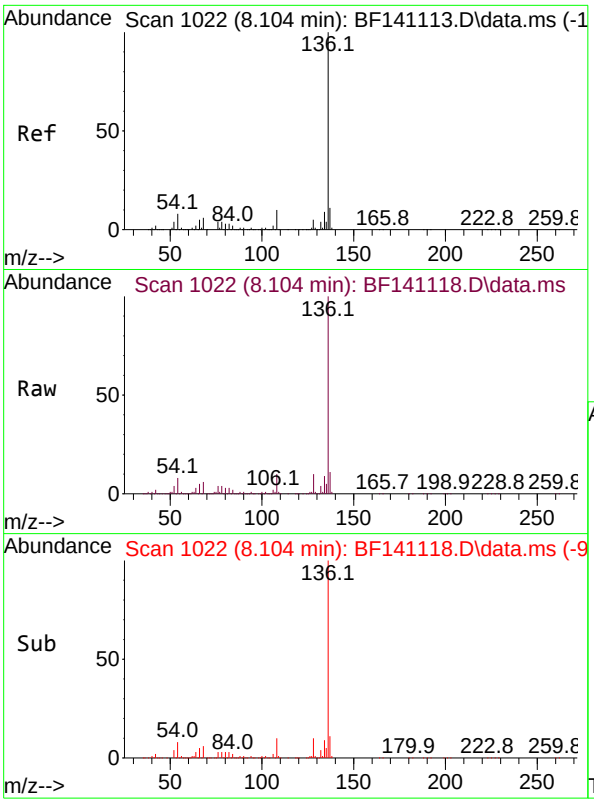


#20
3+4-Methylphenols
Concen: 55.954 ng
RT: 7.228 min Scan# 873
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:107 Resp: 624218

Ion	Ratio	Lower	Upper
107	100		
108	91.4	68.3	108.3
77	111.1	66.4	106.4#
79	30.3	9.6	49.6



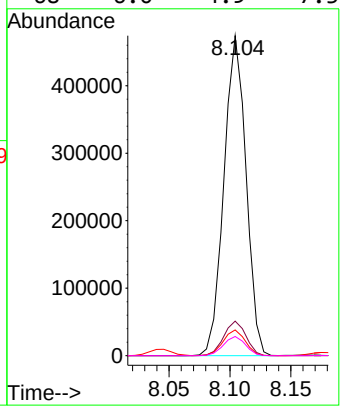


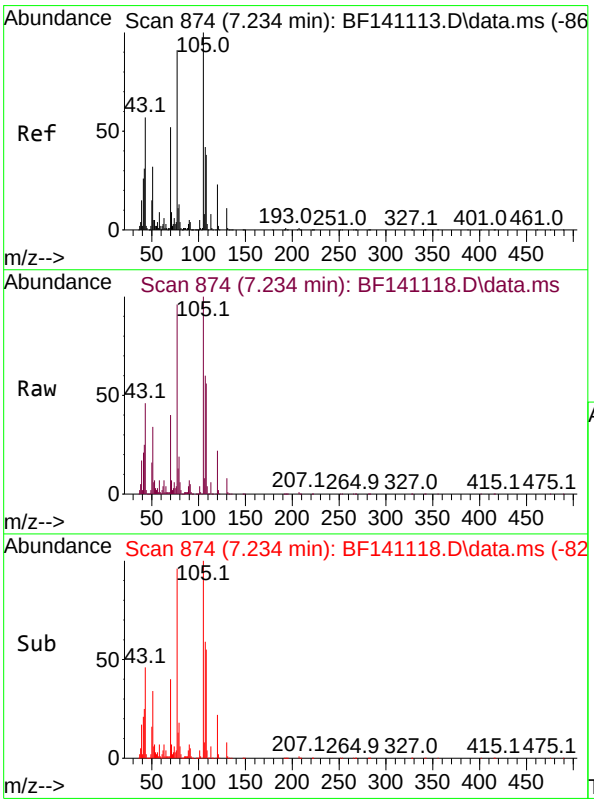
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 600362

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	8.0	6.3	9.5
68	6.0	4.9	7.3

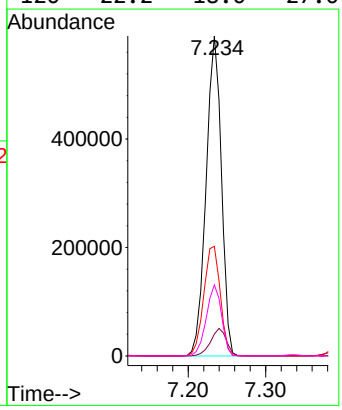


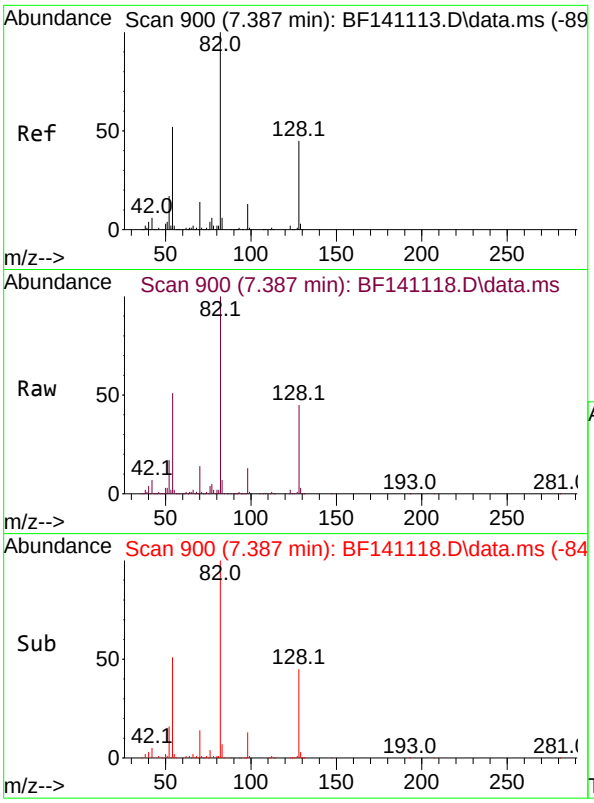


#22
Acetophenone
Concen: 56.696 ng
RT: 7.234 min Scan# 874
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:105 Resp: 809173

Ion	Ratio	Lower	Upper
105	100		
71	6.8	7.1	10.7#
51	34.2	25.4	38.2
120	22.2	18.0	27.0



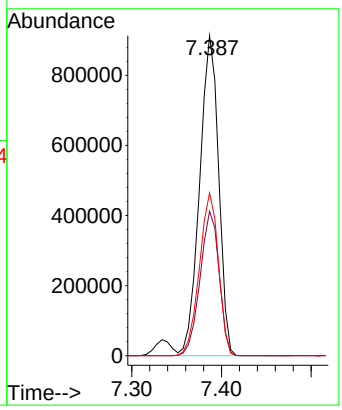


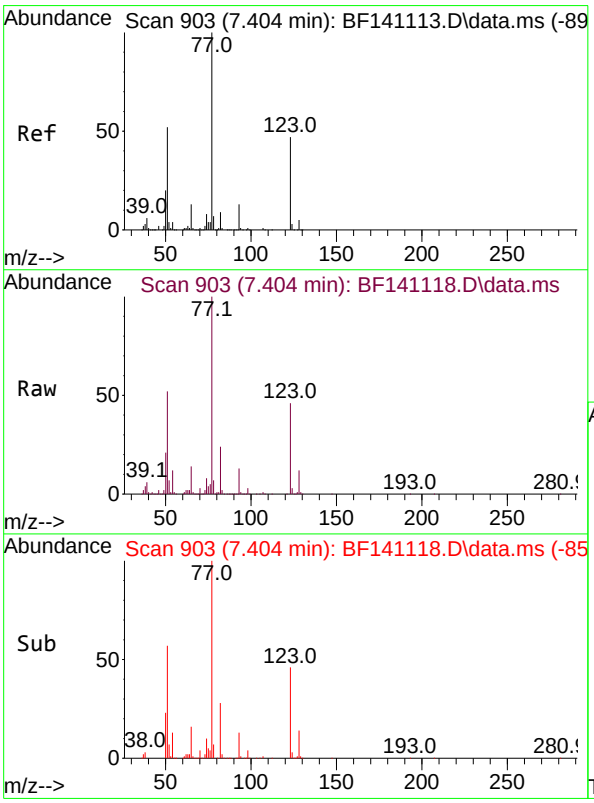
#23
Nitrobenzene-d5
Concen: 118.372 ng
RT: 7.387 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1340654

Ion	Ratio	Lower	Upper
82	100		
128	45.1	36.1	54.1
54	50.9	41.0	61.4

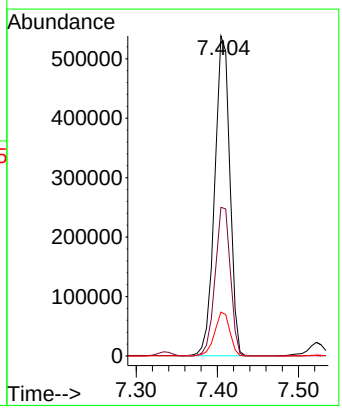


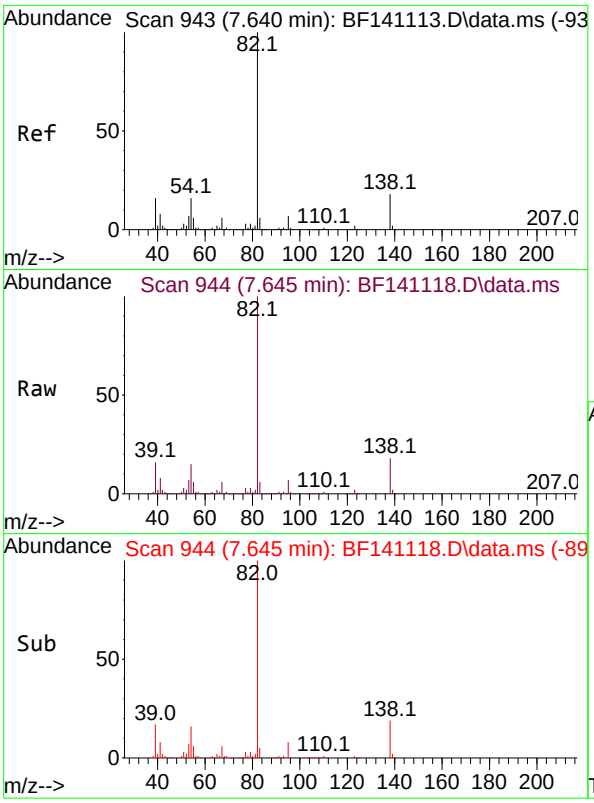


#24
Nitrobenzene
Concen: 59.239 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 77 Resp: 699248

Ion	Ratio	Lower	Upper
77	100		
123	46.5	37.7	56.5
65	13.7	10.6	16.0



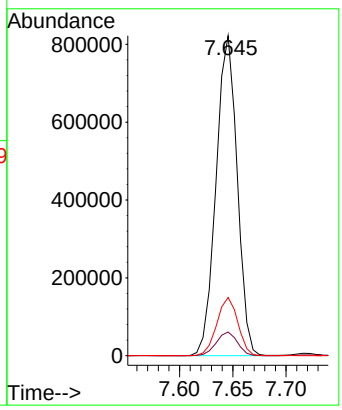


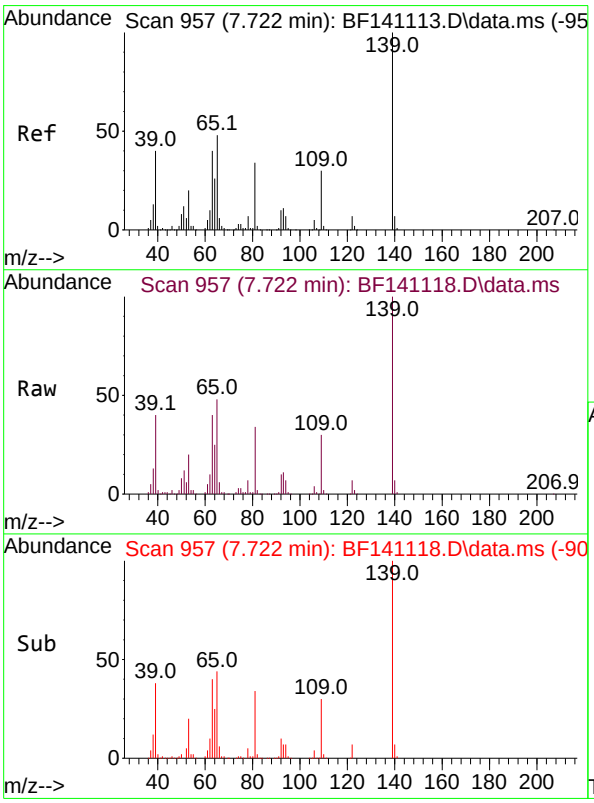
#25
Isophorone
Concen: 58.450 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1131315

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	18.2	14.2	21.2

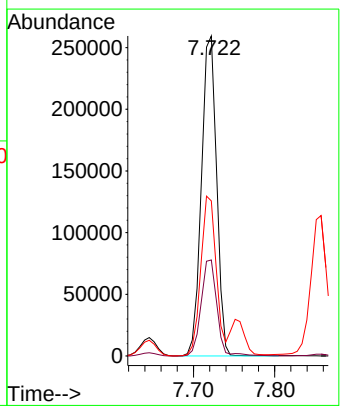


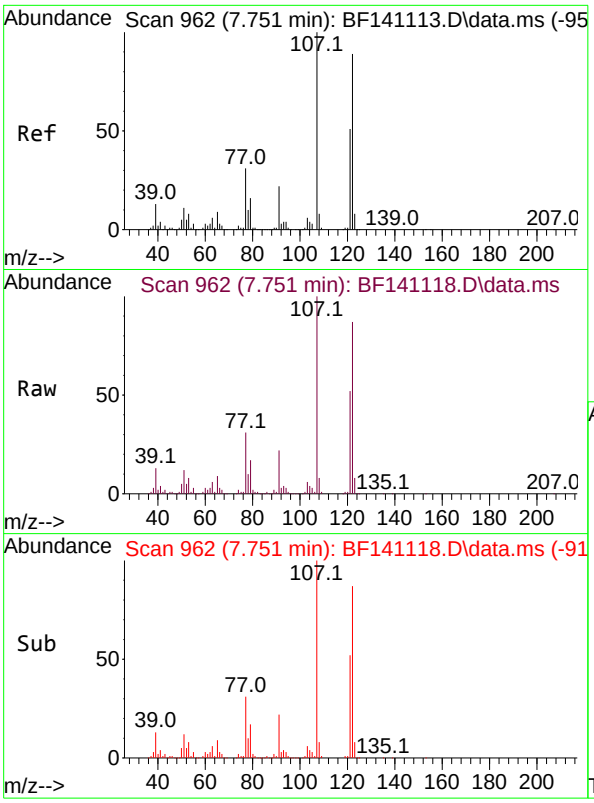


#26
2-Nitrophenol
Concen: 62.679 ng
RT: 7.722 min Scan# 957
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:139 Resp: 336551

Ion	Ratio	Lower	Upper
139	100		
109	30.0	23.8	35.6
65	48.5	38.5	57.7



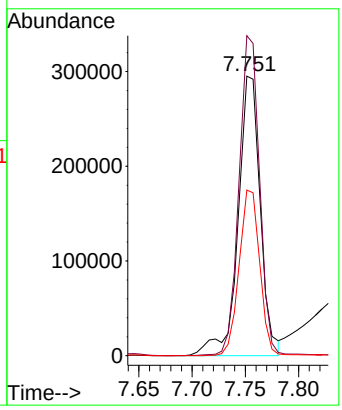


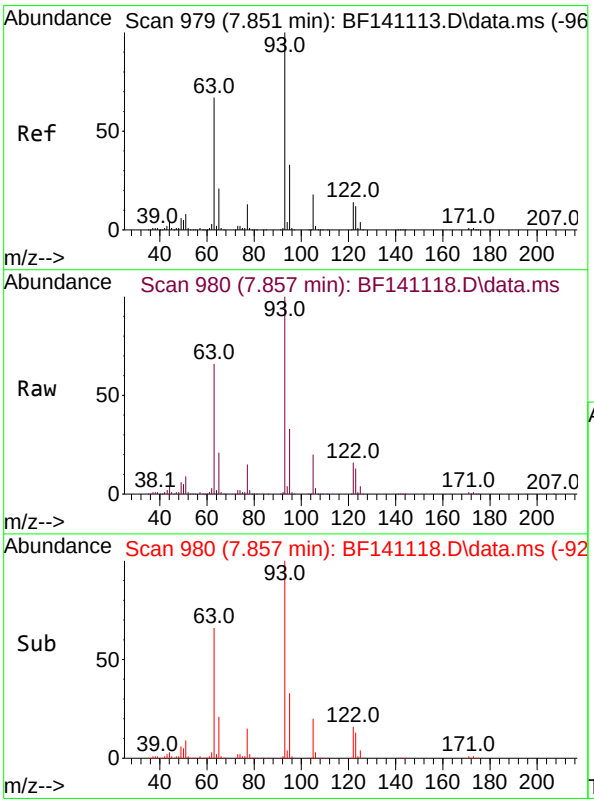
#27
2,4-Dimethylphenol
Concen: 59.269 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 429261

Ion	Ratio	Lower	Upper
122	100		
107	114.5	90.3	135.5
121	59.3	46.5	69.7

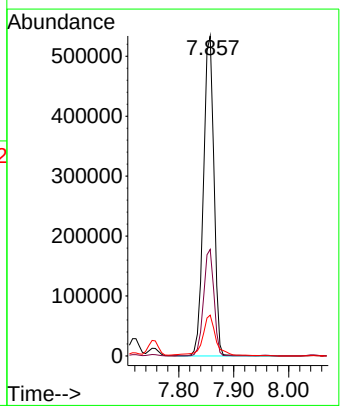


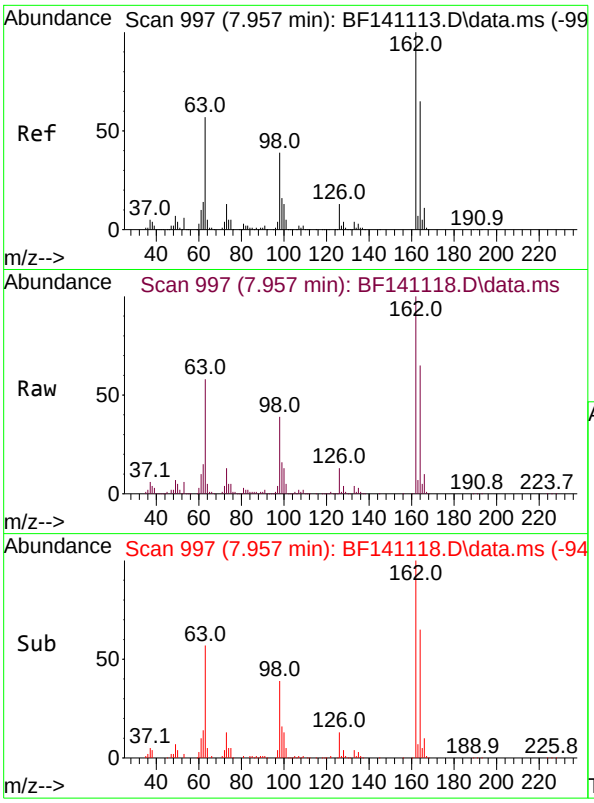


#28
bis(2-Chloroethoxy)methane
Concen: 58.290 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 93 Resp: 708043

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.2	39.4
123	12.8	10.1	15.1



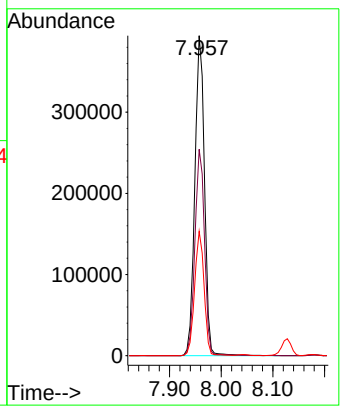


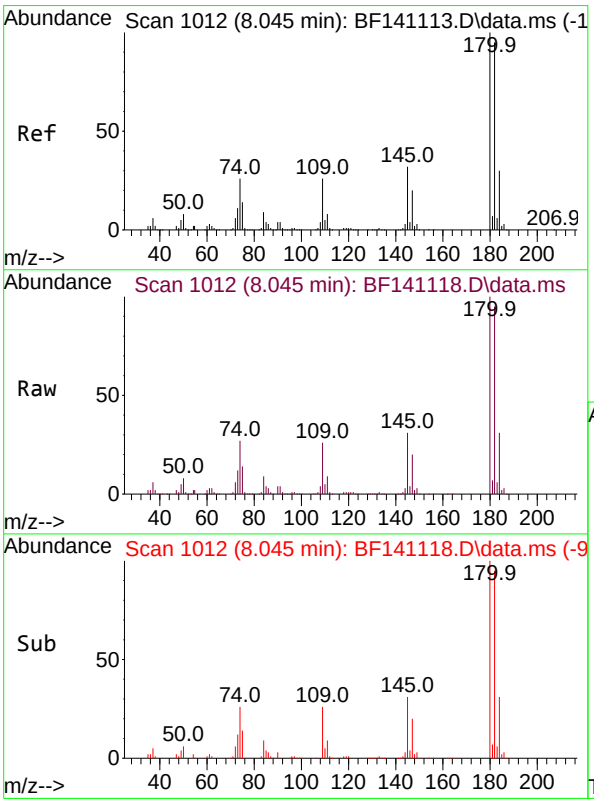
#29
2,4-Dichlorophenol
Concen: 59.394 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 510890

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.5	84.5
98	38.8	18.5	58.5

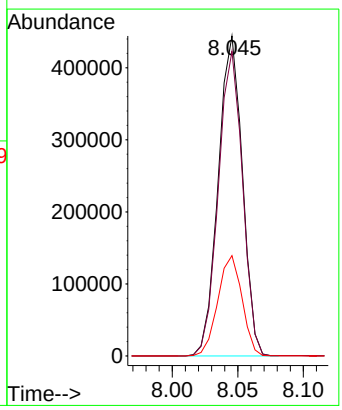


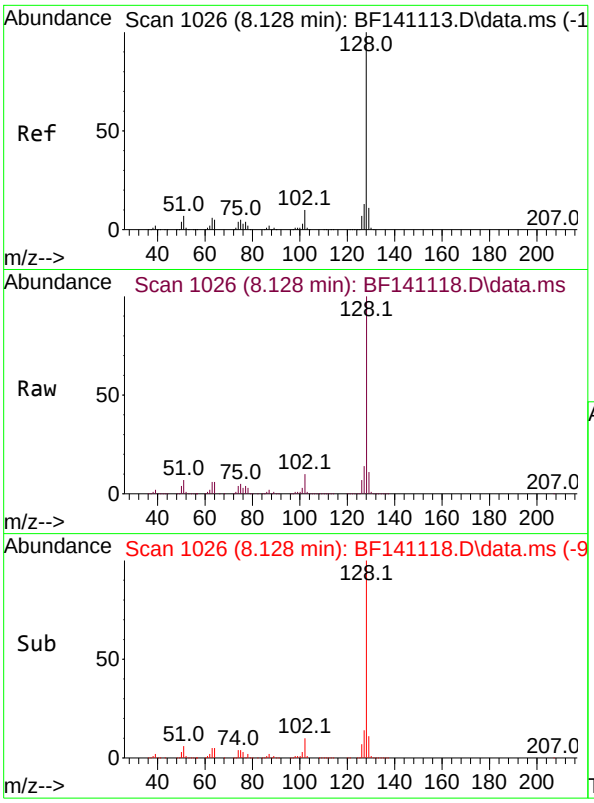


#30
1,2,4-Trichlorobenzene
Concen: 57.848 ng
RT: 8.045 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:180 Resp: 568765

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.2	114.2
145	31.4	25.3	37.9



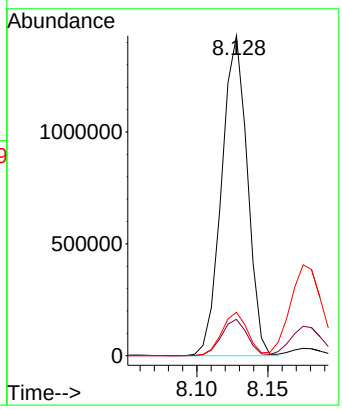


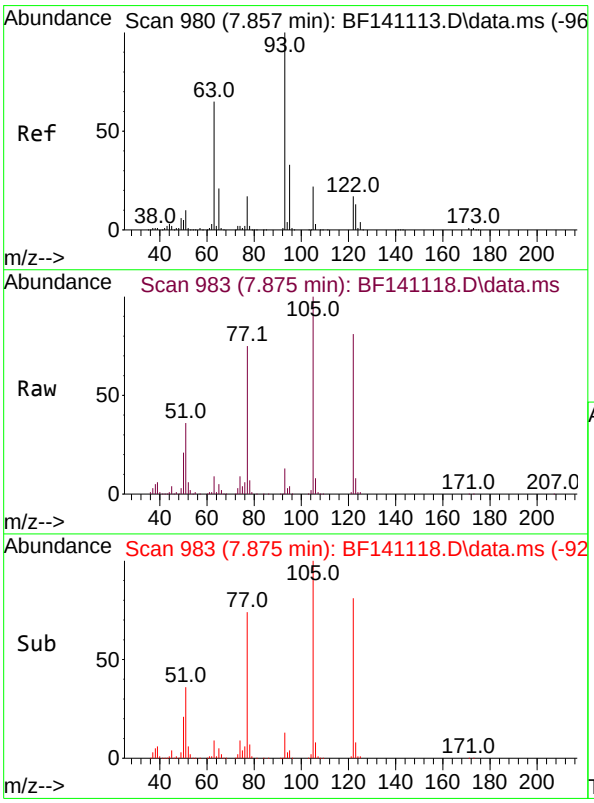
#31
Naphthalene
Concen: 56.724 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1795916

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.6	10.8	16.2

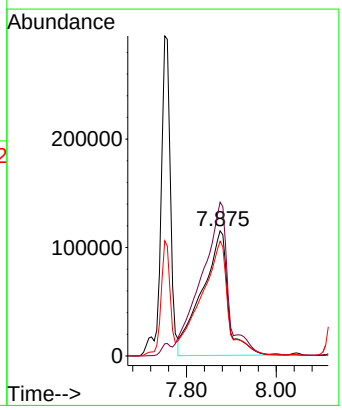


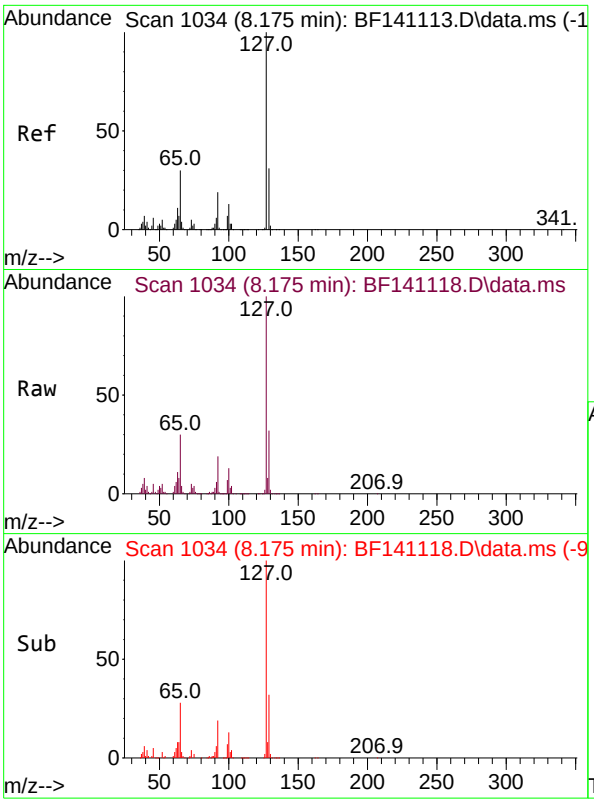


#32
Benzoic acid
Concen: 66.980 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.018 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:122 Resp: 465348

Ion	Ratio	Lower	Upper
122	100		
105	122.9	105.5	145.5
77	91.7	75.1	115.1



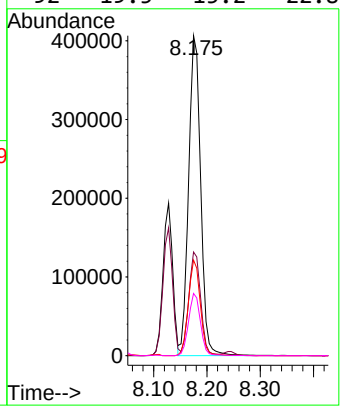


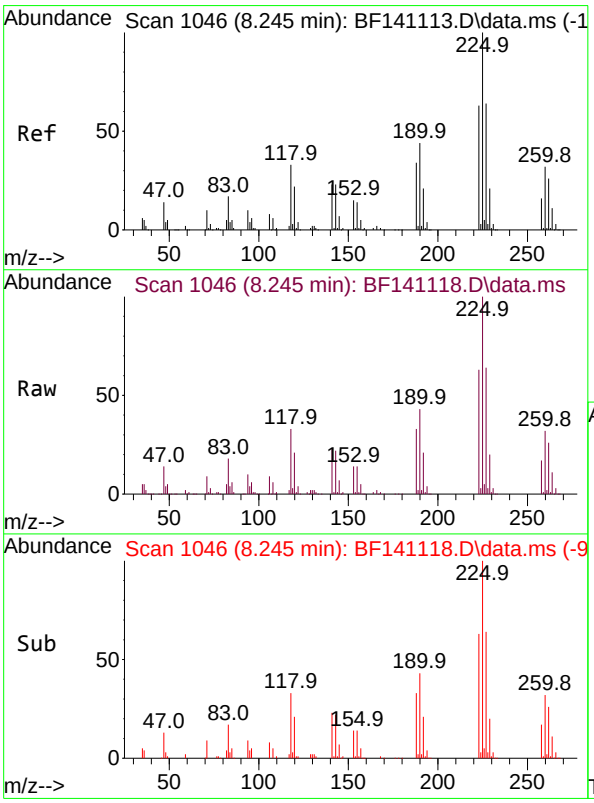
#33
4-Chloroaniline
Concen: 58.424 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 639712

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	29.9	23.8	35.8
92	19.5	15.2	22.8

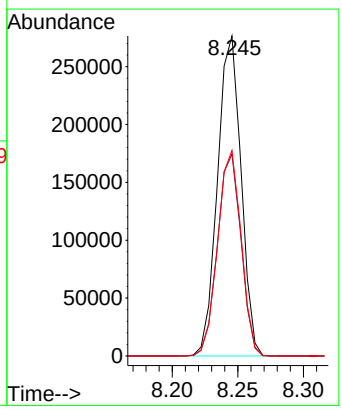


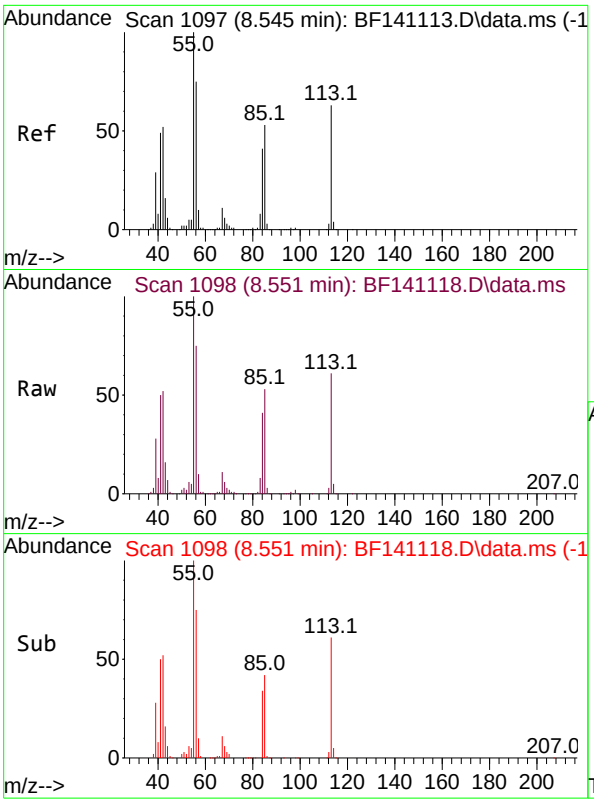


#34
Hexachlorobutadiene
Concen: 58.183 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:225 Resp: 344699

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	64.2	51.6	77.4



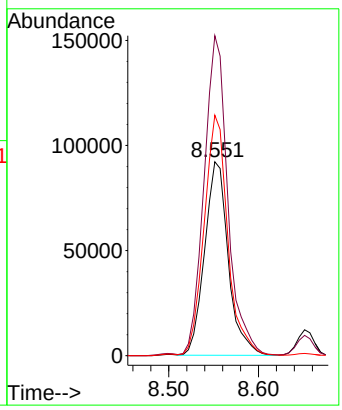


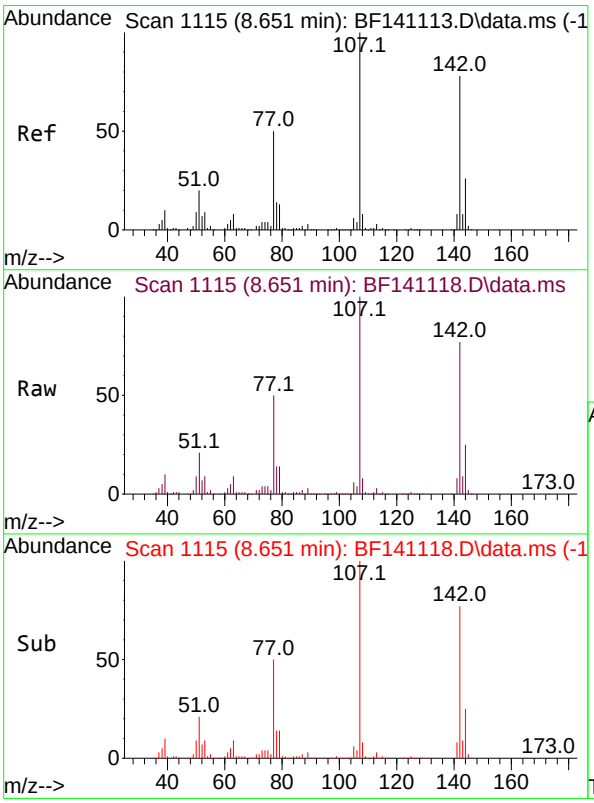
#35
Caprolactam
Concen: 59.824 ng
RT: 8.551 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 168796

Ion	Ratio	Lower	Upper
113	100		
55	165.0	139.7	179.7
56	124.1	99.4	139.4

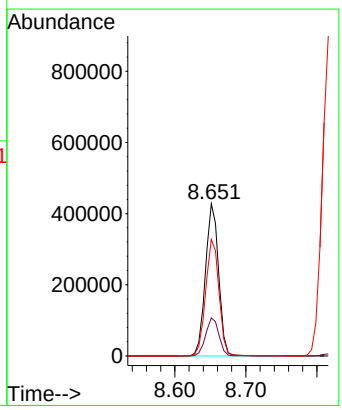


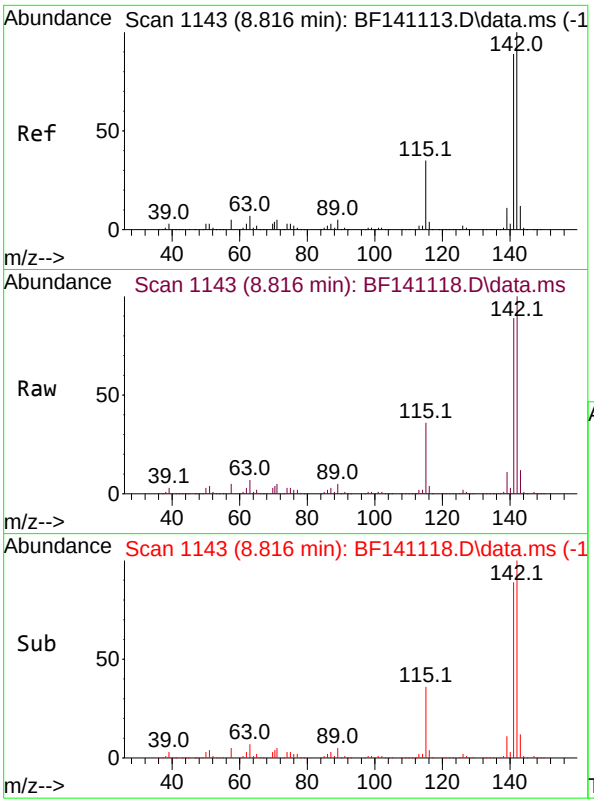


#36
4-Chloro-3-methylphenol
Concen: 58.704 ng
RT: 8.651 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:107 Resp: 552248

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.4	30.6
142	76.6	62.2	93.2



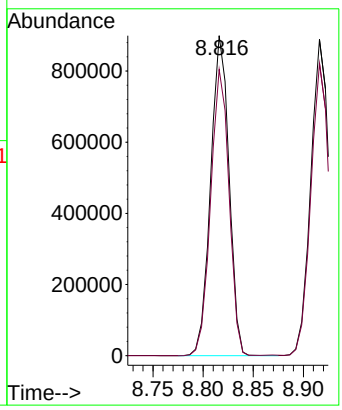


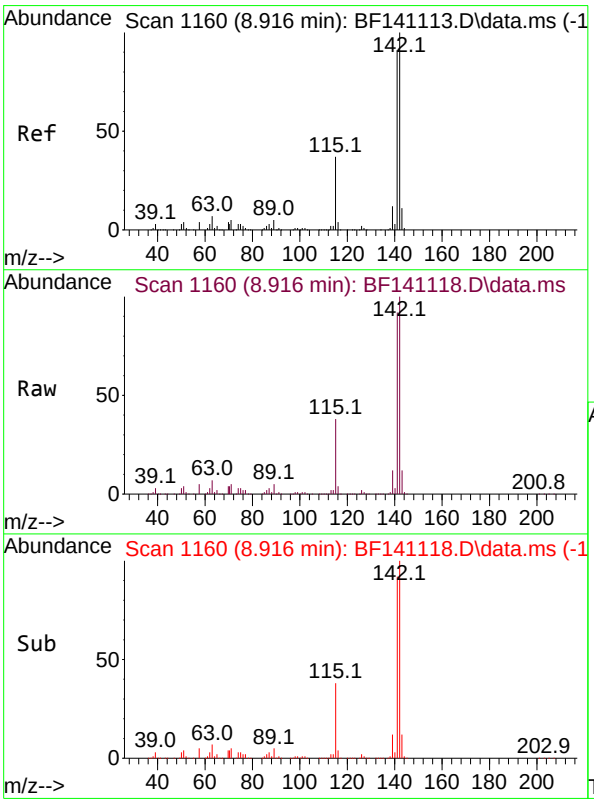
#37
2-Methylnaphthalene
Concen: 56.860 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 1147172

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.3	106.9

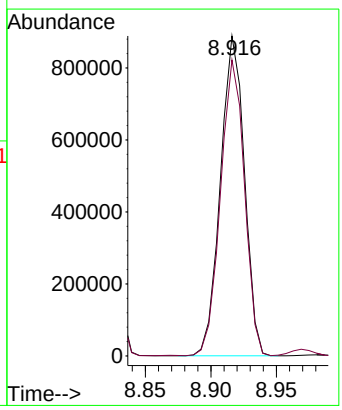


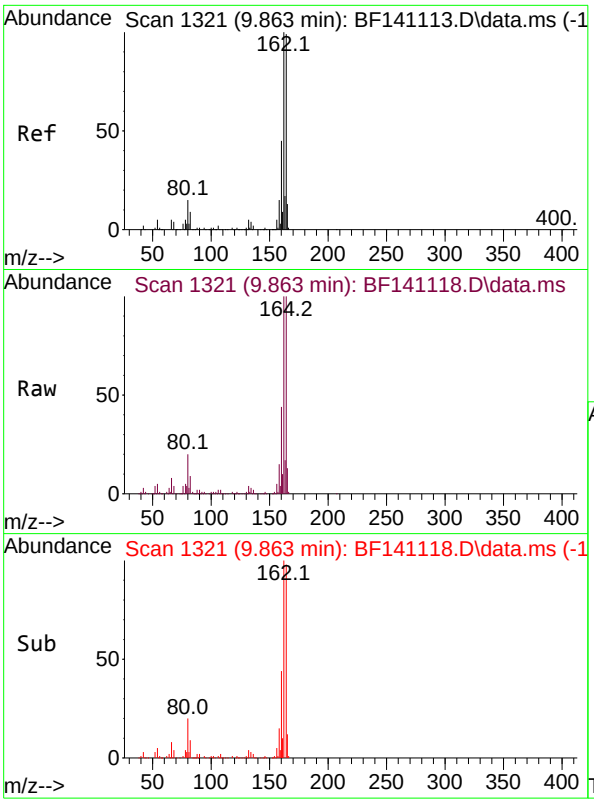


#38
1-Methylnaphthalene
Concen: 56.812 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:142 Resp: 1129604

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7



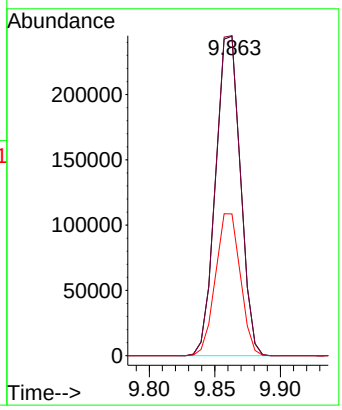


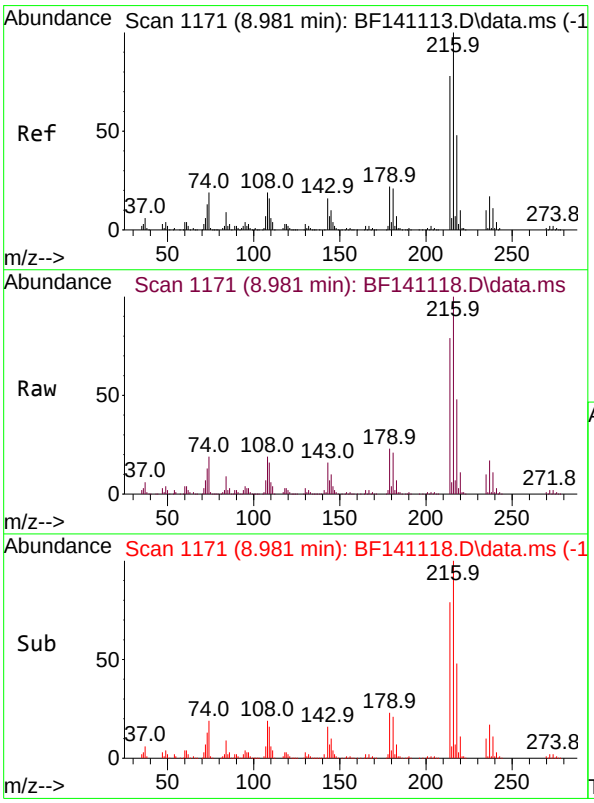
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 321522

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.4
160	44.4	36.1	54.1

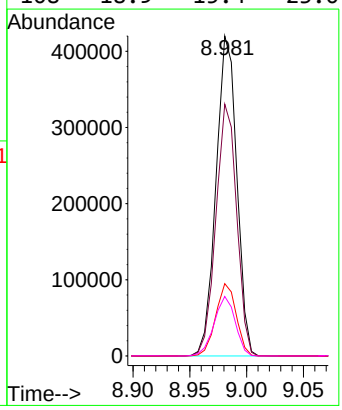


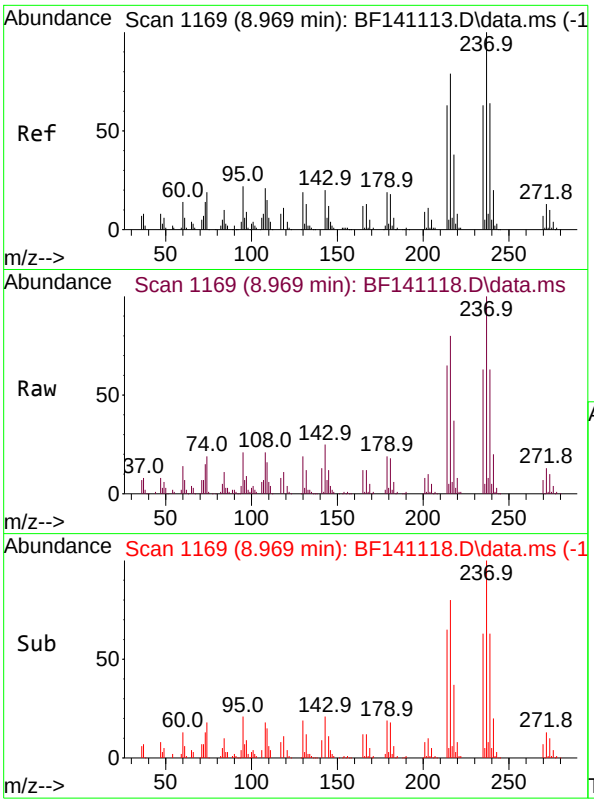


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.909 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:216 Resp: 534399

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.6	94.0
179	22.3	17.7	26.5
108	18.9	15.4	23.0



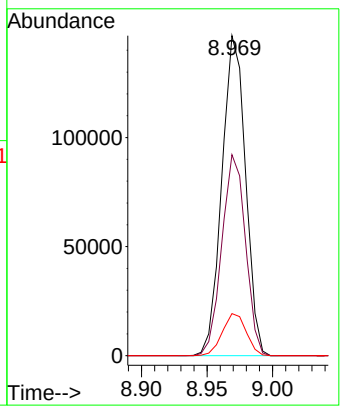


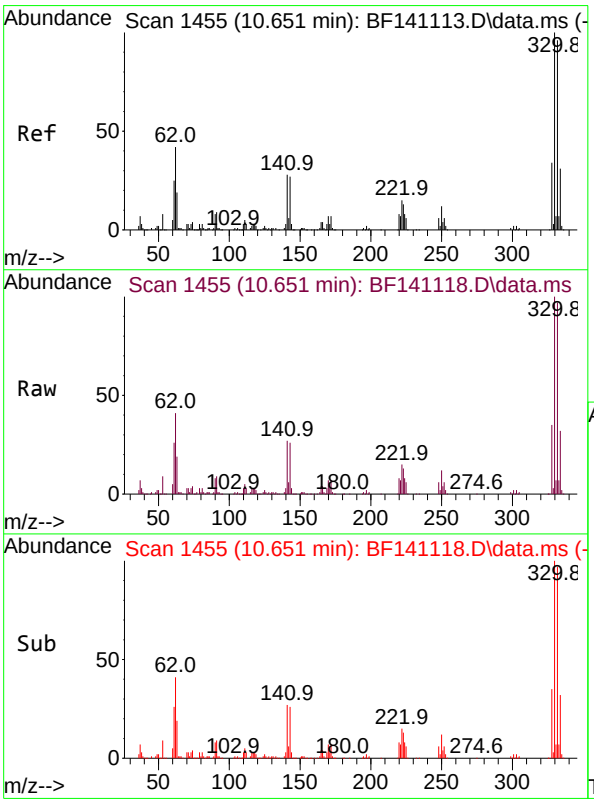
#41
Hexachlorocyclopentadiene
Concen: 61.011 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 184204

Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.0	83.0
272	13.1	0.0	33.0

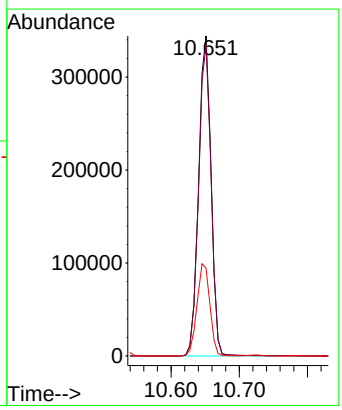


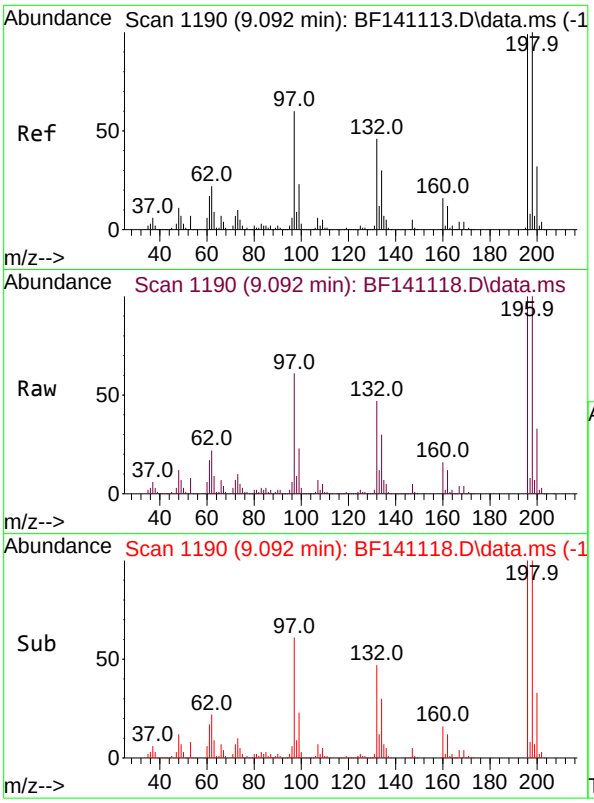


#42
2,4,6-Tribromophenol
Concen: 118.901 ng
RT: 10.651 min Scan# 1455
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:330 Resp: 435599

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.9	115.3
141	29.8	25.2	37.8



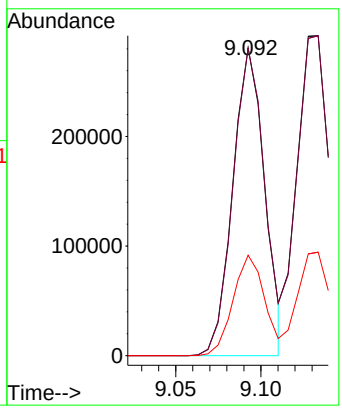


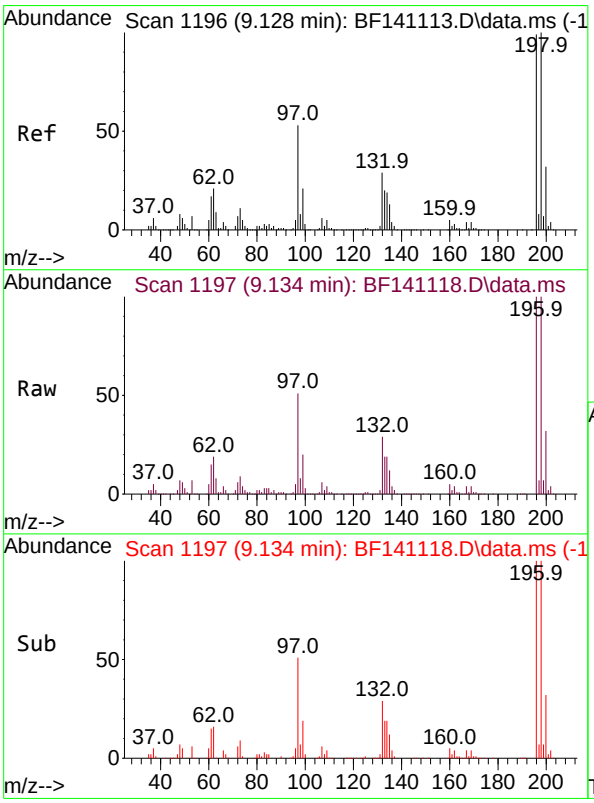
#43
2,4,6-Trichlorophenol
Concen: 58.489 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 364034

Ion	Ratio	Lower	Upper
196	100		
198	100.0	80.8	121.2
200	32.7	25.7	38.5

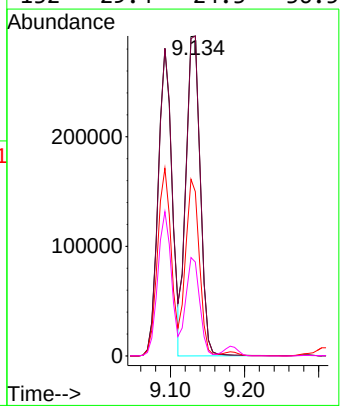


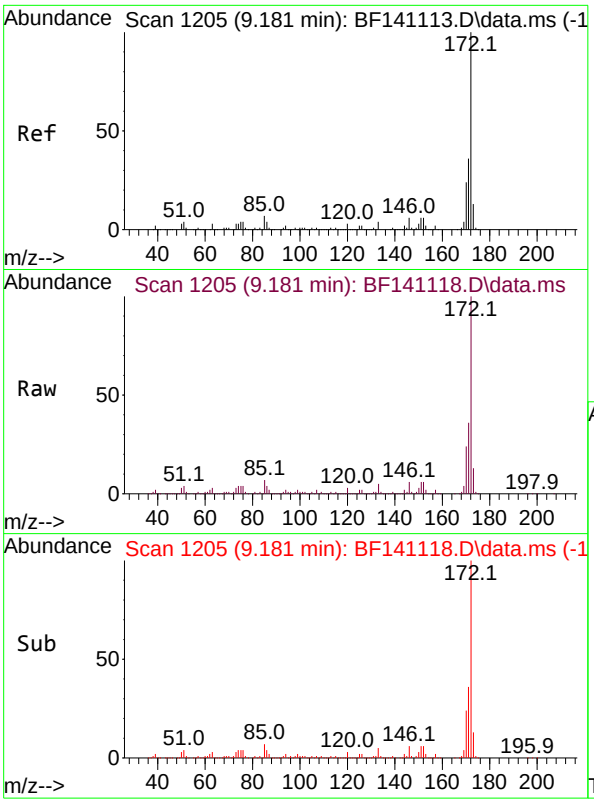


#44
2,4,5-Trichlorophenol
Concen: 59.706 ng
RT: 9.134 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:196 Resp: 392463

Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.6	120.8
97	51.4	43.1	64.7
132	29.4	24.3	36.5



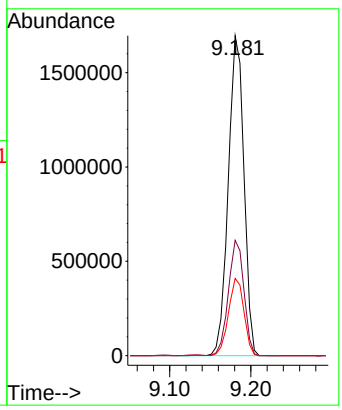


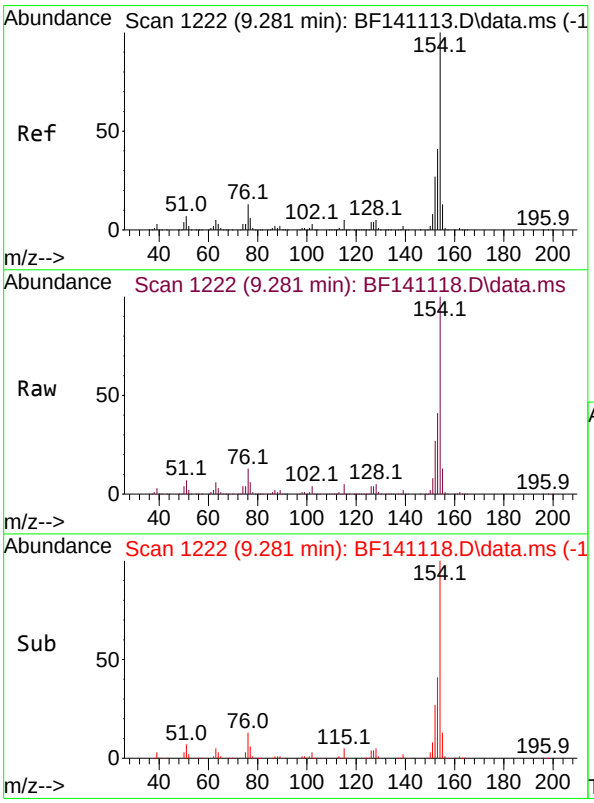
#45
2-Fluorobiphenyl
Concen: 107.735 ng
RT: 9.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 2268382

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.7	43.1
170	24.1	19.0	28.6

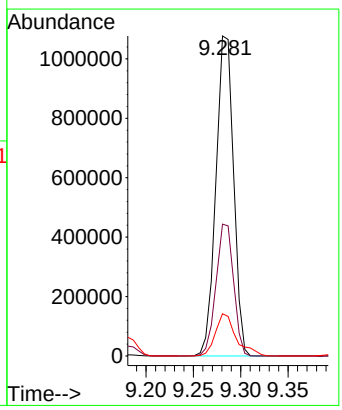


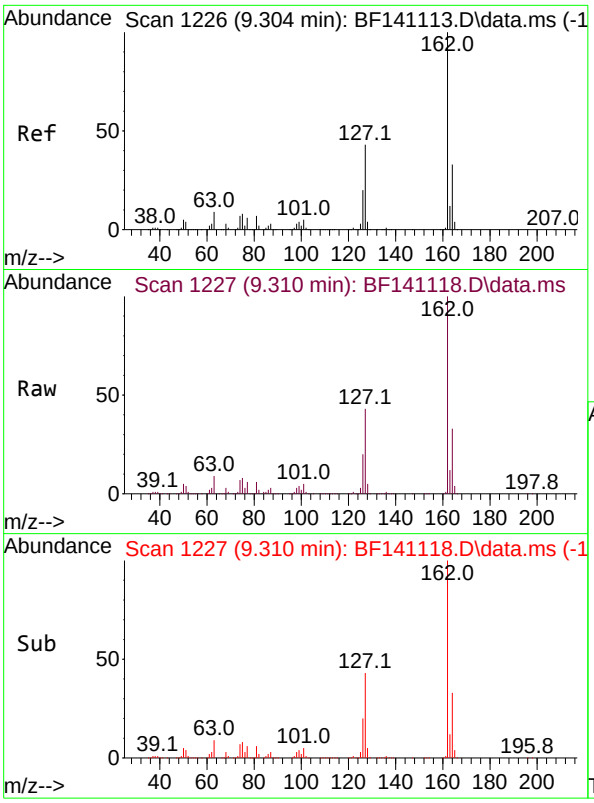


#46
1,1'-Biphenyl
Concen: 56.087 ng
RT: 9.281 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:154 Resp: 1400460

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.7	60.7
76	13.2	0.0	33.1



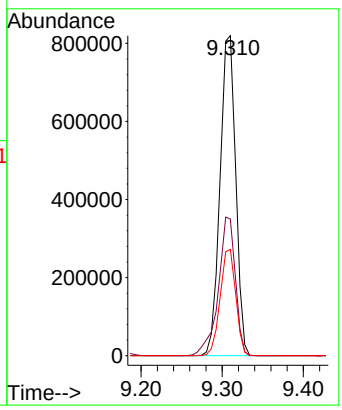


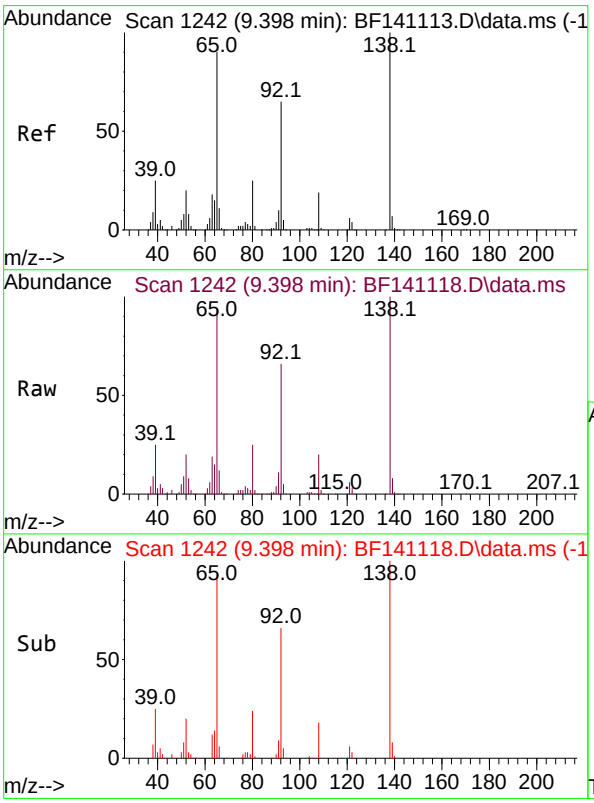
#47
2-Chloronaphthalene
Concen: 56.770 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1104069

Ion	Ratio	Lower	Upper
162	100		
127	42.7	34.6	51.8
164	33.2	26.5	39.7

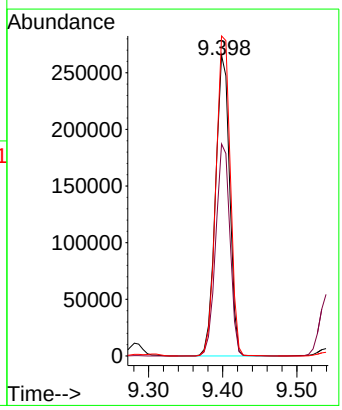


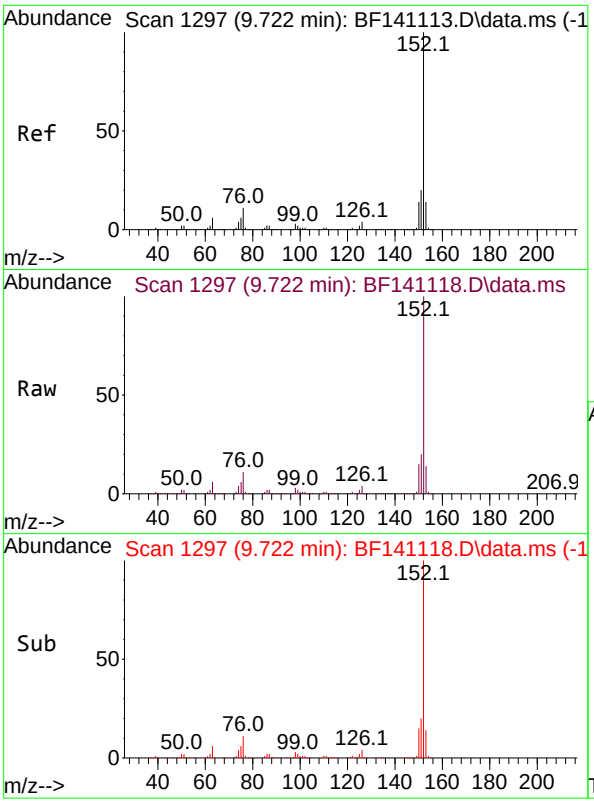


#48
2-Nitroaniline
Concen: 61.027 ng
RT: 9.398 min Scan# 1242
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion: 65 Resp: 351824

Ion	Ratio	Lower	Upper
65	100		
92	70.5	58.3	87.5
138	106.5	89.1	133.7



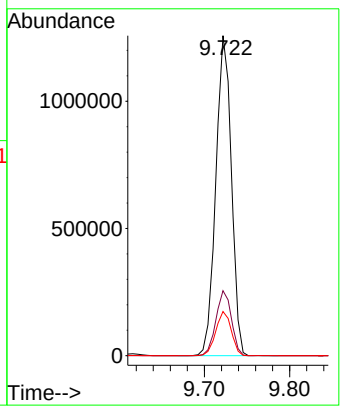


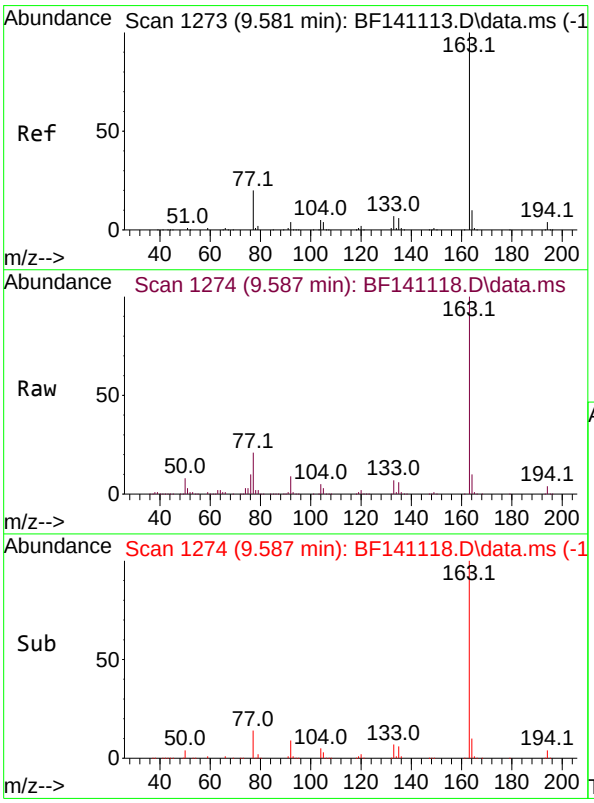
#49
Acenaphthylene
Concen: 57.426 ng
RT: 9.722 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 1595599

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.1	24.1
153	13.8	11.1	16.7

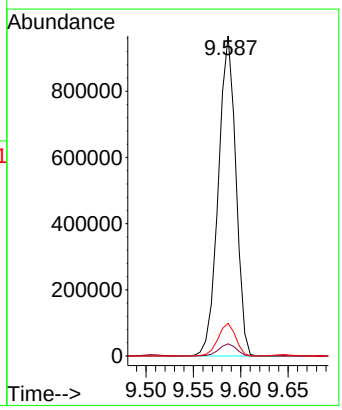


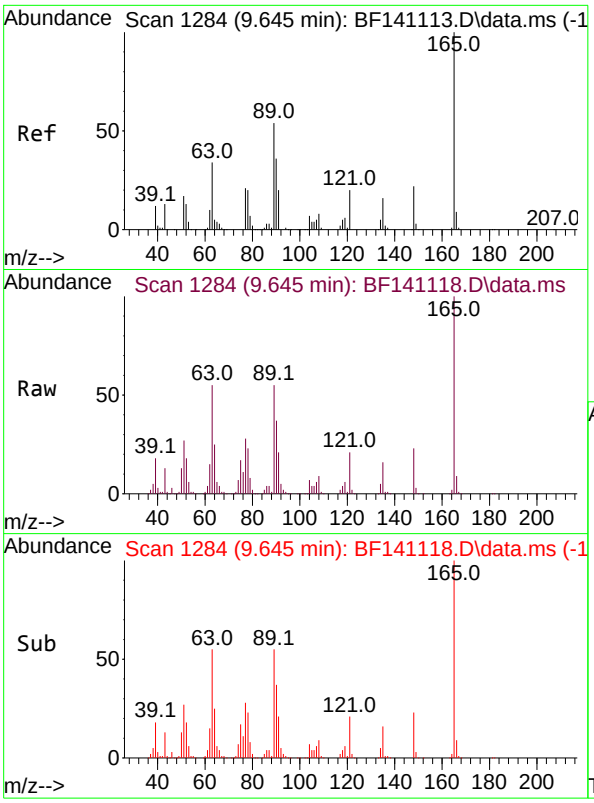


#50
Dimethylphthalate
Concen: 57.746 ng
RT: 9.587 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:163 Resp: 1246443

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.2	8.2	12.4



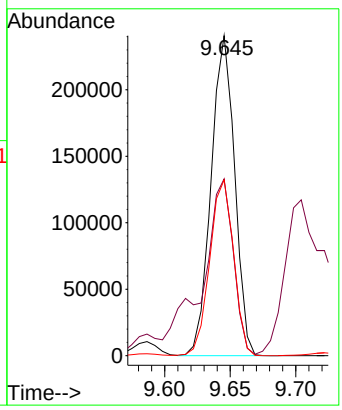


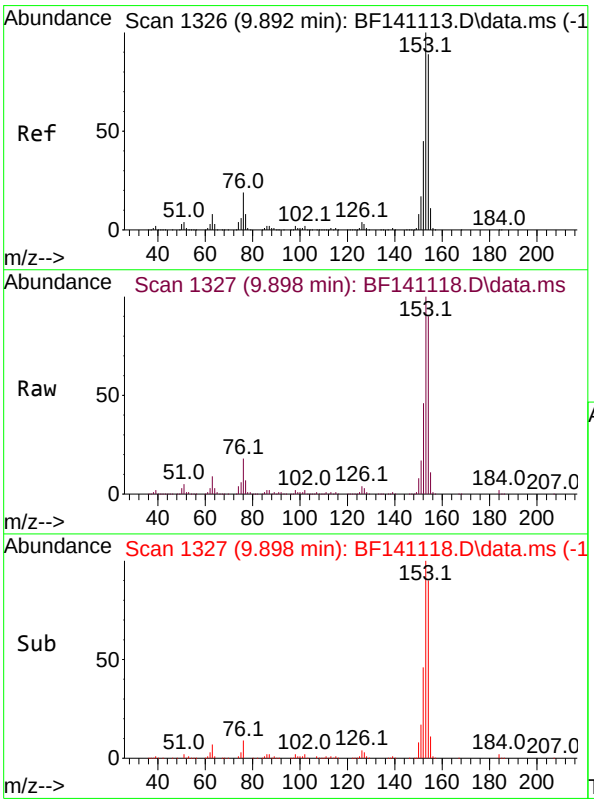
#51
2,6-Dinitrotoluene
Concen: 59.872 ng
RT: 9.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 300526

Ion	Ratio	Lower	Upper
165	100		
63	55.3	42.3	63.5
89	55.0	43.1	64.7

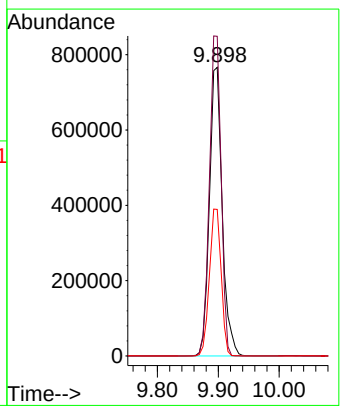


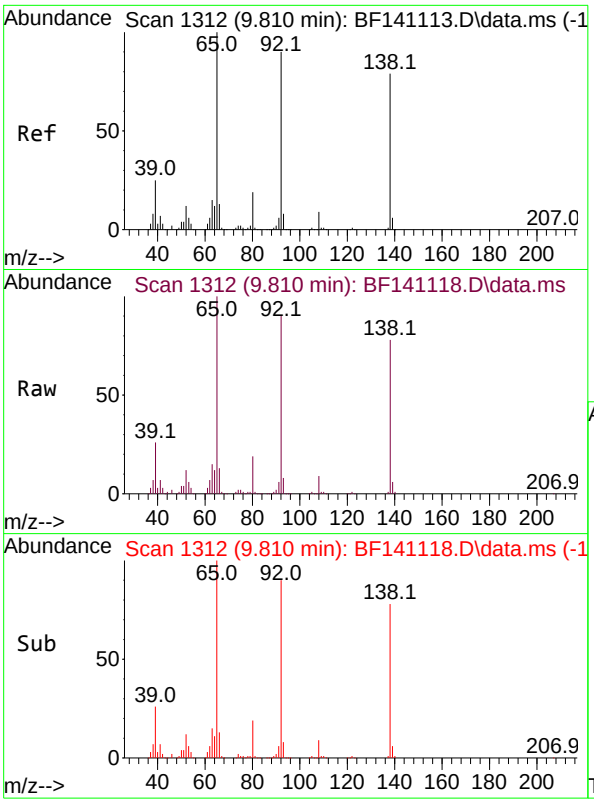


#52
Acenaphthene
Concen: 57.638 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:154 Resp: 1118880

Ion	Ratio	Lower	Upper
154	100		
153	110.7	89.8	134.6
152	50.7	40.8	61.2



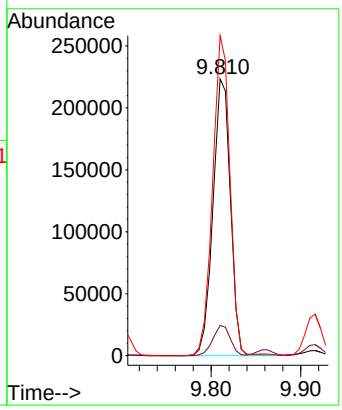


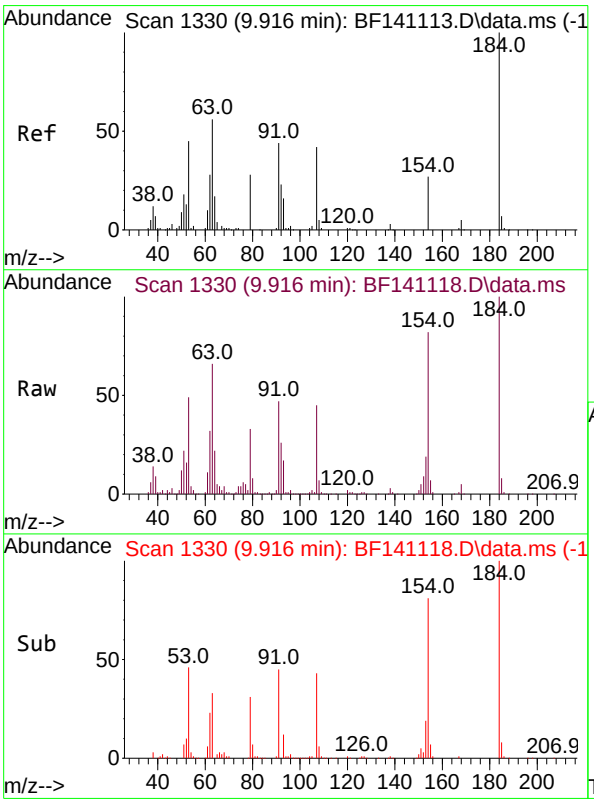
#53
3-Nitroaniline
Concen: 59.064 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 301277

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.8	13.2
92	115.6	91.3	136.9

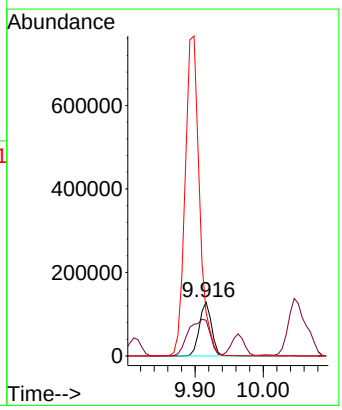


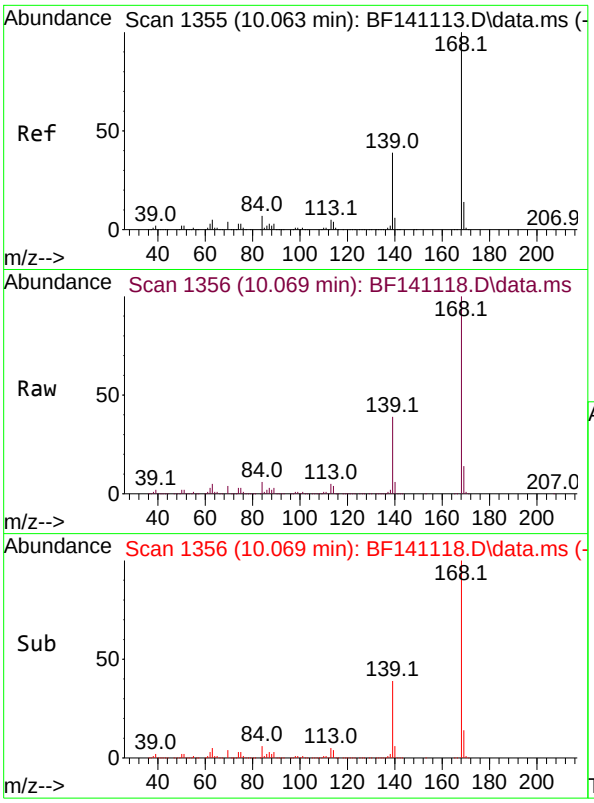


#54
2,4-Dinitrophenol
Concen: 67.324 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:184 Resp: 160627

Ion	Ratio	Lower	Upper
184	100		
63	66.2	48.7	73.1
154	81.6	57.1	85.7



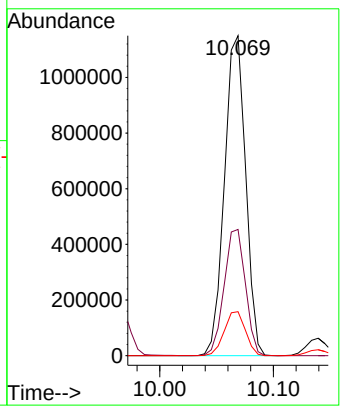


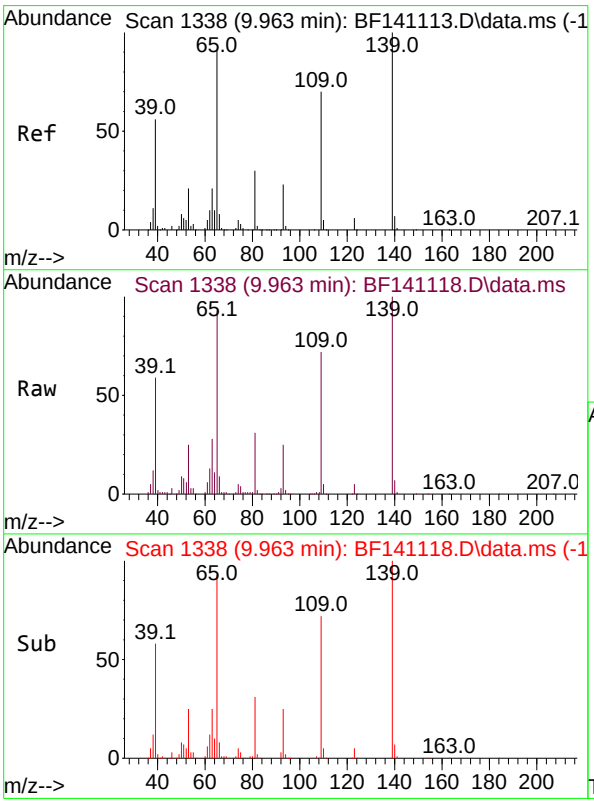
#55
Dibenzofuran
Concen: 56.480 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 1491333

Ion	Ratio	Lower	Upper
168	100		
139	39.4	31.4	47.0
169	13.7	10.9	16.3

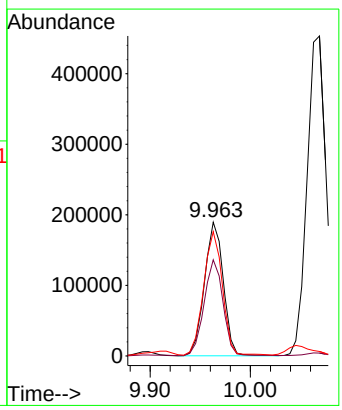


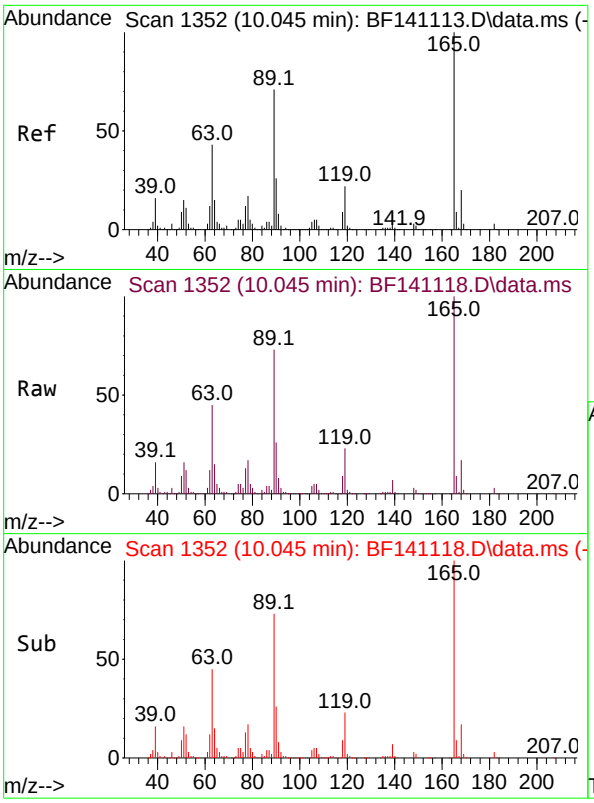


#56
4-Nitrophenol
Concen: 62.231 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:139 Resp: 248603

Ion	Ratio	Lower	Upper
139	100		
109	71.9	50.2	90.2
65	93.0	72.1	112.1



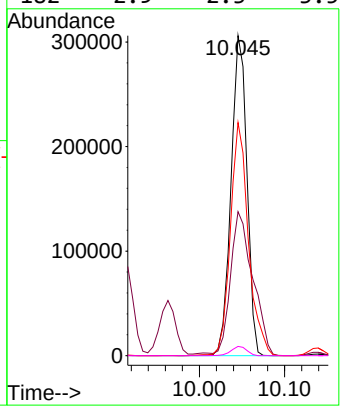


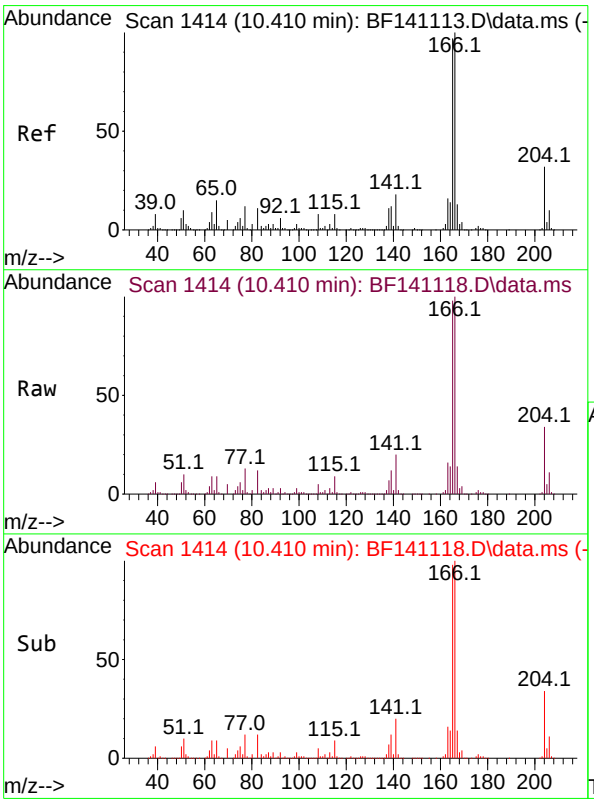
#57
2,4-Dinitrotoluene
Concen: 61.325 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 396697

Ion	Ratio	Lower	Upper
165	100		
63	45.0	35.0	52.4
89	72.9	56.7	85.1
182	2.9	2.3	3.5

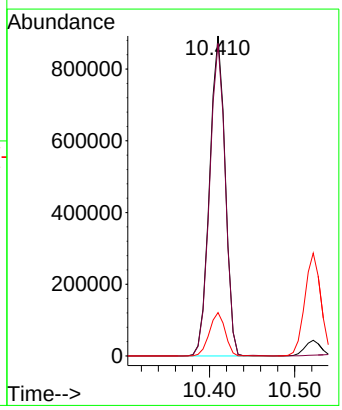


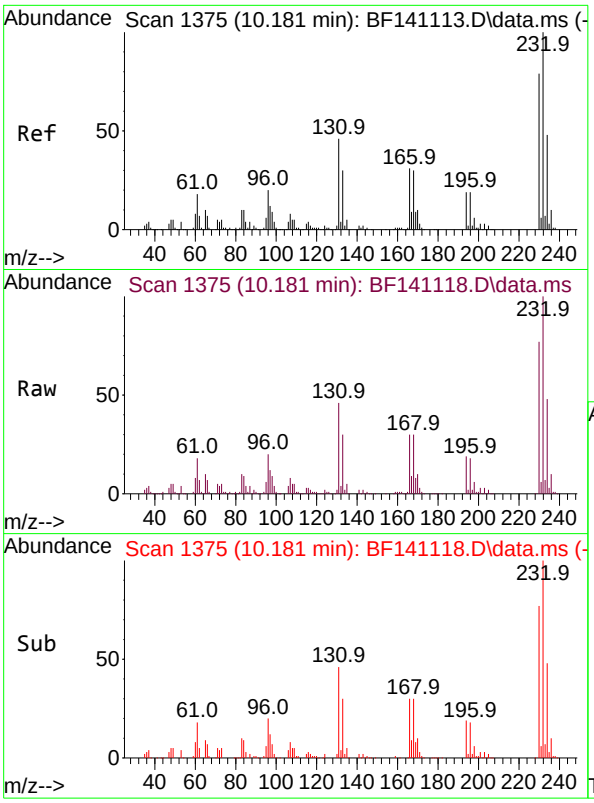


#58
Fluorene
Concen: 55.599 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:166 Resp: 1140533

Ion	Ratio	Lower	Upper
166	100		
165	97.7	77.8	116.8
167	13.6	10.8	16.2



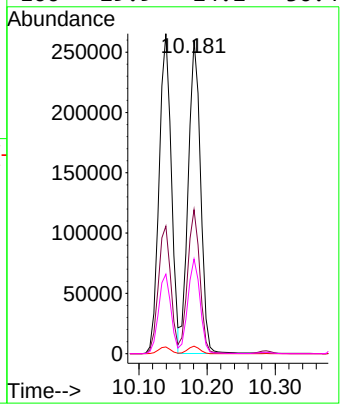


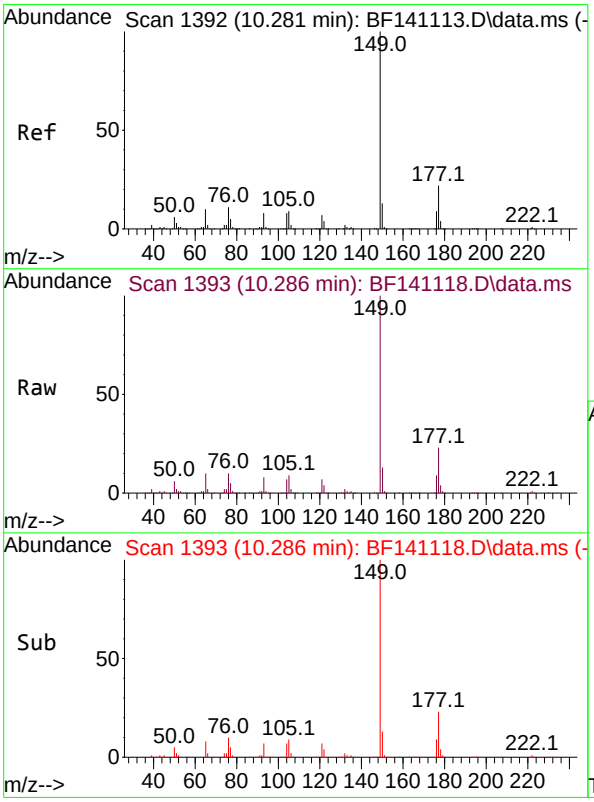
#59
2,3,4,6-Tetrachlorophenol
Concen: 59.450 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 324822

Ion	Ratio	Lower	Upper
232	100		
131	45.7	36.2	54.4
130	2.3	2.0	3.0
166	29.9	24.2	36.4

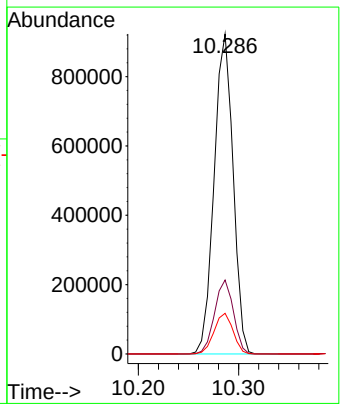


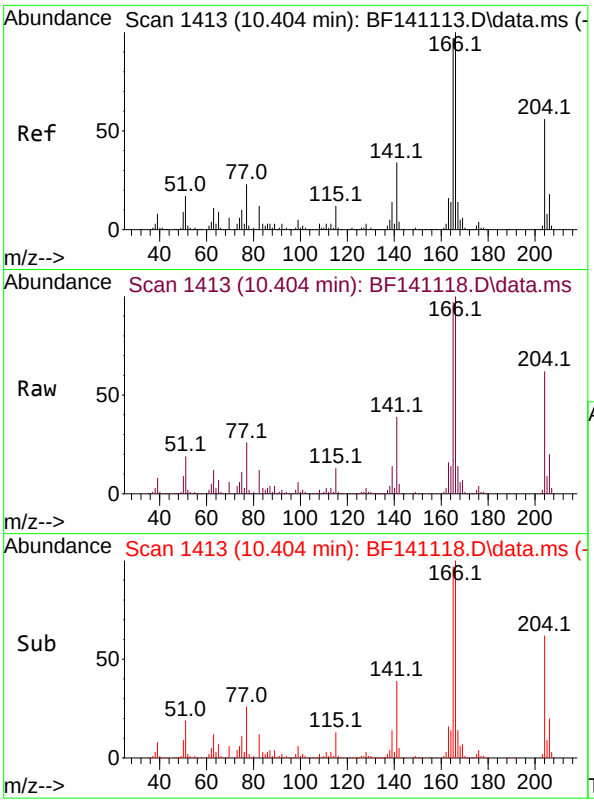


#60
Diethylphthalate
Concen: 57.521 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:149 Resp: 1212103

Ion	Ratio	Lower	Upper
149	100		
177	23.1	17.9	26.9
150	12.7	10.2	15.2



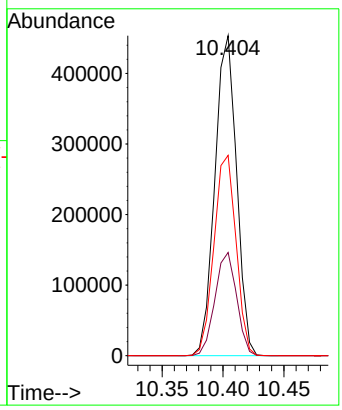


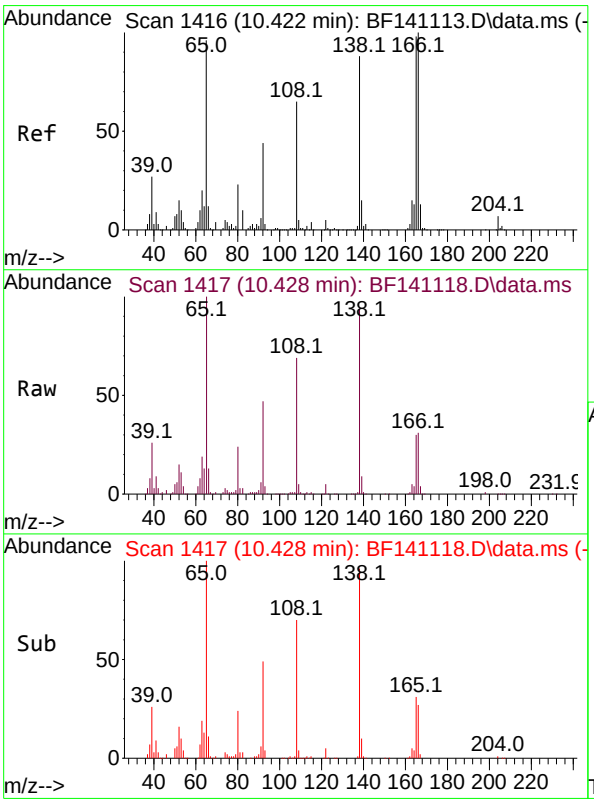
#61
4-Chlorophenyl-phenylether
Concen: 56.322 ng
RT: 10.404 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 563117

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.9	38.9
141	62.6	49.1	73.7

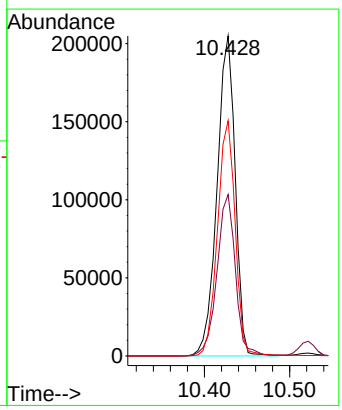


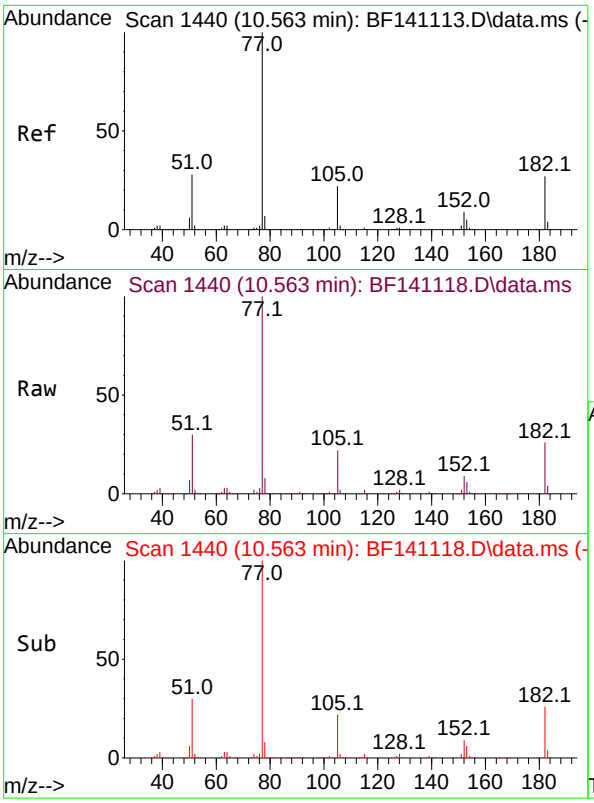


#62
4-Nitroaniline
Concen: 60.783 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:138 Resp: 303457

Ion	Ratio	Lower	Upper
138	100		
92	50.4	29.4	69.4
108	73.5	53.7	93.7



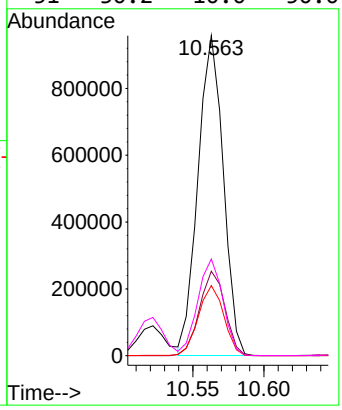


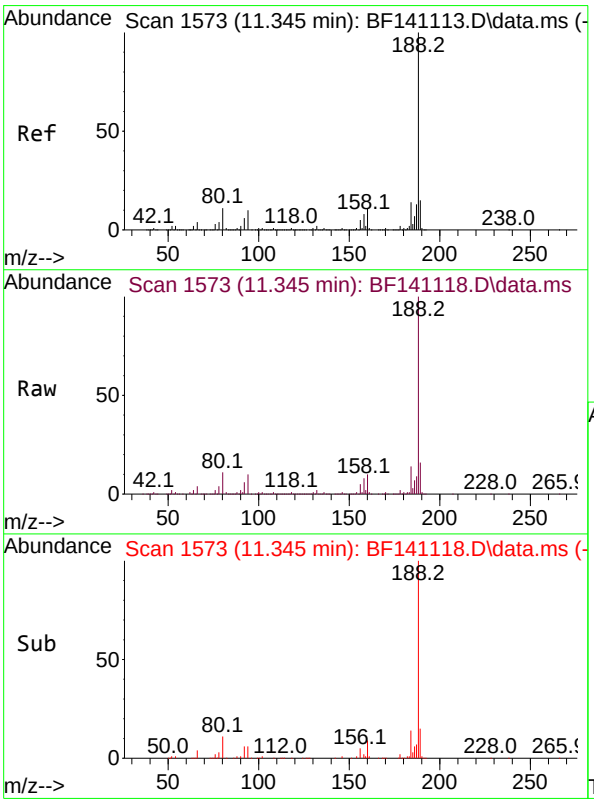
#63
Azobenzene
Concen: 57.188 ng
RT: 10.563 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 1189100

Ion	Ratio	Lower	Upper
77	100		
182	26.4	6.1	46.1
105	21.9	2.1	42.1
51	30.2	10.0	50.0

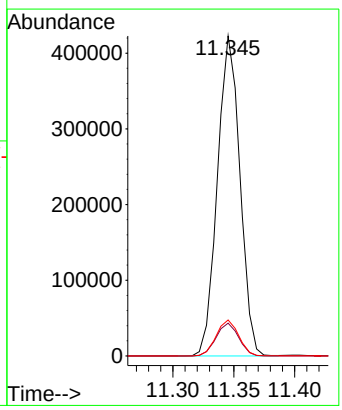


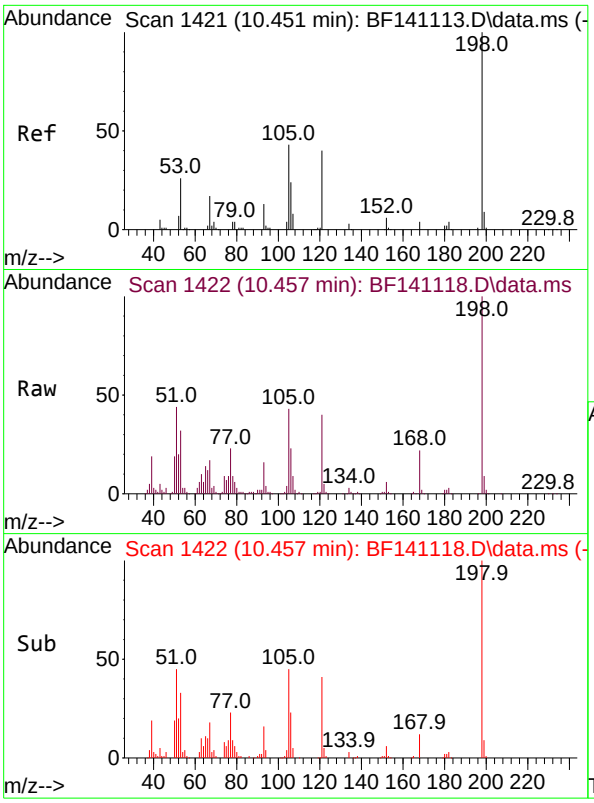


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:188 Resp: 544574

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.3	12.5
80	11.3	9.0	13.4



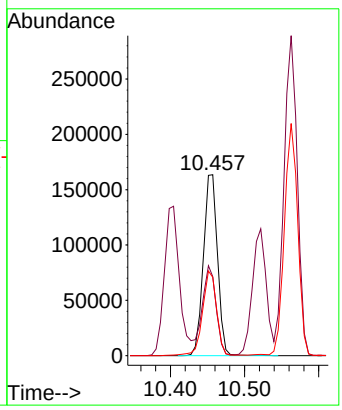


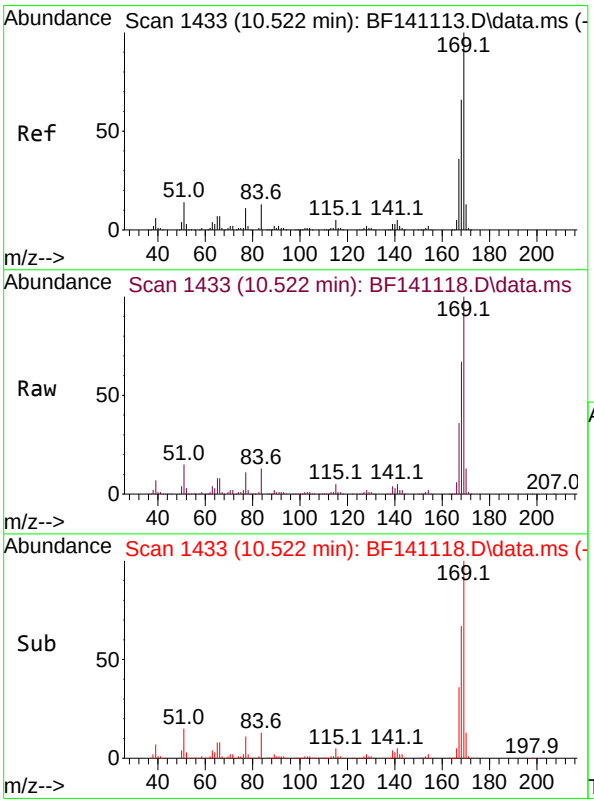
#65
4,6-Dinitro-2-methylphenol
Concen: 68.532 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 216263

Ion	Ratio	Lower	Upper
198	100		
51	43.7	27.1	67.1
105	43.3	24.2	64.2

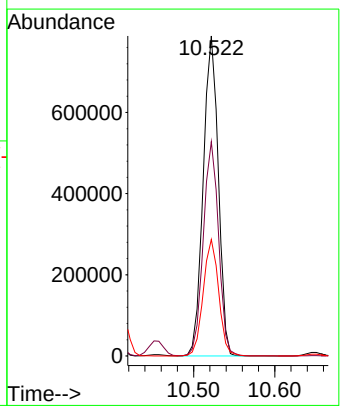


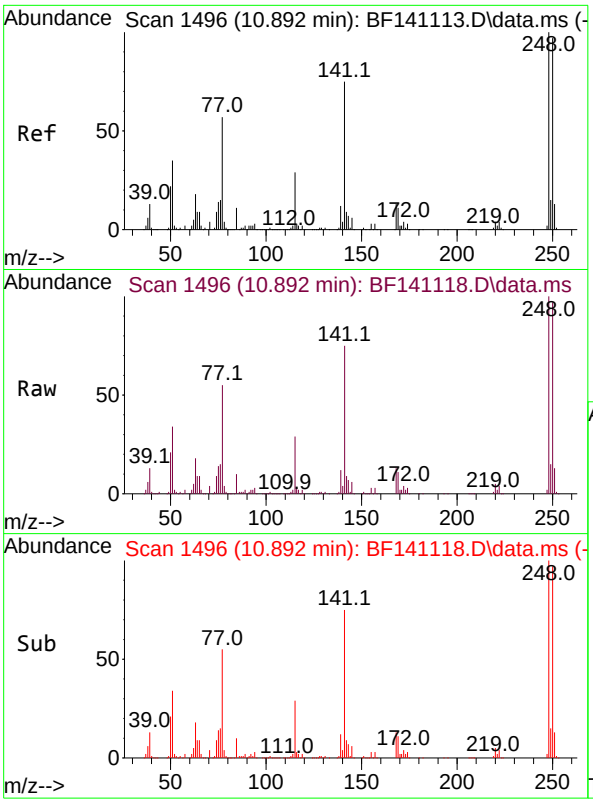


#66
n-Nitrosodiphenylamine
Concen: 57.856 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:169 Resp: 1016238

Ion	Ratio	Lower	Upper
169	100		
168	67.0	52.5	78.7
167	36.4	28.9	43.3



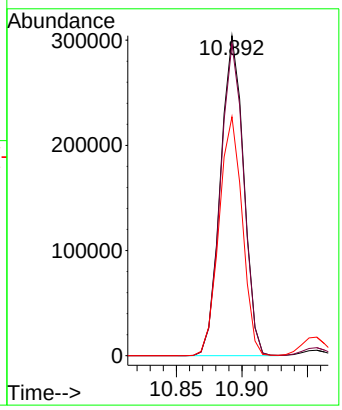


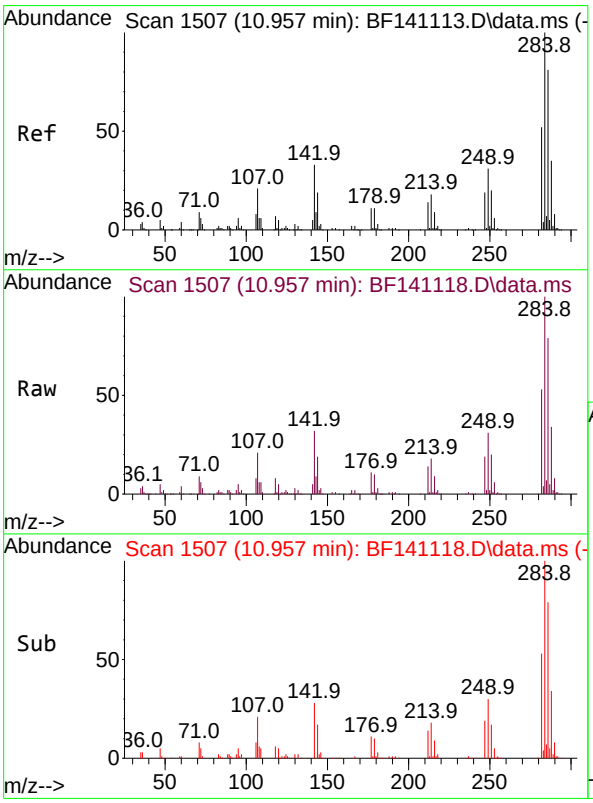
#67
4-Bromophenyl-phenylether
Concen: 59.581 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 373557

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.9	116.9
141	74.7	59.9	89.9

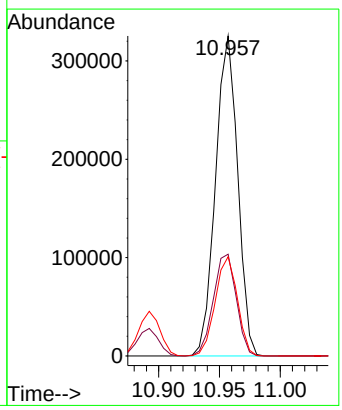


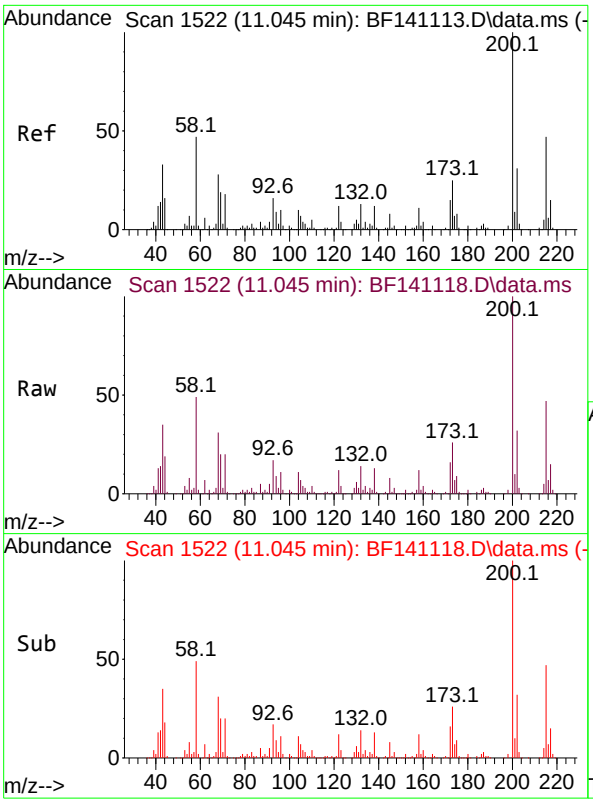


#68
Hexachlorobenzene
Concen: 59.066 ng
RT: 10.957 min Scan# 1507
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:284 Resp: 412239

Ion	Ratio	Lower	Upper
284	100		
142	31.8	26.3	39.5
249	31.0	24.9	37.3



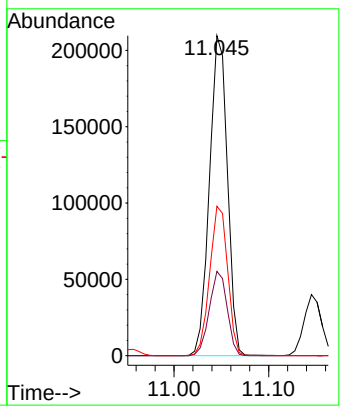


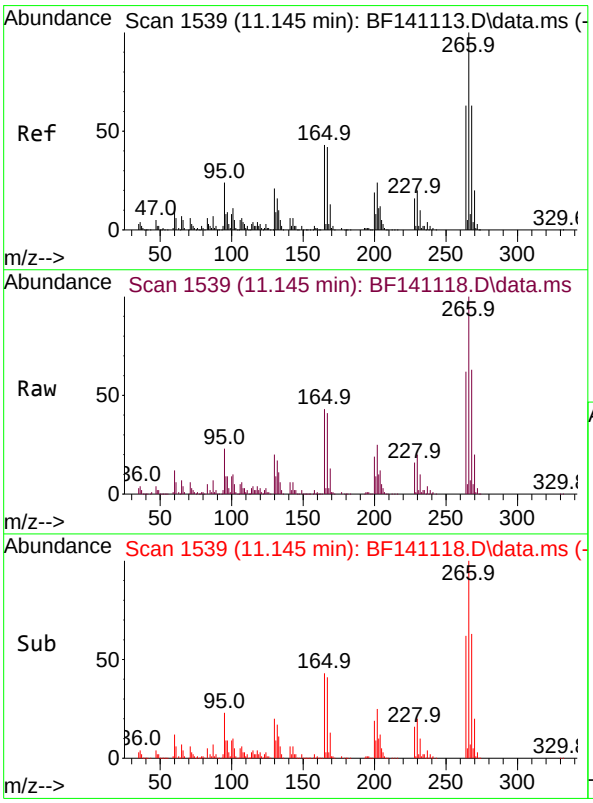
#69
Atrazine
Concen: 58.231 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 275405

Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.4	45.4
215	46.7	26.6	66.6

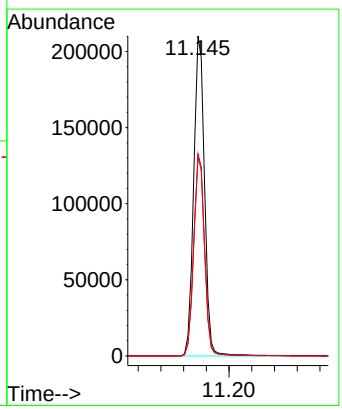


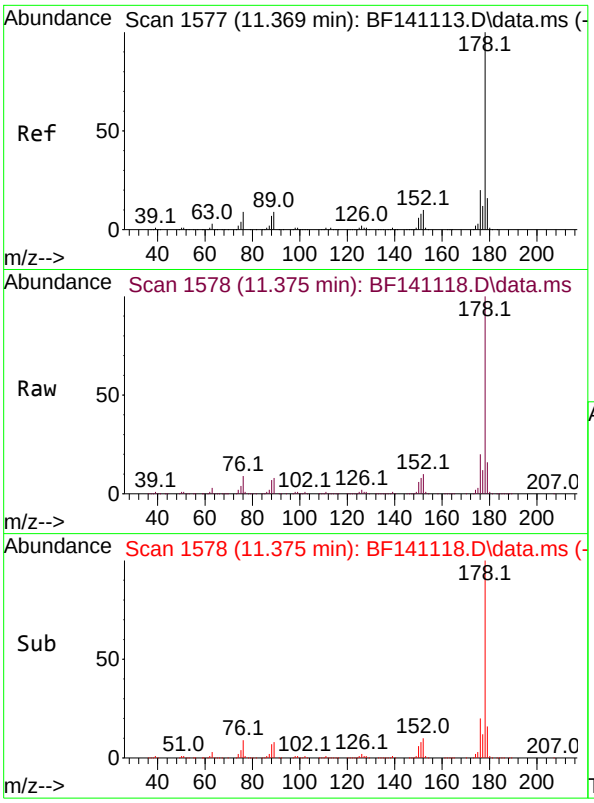


#70
Pentachlorophenol
Concen: 62.662 ng
RT: 11.145 min Scan# 1539
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:266 Resp: 280071

Ion	Ratio	Lower	Upper
266	100		
268	63.1	50.4	75.6
264	62.4	50.2	75.2



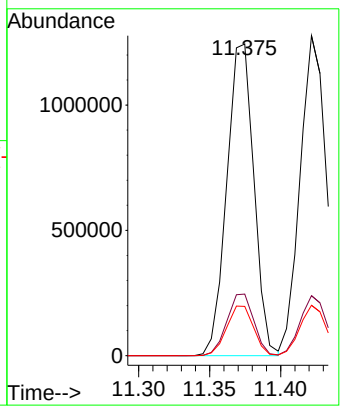


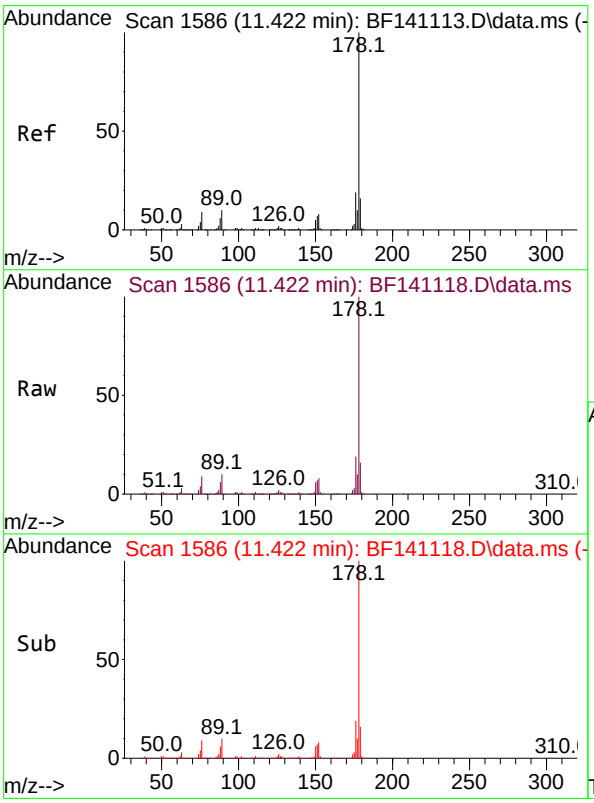
#71
Phenanthrene
Concen: 56.525 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 1652586

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.8	12.6	19.0

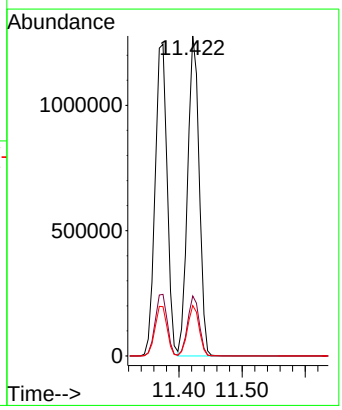


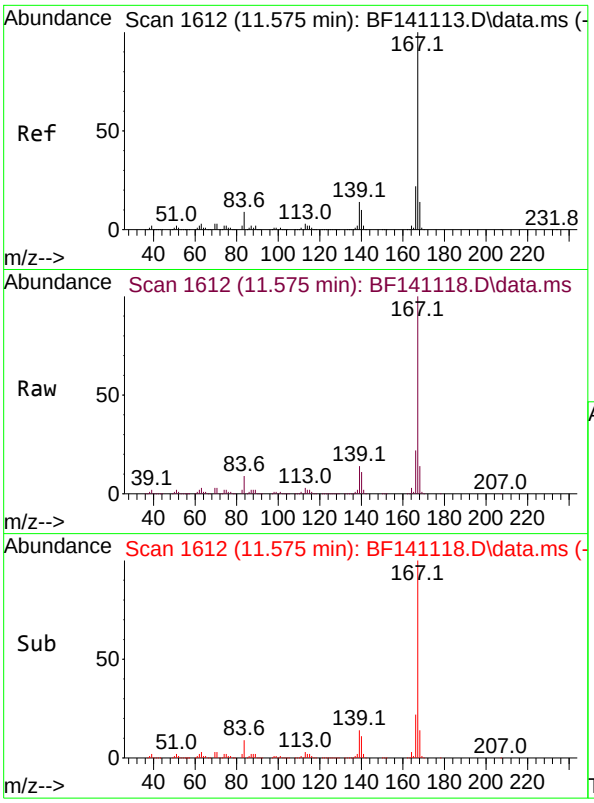


#72
Anthracene
Concen: 57.297 ng
RT: 11.422 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:178 Resp: 1628828

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.7	12.6	19.0



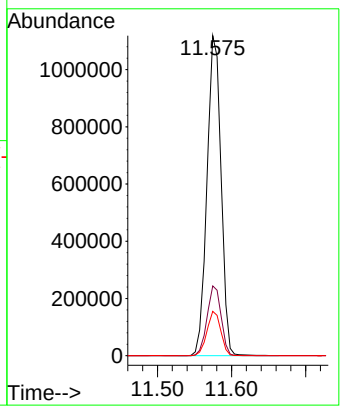


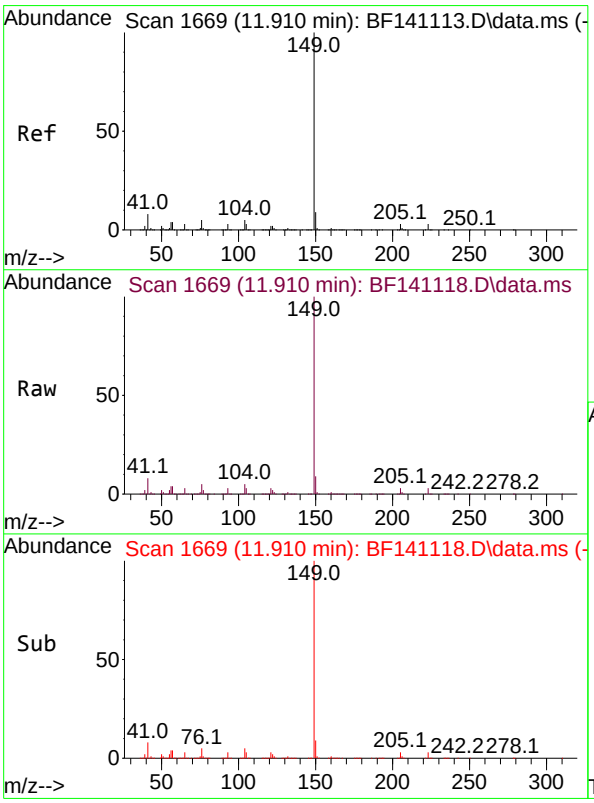
#73
Carbazole
Concen: 56.440 ng
RT: 11.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 1471188

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.8	10.9	16.3

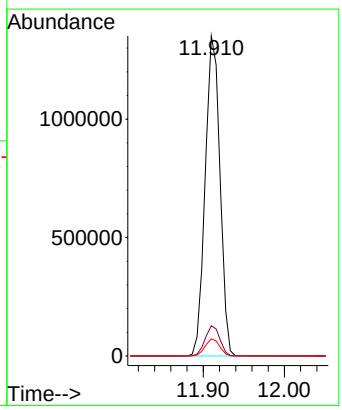


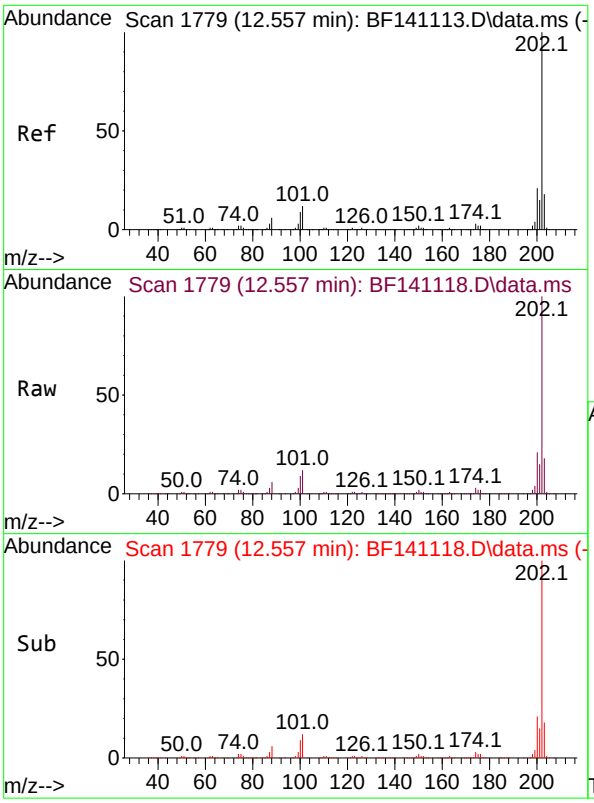


#74
Di-n-butylphthalate
Concen: 57.105 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:149 Resp: 1703503

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	5.4	4.2	6.2



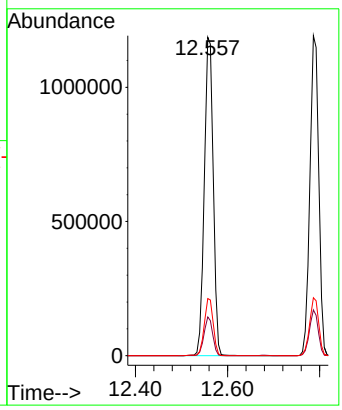


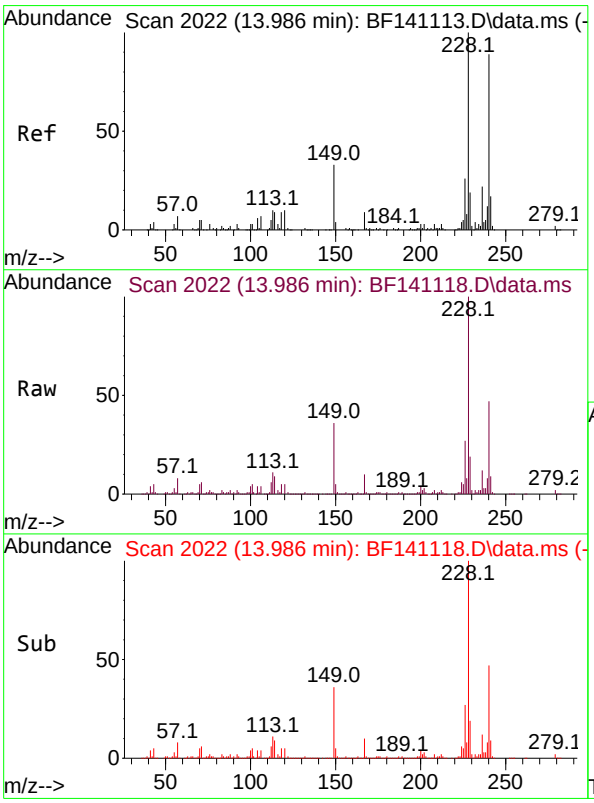
#75
Fluoranthene
Concen: 55.261 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 1612262

Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	32.3
203	18.0	0.0	37.7

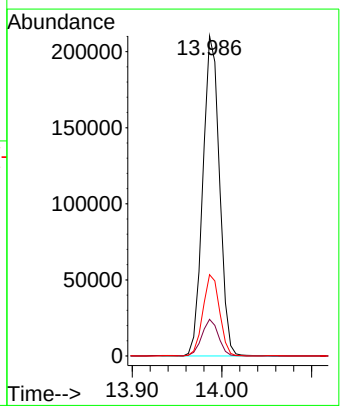


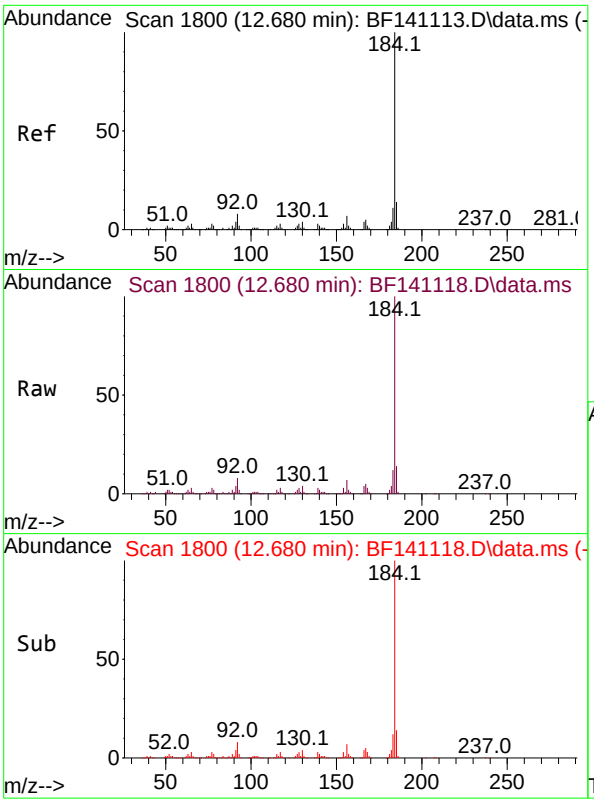


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:240 Resp: 270448

Ion	Ratio	Lower	Upper
240	100		
120	11.4	9.1	13.7
236	25.4	19.8	29.6



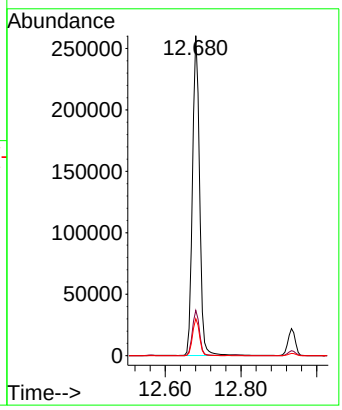


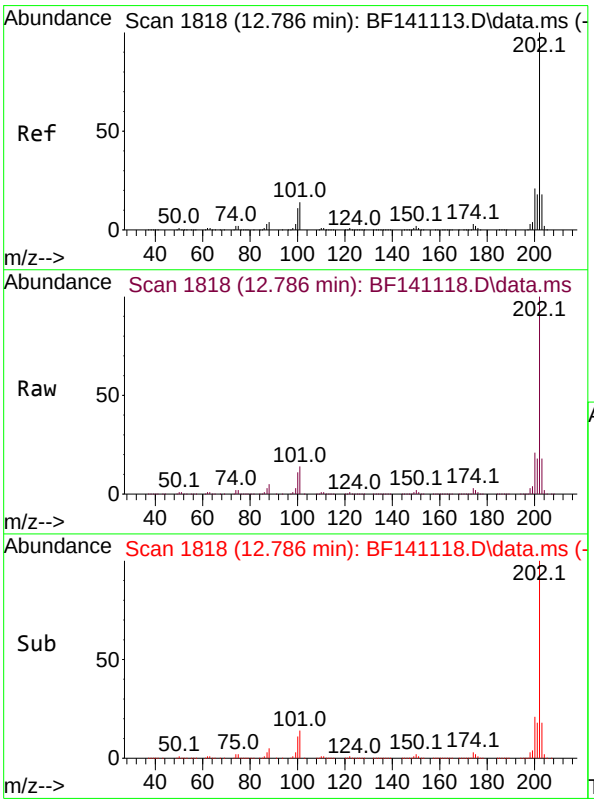
#77
Benzidine
Concen: 67.645 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 339258

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.4	17.0
183	11.6	9.2	13.8

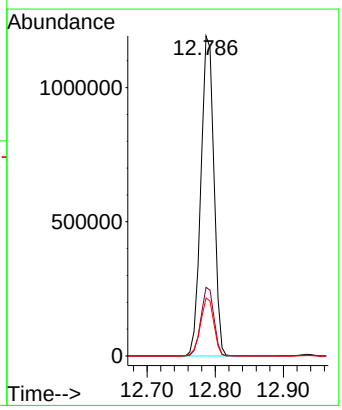


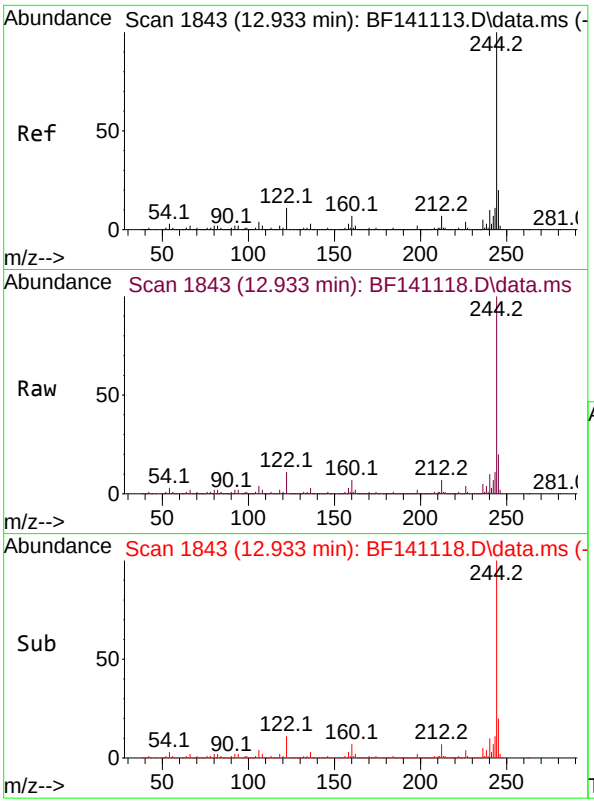


#78
Pyrene
Concen: 61.407 ng
RT: 12.786 min Scan# 1818
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:202 Resp: 1586225

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.8	25.2
203	18.1	14.3	21.5



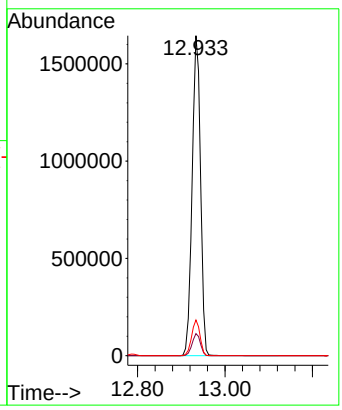


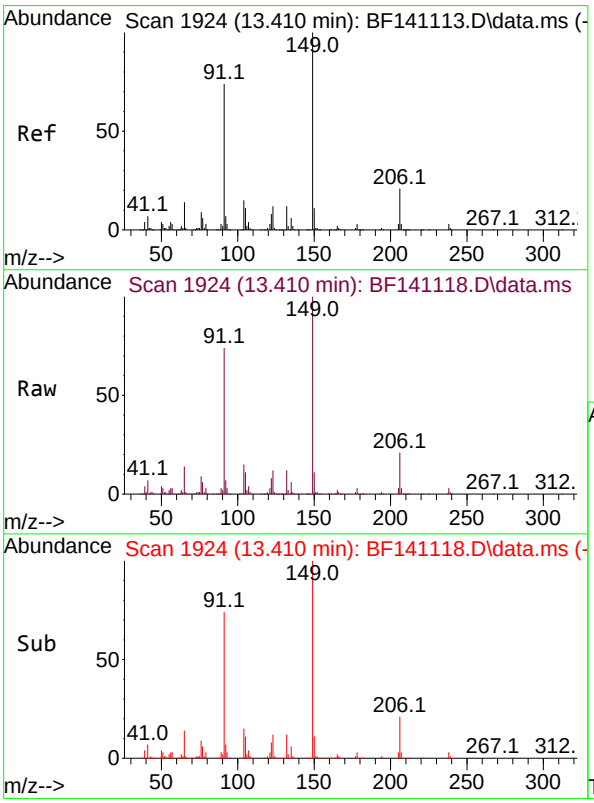
#79
Terphenyl-d14
Concen: 120.552 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 2193567

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	11.2	8.8	13.2

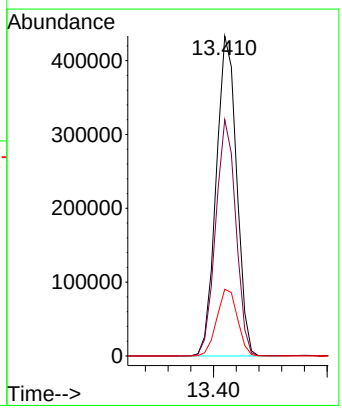


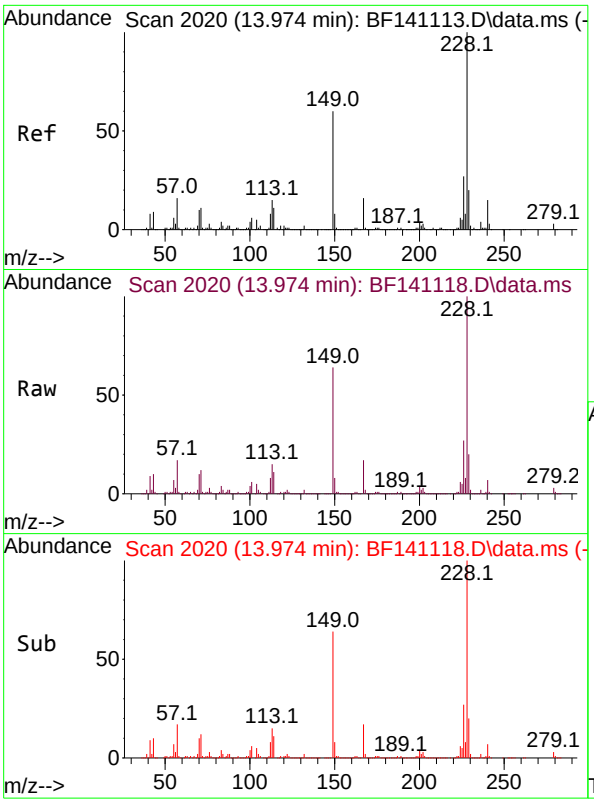


#80
Butylbenzylphthalate
Concen: 62.995 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:149 Resp: 542533

Ion	Ratio	Lower	Upper
149	100		
91	73.9	59.0	88.6
206	20.9	16.5	24.7



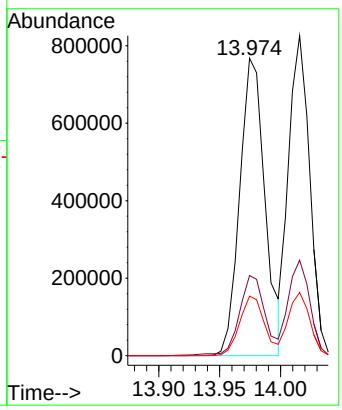


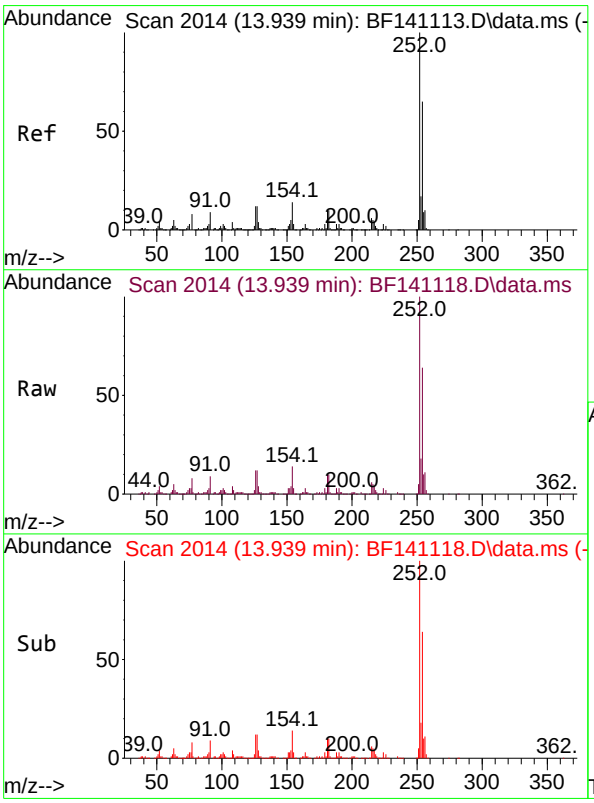
#81
Benzo(a)anthracene
Concen: 60.261 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 1109142

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.7	32.5
229	20.0	15.7	23.5

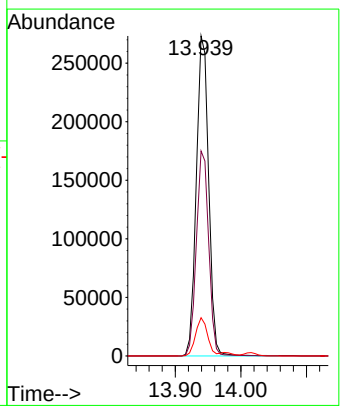


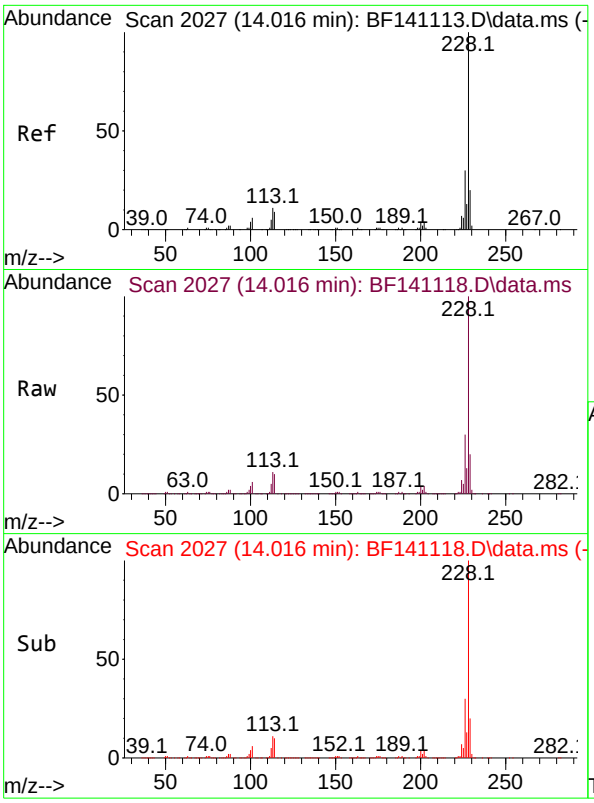


#82
3,3'-Dichlorobenzidine
Concen: 61.050 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:252 Resp: 357792

Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.0	78.0
126	12.0	9.4	14.0



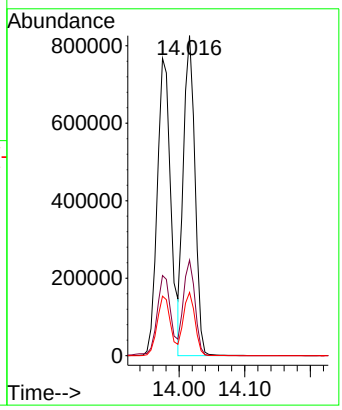


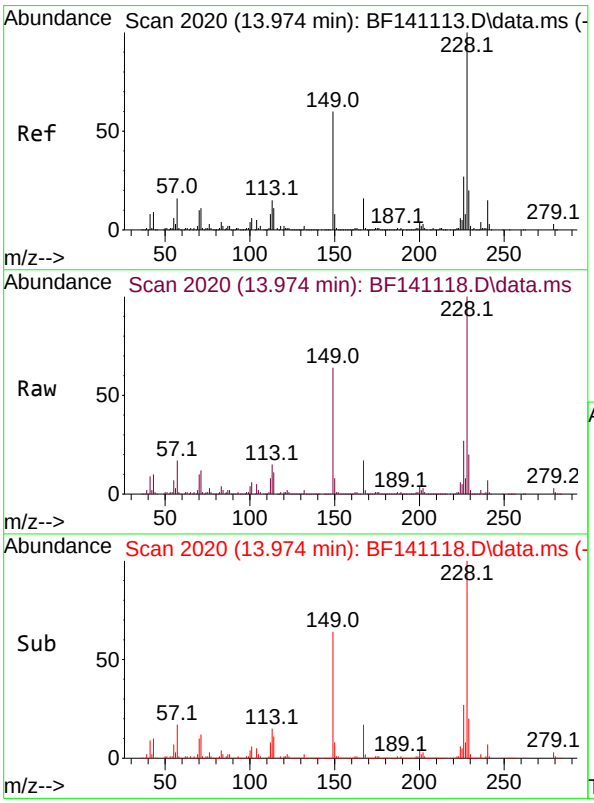
#83
Chrysene
Concen: 58.332 ng
RT: 14.016 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 1004586

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.8
229	19.8	15.8	23.8

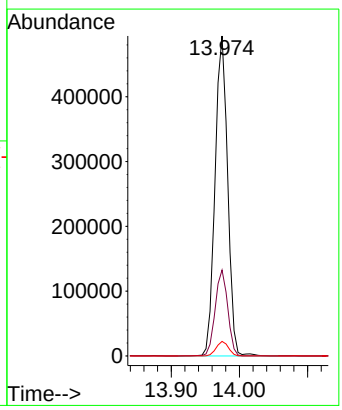


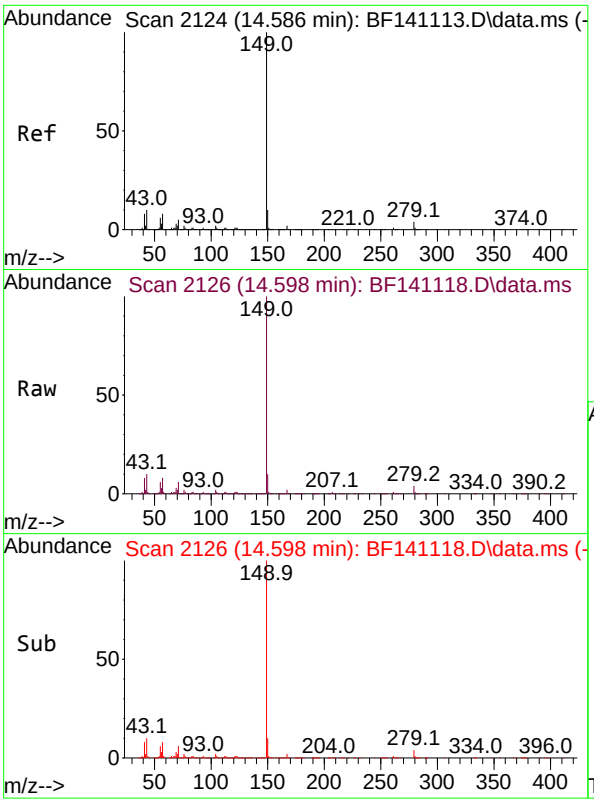


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.496 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:149 Resp: 635471

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.2
279	4.5	3.4	5.2



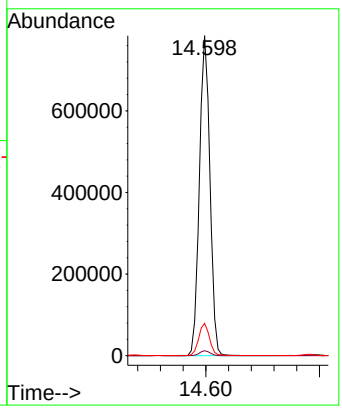


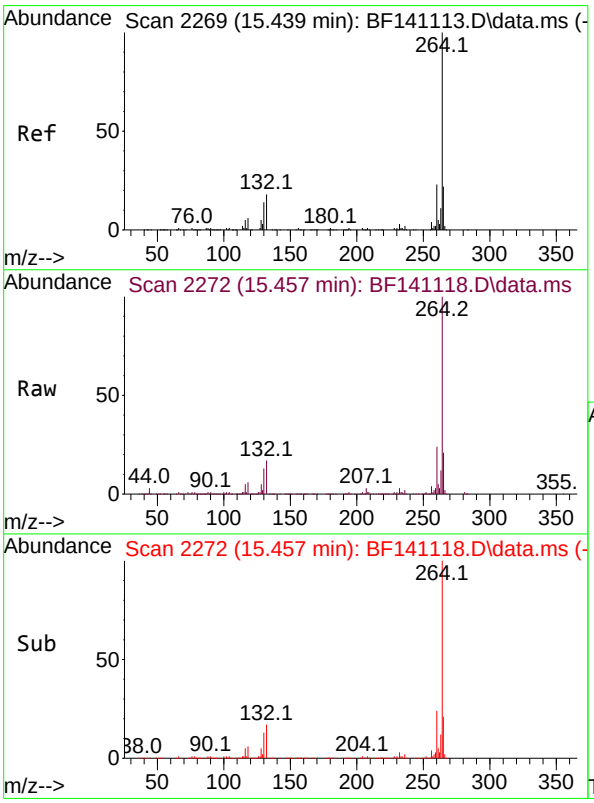
#85
Di-n-octyl phthalate
Concen: 64.657 ng
RT: 14.598 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 1008931

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.3	8.4	12.6

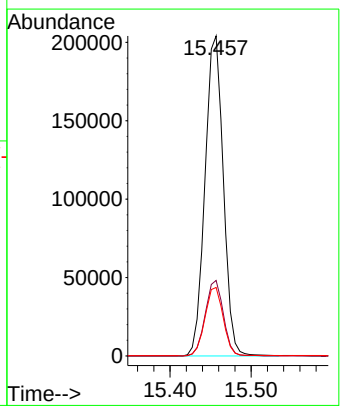


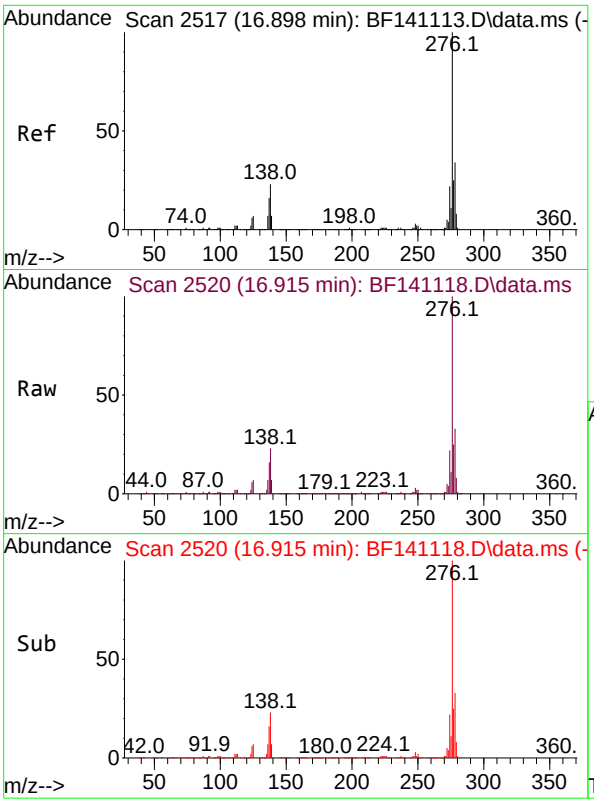


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.018 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:264 Resp: 319464

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.4	17.4	26.0



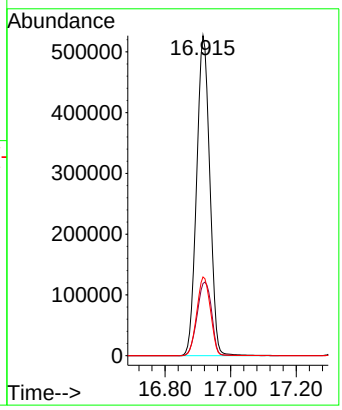


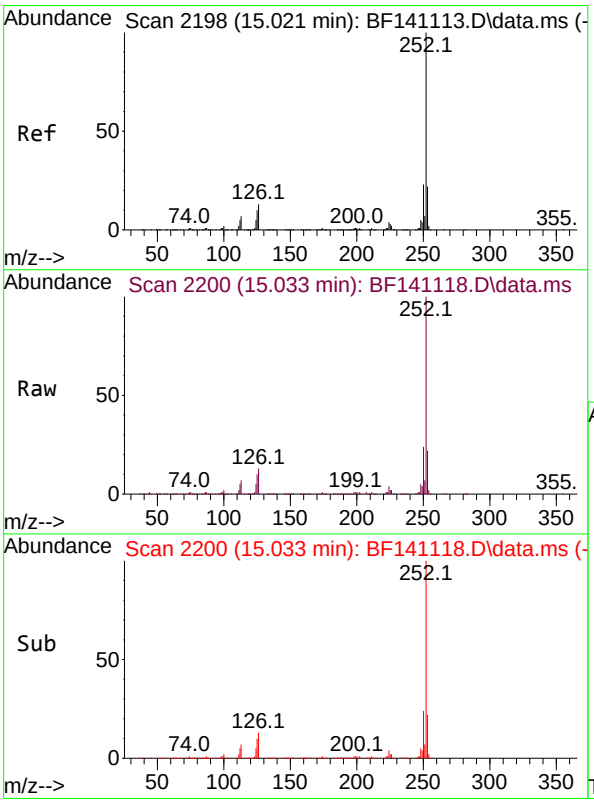
#87
Indeno(1,2,3-cd)pyrene
Concen: 63.034 ng
RT: 16.915 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 1475298

Ion	Ratio	Lower	Upper
276	100		
138	25.3	20.7	31.1
277	25.5	20.6	30.8

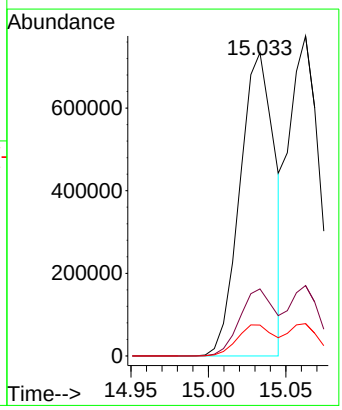


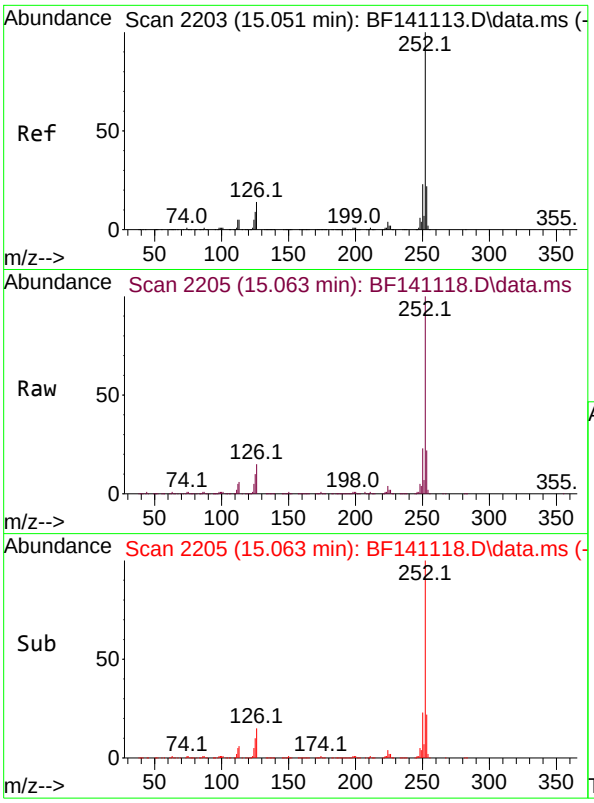


#88
Benzo(b)fluoranthene
Concen: 55.395 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.012 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:252 Resp: 1141152

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.2	8.1	12.1



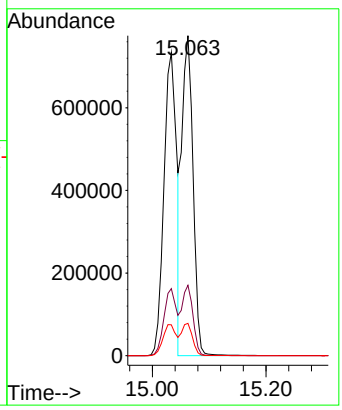


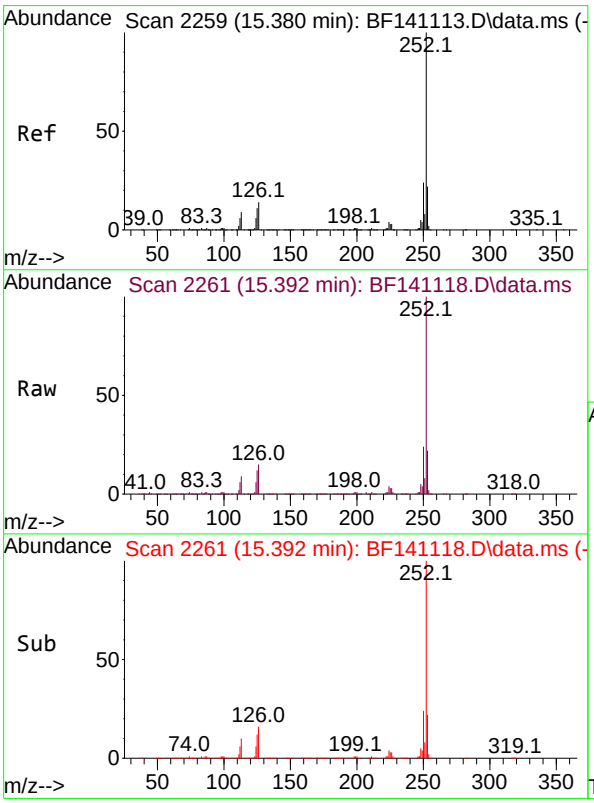
#89
Benzo(k)fluoranthene
Concen: 60.741 ng
RT: 15.063 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 1057429

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.1	7.9	11.9

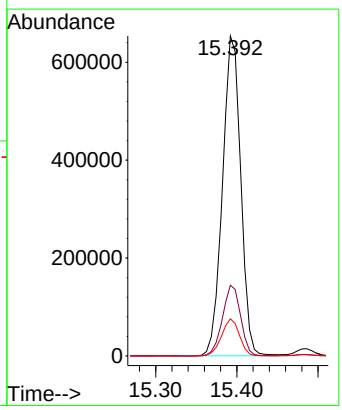


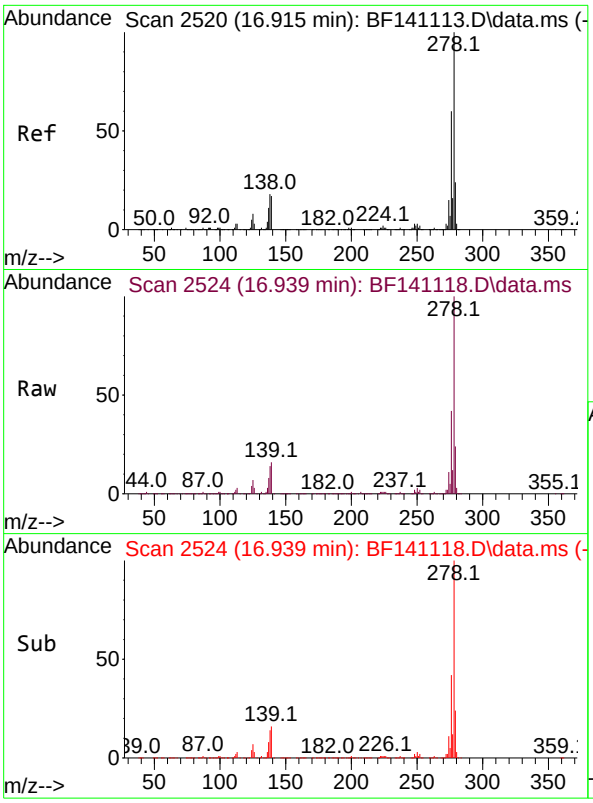


#90
Benzo(a)pyrene
Concen: 60.139 ng
RT: 15.392 min Scan# 2261
Delta R.T. 0.012 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:252 Resp: 1022132

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	11.6	9.1	13.7



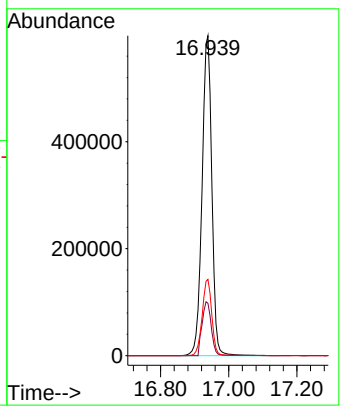


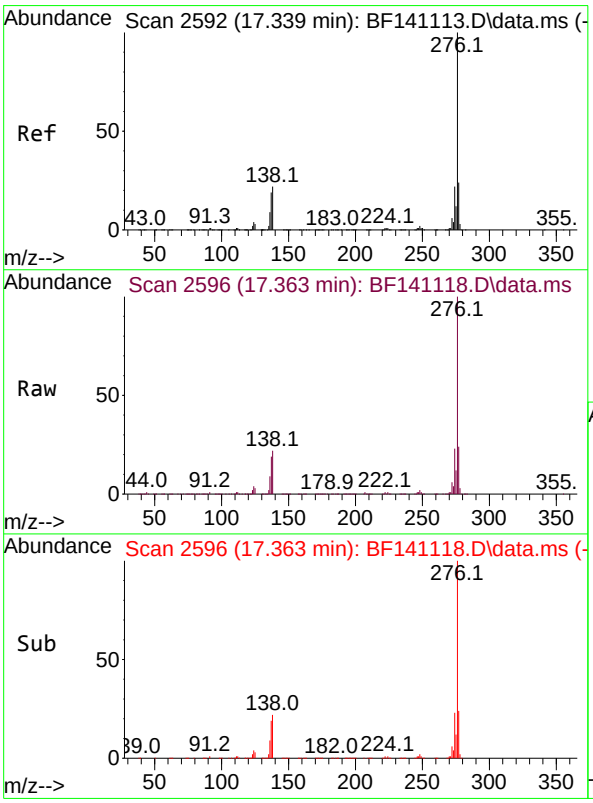
#91
Dibenzo(a,h)anthracene
Concen: 63.146 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 1195359

Ion	Ratio	Lower	Upper
278	100		
139	16.4	13.8	20.6
279	23.9	19.1	28.7

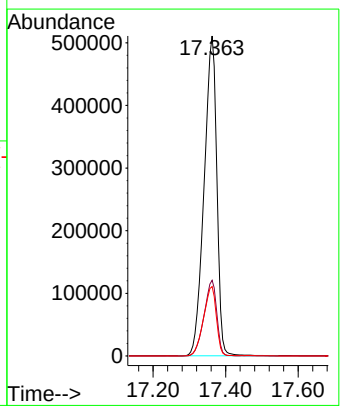




#92
Benzo(g,h,i)perylene
Concen: 63.068 ng
RT: 17.363 min Scan# 2596
Delta R.T. 0.024 min
Lab File: BF141118.D
Acq: 10 Jan 2025 17:19

Tgt Ion:276 Resp: 1241806

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	21.7	17.4	26.2



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Data File : BF141119.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 10 22:24:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	172282	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	648826	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	342460	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	584387	20.000	ng		0.00
76) Chrysene-d12	13.992	240	310879	20.000	ng		0.00
86) Perylene-d12	15.451	264	395988	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	1544552	138.495	ng		0.00
7) Phenol-d6	6.457	99	2004230	141.874	ng		0.01
23) Nitrobenzene-d5	7.392	82	1813409	148.154	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	601438	154.132	ng		0.00
45) 2-Fluorobiphenyl	9.186	172	2997639	133.666	ng		0.00
79) Terphenyl-d14	12.933	244	2895506	138.433	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	361586	72.808	ng		100
3) Pyridine	3.287	79	855609	70.255	ng		99
4) n-Nitrosodimethylamine	3.252	42	443709	74.512	ng		99
6) Aniline	6.487	93	842164m	67.145	ng		
8) 2-Chlorophenol	6.610	128	844417	70.573	ng		99
10) Phenol	6.469	94	1067075	70.563	ng		93
11) bis(2-Chloroethyl)ether	6.563	93	811905	72.042	ng		98
12) 1,3-Dichlorobenzene	6.763	146	945224	70.831	ng		99
13) 1,4-Dichlorobenzene	6.840	146	944179	70.211	ng		99
14) 1,2-Dichlorobenzene	6.998	146	854029	68.083	ng		98
15) Benzyl Alcohol	6.969	79	722113	70.781	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.098	45	1129914	71.848	ng		98
17) 2-Methylphenol	7.075	107	707657	73.257	ng		99
18) Hexachloroethane	7.334	117	349146	71.795	ng		98
19) n-Nitroso-di-n-propyla...	7.245	70	588783	70.753	ng		98
20) 3+4-Methylphenols	7.234	107	813265	66.732	ng	#	83
22) Acetophenone	7.239	105	1083059	70.218	ng	#	98
24) Nitrobenzene	7.410	77	943483	73.960	ng		99
25) Isophorone	7.651	82	1571424	75.124	ng		99
26) 2-Nitrophenol	7.722	139	463267	79.834	ng		98
27) 2,4-Dimethylphenol	7.757	122	594544	75.959	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	977334	74.449	ng		100
29) 2,4-Dichlorophenol	7.963	162	689420	74.162	ng		100
30) 1,2,4-Trichlorobenzene	8.045	180	776721	73.098	ng		100
31) Naphthalene	8.128	128	2411578	70.480	ng		99
32) Benzoic acid	7.898	122	648810	86.411	ng		98
33) 4-Chloroaniline	8.187	127	860135	72.688	ng		100
34) Hexachlorobutadiene	8.245	225	467194	72.969	ng		99
35) Caprolactam	8.569	113	236127	77.436	ng		98
36) 4-Chloro-3-methylphenol	8.657	107	760692	74.822	ng		99
37) 2-Methylnaphthalene	8.816	142	1544153	70.820	ng		99
38) 1-Methylnaphthalene	8.916	142	1507881	70.172	ng		99
40) 1,2,4,5-Tetrachloroben...	8.986	216	712407	72.478	ng		100
41) Hexachlorocyclopentadiene	8.969	237	249944	77.724	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	516551	77.920	ng		98
44) 2,4,5-Trichlorophenol	9.133	196	516966	73.839	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141119.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 10 22:24:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

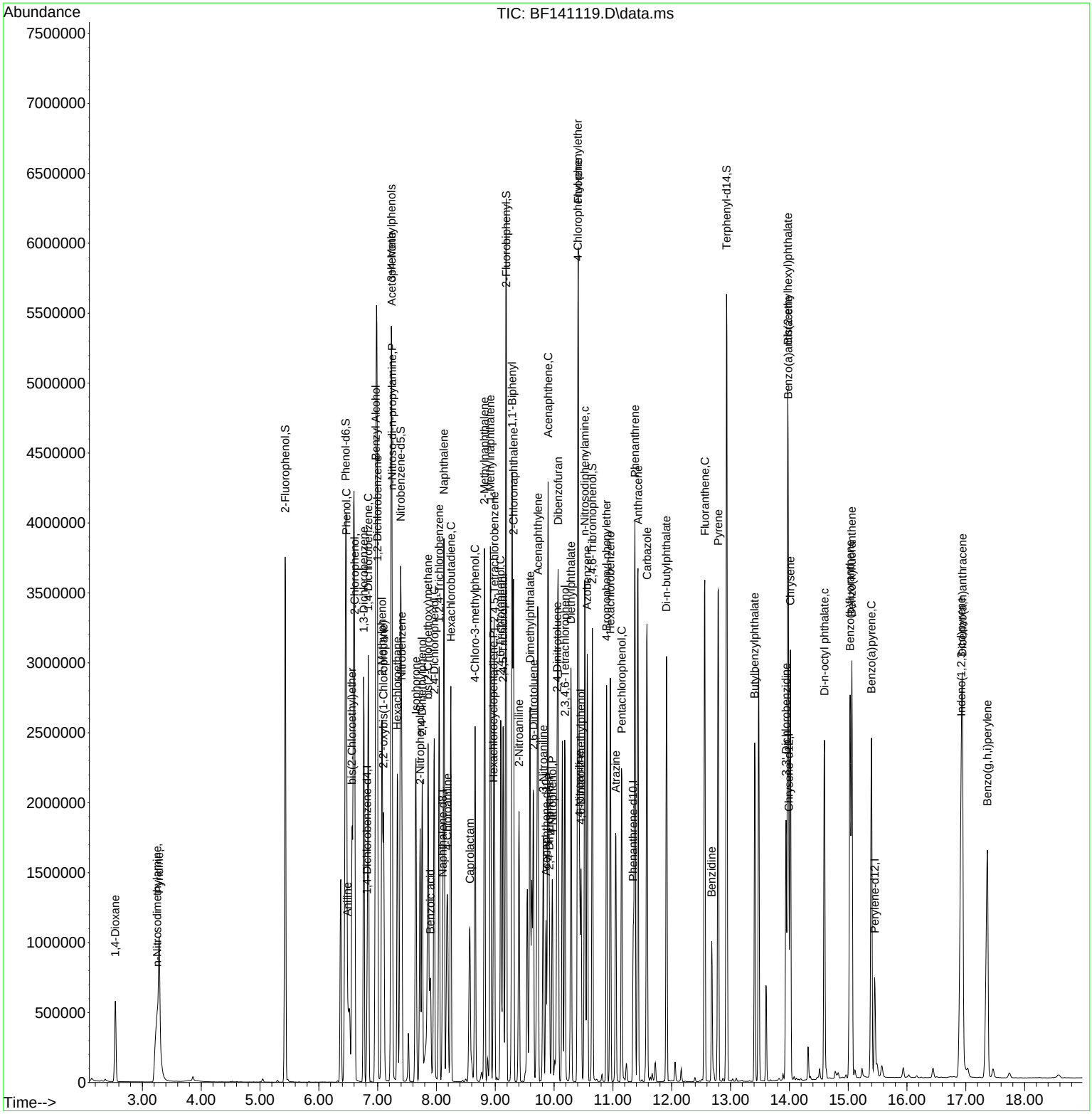
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.286	154	1854615	69.734	ng	99
47) 2-Chloronaphthalene	9.310	162	1478014	71.352	ng	99
48) 2-Nitroaniline	9.404	65	475269	77.400	ng	98
49) Acenaphthylene	9.728	152	2110029	71.297	ng	99
50) Dimethylphthalate	9.592	163	1688321	73.435	ng	100
51) 2,6-Dinitrotoluene	9.651	165	403325	75.439	ng	98
52) Acenaphthene	9.898	154	1487806	71.956	ng	99
53) 3-Nitroaniline	9.816	138	404031	74.366	ng	100
54) 2,4-Dinitrophenol	9.922	184	233623	91.933	ng	96
55) Dibenzofuran	10.069	168	1972541	70.137	ng	99
56) 4-Nitrophenol	9.969	139	339082	79.690	ng	98
57) 2,4-Dinitrotoluene	10.051	165	533647	77.452	ng	98
58) Fluorene	10.410	166	1493903	68.372	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.186	232	428499	73.631	ng	99
60) Diethylphthalate	10.286	149	1624226	72.366	ng	99
61) 4-Chlorophenyl-phenyle...	10.404	204	739051	69.400	ng	98
62) 4-Nitroaniline	10.433	138	404093	75.992	ng	97
63) Azobenzene	10.563	77	1597886	72.150	ng	99
65) 4,6-Dinitro-2-methylph...	10.457	198	299726	88.510	ng	98
66) n-Nitrosodiphenylamine	10.522	169	1340718	71.129	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	502690	74.715	ng	100
68) Hexachlorobenzene	10.957	284	557705	74.464	ng	100
69) Atrazine	11.051	200	322778	63.598	ng	100
70) Pentachlorophenol	11.151	266	373762	77.927	ng	99
71) Phenanthrene	11.375	178	2186474	69.691	ng	100
72) Anthracene	11.427	178	2122167	69.565	ng	99
73) Carbazole	11.580	167	1946776	69.597	ng	99
74) Di-n-butylphthalate	11.910	149	2240405	69.986	ng	99
75) Fluoranthene	12.563	202	2156966	68.895	ng	99
77) Benzidine	12.680	184	535121	92.821	ng	99
78) Pyrene	12.792	202	2138910	72.034	ng	99
80) Butylbenzylphthalate	13.410	149	775127	78.297	ng	99
81) Benzo(a)anthracene	13.980	228	1574387	74.414	ng	99
82) 3,3'-Dichlorobenzidine	13.945	252	557682	82.781	ng	100
83) Chrysene	14.016	228	1492065	75.370	ng	99
84) Bis(2-ethylhexyl)phtha...	13.974	149	885991	74.589	ng	99
85) Di-n-octyl phthalate	14.598	149	1604851	89.471	ng	100
87) Indeno(1,2,3-cd)pyrene	16.921	276	2176761	75.032	ng	100
88) Benzo(b)fluoranthene	15.033	252	1830448	71.685	ng	100
89) Benzo(k)fluoranthene	15.063	252	1701343	78.843	ng	99
90) Benzo(a)pyrene	15.398	252	1594959	75.707	ng	100
91) Dibenzo(a,h)anthracene	16.945	278	1723136	73.436	ng	99
92) Benzo(g,h,i)perylene	17.368	276	1664293	68.190	ng	99

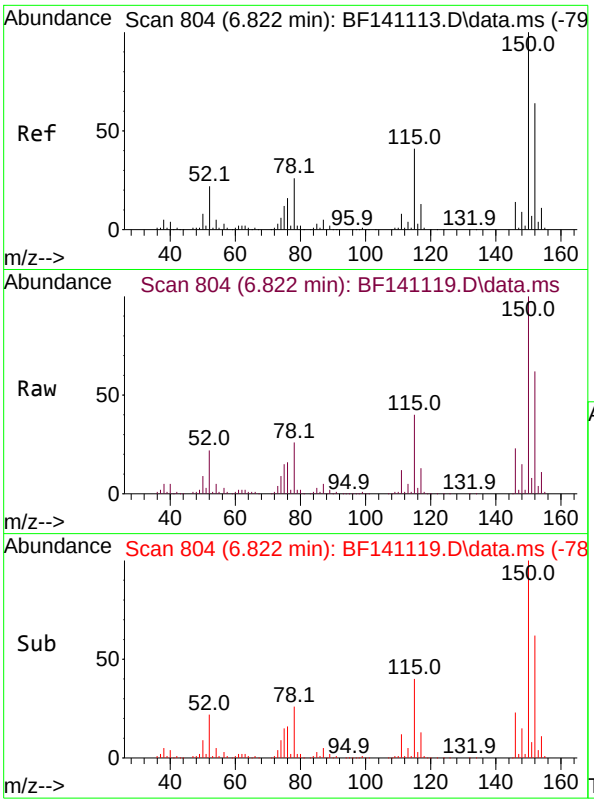
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141119.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 10 22:24:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



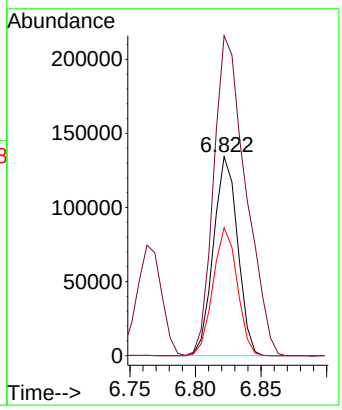


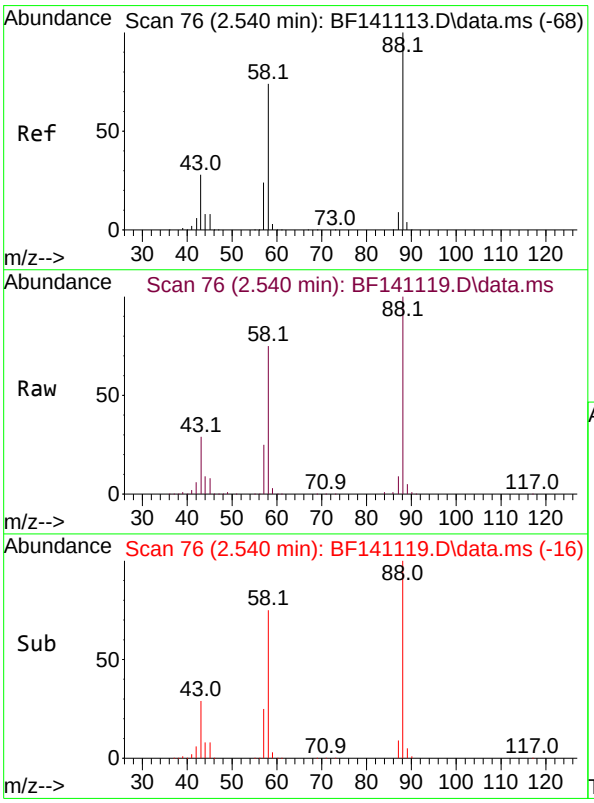
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 172282

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.8	188.8
115	64.3	51.4	77.2

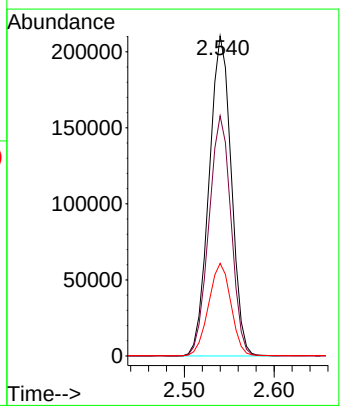


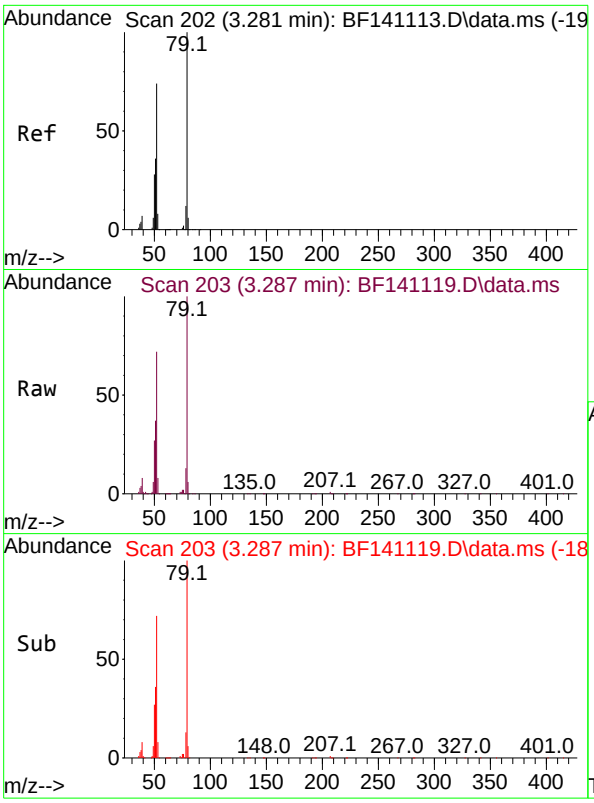


#2
1,4-Dioxane
Concen: 72.808 ng
RT: 2.540 min Scan# 76
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 88 Resp: 361586

Ion	Ratio	Lower	Upper
88	100		
58	74.8	60.1	90.1
43	29.1	23.1	34.7



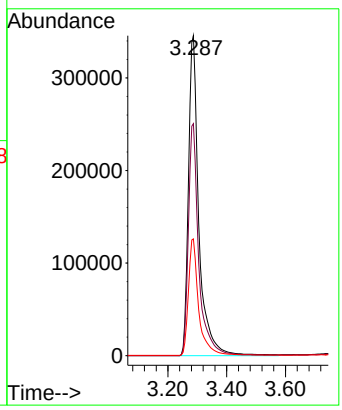


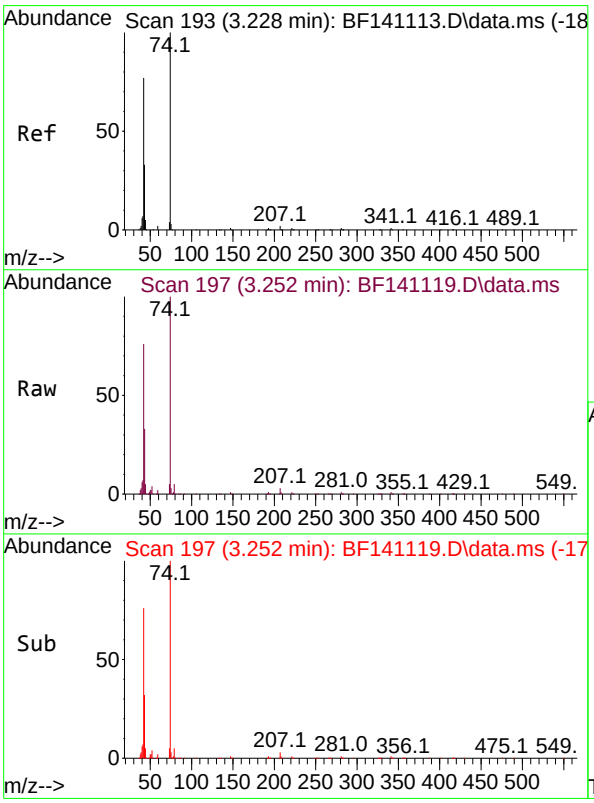
#3
Pyridine
Concen: 70.255 ng
RT: 3.287 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 855609

Ion	Ratio	Lower	Upper
79	100		
52	72.5	58.9	88.3
51	36.5	29.1	43.7

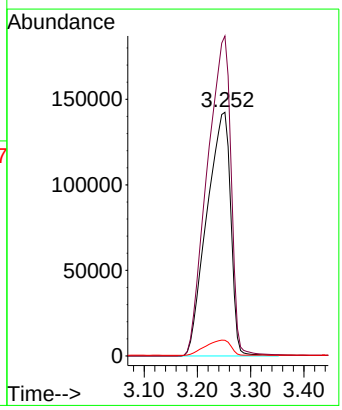


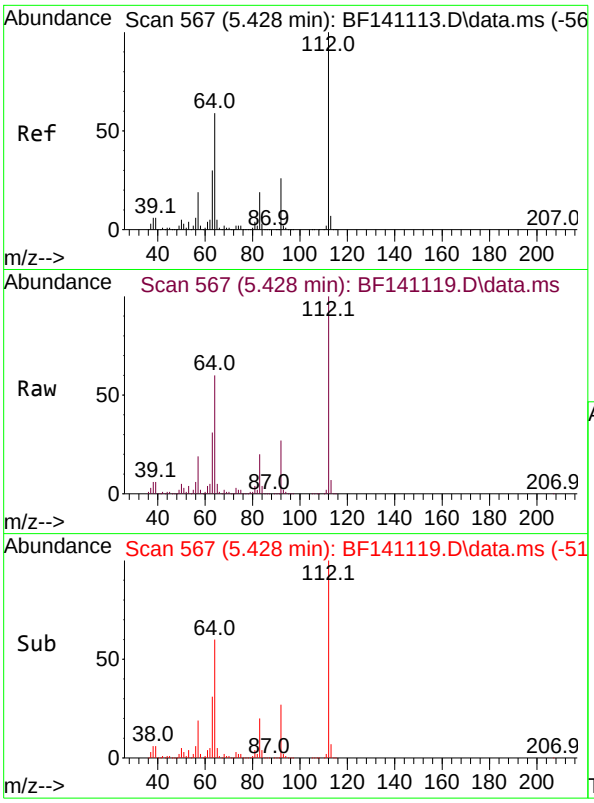


#4
n-Nitrosodimethylamine
Concen: 74.512 ng
RT: 3.252 min Scan# 197
Delta R.T. 0.024 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 42 Resp: 443709

Ion	Ratio	Lower	Upper
42	100		
74	131.3	103.8	155.6
44	6.4	5.3	7.9



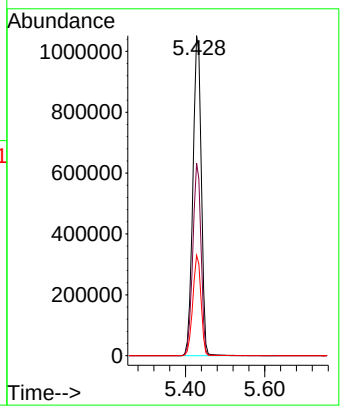


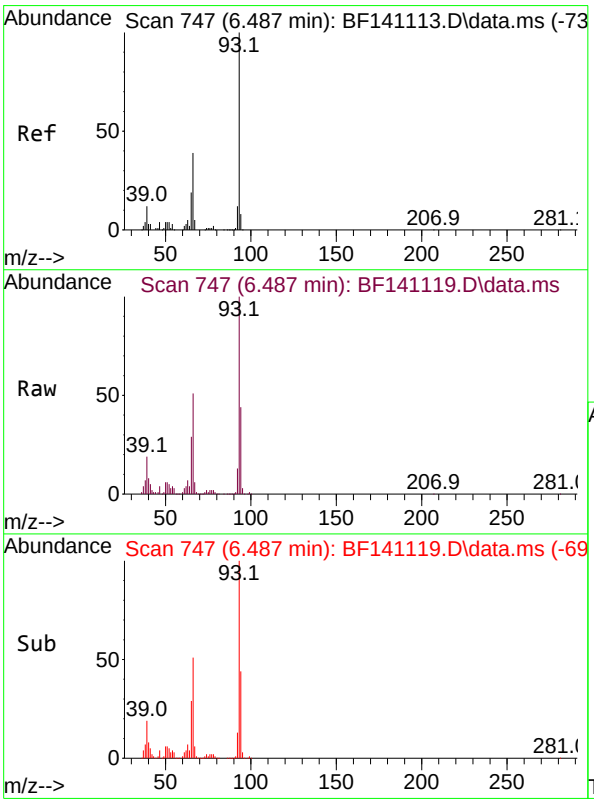
#5
2-Fluorophenol
Concen: 138.495 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 1544552

Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.3	70.9
63	31.3	24.2	36.2

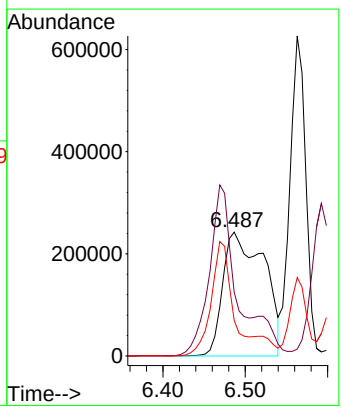


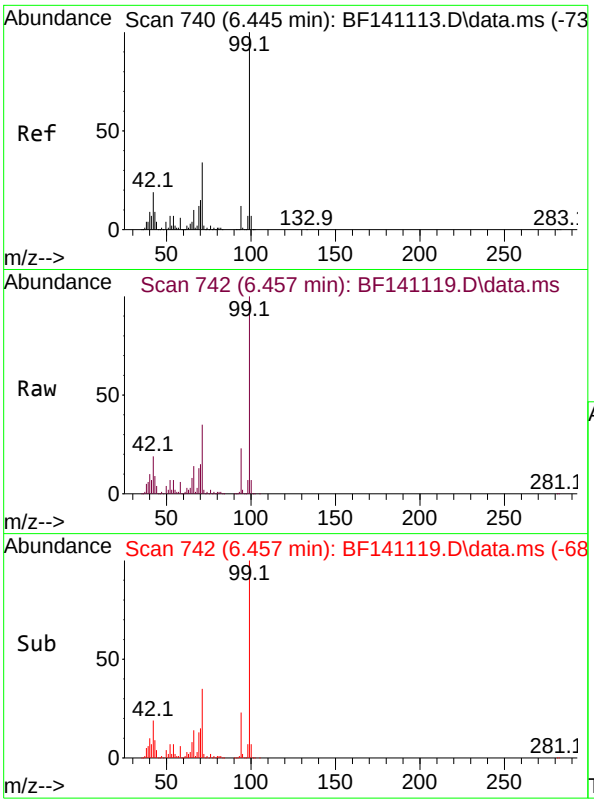


#6
Aniline
Concen: 67.145 ng m
RT: 6.487 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 93 Resp: 842164

Ion	Ratio	Lower	Upper
93	100		
66	51.4	31.5	47.3#
65	28.7	15.3	22.9#



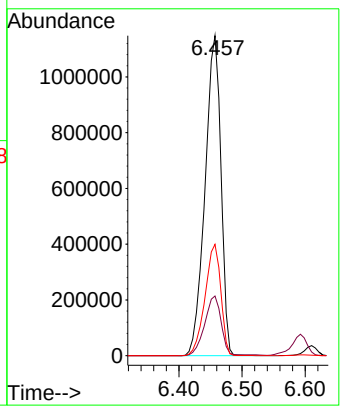


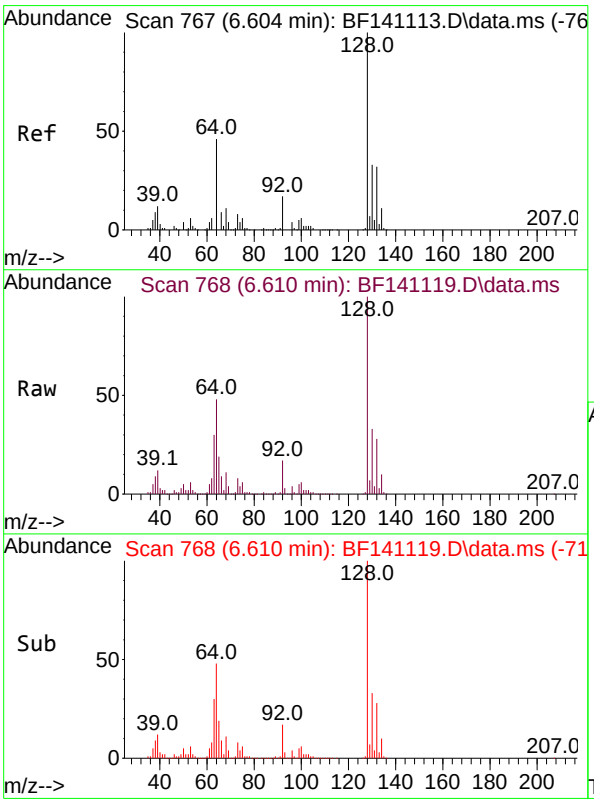
#7
Phenol-d6
Concen: 141.874 ng
RT: 6.457 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 2004230

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.0	22.4
71	34.8	27.6	41.4

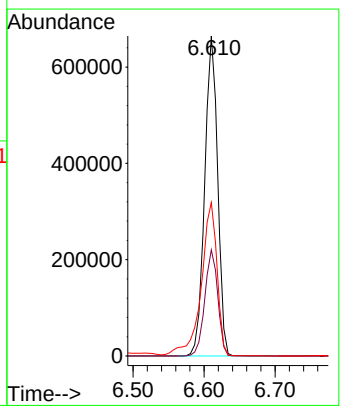




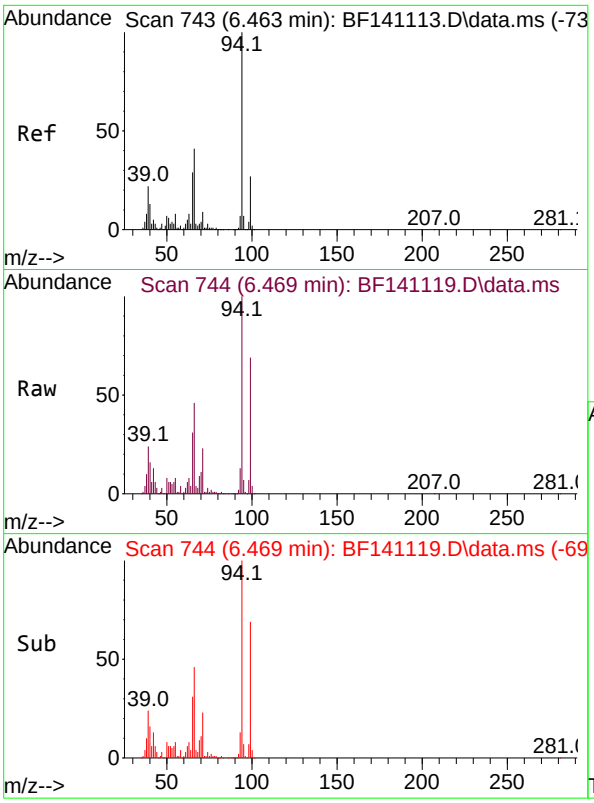
#8
2-Chlorophenol
Concen: 70.573 ng
RT: 6.610 min Scan# 768
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:128 Resp: 844417

Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.5	52.5
64	48.0	28.3	68.3



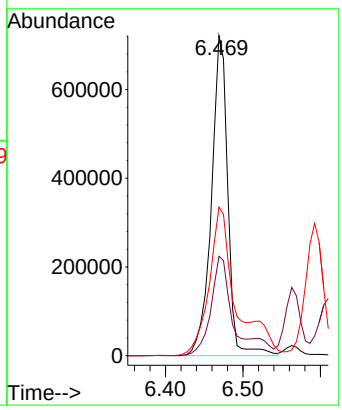
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

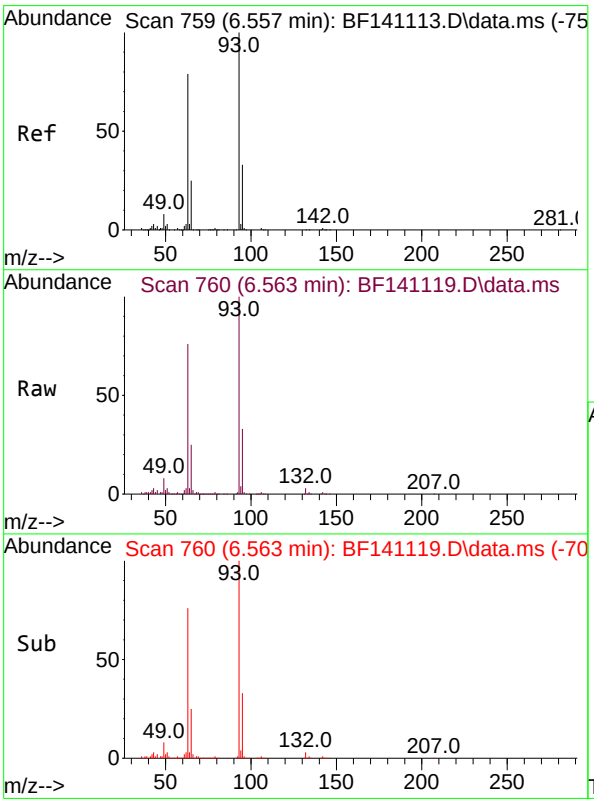


#10
Phenol
Concen: 70.563 ng
RT: 6.469 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 94 Resp: 1067075

Ion	Ratio	Lower	Upper
94	100		
65	31.1	8.9	48.9
66	46.4	21.2	61.2

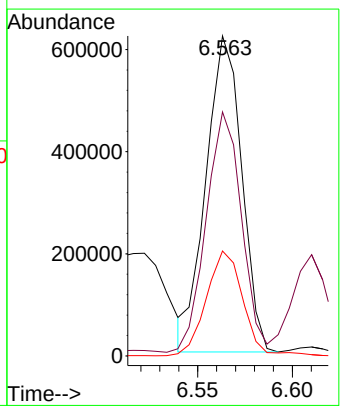


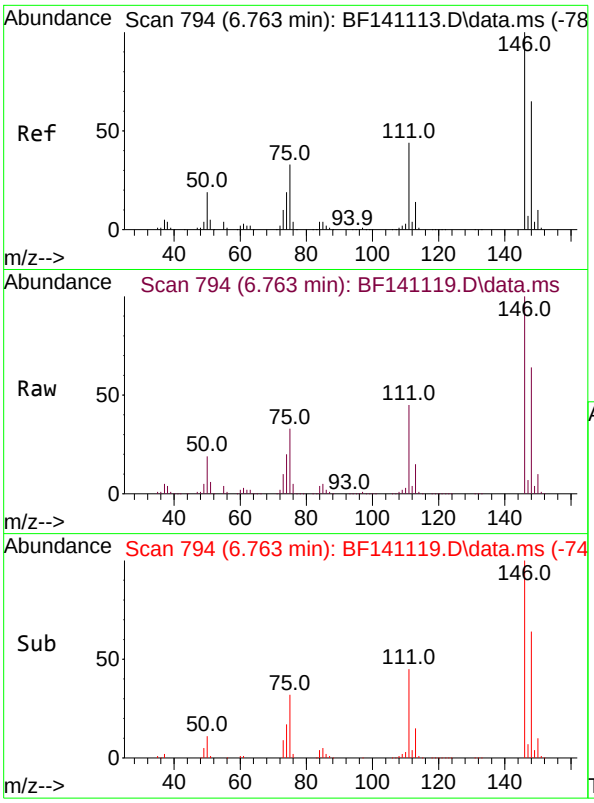


#11
bis(2-Chloroethyl)ether
Concen: 72.042 ng
RT: 6.563 min Scan# 760
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 93 Resp: 811905

Ion	Ratio	Lower	Upper
93	100		
63	76.2	58.0	98.0
95	32.8	12.5	52.5



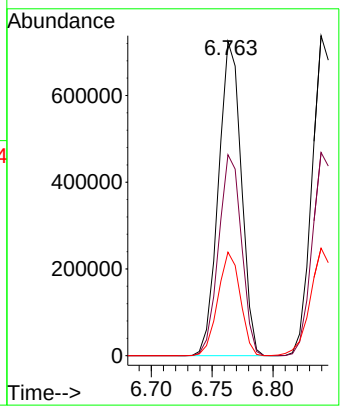


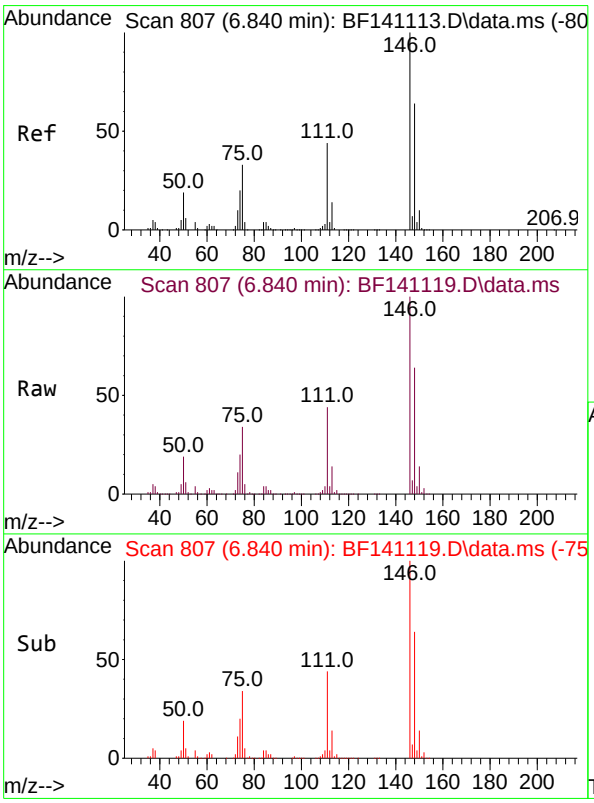
#12
1,3-Dichlorobenzene
Concen: 70.831 ng
RT: 6.763 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 945224

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
75	33.0	26.2	39.2

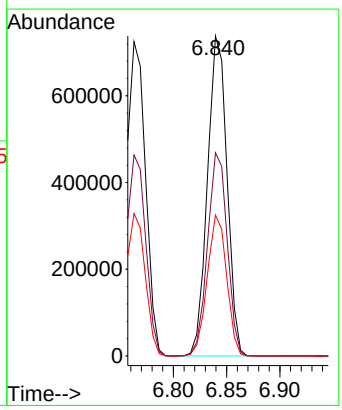


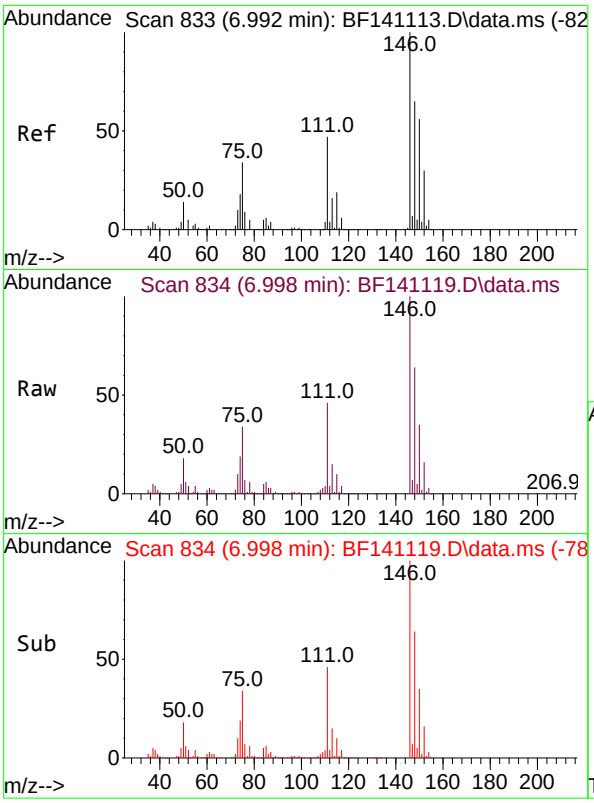


#13
1,4-Dichlorobenzene
Concen: 70.211 ng
RT: 6.840 min Scan# 807
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:146 Resp: 944179

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	44.1	34.9	52.3



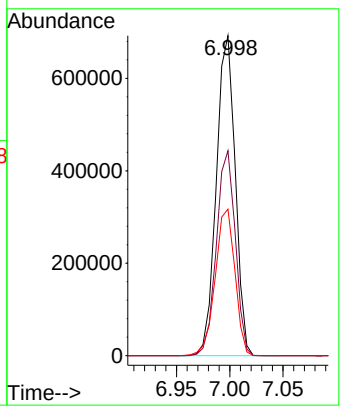


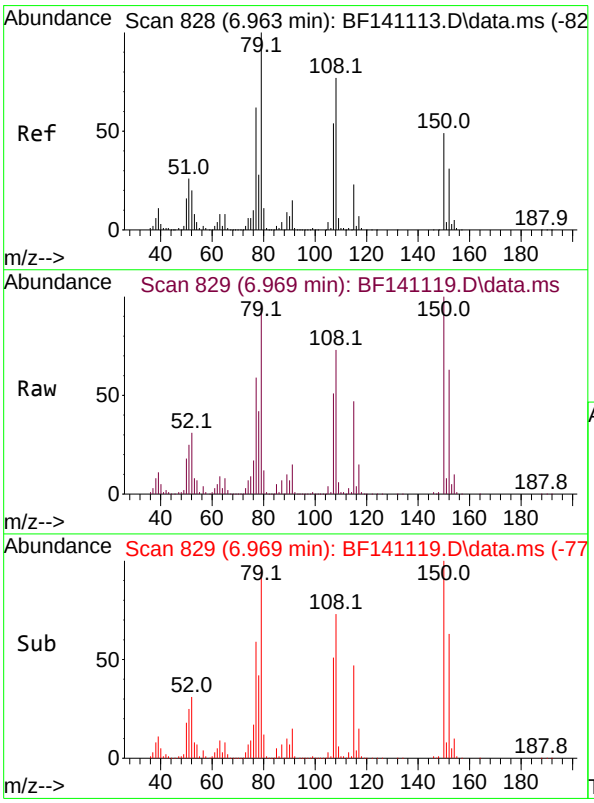
#14
1,2-Dichlorobenzene
Concen: 68.083 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 854029

Ion	Ratio	Lower	Upper
146	100		
148	64.0	52.2	78.4
111	45.8	37.5	56.3

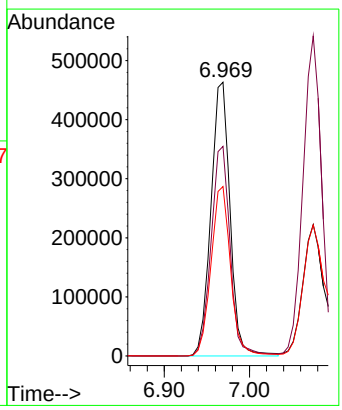


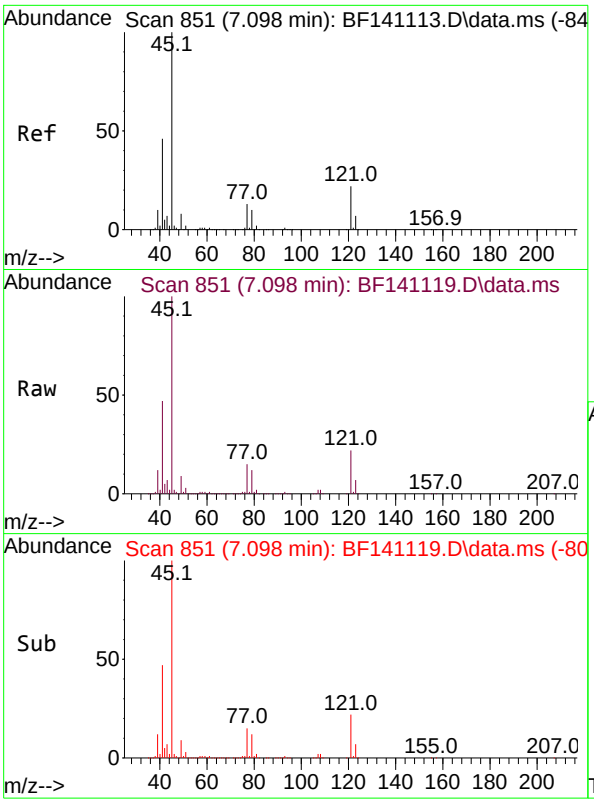


#15
Benzyl Alcohol
Concen: 70.781 ng
RT: 6.969 min Scan# 829
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 79 Resp: 722113

Ion	Ratio	Lower	Upper
79	100		
108	76.6	61.4	92.0
77	61.9	49.8	74.6



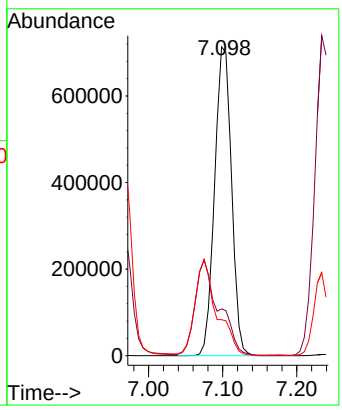


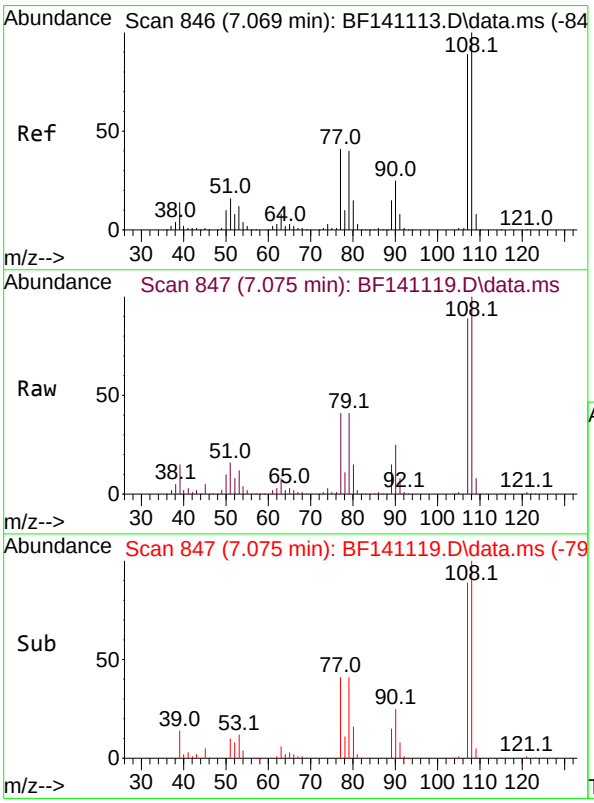
#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.848 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 45 Resp: 1129914

Ion	Ratio	Lower	Upper
45	100		
77	15.1	0.0	34.1
79	11.7	0.0	31.0

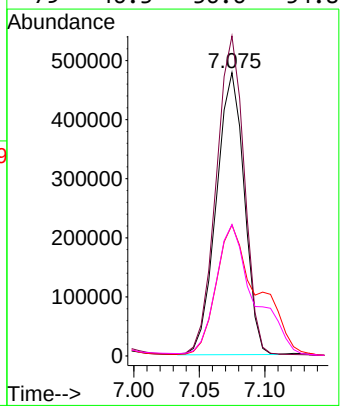


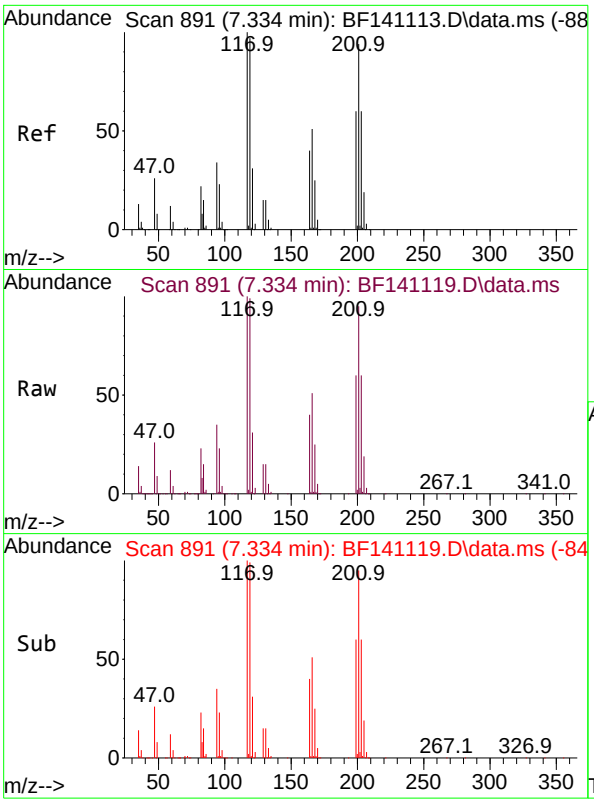


#17
2-Methylphenol
Concen: 73.257 ng
RT: 7.075 min Scan# 847
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:107 Resp: 707657

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.1	135.1
77	46.2	36.6	55.0
79	46.3	36.6	54.8



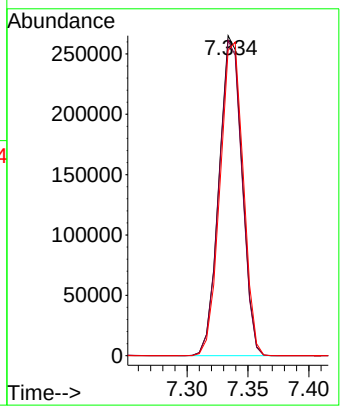


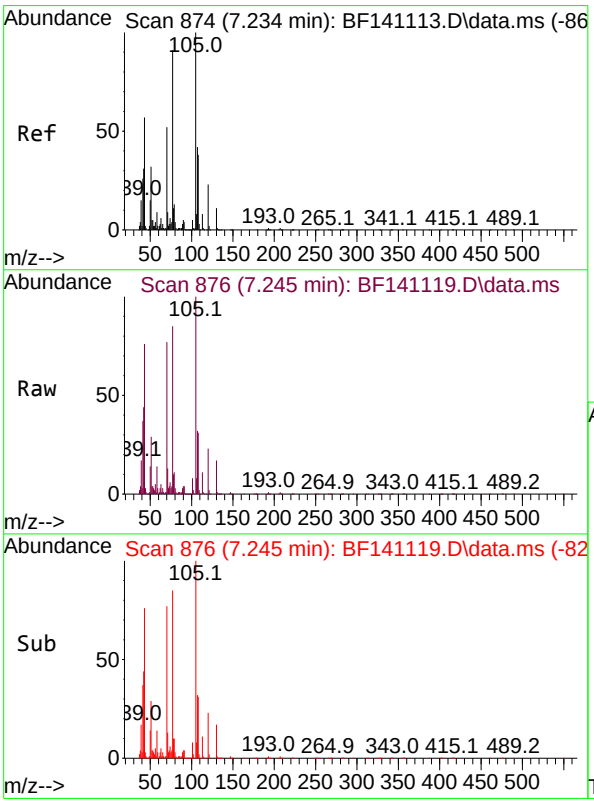
#18
Hexachloroethane
Concen: 71.795 ng
RT: 7.334 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:117 Resp: 349146

Ion	Ratio	Lower	Upper
117	100		
119	98.6	77.6	116.4
201	95.4	75.1	112.7

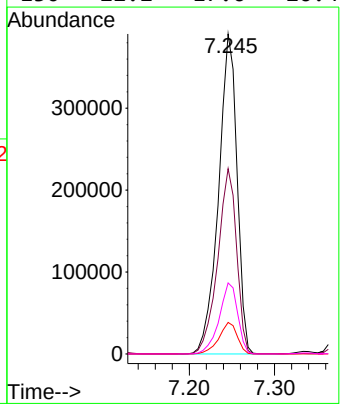


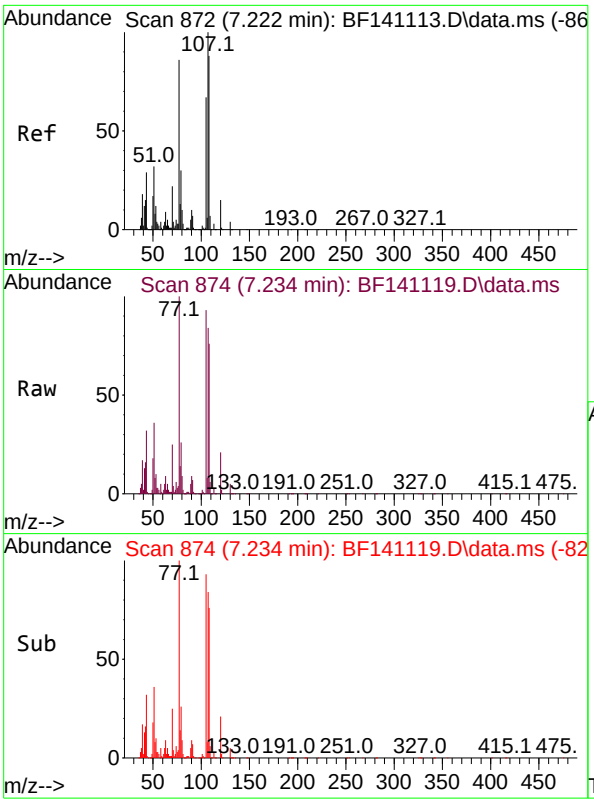


#19
n-Nitroso-di-n-propylamine
Concen: 70.753 ng
RT: 7.245 min Scan# 876
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 70 Resp: 588783

Ion	Ratio	Lower	Upper
70	100		
42	57.9	47.8	71.6
101	9.8	7.9	11.9
130	22.2	17.6	26.4



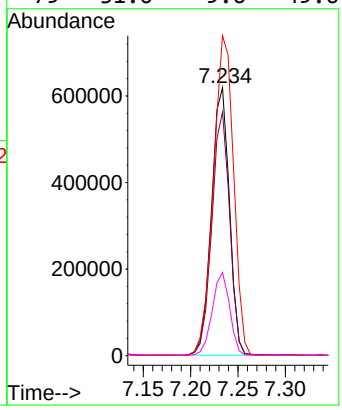


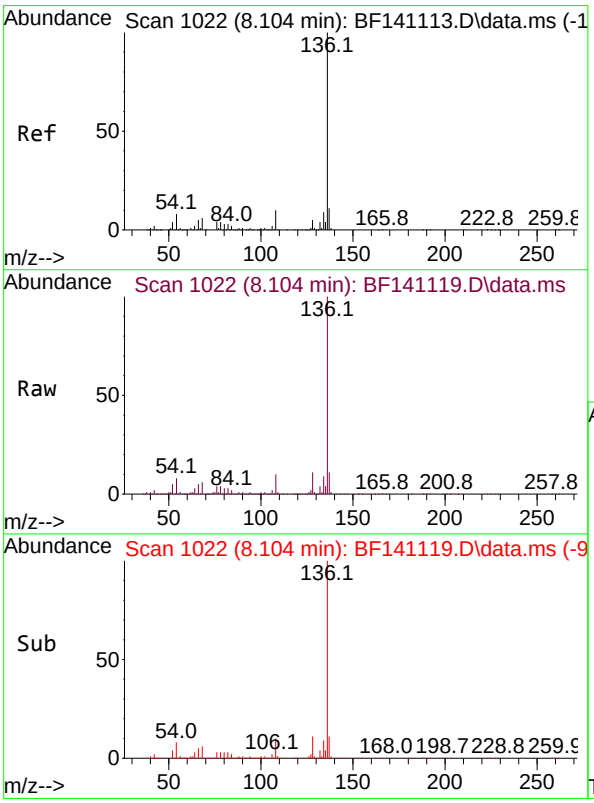
#20
3+4-Methylphenols
Concen: 66.732 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 813265

Ion	Ratio	Lower	Upper
107	100		
108	90.9	68.3	108.3
77	119.4	66.4	106.4#
79	31.0	9.6	49.6

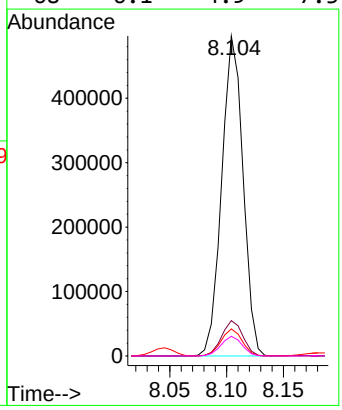


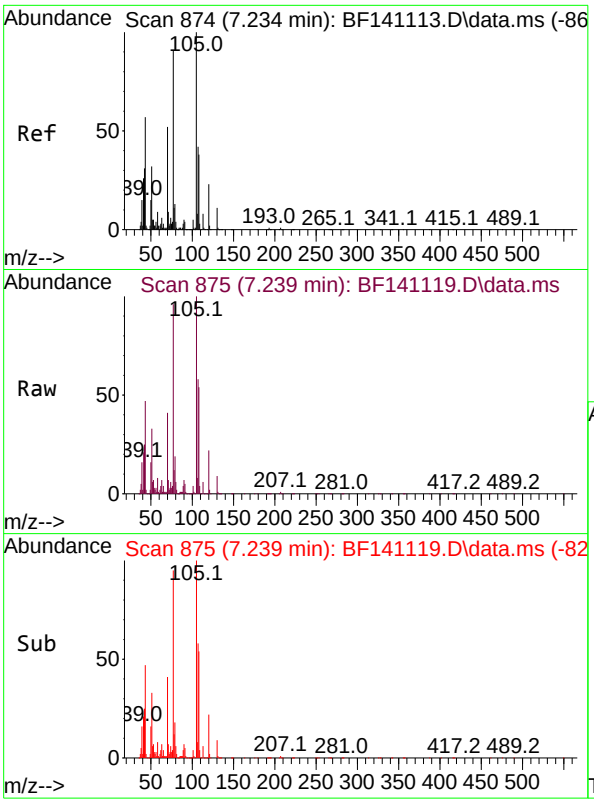


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:136 Resp: 648826

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	8.5	6.3	9.5
68	6.1	4.9	7.3



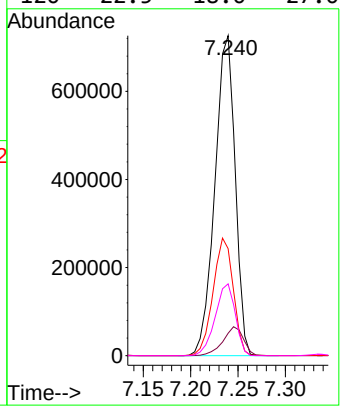


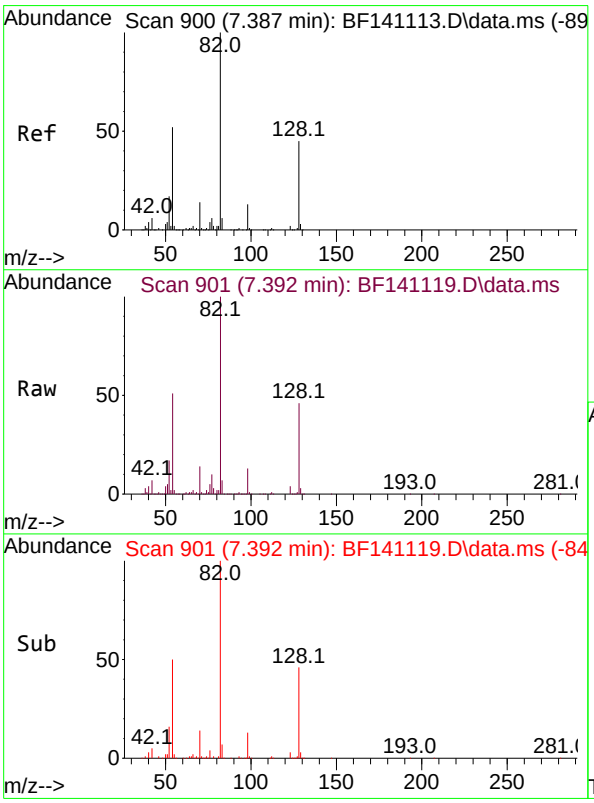
#22
Acetophenone
Concen: 70.218 ng
RT: 7.239 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:105 Resp: 1083059

Ion	Ratio	Lower	Upper
105	100		
71	7.0	7.1	10.7#
51	33.5	25.4	38.2
120	22.5	18.0	27.0

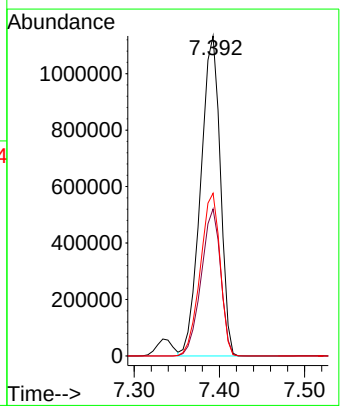


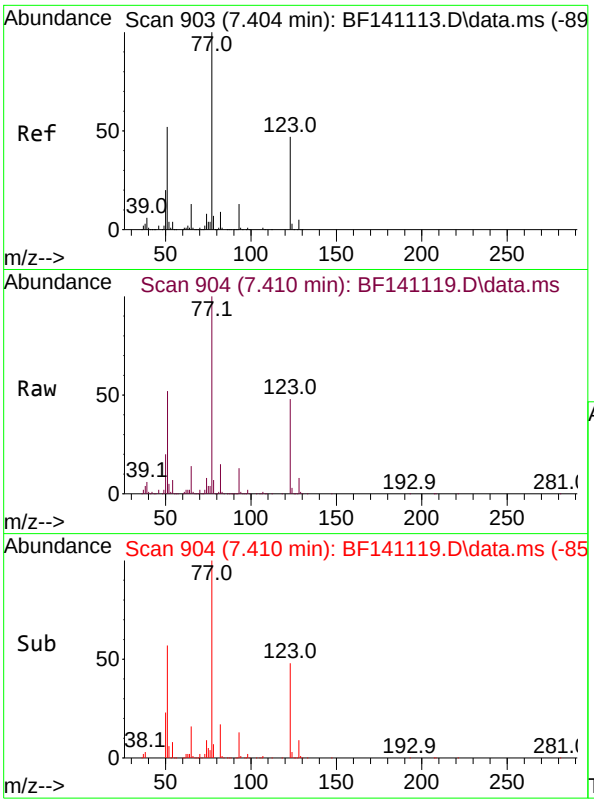


#23
Nitrobenzene-d5
Concen: 148.154 ng
RT: 7.392 min Scan# 901
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 82 Resp: 1813409

Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.1	54.1
54	50.9	41.0	61.4



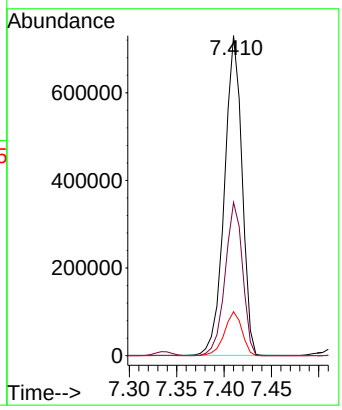


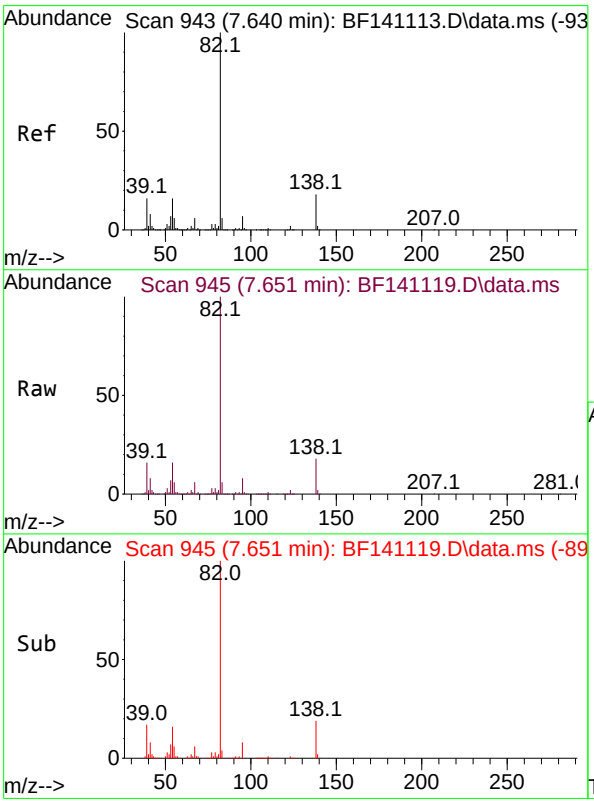
#24
Nitrobenzene
Concen: 73.960 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 943483

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.7	56.5
65	13.7	10.6	16.0

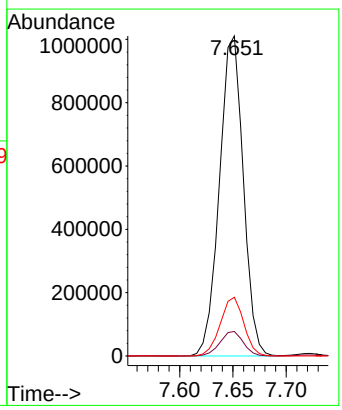


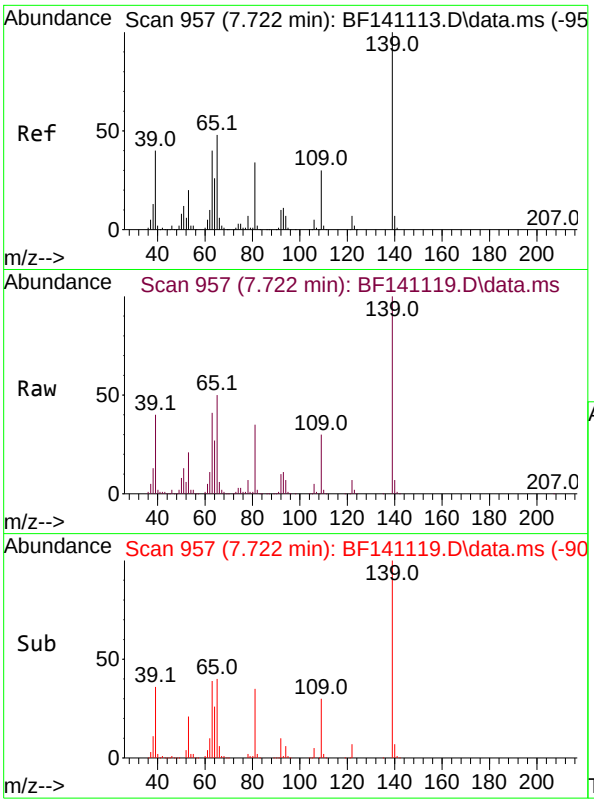


#25
Isophorone
Concen: 75.124 ng
RT: 7.651 min Scan# 945
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 82 Resp: 1571424

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.9	8.9
138	18.4	14.2	21.2



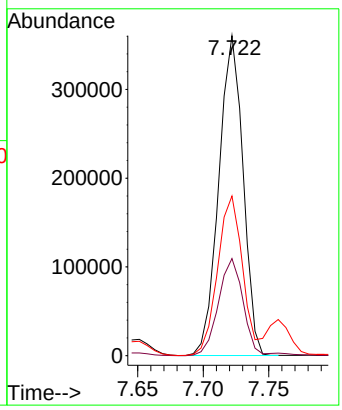


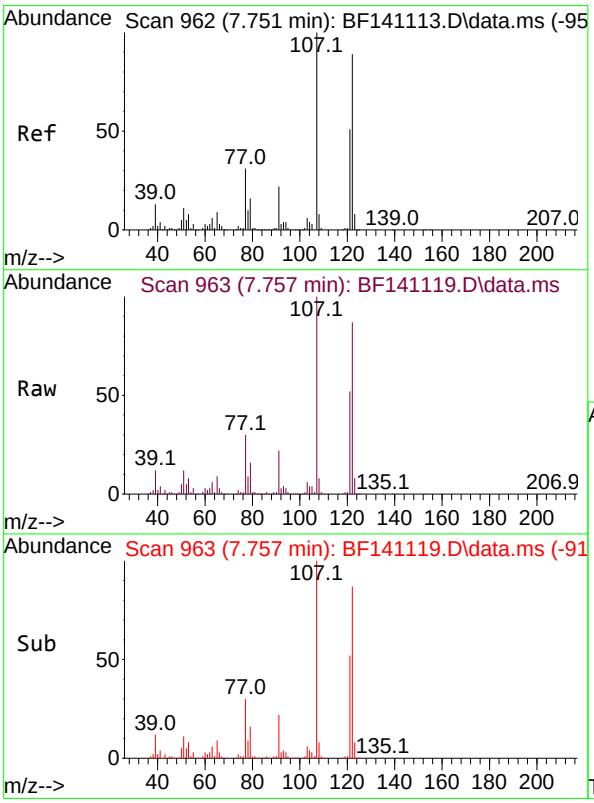
#26
2-Nitrophenol
Concen: 79.834 ng
RT: 7.722 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 463267

Ion	Ratio	Lower	Upper
139	100		
109	30.3	23.8	35.6
65	49.9	38.5	57.7

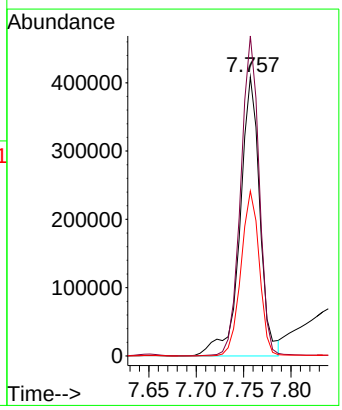


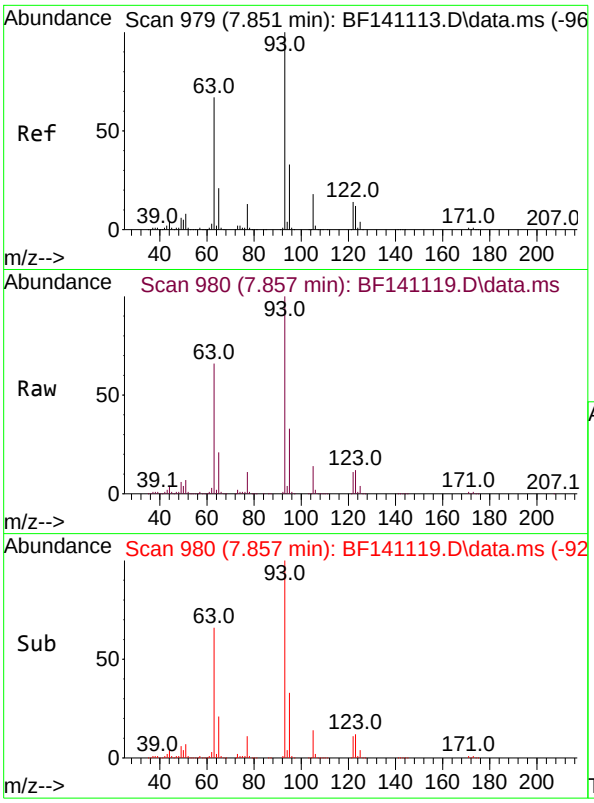


#27
2,4-Dimethylphenol
Concen: 75.959 ng
RT: 7.757 min Scan# 963
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:122 Resp: 594544

Ion	Ratio	Lower	Upper
122	100		
107	114.7	90.3	135.5
121	59.1	46.5	69.7



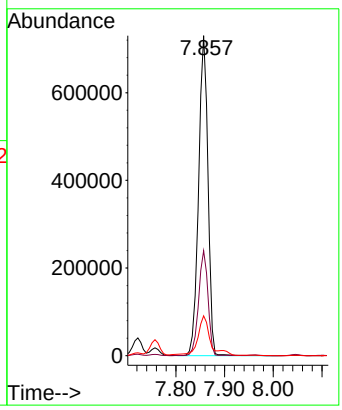


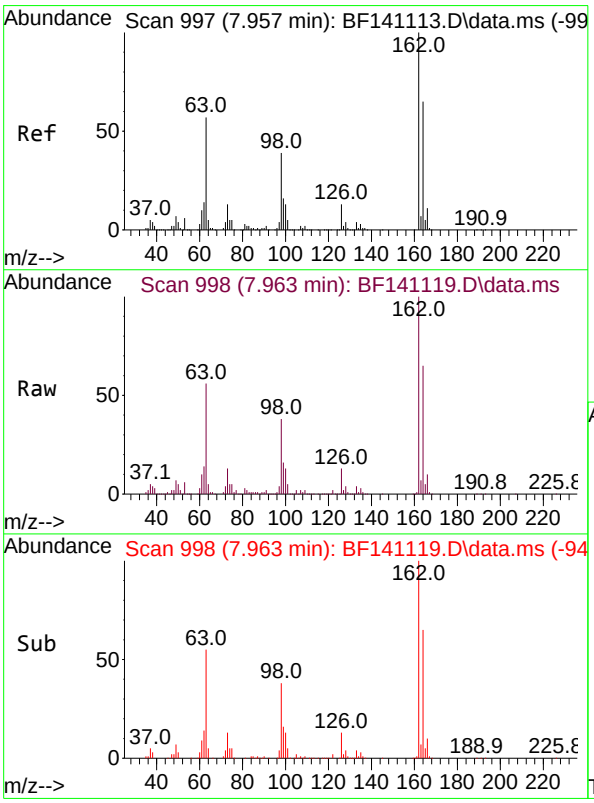
#28
bis(2-Chloroethoxy)methane
Concen: 74.449 ng
RT: 7.857 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 977334

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.2	39.4
123	12.5	10.1	15.1

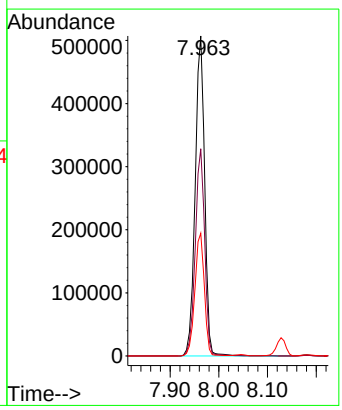


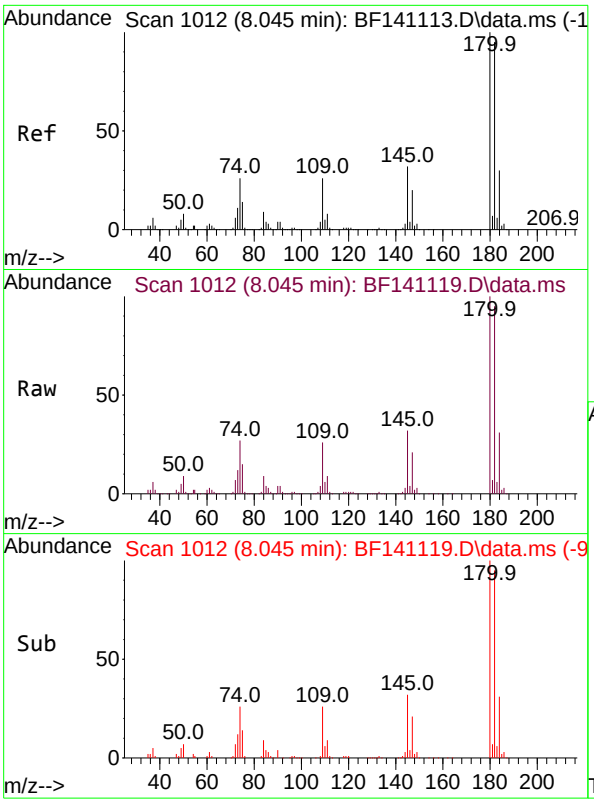


#29
2,4-Dichlorophenol
Concen: 74.162 ng
RT: 7.963 min Scan# 998
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:162 Resp: 689420

Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.5	84.5
98	38.3	18.5	58.5



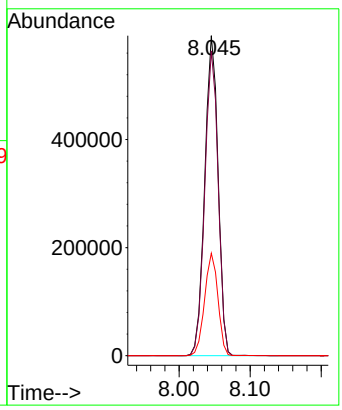


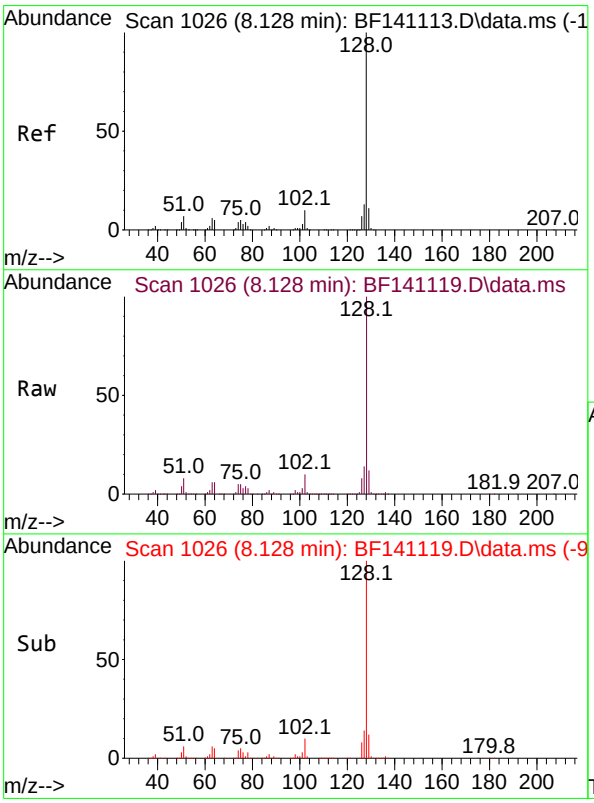
#30
1,2,4-Trichlorobenzene
Concen: 73.098 ng
RT: 8.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:180 Resp: 776721

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
145	32.0	25.3	37.9

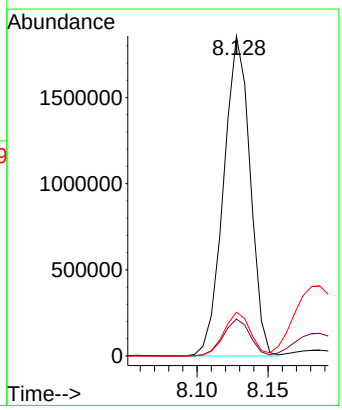


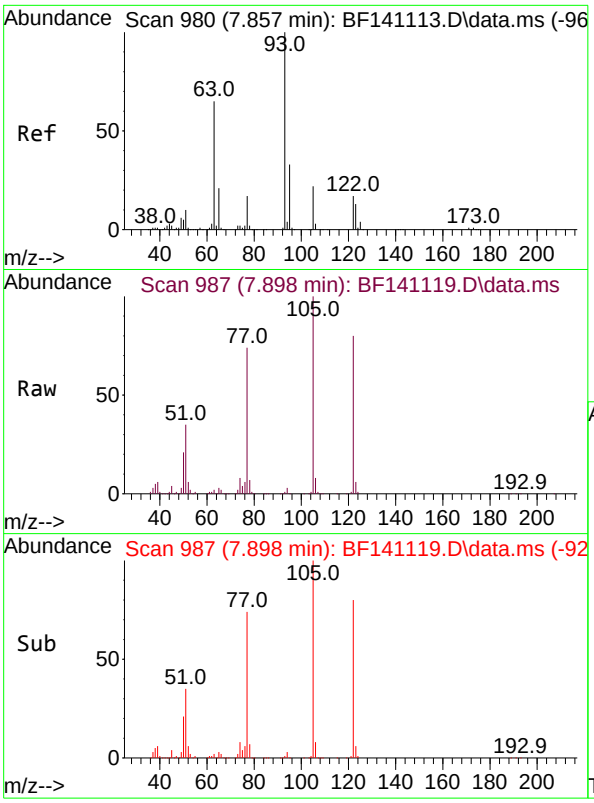


#31
Naphthalene
Concen: 70.480 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:128 Resp: 2411578

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.6
127	13.6	10.8	16.2



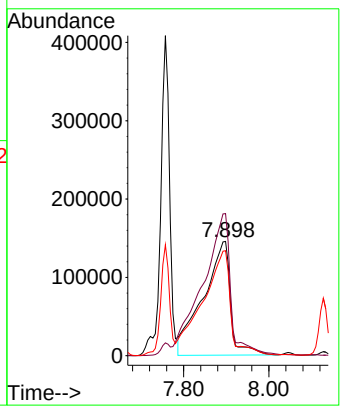


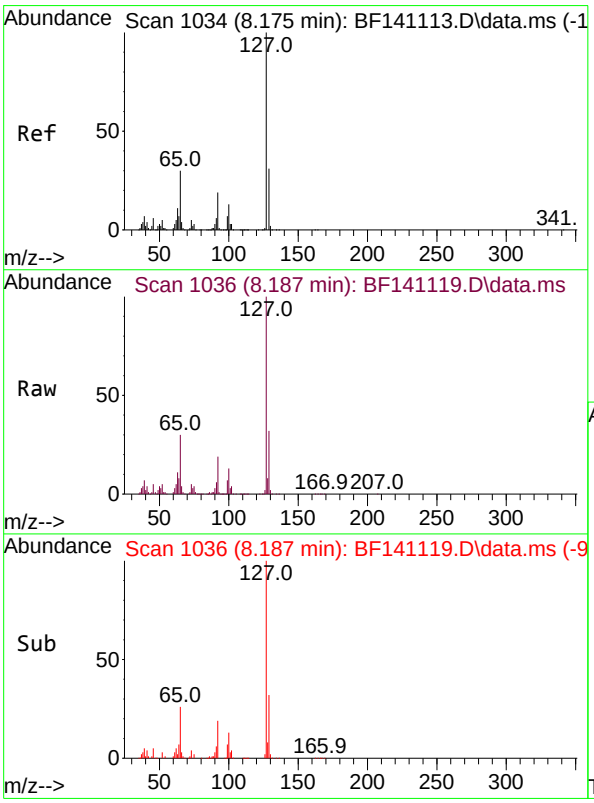
#32
Benzoic acid
Concen: 86.411 ng
RT: 7.898 min Scan# 9
Delta R.T. 0.041 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 648810

Ion	Ratio	Lower	Upper
122	100		
105	124.5	105.5	145.5
77	91.9	75.1	115.1

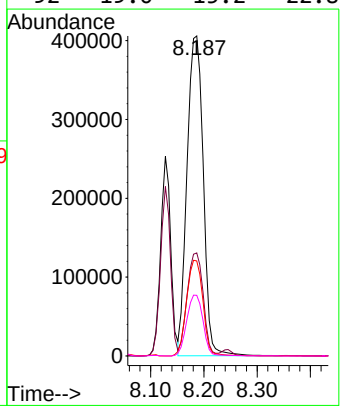


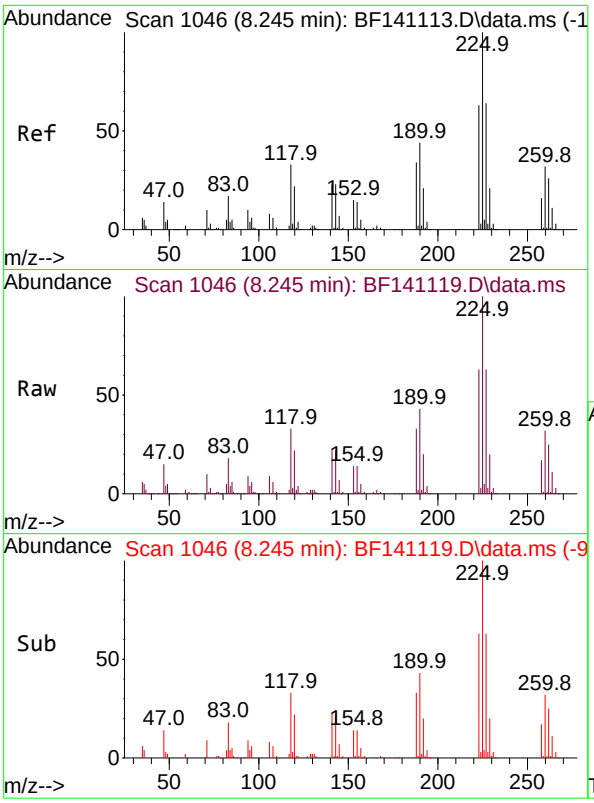


#33
4-Chloroaniline
Concen: 72.688 ng
RT: 8.187 min Scan# 1036
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:127 Resp: 860135

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.9	38.9
65	29.7	23.8	35.8
92	19.0	15.2	22.8



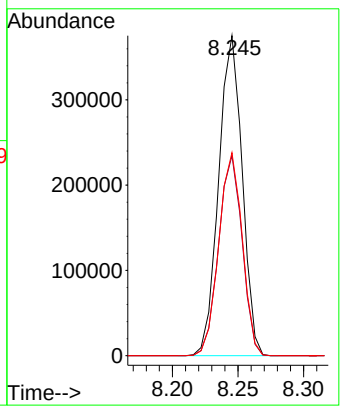


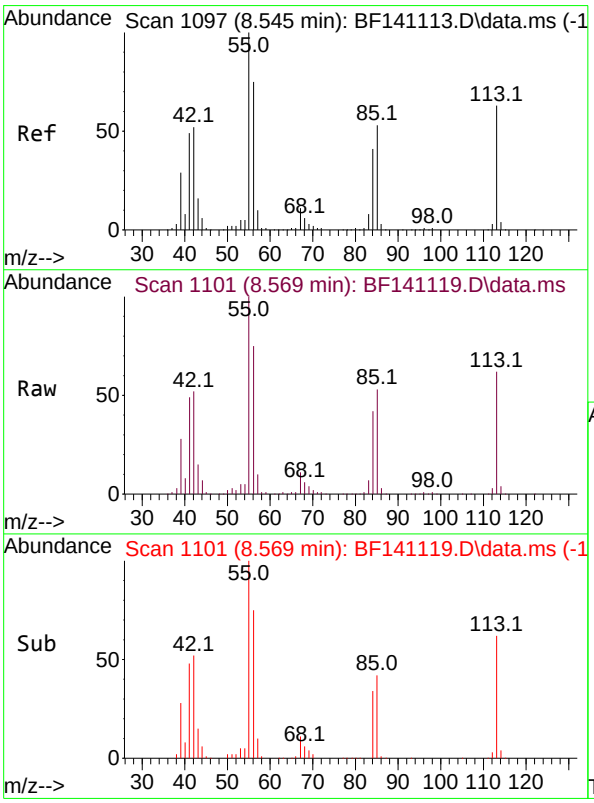
#34
Hexachlorobutadiene
Concen: 72.969 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:225 Resp: 467194

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.6	76.0
227	63.4	51.6	77.4

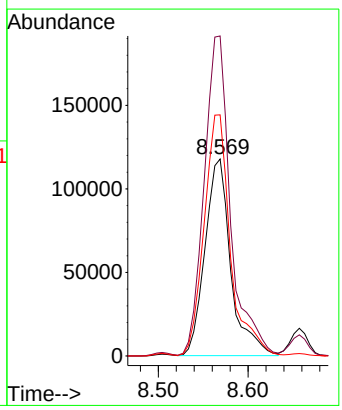


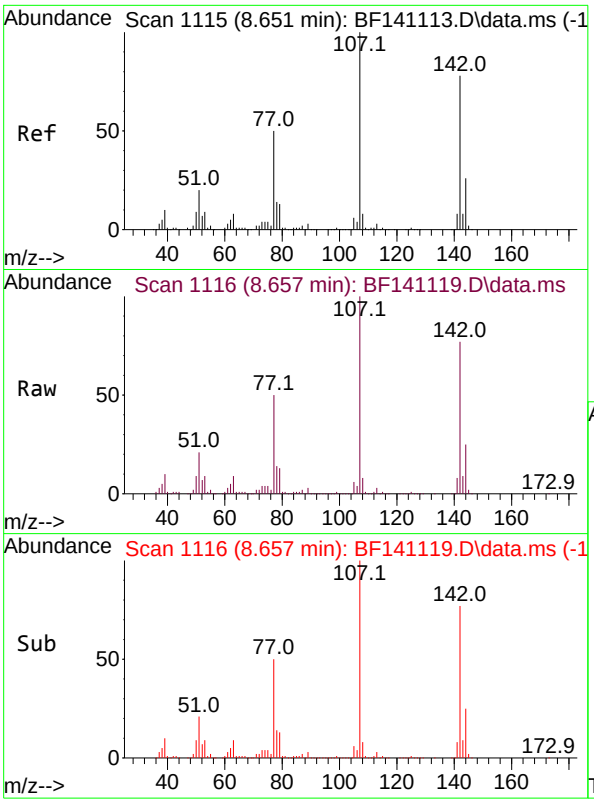


#35
Caprolactam
Concen: 77.436 ng
RT: 8.569 min Scan# 1101
Delta R.T. 0.024 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:113 Resp: 236127

Ion	Ratio	Lower	Upper
113	100		
55	162.5	139.7	179.7
56	122.5	99.4	139.4



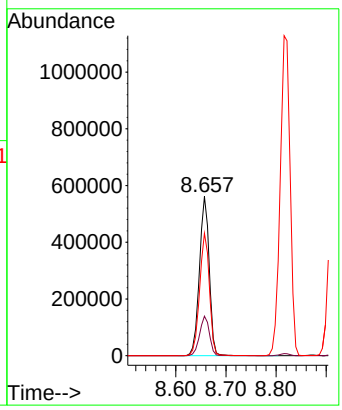


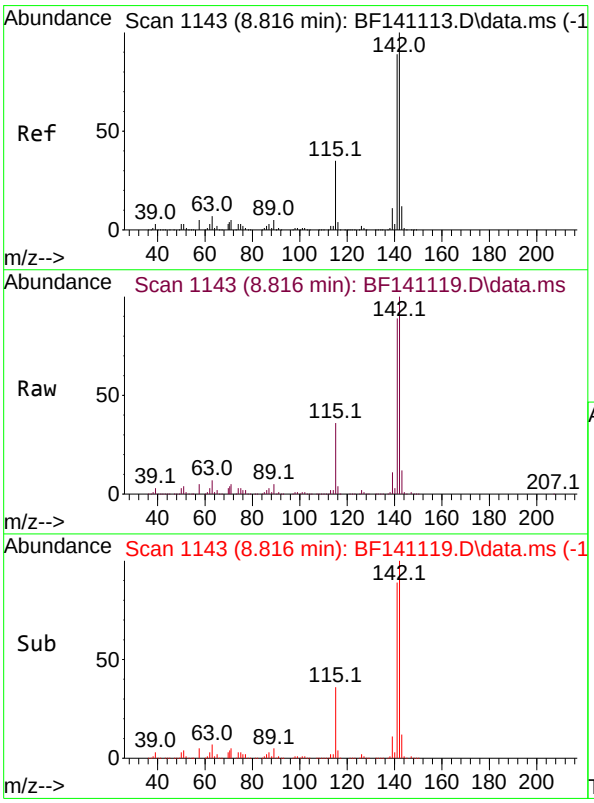
#36
4-Chloro-3-methylphenol
Concen: 74.822 ng
RT: 8.657 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 760692

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.4	30.6
142	76.8	62.2	93.2

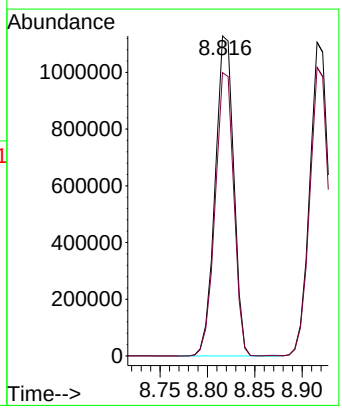


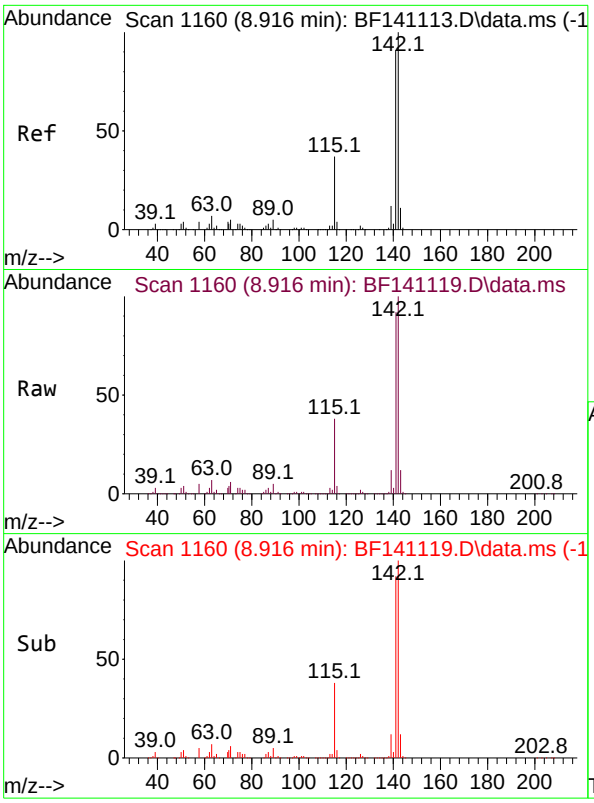


#37
2-Methylnaphthalene
Concen: 70.820 ng
RT: 8.816 min Scan# 1143
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:142 Resp: 1544153

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.3	106.9



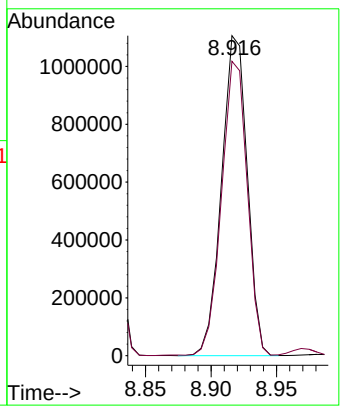


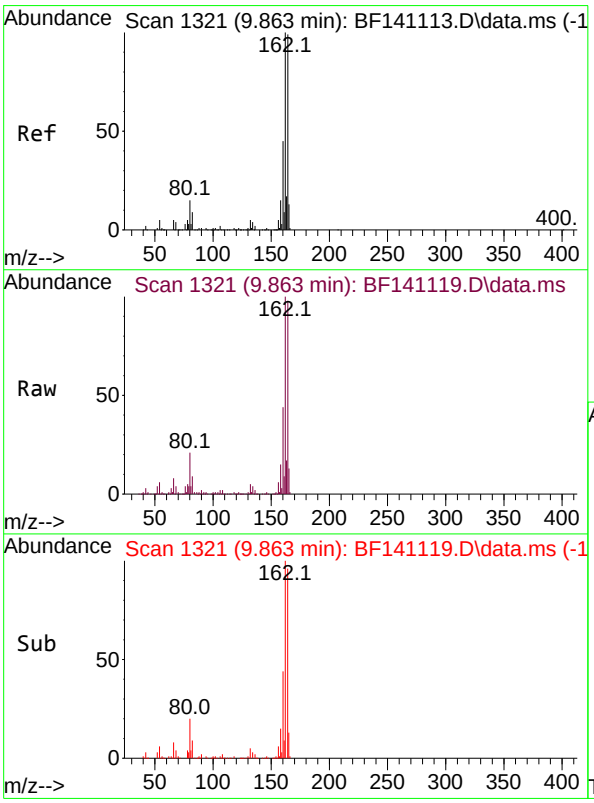
#38
1-Methylnaphthalene
Concen: 70.172 ng
RT: 8.916 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 1507881

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7

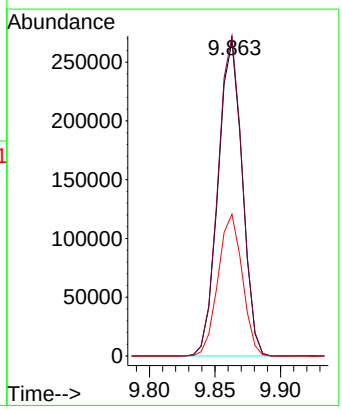


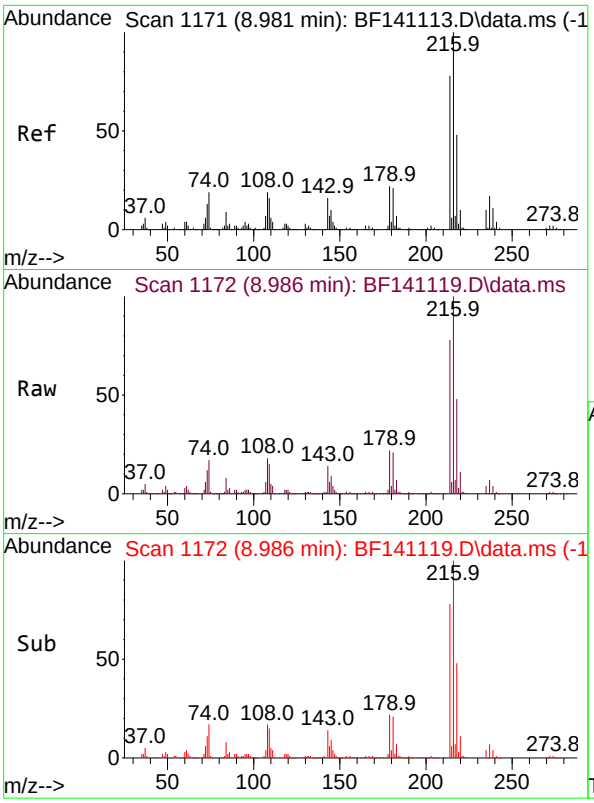


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:164 Resp: 342460

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.0	121.4
160	45.1	36.1	54.1



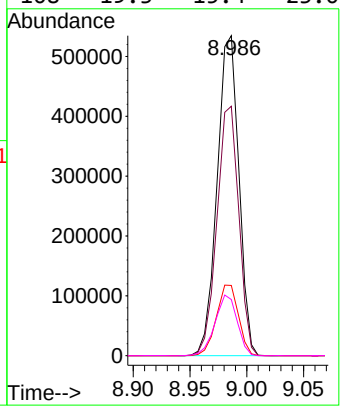


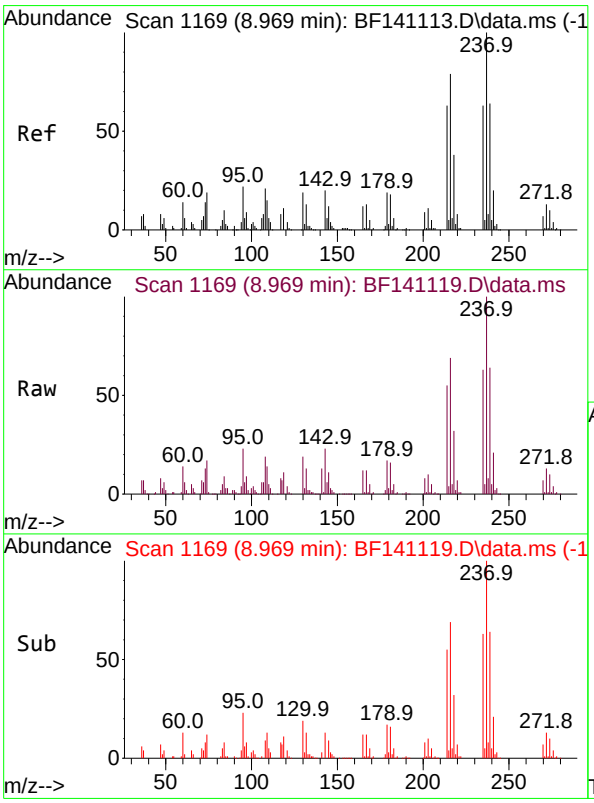
#40
1,2,4,5-Tetrachlorobenzene
Concen: 72.478 ng
RT: 8.986 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:216 Resp: 712407

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.6	94.0
179	22.4	17.7	26.5
108	19.3	15.4	23.0

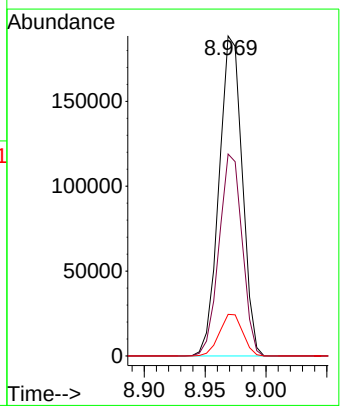


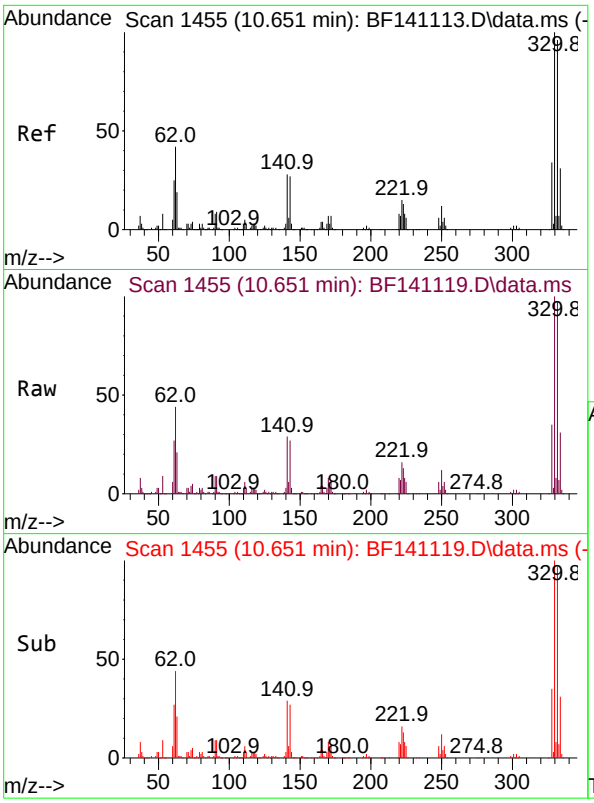


#41
Hexachlorocyclopentadiene
Concen: 77.724 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:237 Resp: 249944

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.0	83.0
272	13.0	0.0	33.0



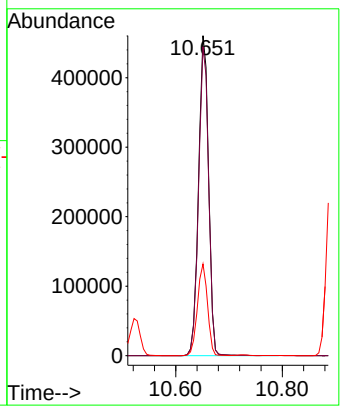


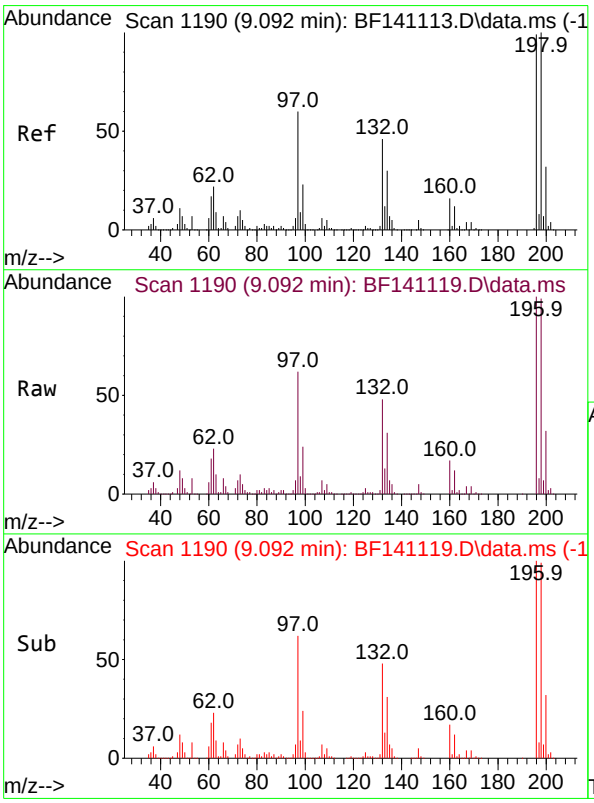
#42
2,4,6-Tribromophenol
Concen: 154.132 ng
RT: 10.651 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:330 Resp: 601438

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.9	115.3
141	28.9	25.2	37.8

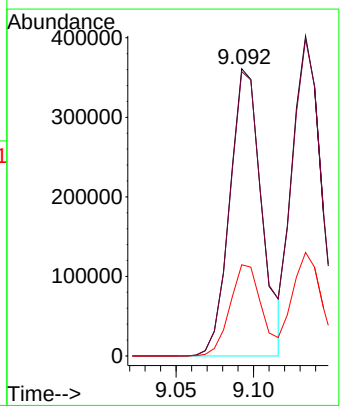


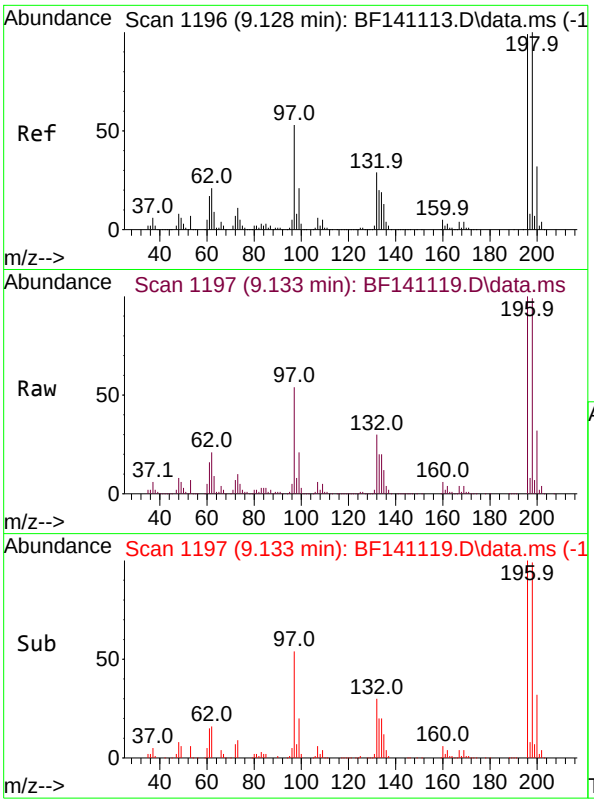


#43
2,4,6-Trichlorophenol
Concen: 77.920 ng
RT: 9.092 min Scan# 1190
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:196 Resp: 516551

Ion	Ratio	Lower	Upper
196	100		
198	99.0	80.8	121.2
200	31.7	25.7	38.5



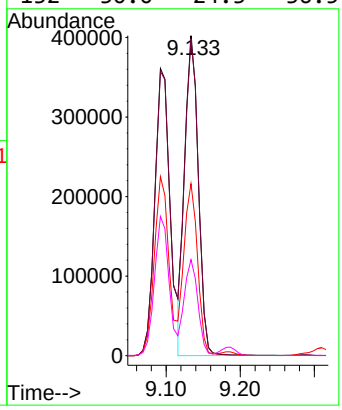


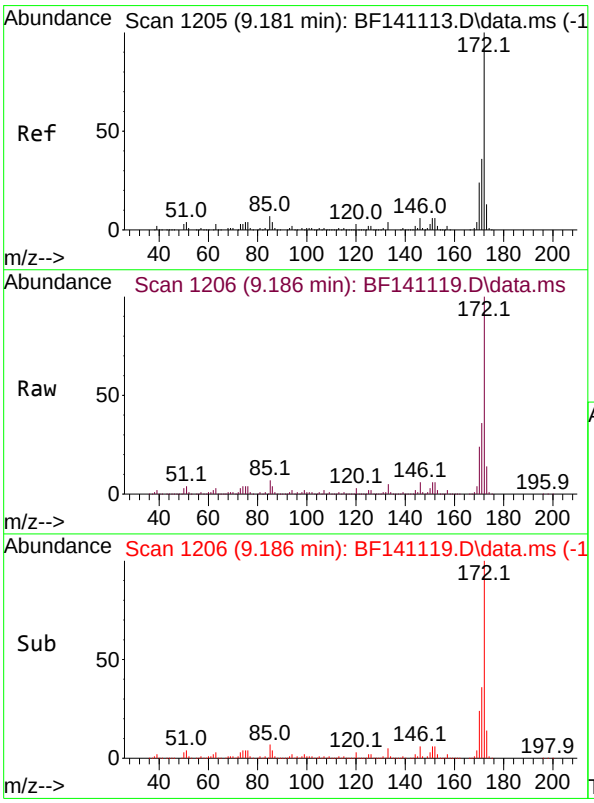
#44
2,4,5-Trichlorophenol
Concen: 73.839 ng
RT: 9.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 516966

Ion	Ratio	Lower	Upper
196	100		
198	99.1	80.6	120.8
97	53.8	43.1	64.7
132	30.0	24.3	36.5

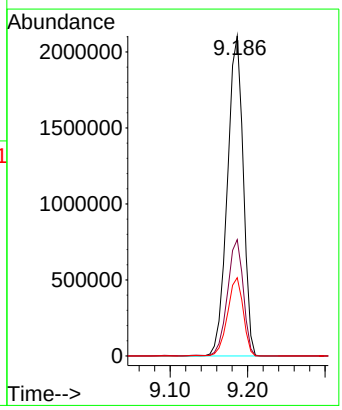


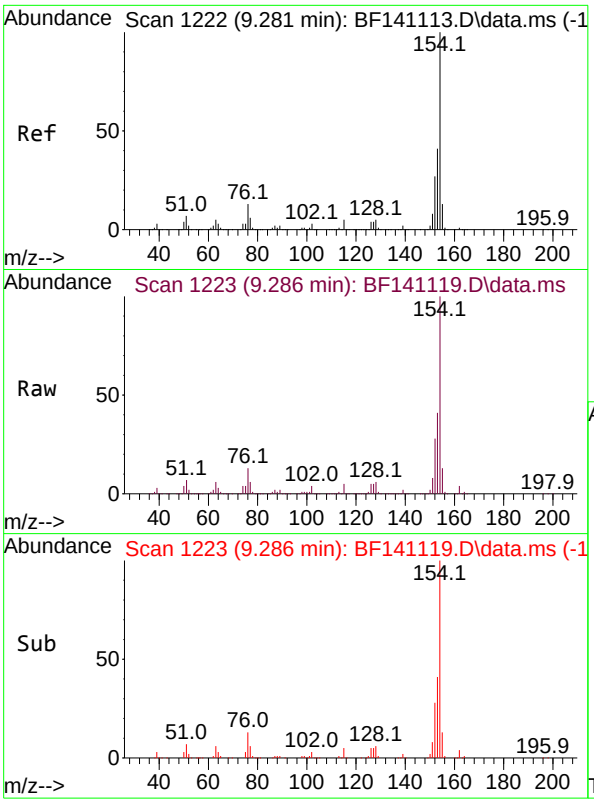


#45
2-Fluorobiphenyl
Concen: 133.666 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:172 Resp: 2997639

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.7	43.1
170	24.4	19.0	28.6



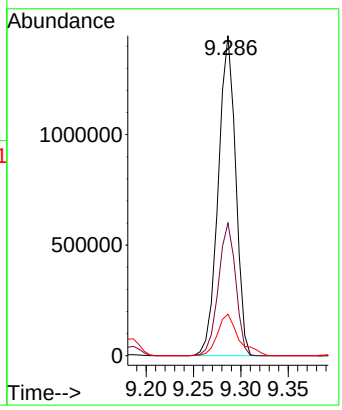


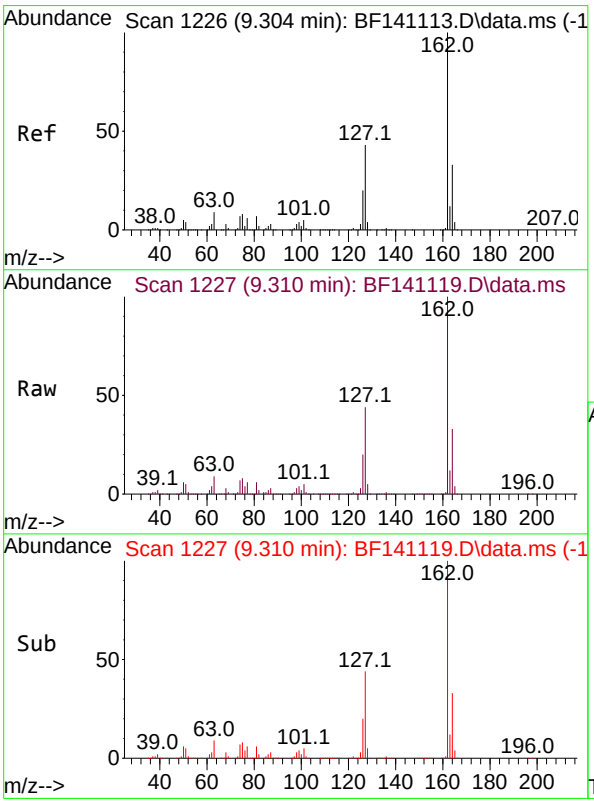
#46
1,1'-Biphenyl
Concen: 69.734 ng
RT: 9.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 1854615

Ion	Ratio	Lower	Upper
154	100		
153	41.4	20.7	60.7
76	12.9	0.0	33.1

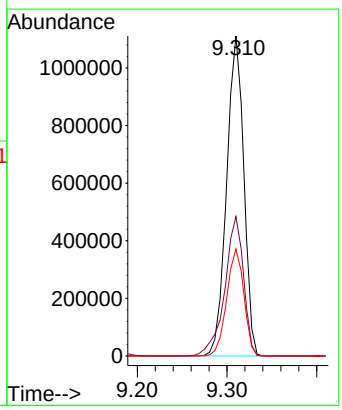


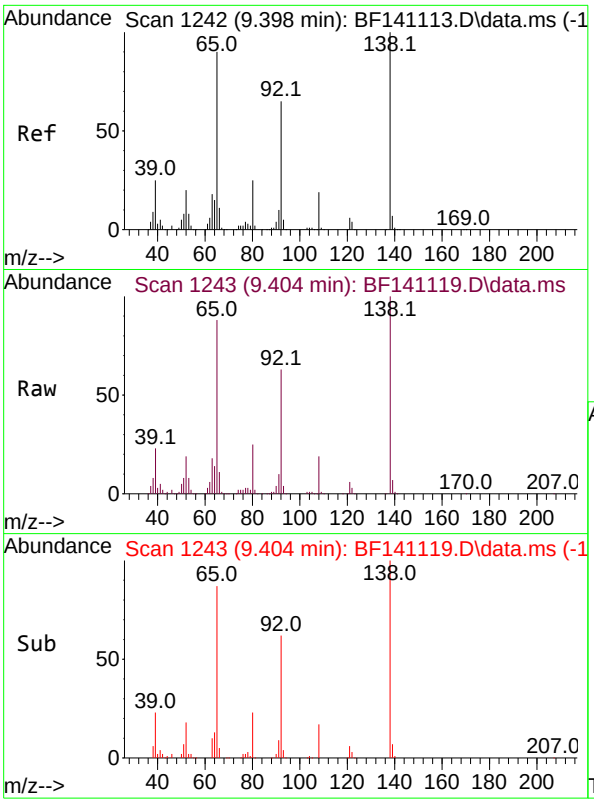


#47
2-Chloronaphthalene
Concen: 71.352 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:162 Resp: 1478014

Ion	Ratio	Lower	Upper
162	100		
127	43.6	34.6	51.8
164	33.4	26.5	39.7



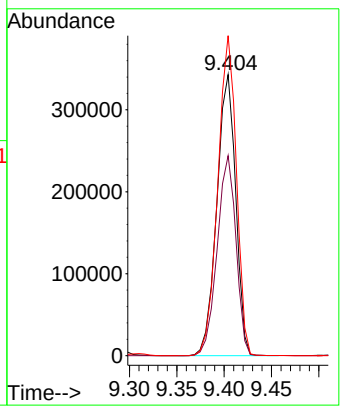


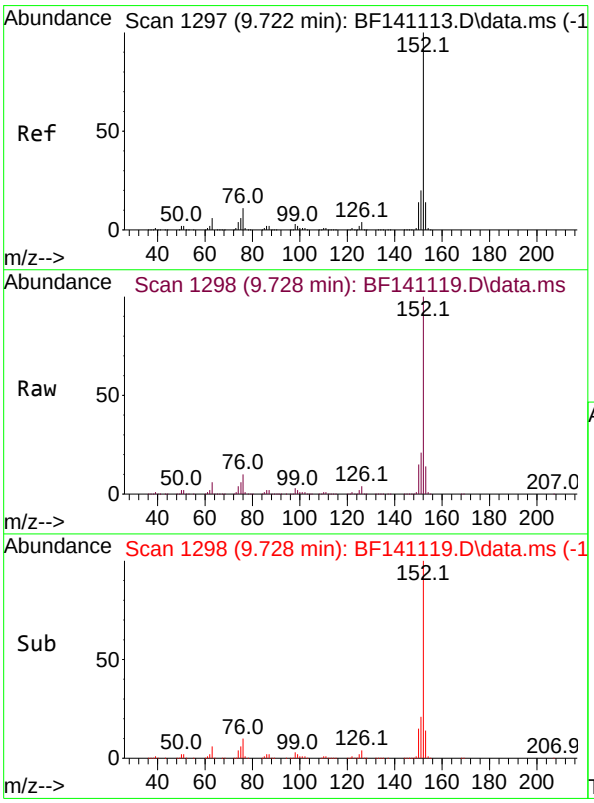
#48
2-Nitroaniline
Concen: 77.400 ng
RT: 9.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 65 Resp: 475269

Ion	Ratio	Lower	Upper
65	100		
92	71.1	58.3	87.5
138	113.8	89.1	133.7

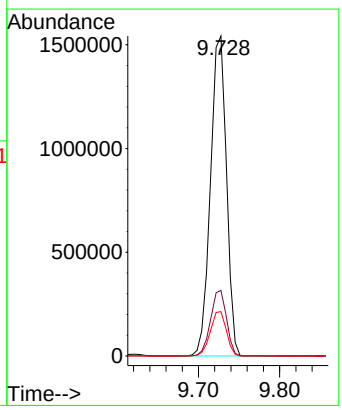


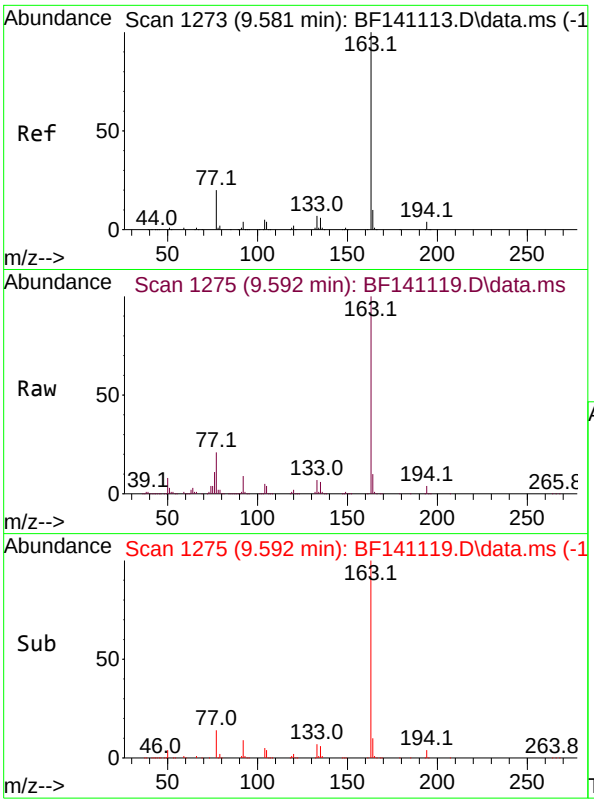


#49
Acenaphthylene
Concen: 71.297 ng
RT: 9.728 min Scan# 1298
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:152 Resp: 2110029

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	13.8	11.1	16.7



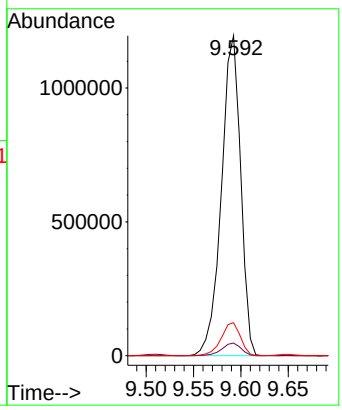


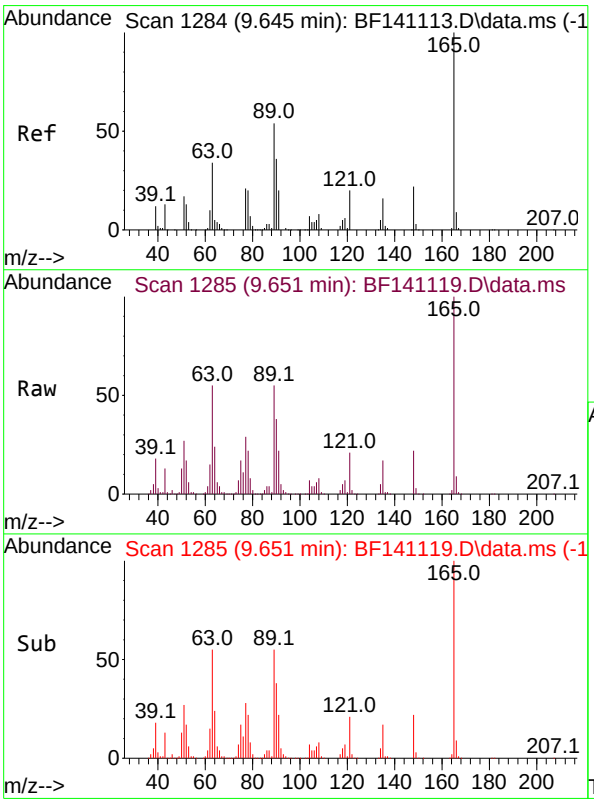
#50
Dimethylphthalate
Concen: 73.435 ng
RT: 9.592 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:163 Resp: 1688321

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.4

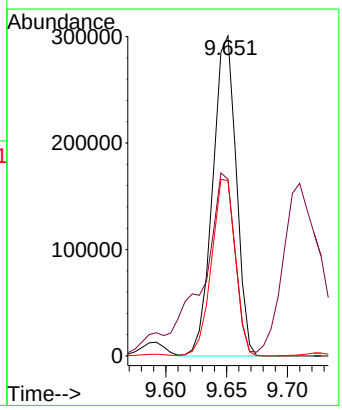


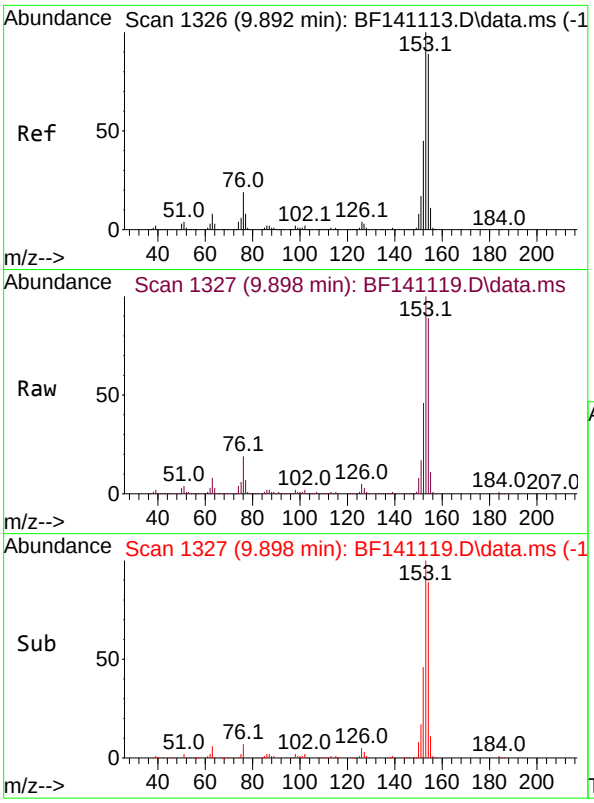


#51
2,6-Dinitrotoluene
Concen: 75.439 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:165 Resp: 403325

Ion	Ratio	Lower	Upper
165	100		
63	55.2	42.3	63.5
89	54.8	43.1	64.7



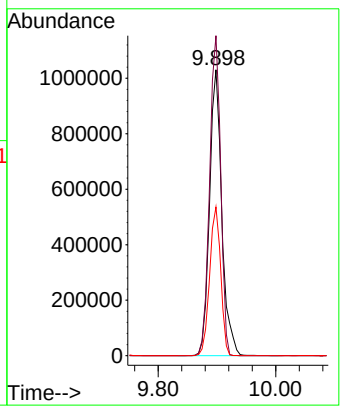


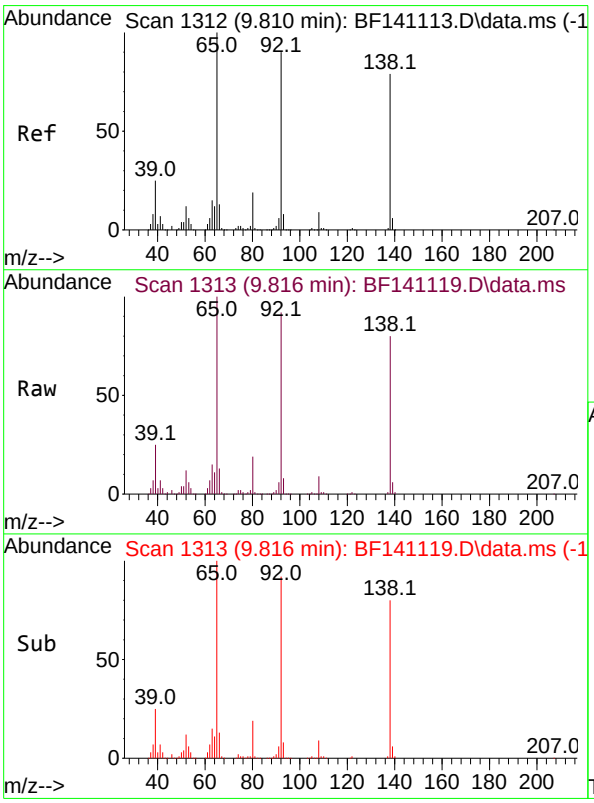
#52
Acenaphthene
Concen: 71.956 ng
RT: 9.898 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 1487806

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.8	134.6
152	52.0	40.8	61.2

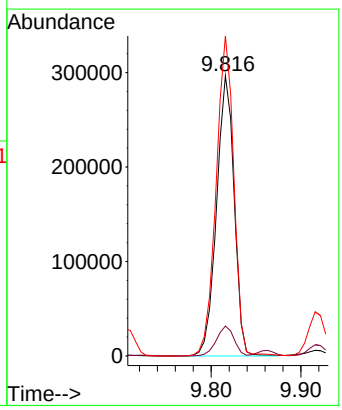


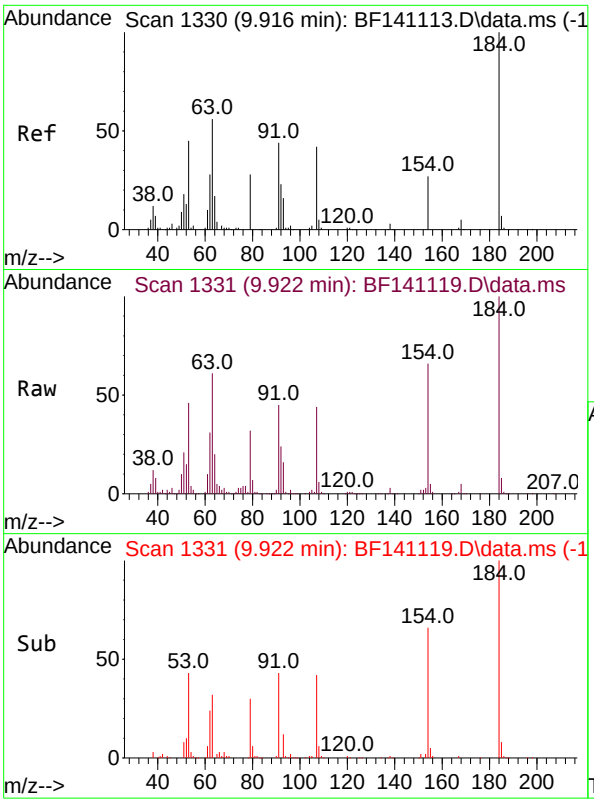


#53
3-Nitroaniline
Concen: 74.366 ng
RT: 9.816 min Scan# 1313
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:138 Resp: 404031

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.8	13.2
92	114.2	91.3	136.9



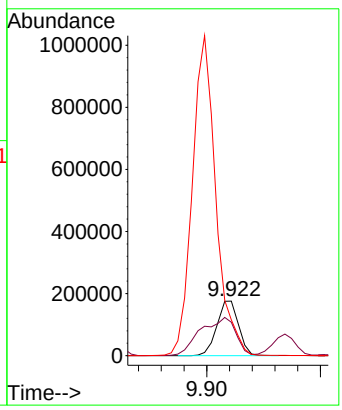


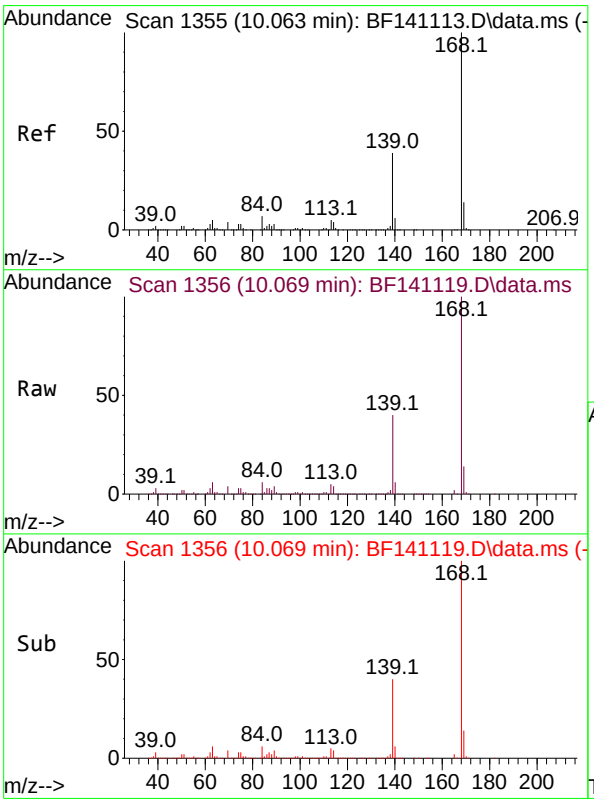
#54
2,4-Dinitrophenol
Concen: 91.933 ng
RT: 9.922 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 233623

Ion	Ratio	Lower	Upper
184	100		
63	61.4	48.7	73.1
154	65.8	57.1	85.7

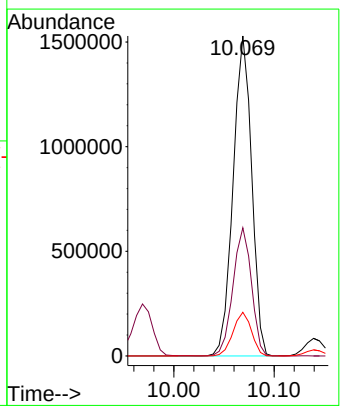


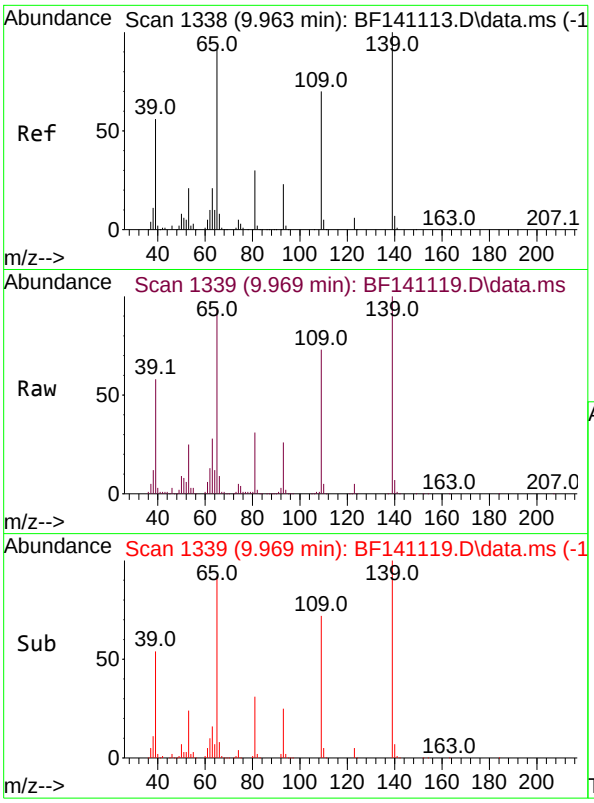


#55
Dibenzofuran
Concen: 70.137 ng
RT: 10.069 min Scan# 1356
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:168 Resp: 1972541

Ion	Ratio	Lower	Upper
168	100		
139	40.1	31.4	47.0
169	13.6	10.9	16.3



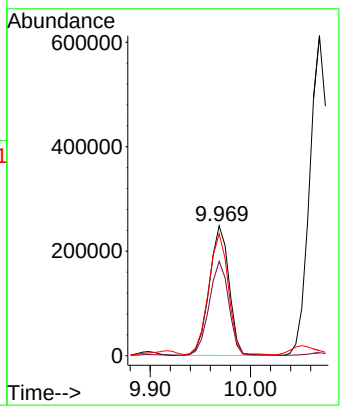


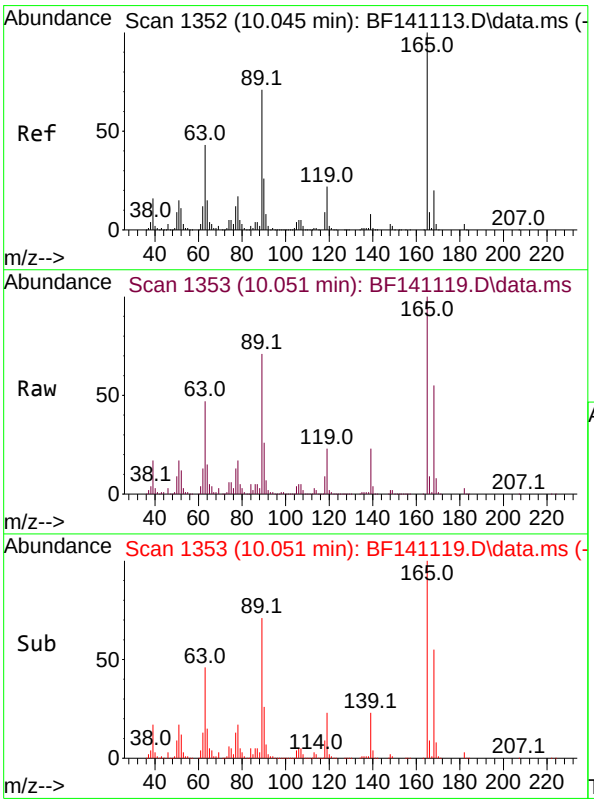
#56
4-Nitrophenol
Concen: 79.690 ng
RT: 9.969 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 339082

Ion	Ratio	Lower	Upper
139	100		
109	72.6	50.2	90.2
65	93.8	72.1	112.1

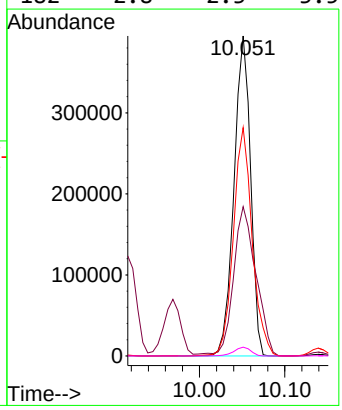


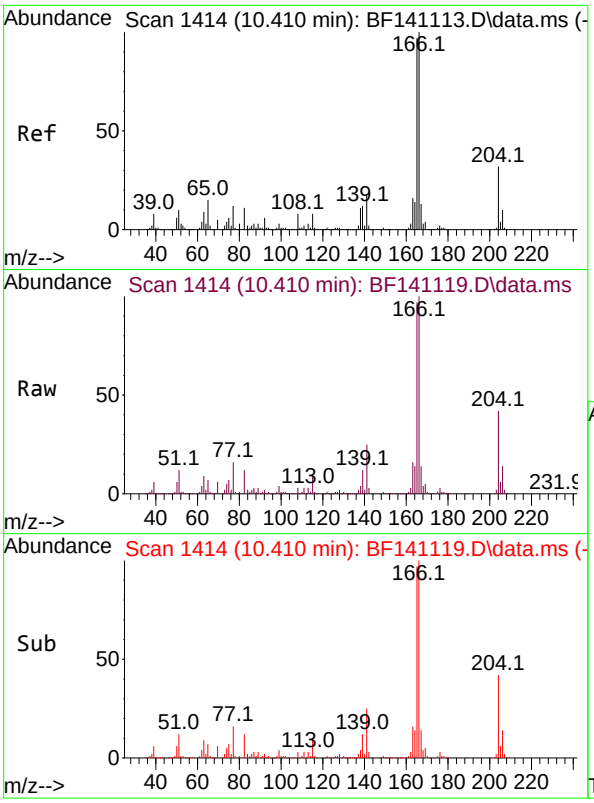


#57
2,4-Dinitrotoluene
Concen: 77.452 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:165 Resp: 533647

Ion	Ratio	Lower	Upper
165	100		
63	46.6	35.0	52.4
89	71.3	56.7	85.1
182	2.8	2.3	3.5



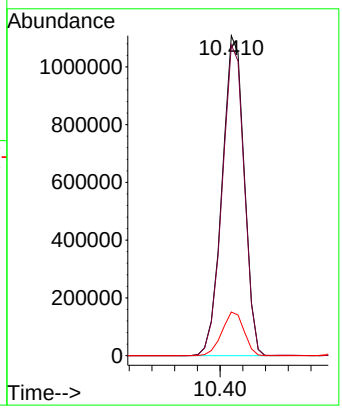


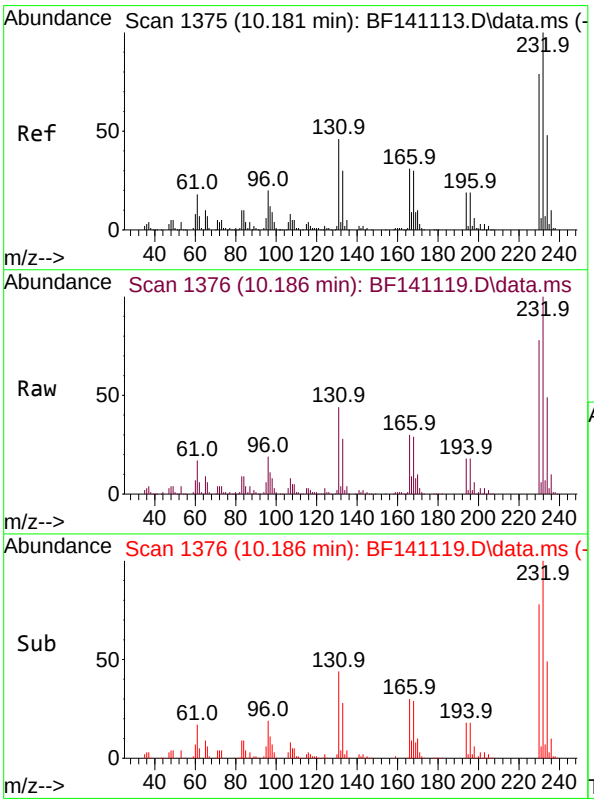
#58
Fluorene
Concen: 68.372 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:166 Resp: 1493903

Ion	Ratio	Lower	Upper
166	100		
165	97.1	77.8	116.8
167	13.6	10.8	16.2

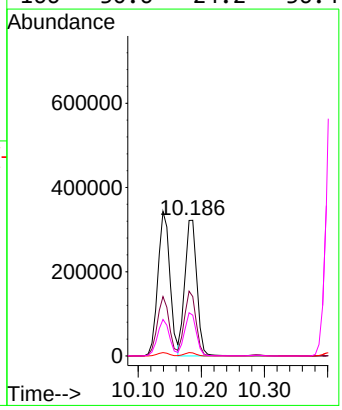


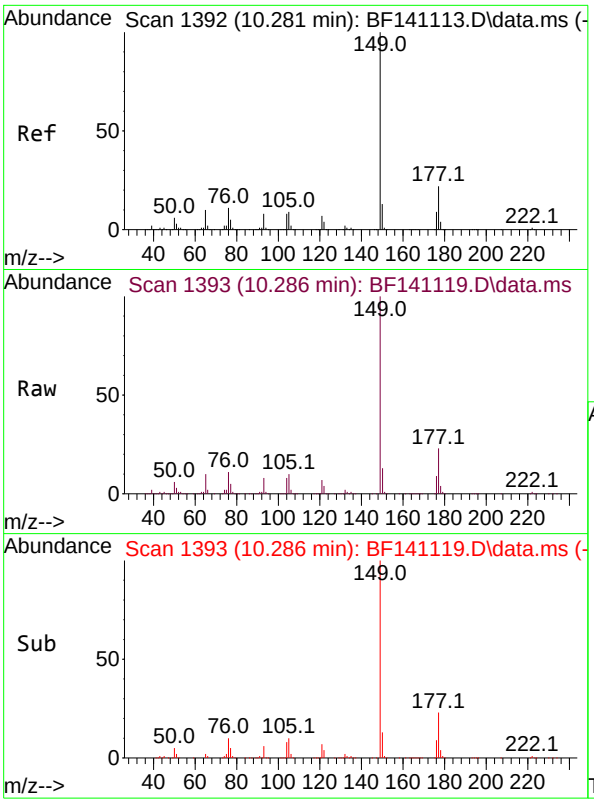


#59
2,3,4,6-Tetrachlorophenol
Concen: 73.631 ng
RT: 10.186 min Scan# 1376
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:232 Resp: 428499

Ion	Ratio	Lower	Upper
232	100		
131	45.8	36.2	54.4
130	2.4	2.0	3.0
166	30.6	24.2	36.4



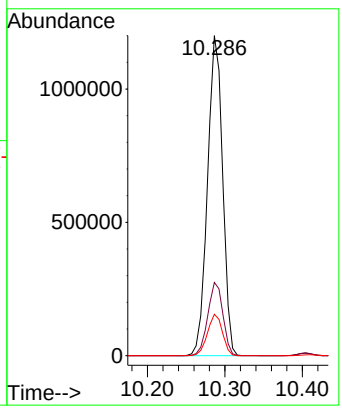


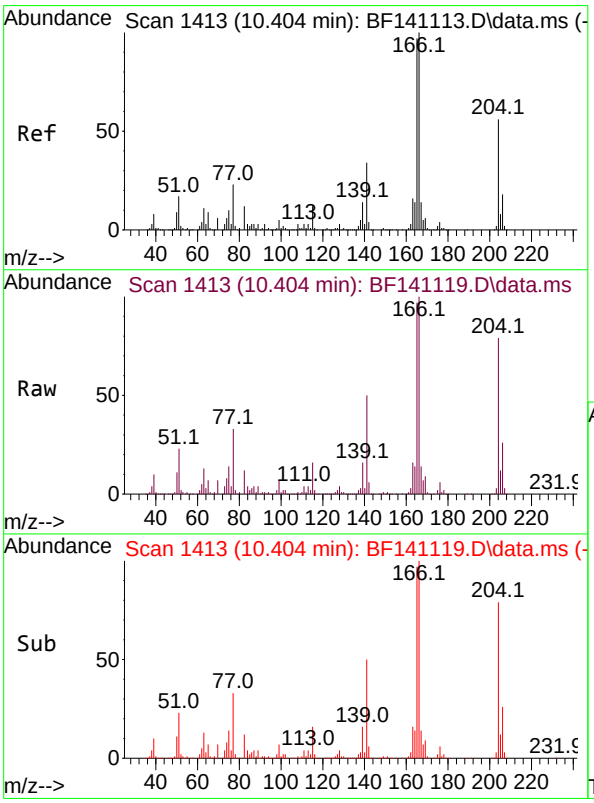
#60
Diethylphthalate
Concen: 72.366 ng
RT: 10.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1624226

Ion	Ratio	Lower	Upper
149	100		
177	22.9	17.9	26.9
150	12.9	10.2	15.2

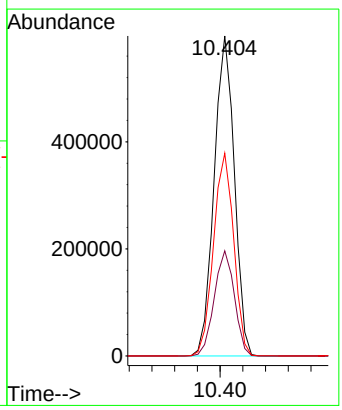


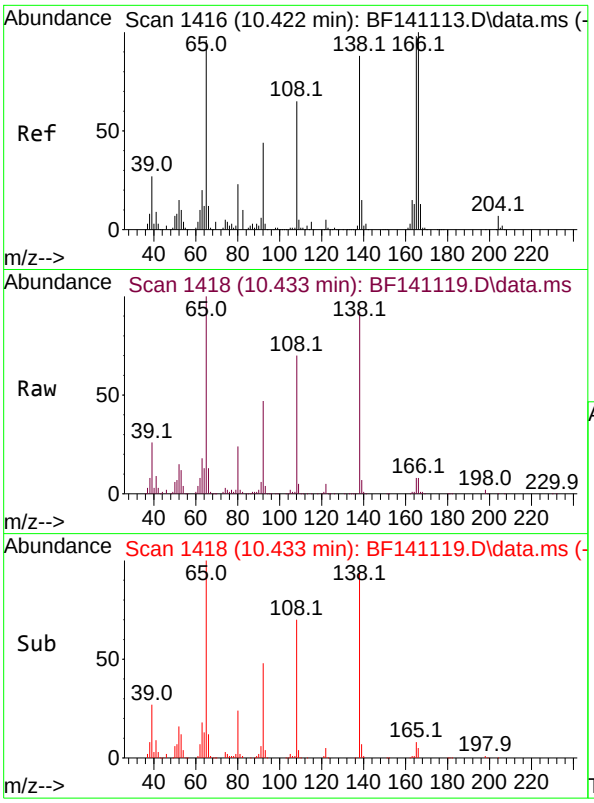


#61
4-Chlorophenyl-phenylether
Concen: 69.400 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:204 Resp: 739051

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.9	38.9
141	63.4	49.1	73.7



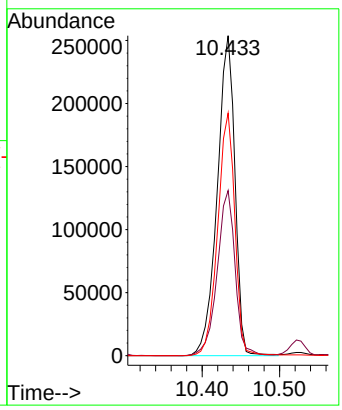


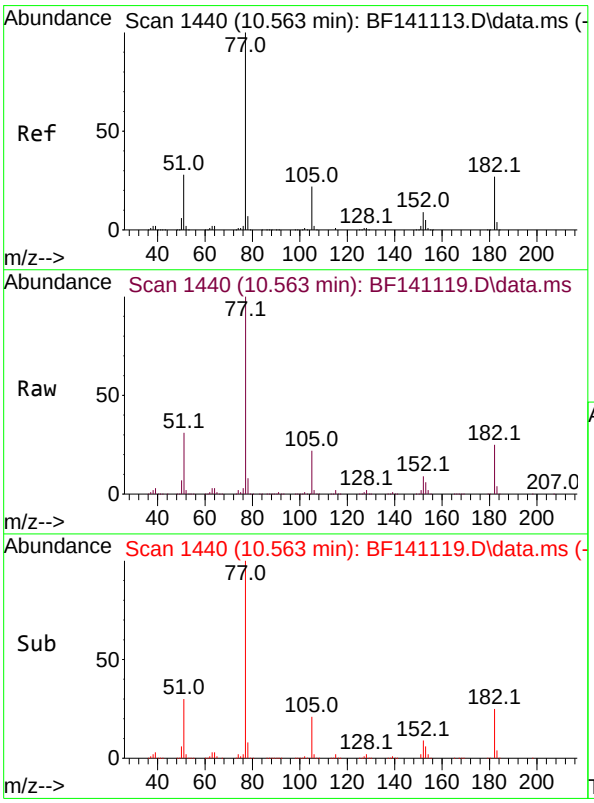
#62
4-Nitroaniline
Concen: 75.992 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 404093

Ion	Ratio	Lower	Upper
138	100		
92	51.6	29.4	69.4
108	75.8	53.7	93.7

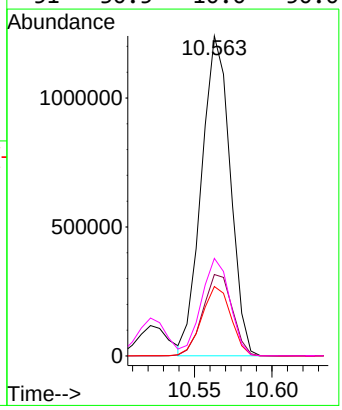


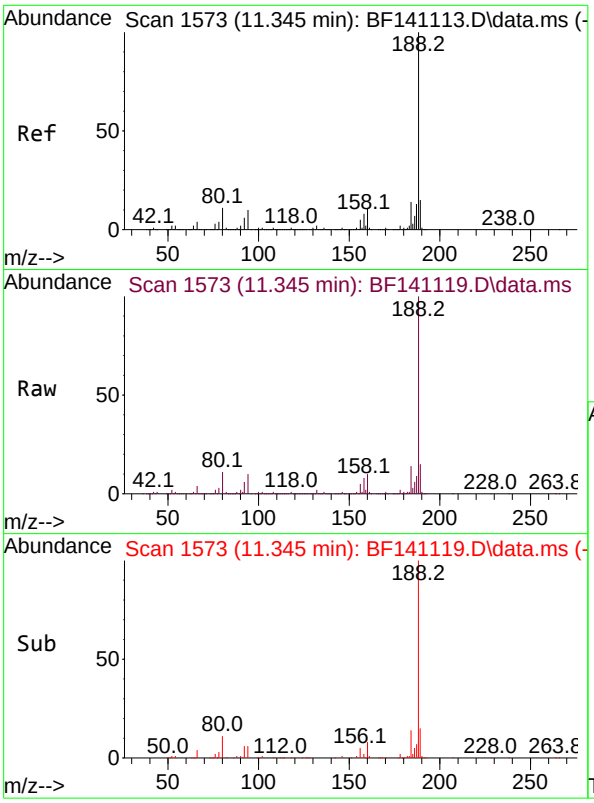


#63
Azobenzene
Concen: 72.150 ng
RT: 10.563 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 77 Resp: 1597886

Ion	Ratio	Lower	Upper
77	100		
182	25.4	6.1	46.1
105	21.7	2.1	42.1
51	30.5	10.0	50.0



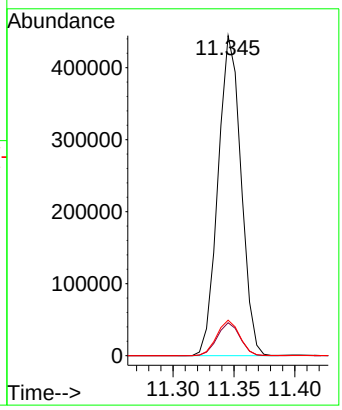


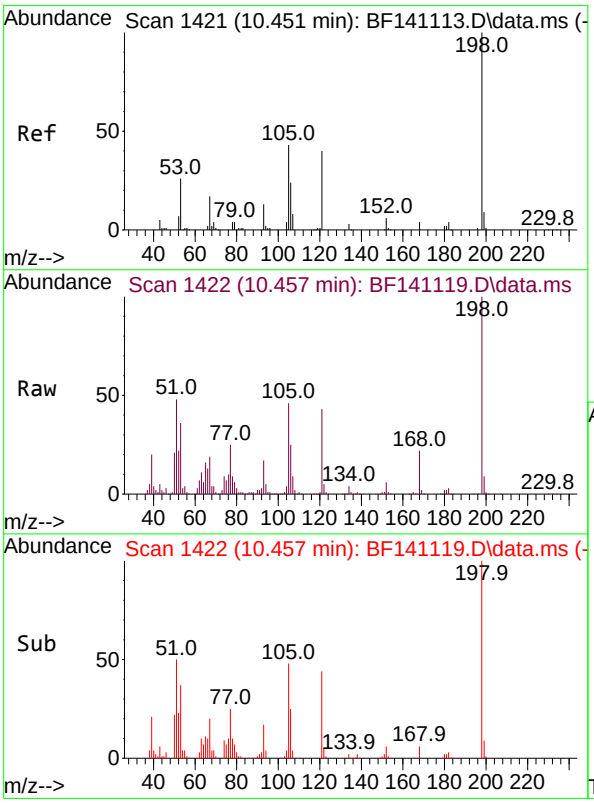
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:188 Resp: 584387

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.3	12.5
80	11.1	9.0	13.4

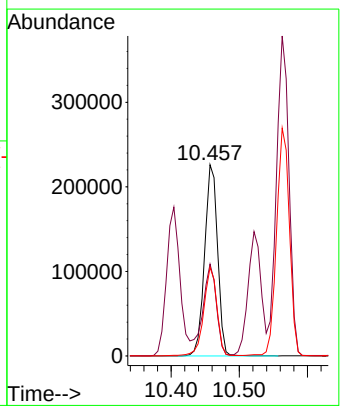


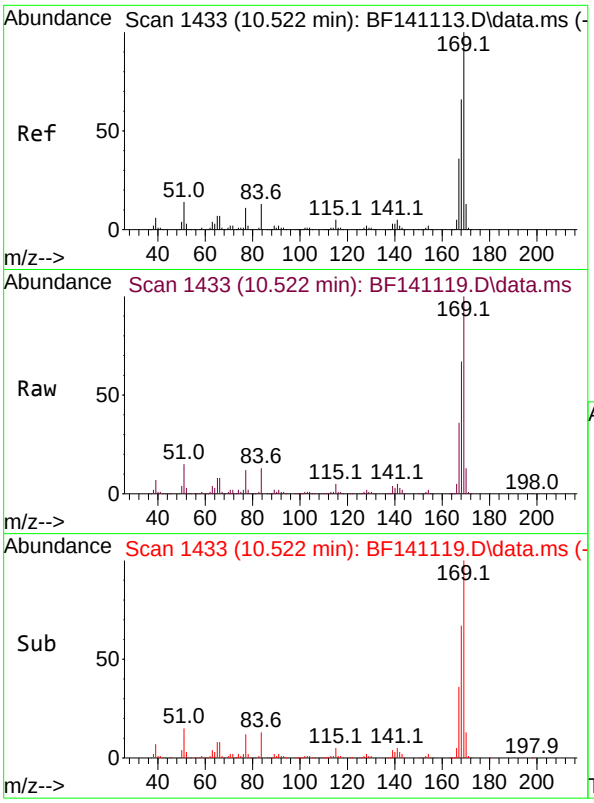


#65
4,6-Dinitro-2-methylphenol
Concen: 88.510 ng
RT: 10.457 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:198 Resp: 299726

Ion	Ratio	Lower	Upper
198	100		
51	48.0	27.1	67.1
105	46.4	24.2	64.2



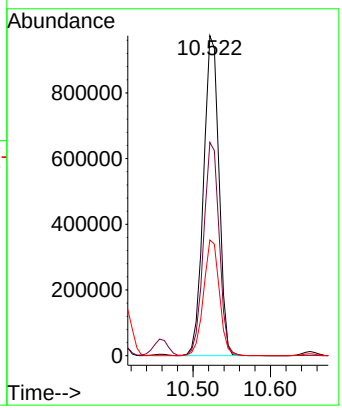


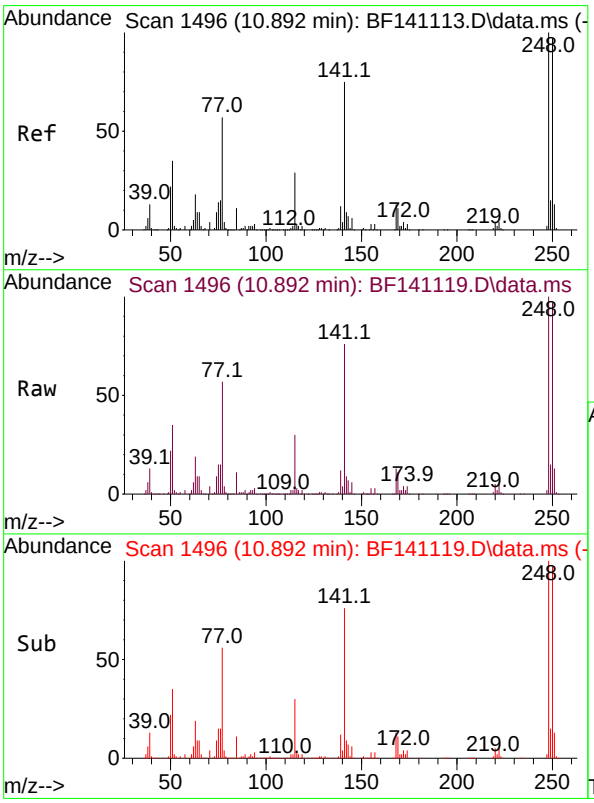
#66
n-Nitrosodiphenylamine
Concen: 71.129 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:169 Resp: 1340718

Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.5	78.7
167	36.1	28.9	43.3

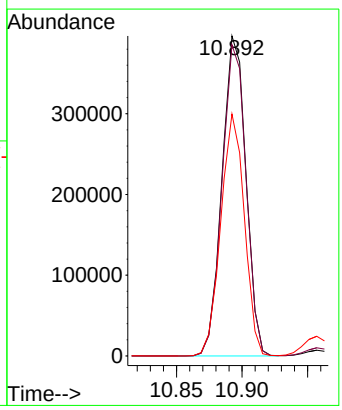


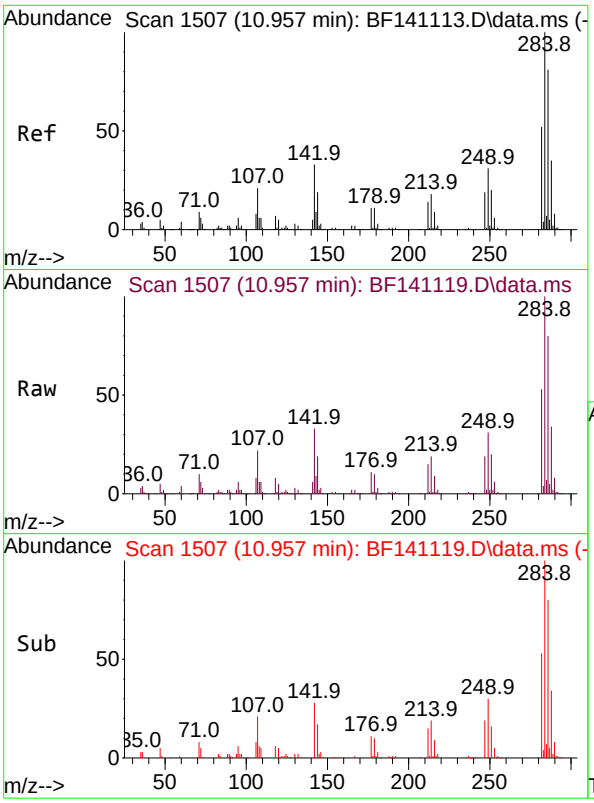


#67
4-Bromophenyl-phenylether
Concen: 74.715 ng
RT: 10.892 min Scan# 1496
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:248 Resp: 502690

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.9	116.9
141	75.6	59.9	89.9



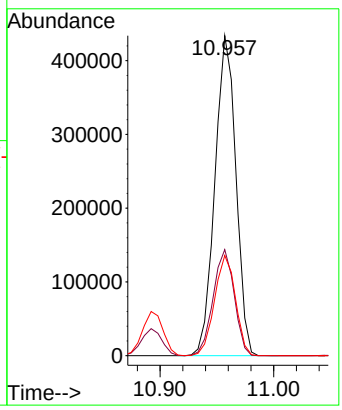


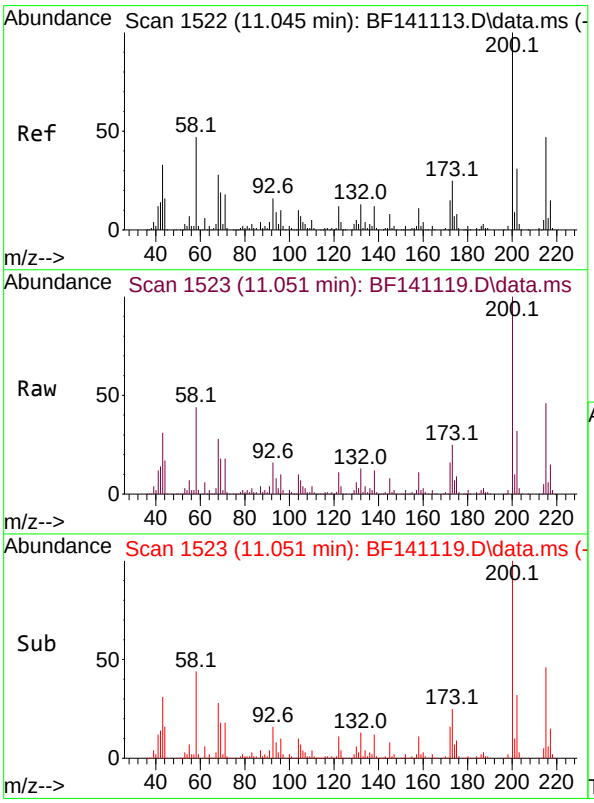
#68
Hexachlorobenzene
Concen: 74.464 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:284 Resp: 557705

Ion	Ratio	Lower	Upper
284	100		
142	33.2	26.3	39.5
249	31.3	24.9	37.3

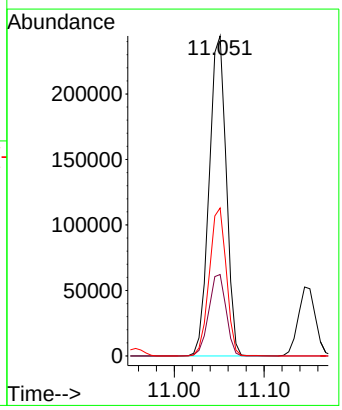


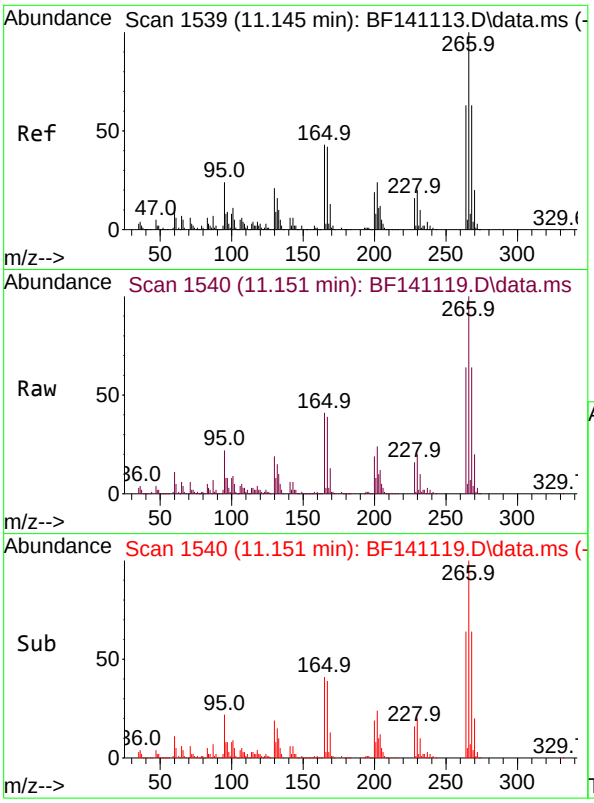


#69
Atrazine
Concen: 63.598 ng
RT: 11.051 min Scan# 1523
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:200 Resp: 322778

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.4	45.4
215	46.3	26.6	66.6



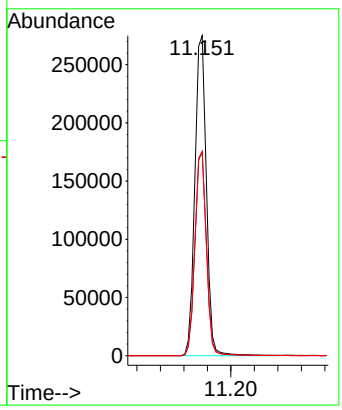


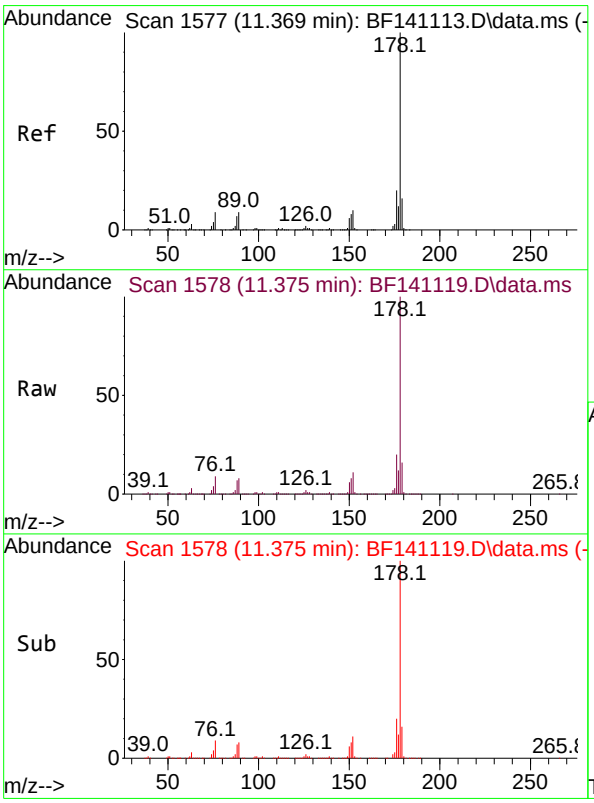
#70
Pentachlorophenol
Concen: 77.927 ng
RT: 11.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:266 Resp: 373762

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.4	75.6
264	63.8	50.2	75.2

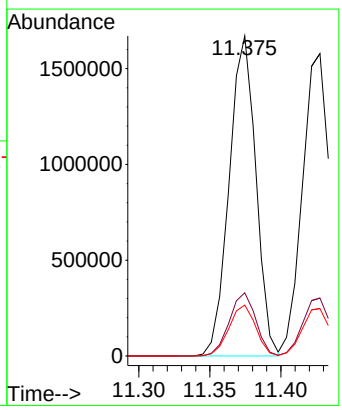


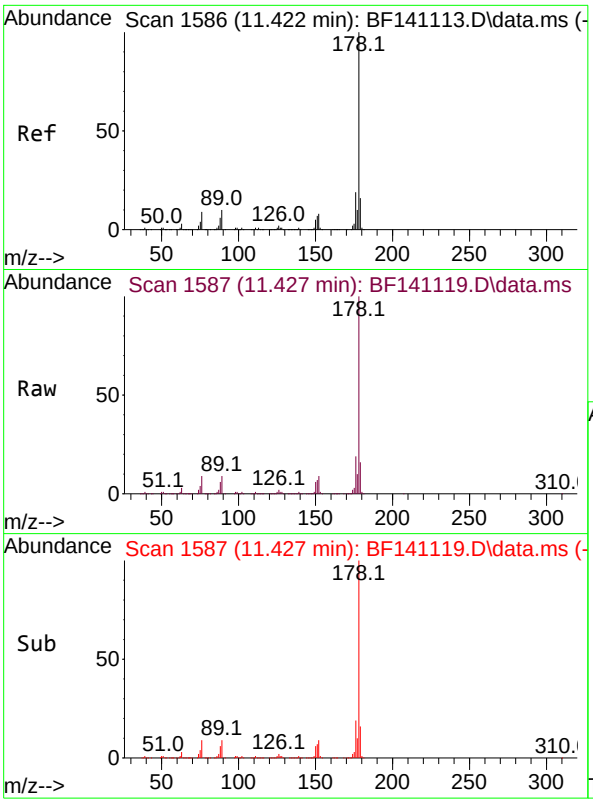


#71
Phenanthrene
Concen: 69.691 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:178 Resp: 2186474

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.9	12.6	19.0



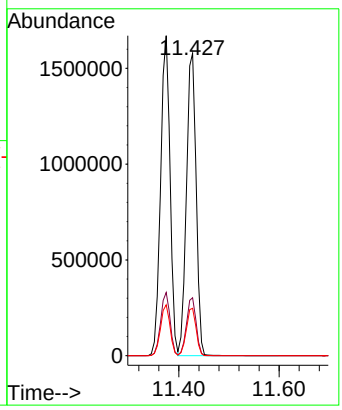


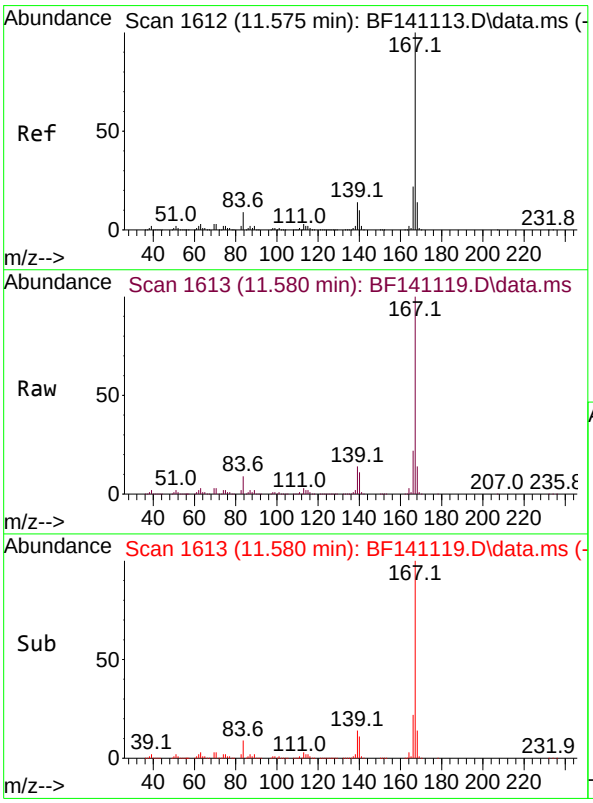
#72
Anthracene
Concen: 69.565 ng
RT: 11.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 2122167

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.9	22.3
179	15.7	12.6	19.0

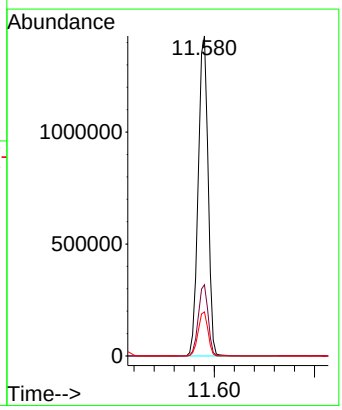


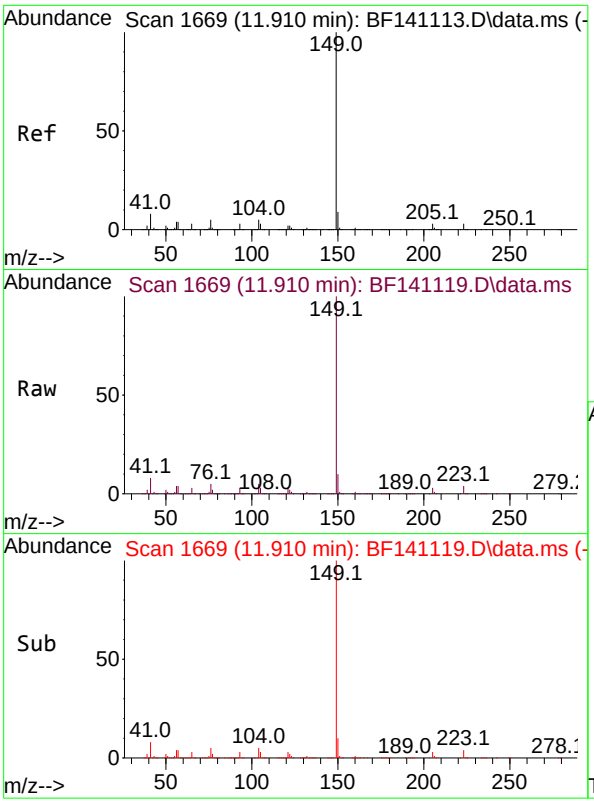


#73
Carbazole
Concen: 69.597 ng
RT: 11.580 min Scan# 1613
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:167 Resp: 1946776

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.4	26.2
139	13.8	10.9	16.3



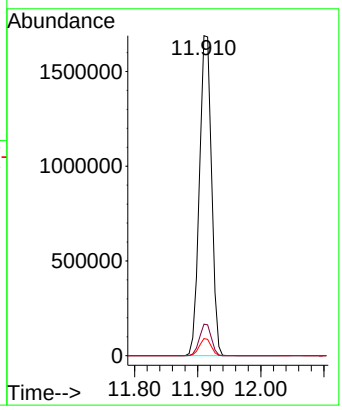


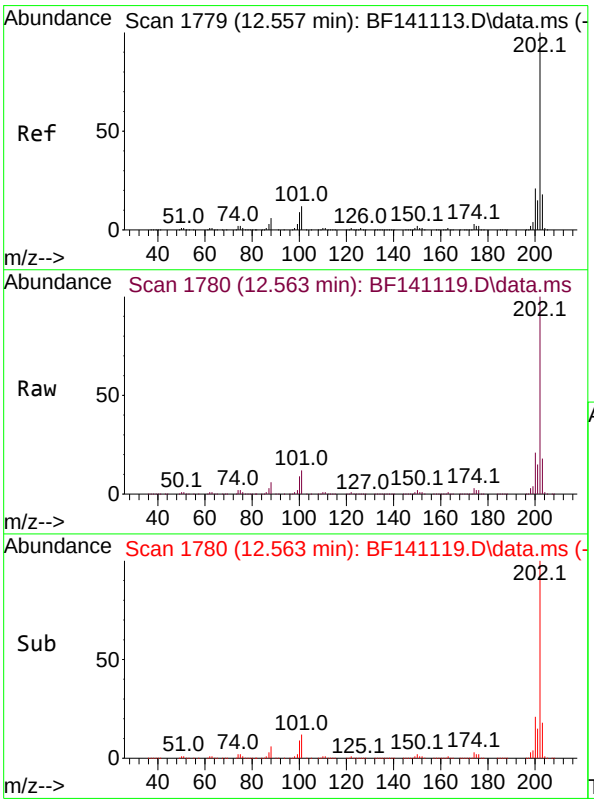
#74
Di-n-butylphthalate
Concen: 69.986 ng
RT: 11.910 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 2240405

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.4	11.2
104	5.4	4.2	6.2

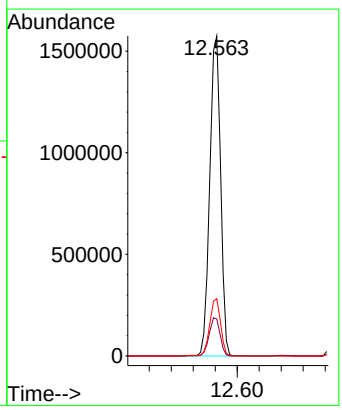


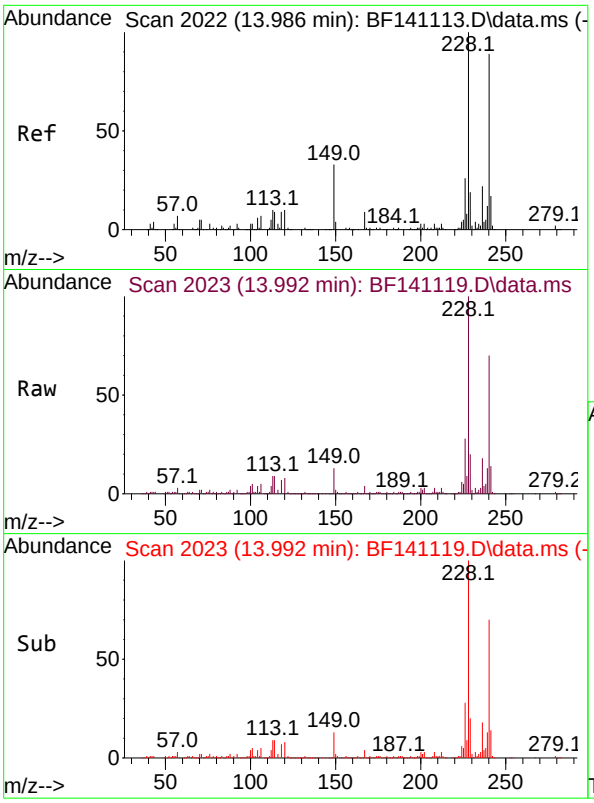


#75
Fluoranthene
Concen: 68.895 ng
RT: 12.563 min Scan# 1780
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:202 Resp: 2156966

Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	32.3
203	17.9	0.0	37.7



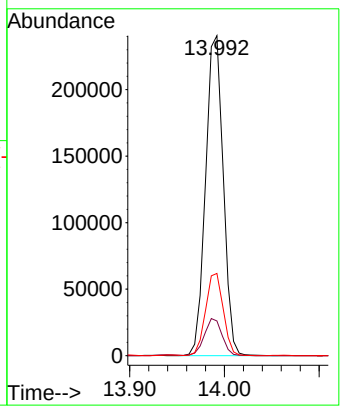


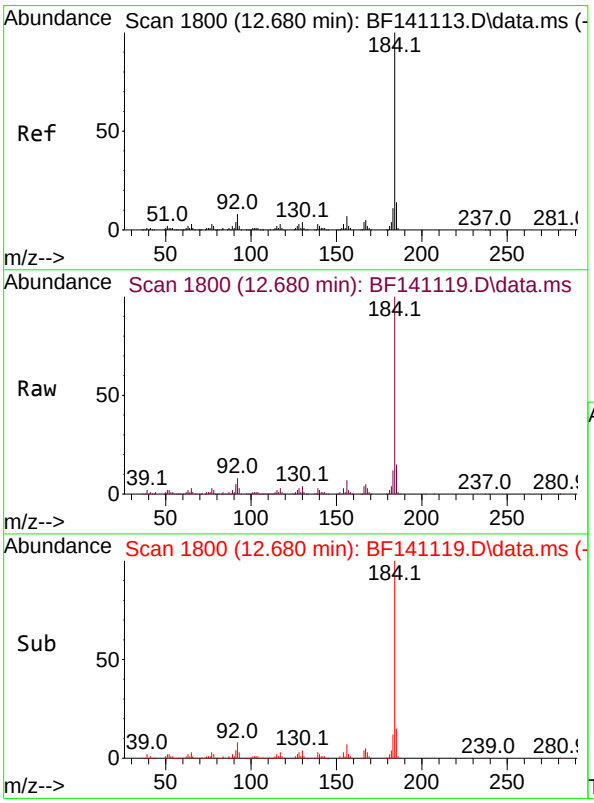
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:240 Resp: 310879

Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.1	13.7
236	25.7	19.8	29.6

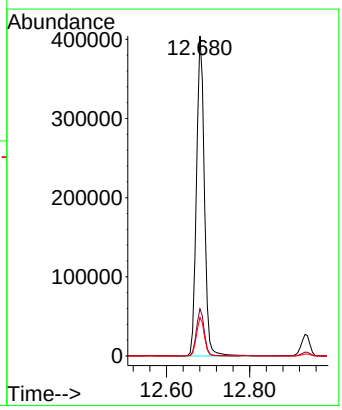


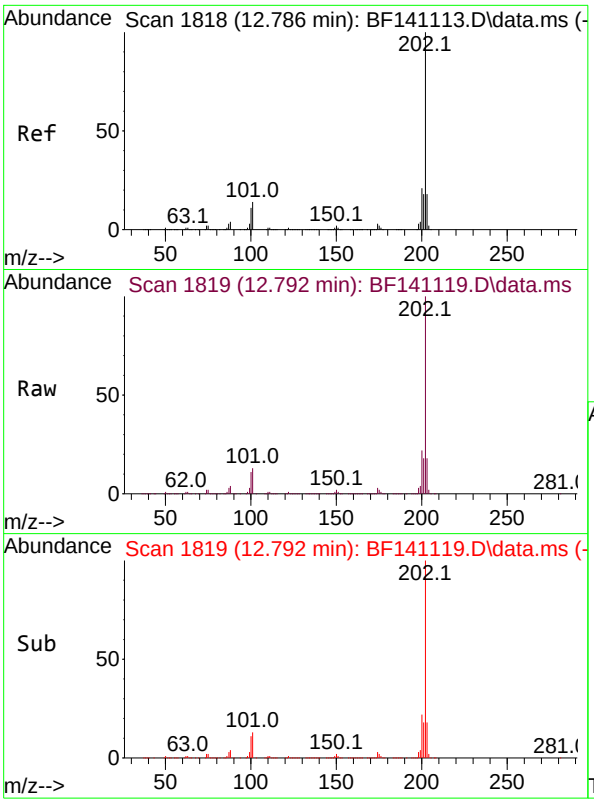


#77
Benzidine
Concen: 92.821 ng
RT: 12.680 min Scan# 1800
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:184 Resp: 535121

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.4	17.0
183	12.0	9.2	13.8



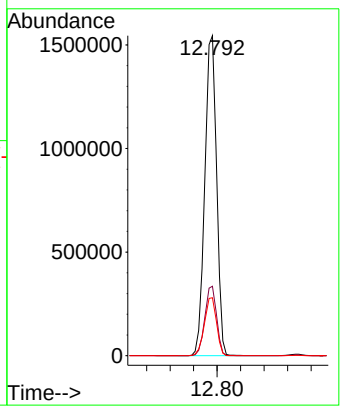


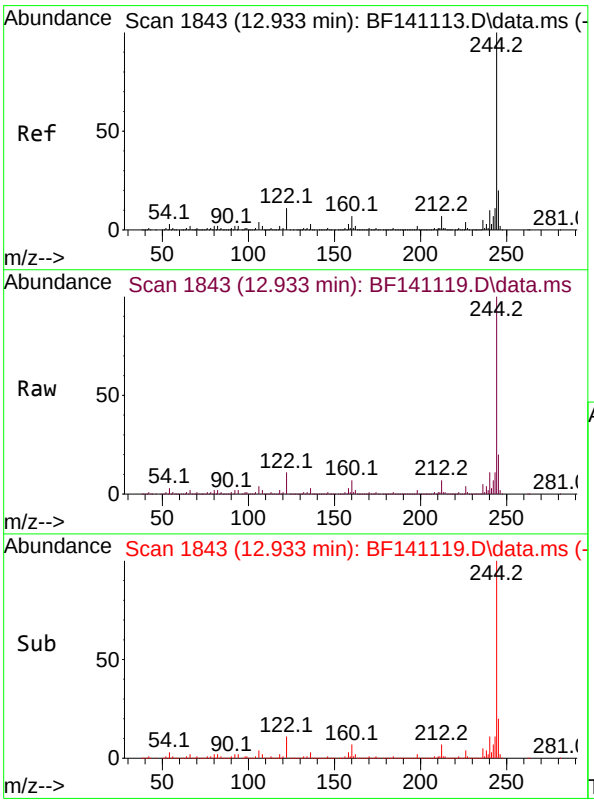
#78
Pyrene
Concen: 72.034 ng
RT: 12.792 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 2138910

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.8	25.2
203	18.1	14.3	21.5

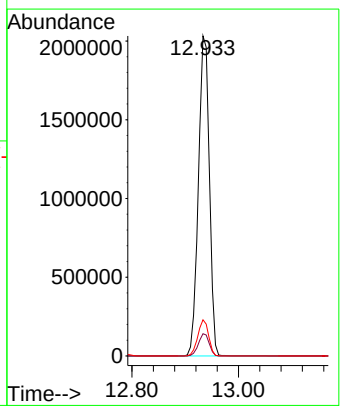


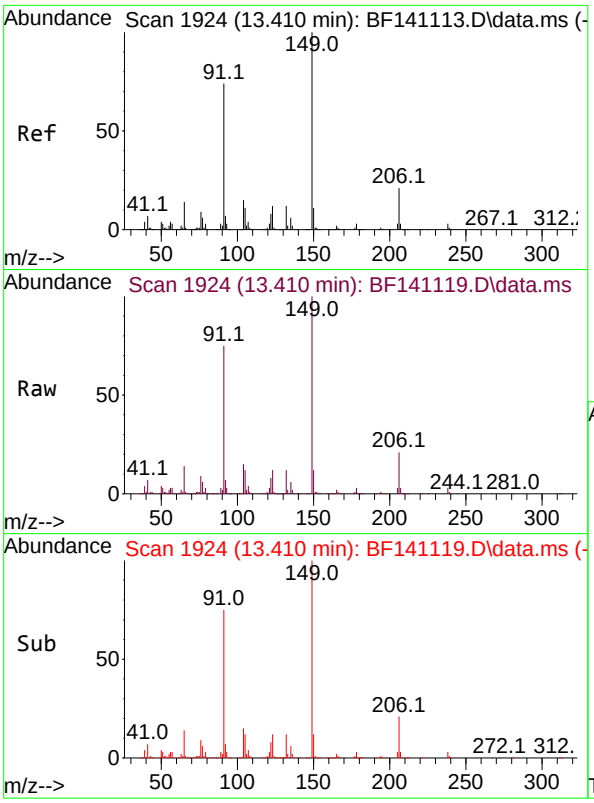


#79
Terphenyl-d14
Concen: 138.433 ng
RT: 12.933 min Scan# 1843
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:244 Resp: 2895506

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	11.3	8.8	13.2



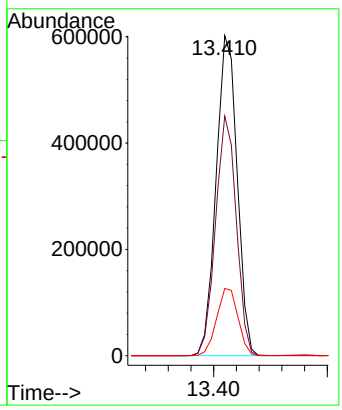


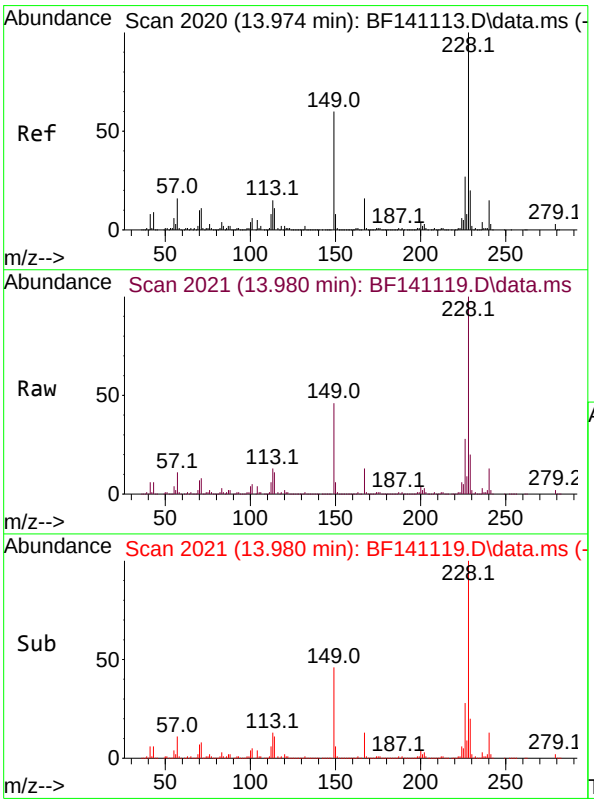
#80
Butylbenzylphthalate
Concen: 78.297 ng
RT: 13.410 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 775127

Ion	Ratio	Lower	Upper
149	100		
91	74.9	59.0	88.6
206	21.0	16.5	24.7

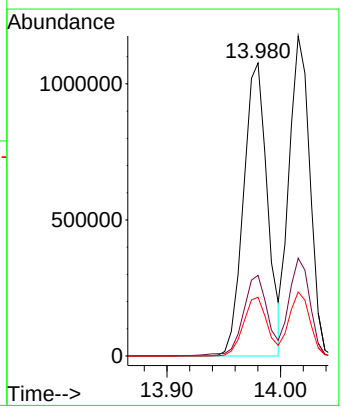


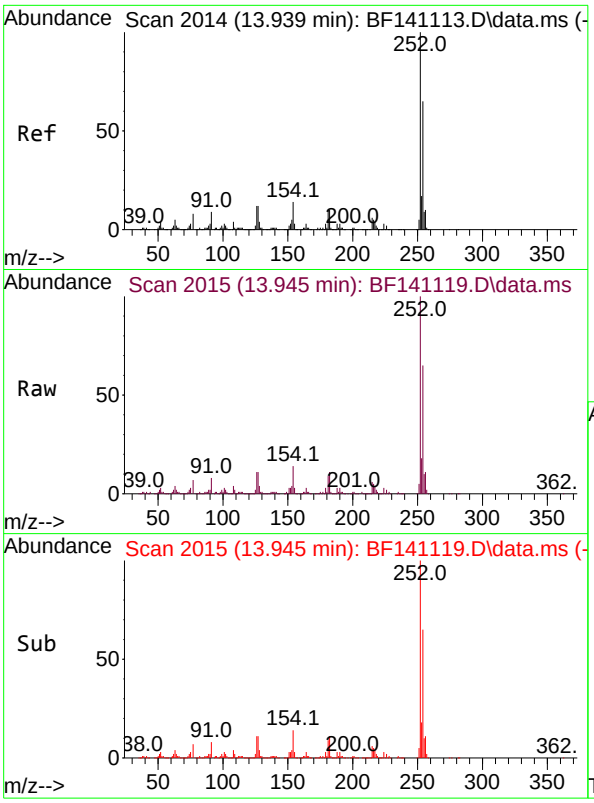


#81
Benzo(a)anthracene
Concen: 74.414 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:228 Resp: 1574387

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.7	32.5
229	20.0	15.7	23.5



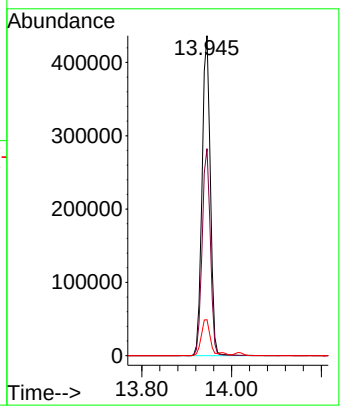


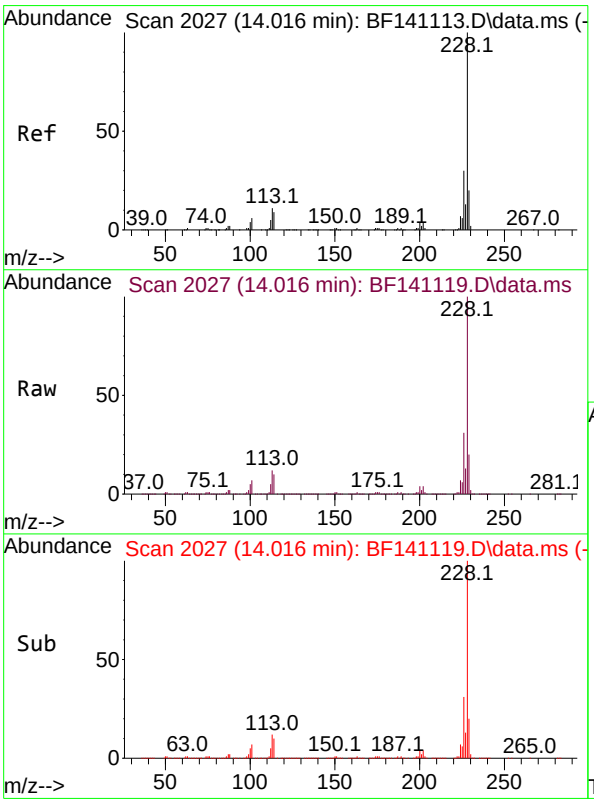
#82
3,3'-Dichlorobenzidine
Concen: 82.781 ng
RT: 13.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 557682

Ion	Ratio	Lower	Upper
252	100		
254	64.7	52.0	78.0
126	11.3	9.4	14.0

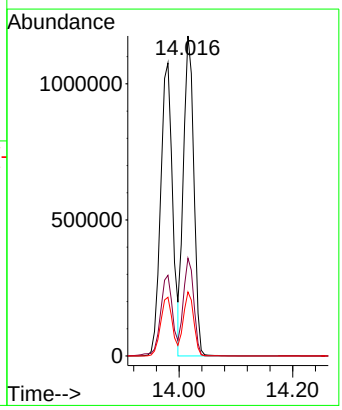


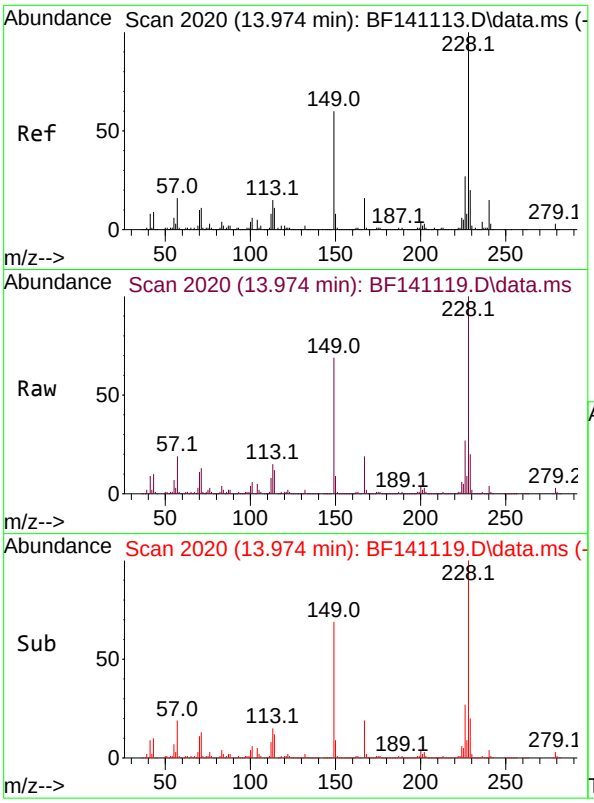


#83
Chrysene
Concen: 75.370 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:228 Resp: 1492065

Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.8	35.8
229	20.0	15.8	23.8



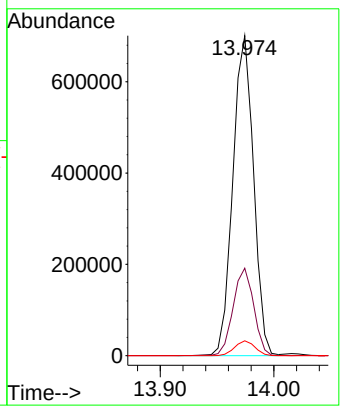


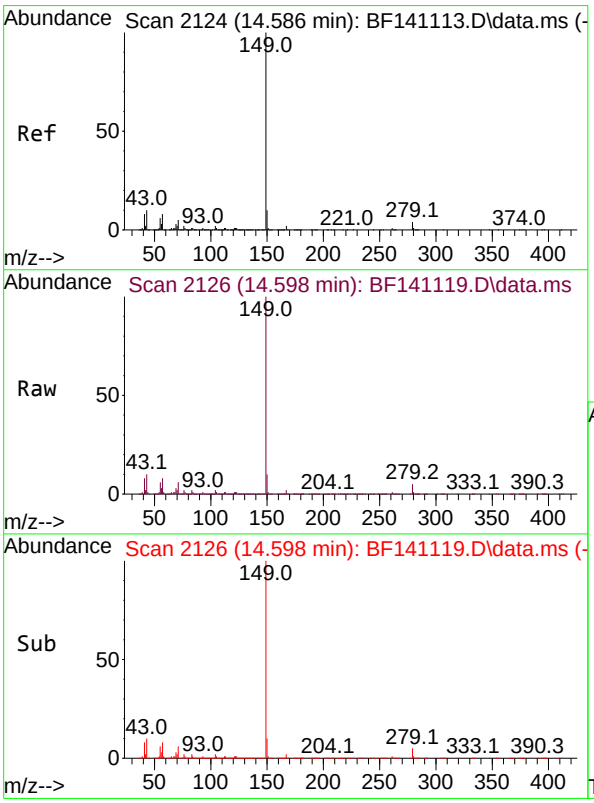
#84
Bis(2-ethylhexyl)phthalate
Concen: 74.589 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 885991

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.4	32.2
279	4.7	3.4	5.2

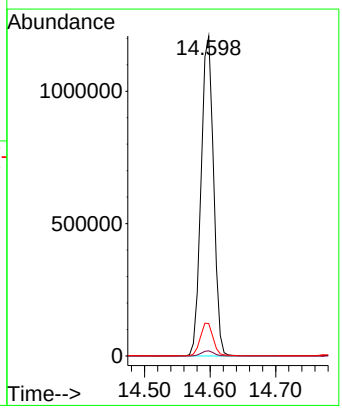


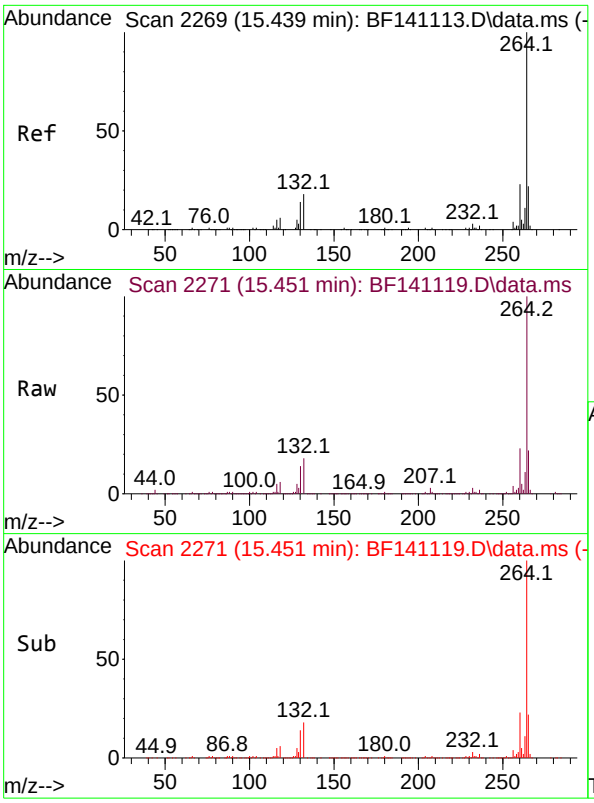


#85
Di-n-octyl phthalate
Concen: 89.471 ng
RT: 14.598 min Scan# 2126
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:149 Resp: 1604851

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.6	8.4	12.6



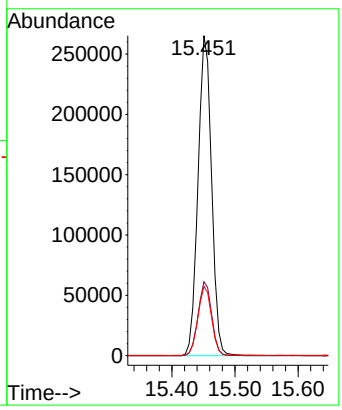


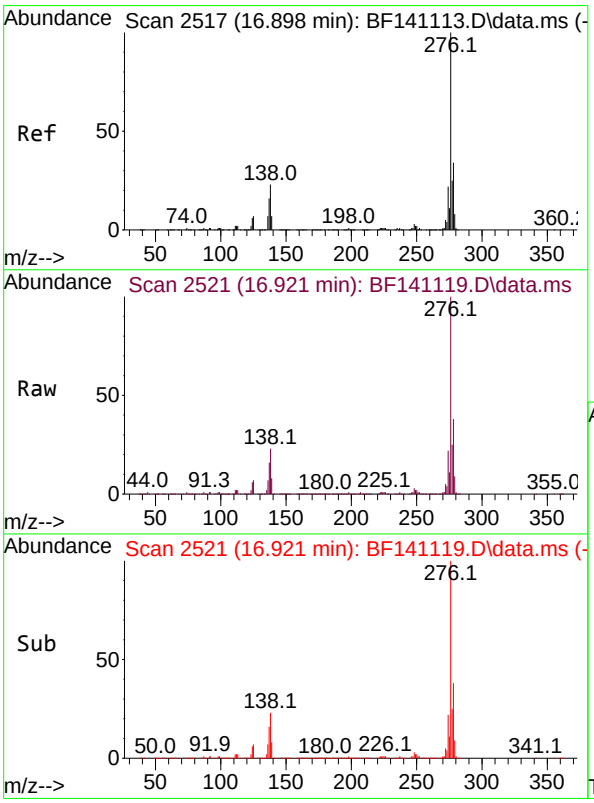
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:264 Resp: 395988

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.7	17.4	26.0

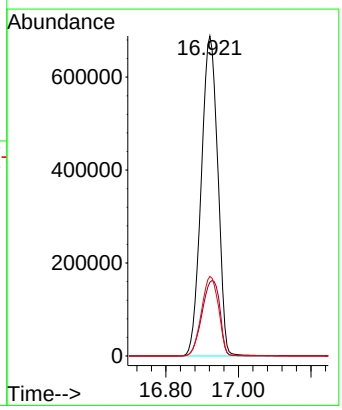


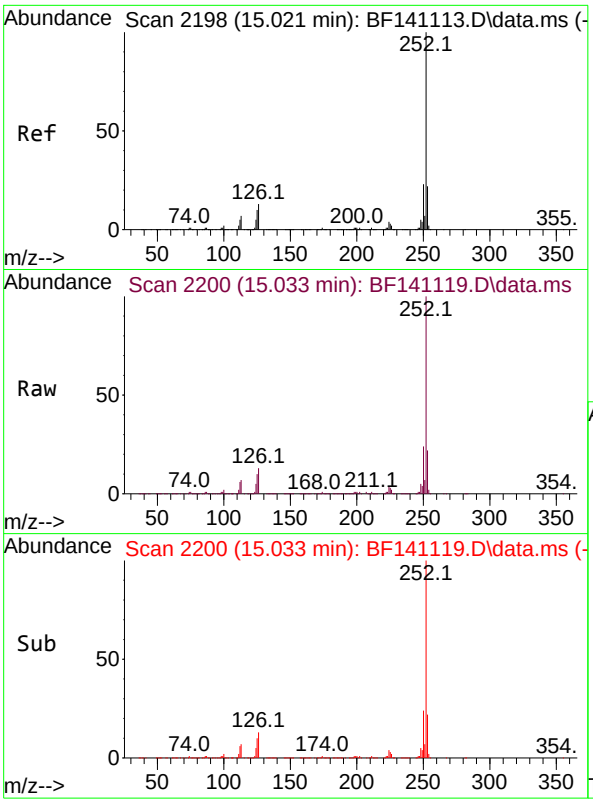


#87
Indeno(1,2,3-cd)pyrene
Concen: 75.032 ng
RT: 16.921 min Scan# 2521
Delta R.T. 0.023 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:276 Resp: 2176761

Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.7	31.1
277	25.7	20.6	30.8



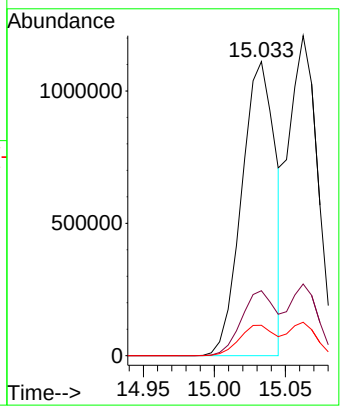


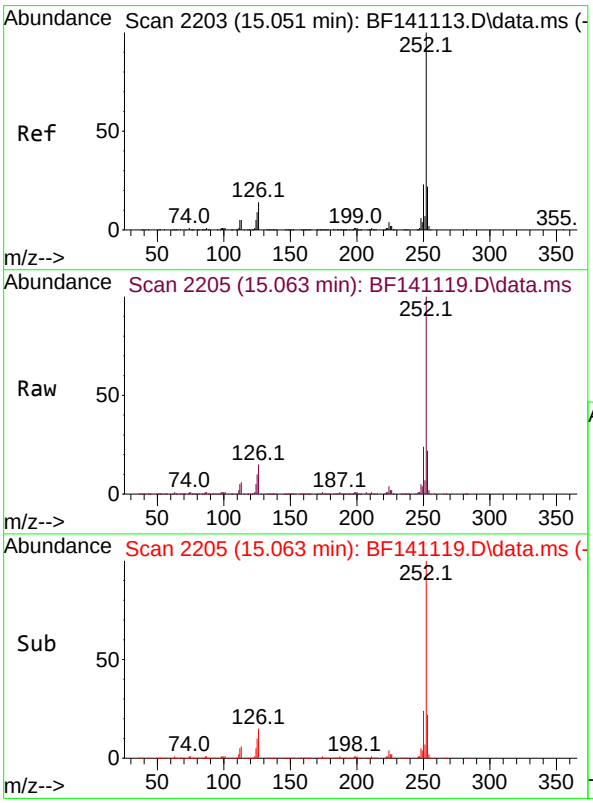
#88
Benzo(b)fluoranthene
Concen: 71.685 ng
RT: 15.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1830448

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.3	8.1	12.1

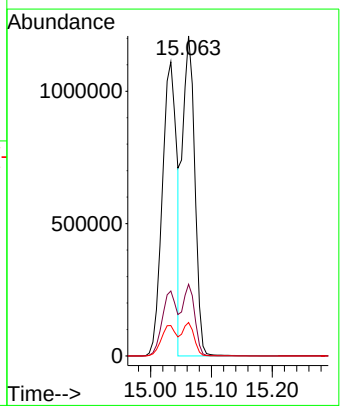


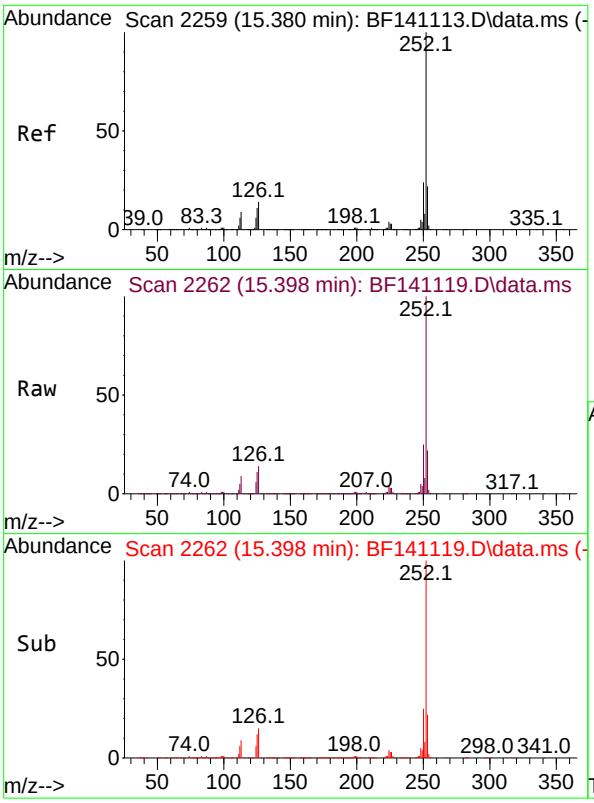


#89
Benzo(k)fluoranthene
Concen: 78.843 ng
RT: 15.063 min Scan# 2205
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:252 Resp: 1701343

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	10.5	7.9	11.9



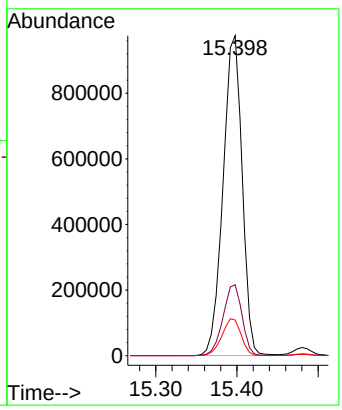


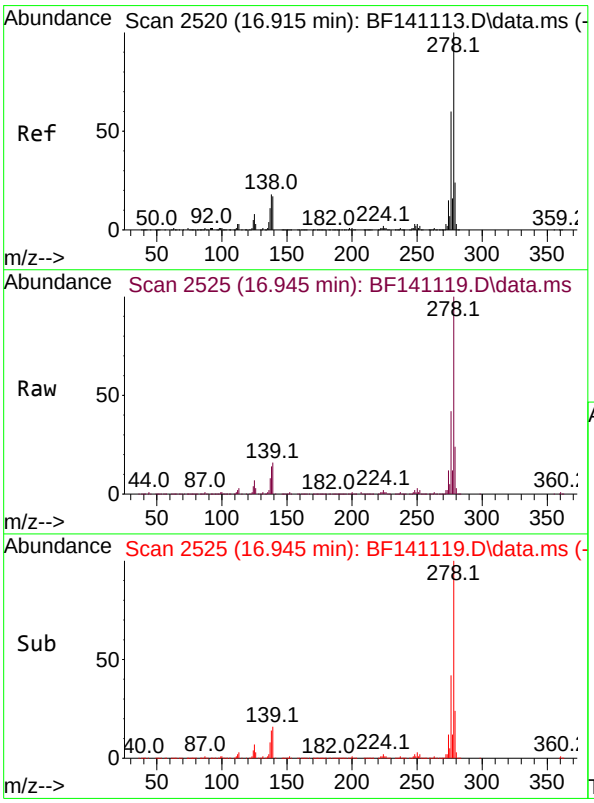
#90
Benzo(a)pyrene
Concen: 75.707 ng
RT: 15.398 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1594959

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.1	9.1	13.7

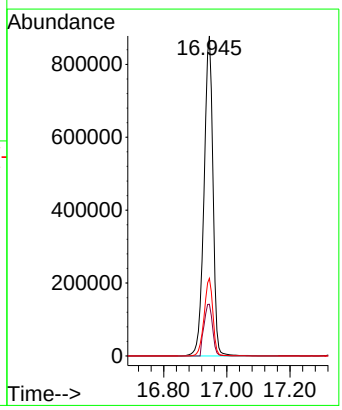


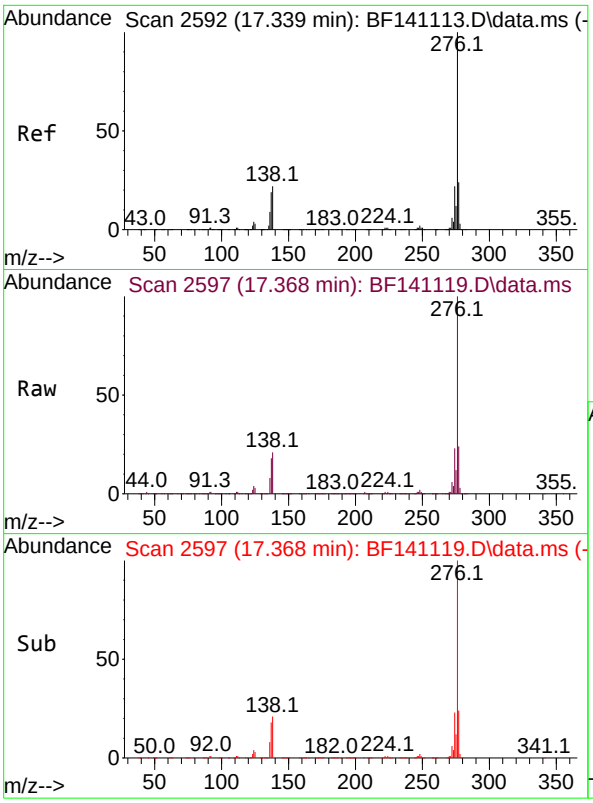


#91
Dibenzo(a,h)anthracene
Concen: 73.436 ng
RT: 16.945 min Scan# 2525
Delta R.T. 0.029 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:278 Resp: 1723136

Ion	Ratio	Lower	Upper
278	100		
139	16.1	13.8	20.6
279	24.2	19.1	28.7



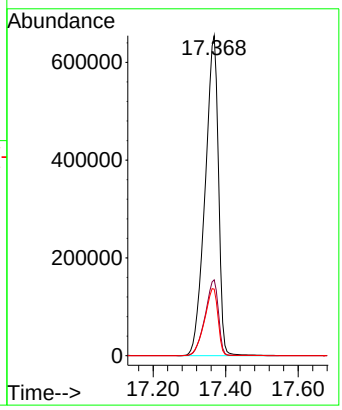


#92
Benzo(g,h,i)perylene
Concen: 68.190 ng
RT: 17.368 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 1664293

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	20.8	17.4	26.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	158167	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	612449	20.000	ng		0.00
39) Acenaphthene-d10	9.857	164	314997	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	516568	20.000	ng		0.00
76) Chrysene-d12	13.986	240	274205	20.000	ng		0.00
86) Perylene-d12	15.451	264	318189	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	820256	80.114	ng		0.00
7) Phenol-d6	6.445	99	1009028	77.801	ng		0.00
23) Nitrobenzene-d5	7.387	82	900254	77.918	ng		0.00
42) 2,4,6-Tribromophenol	10.645	330	285534	79.554	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1614765	78.281	ng		0.00
79) Terphenyl-d14	12.933	244	1456542	78.951	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.534	88	186646	40.936	ng		99
3) Pyridine	3.281	79	450909	40.329	ng		99
4) n-Nitrosodimethylamine	3.228	42	226129	41.363	ng		98
6) Aniline	6.481	93	453676	39.400	ng		98
8) 2-Chlorophenol	6.604	128	431526	39.284	ng		99
9) Benzaldehyde	6.369	77	290165	37.987	ng		99
10) Phenol	6.457	94	541991	39.039	ng		98
11) bis(2-Chloroethyl)ether	6.557	93	399965	38.657	ng		99
12) 1,3-Dichlorobenzene	6.763	146	476822	38.919	ng		99
13) 1,4-Dichlorobenzene	6.840	146	481058	38.965	ng		100
14) 1,2-Dichlorobenzene	6.992	146	444004	38.555	ng		99
15) Benzyl Alcohol	6.957	79	364926	38.962	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.098	45	549884	38.086	ng		99
17) 2-Methylphenol	7.069	107	341712	38.531	ng		100
18) Hexachloroethane	7.334	117	176028	39.427	ng		98
19) n-Nitroso-di-n-propyla...	7.234	70	289047	37.834	ng		100
20) 3+4-Methylphenols	7.222	107	437446	39.098	ng		96
22) Acetophenone	7.228	105	563455	38.700	ng	#	95
24) Nitrobenzene	7.404	77	471786	39.180	ng		99
25) Isophorone	7.639	82	762772	38.631	ng		99
26) 2-Nitrophenol	7.716	139	225470	41.163	ng		97
27) 2,4-Dimethylphenol	7.751	122	291335	39.432	ng		99
28) bis(2-Chloroethoxy)met...	7.851	93	473792	38.235	ng		100
29) 2,4-Dichlorophenol	7.957	162	347943	39.652	ng		100
30) 1,2,4-Trichlorobenzene	8.045	180	391725	39.055	ng		100
31) Naphthalene	8.128	128	1234761	38.230	ng		100
32) Benzoic acid	7.857	122	293529	41.415	ng		99
33) 4-Chloroaniline	8.169	127	427268	38.252	ng		98
34) Hexachlorobutadiene	8.245	225	238001	39.380	ng		98
35) Caprolactam	8.539	113	110830	38.578	ng		95
36) 4-Chloro-3-methylphenol	8.651	107	371891	38.752	ng		100
37) 2-Methylnaphthalene	8.816	142	797256	38.737	ng		99
38) 1-Methylnaphthalene	8.916	142	767986	37.862	ng		99
40) 1,2,4,5-Tetrachloroben...	8.981	216	359153	39.725	ng		99
41) Hexachlorocyclopentadiene	8.969	237	117559	39.744	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	246797	40.474	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

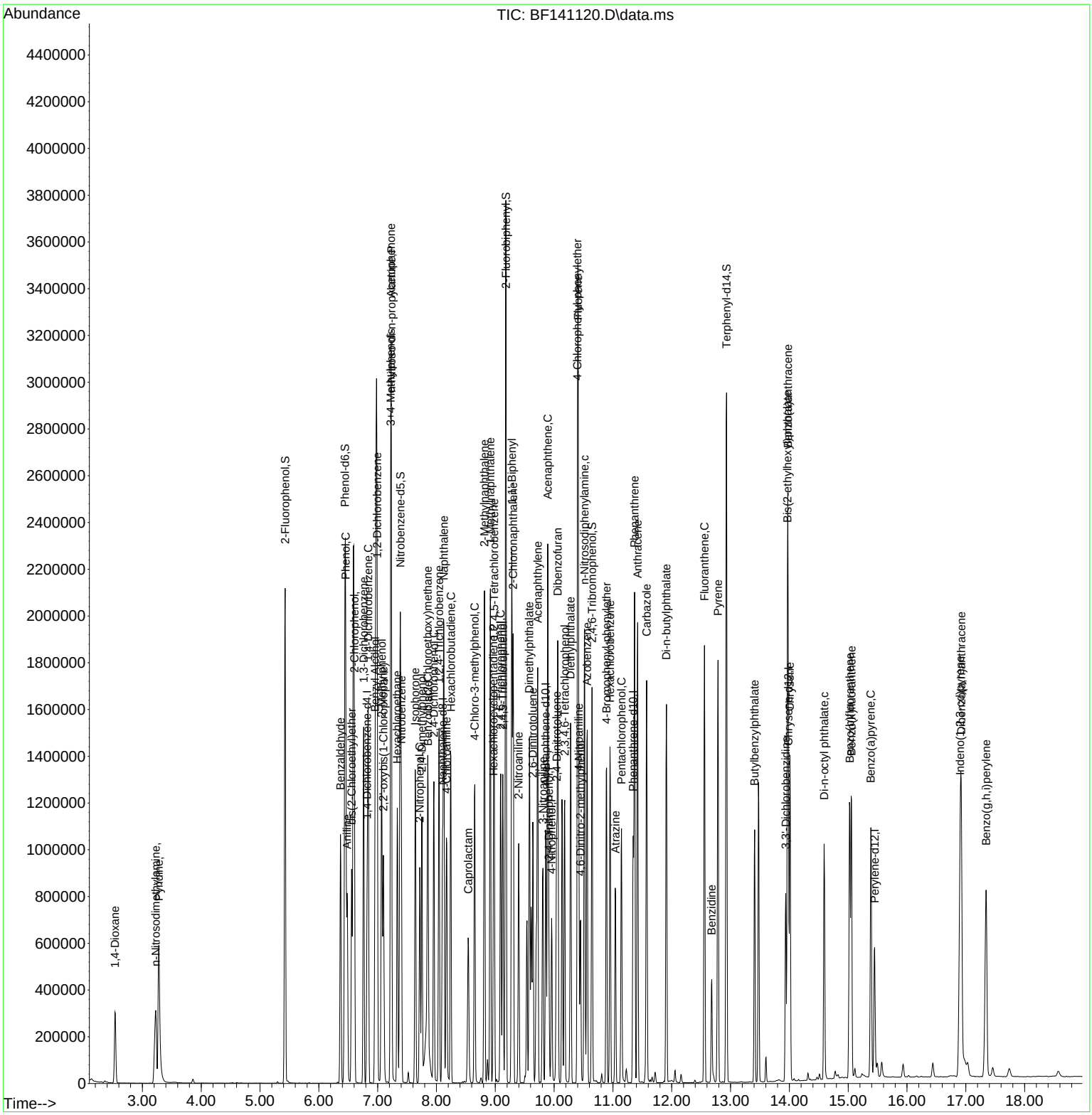
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.128	196	258003	40.064	ng		99
46) 1,1'-Biphenyl	9.281	154	970736	39.682	ng		99
47) 2-Chloronaphthalene	9.304	162	752248	39.481	ng		100
48) 2-Nitroaniline	9.398	65	227785	40.330	ng		99
49) Acenaphthylene	9.722	152	1071325	39.356	ng		99
50) Dimethylphthalate	9.581	163	835630	39.515	ng		100
51) 2,6-Dinitrotoluene	9.639	165	199428	40.554	ng		93
52) Acenaphthene	9.892	154	753339	39.611	ng		100
53) 3-Nitroaniline	9.810	138	201692	40.360	ng		98
54) 2,4-Dinitrophenol	9.910	184	98794	42.266	ng	#	56
55) Dibenzofuran	10.063	168	1007778	38.957	ng		99
56) 4-Nitrophenol	9.957	139	152518	38.970	ng		94
57) 2,4-Dinitrotoluene	10.045	165	258400	40.773	ng		99
58) Fluorene	10.410	166	779173	38.770	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.180	232	211938	39.593	ng		99
60) Diethylphthalate	10.280	149	803338	38.912	ng		99
61) 4-Chlorophenyl-phenyle...	10.398	204	377526	38.542	ng		95
62) 4-Nitroaniline	10.422	138	192093	39.273	ng		98
63) Azobenzene	10.563	77	791308	38.845	ng		99
65) 4,6-Dinitro-2-methylph...	10.451	198	133479	44.592	ng		98
66) n-Nitrosodiphenylamine	10.516	169	680537	40.845	ng		99
67) 4-Bromophenyl-phenylether	10.892	248	244318	41.081	ng		99
68) Hexachlorobenzene	10.951	284	270074	40.794	ng		97
69) Atrazine	11.045	200	139816	31.165	ng		99
70) Pentachlorophenol	11.145	266	176156	41.549	ng		100
71) Phenanthrene	11.369	178	1095830	39.514	ng		99
72) Anthracene	11.422	178	1072960	39.789	ng		100
73) Carbazole	11.575	167	957273	38.715	ng		100
74) Di-n-butylphthalate	11.910	149	1120353	39.593	ng		100
75) Fluoranthene	12.557	202	1036155	37.440	ng		99
77) Benzidine	12.680	184	245773	48.333	ng		99
78) Pyrene	12.786	202	1035445	39.536	ng		100
80) Butylbenzylphthalate	13.410	149	341737	39.136	ng		97
81) Benzo(a)anthracene	13.974	228	699094	37.462	ng		100
82) 3,3'-Dichlorobenzidine	13.939	252	235420	39.619	ng		99
83) Chrysene	14.010	228	664611	38.062	ng		100
84) Bis(2-ethylhexyl)phtha...	13.968	149	409965	39.130	ng		99
85) Di-n-octyl phthalate	14.592	149	649810	41.072	ng		99
87) Indeno(1,2,3-cd)pyrene	16.904	276	921423	39.527	ng		98
88) Benzo(b)fluoranthene	15.027	252	758252	36.956	ng		99
89) Benzo(k)fluoranthene	15.057	252	664225	38.307	ng		99
90) Benzo(a)pyrene	15.386	252	659605	38.965	ng		100
91) Dibenzo(a,h)anthracene	16.921	278	752974	39.936	ng		99
92) Benzo(g,h,i)perylene	17.345	276	754682	38.482	ng		99

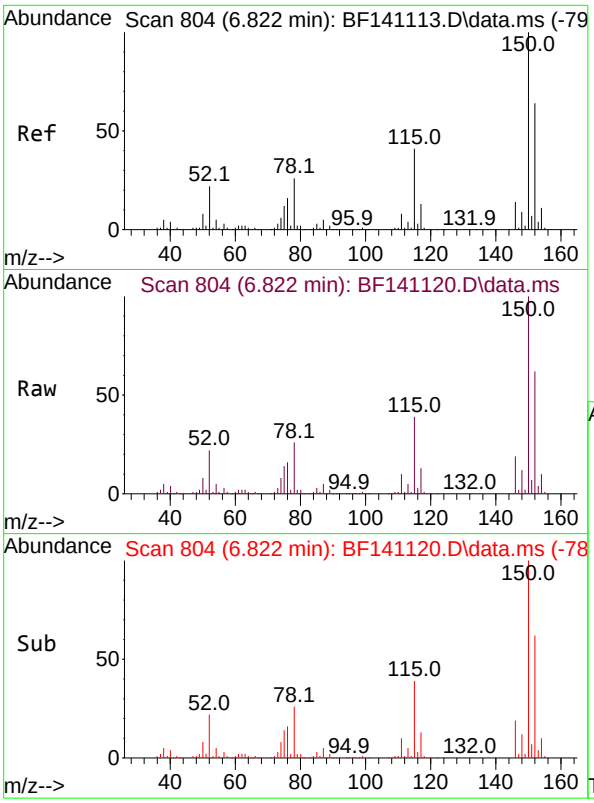
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



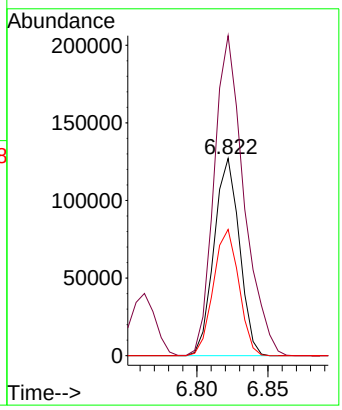


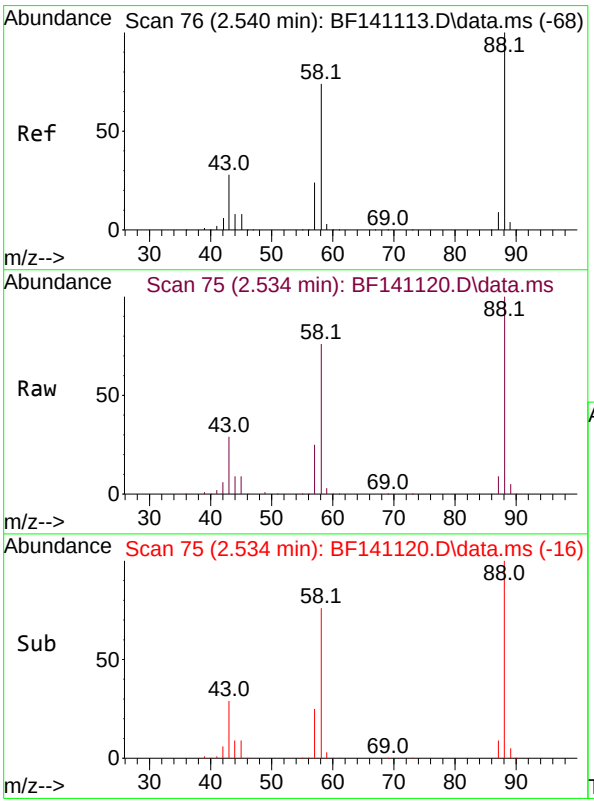
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:152 Resp: 158167

Ion	Ratio	Lower	Upper
152	100		
150	162.2	125.8	188.8
115	64.0	51.4	77.2

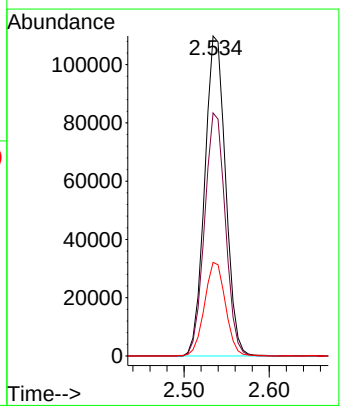


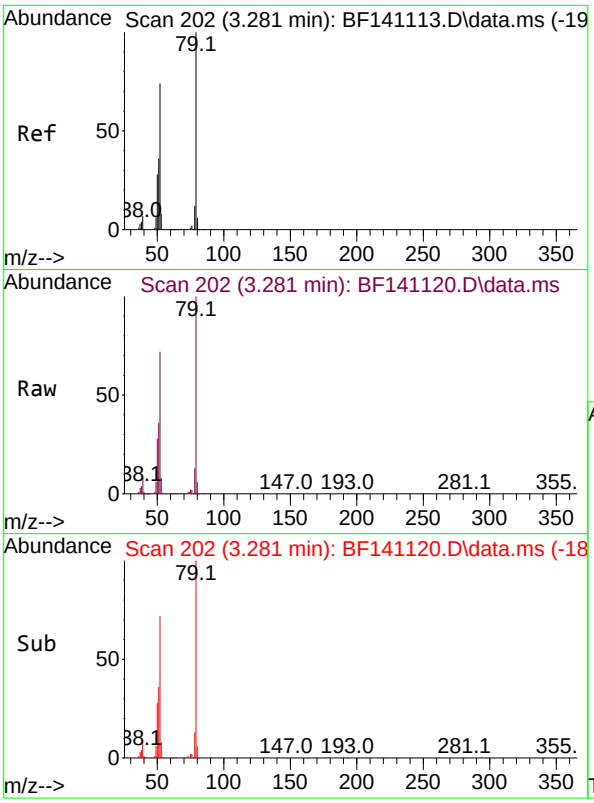


#2
1,4-Dioxane
Concen: 40.936 ng
RT: 2.534 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 88 Resp: 186646

Ion	Ratio	Lower	Upper
88	100		
58	75.7	60.1	90.1
43	29.5	23.1	34.7



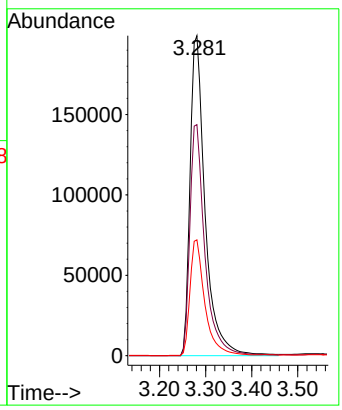


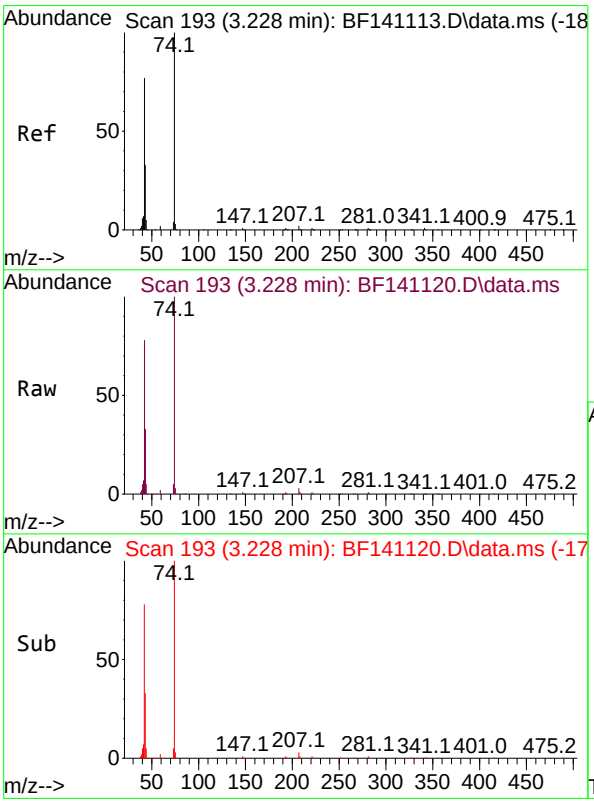
#3
Pyridine
Concen: 40.329 ng
RT: 3.281 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 79 Resp: 450909

Ion	Ratio	Lower	Upper
79	100		
52	72.2	58.9	88.3
51	36.2	29.1	43.7

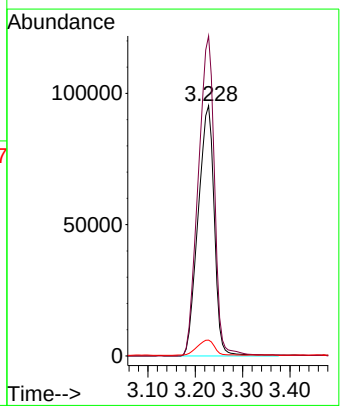


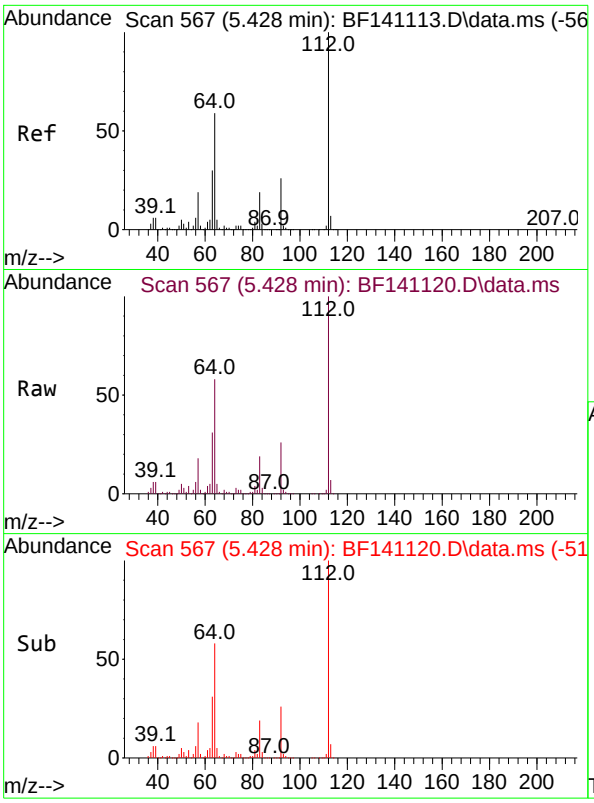


#4
n-Nitrosodimethylamine
Concen: 41.363 ng
RT: 3.228 min Scan# 193
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 42 Resp: 226129

Ion	Ratio	Lower	Upper
42	100		
74	127.9	103.8	155.6
44	6.3	5.3	7.9



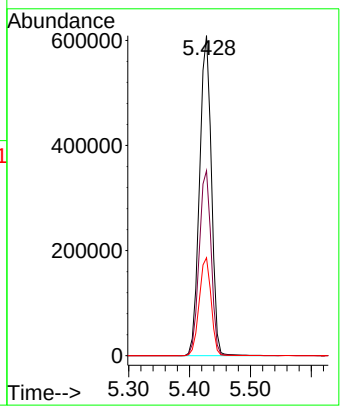


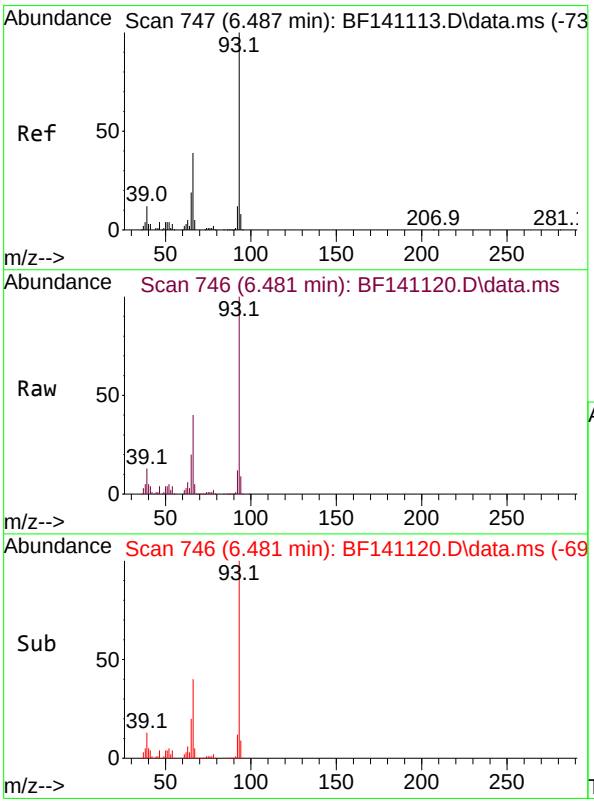
#5
2-Fluorophenol
Concen: 80.114 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:112 Resp: 820256

Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.3	70.9
63	30.6	24.2	36.2

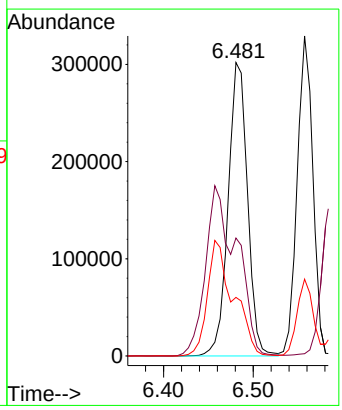


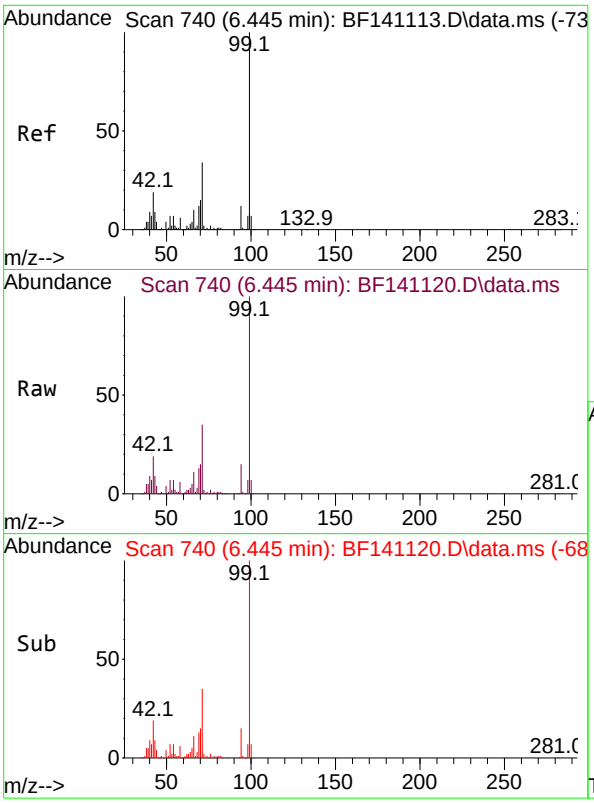


#6
Aniline
Concen: 39.400 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 93 Resp: 453676

Ion	Ratio	Lower	Upper
93	100		
66	40.2	31.5	47.3
65	20.0	15.3	22.9



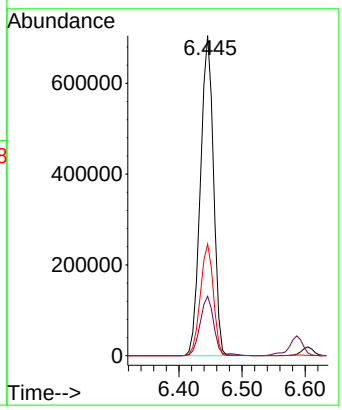


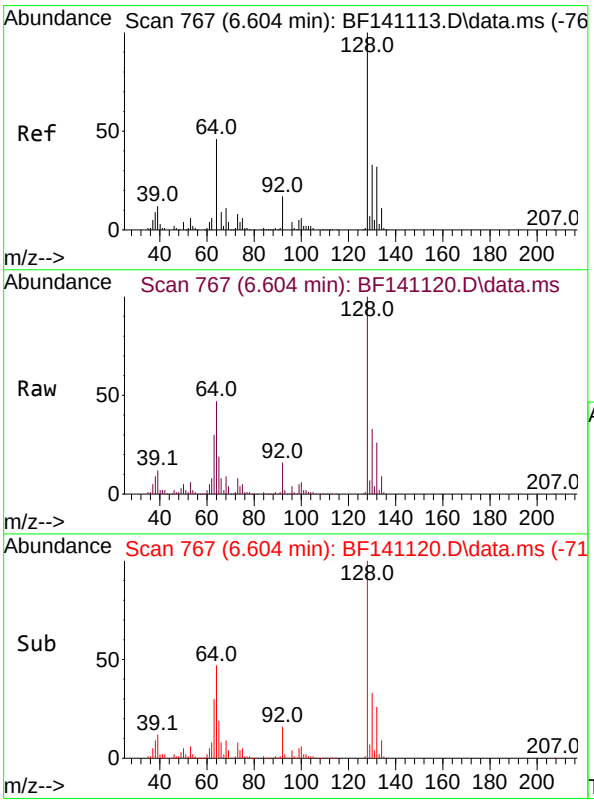
#7
Phenol-d6
Concen: 77.801 ng
RT: 6.445 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 99 Resp: 1009028

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.0	22.4
71	34.9	27.6	41.4

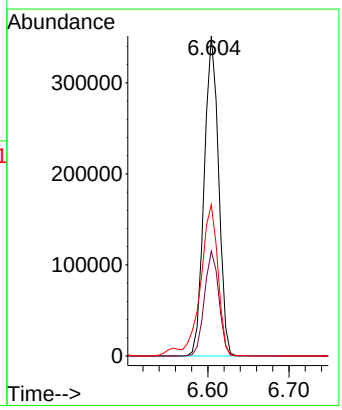


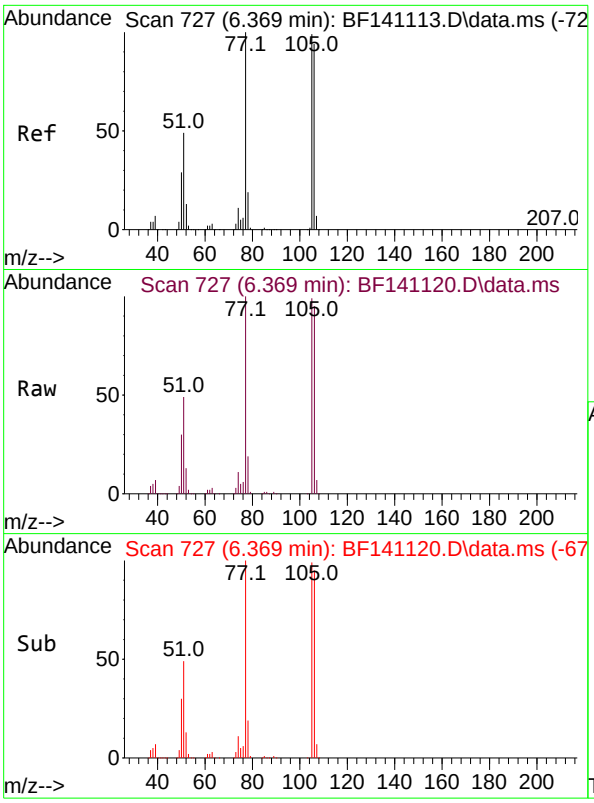


#8
2-Chlorophenol
Concen: 39.284 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:128 Resp: 431526

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.5	52.5
64	47.3	28.3	68.3



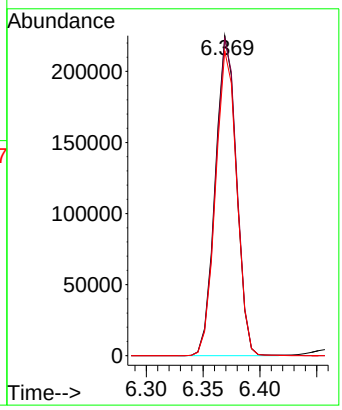


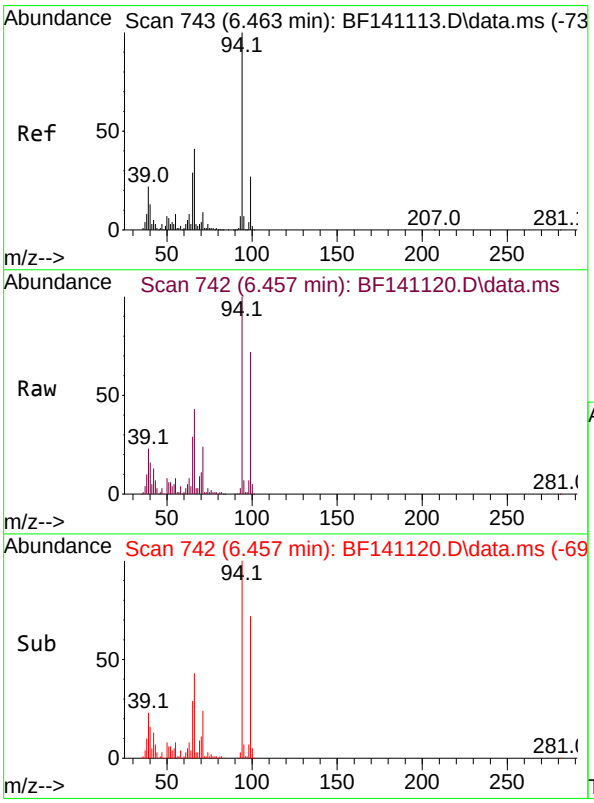
#9
Benzaldehyde
Concen: 37.987 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 77 Resp: 290165

Ion	Ratio	Lower	Upper
77	100		
105	99.1	78.9	118.9
106	95.3	73.6	113.6

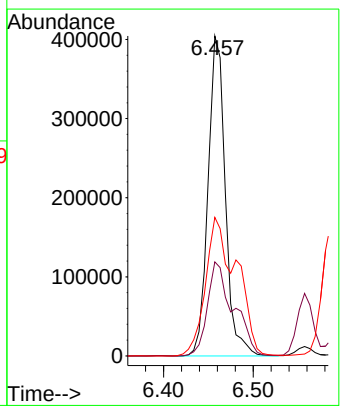


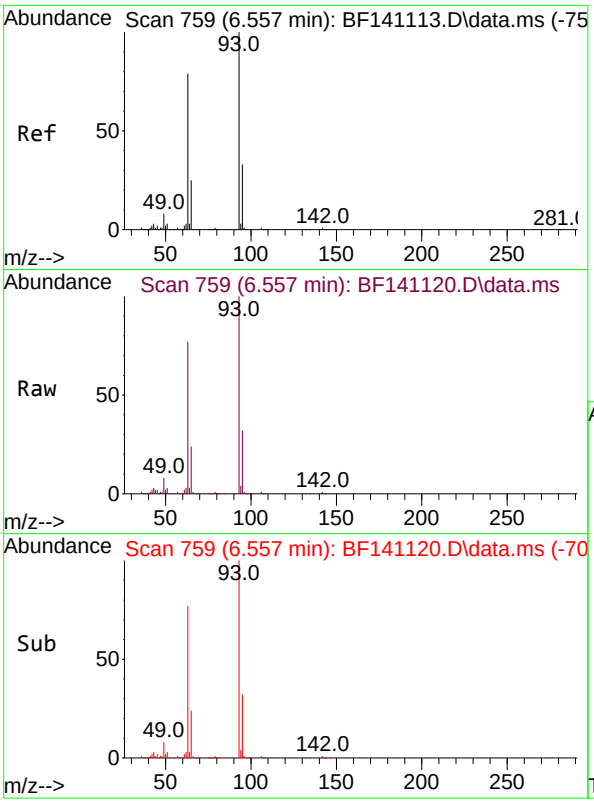


#10
Phenol
Concen: 39.039 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 94 Resp: 541991

Ion	Ratio	Lower	Upper
94	100		
65	29.4	8.9	48.9
66	43.3	21.2	61.2



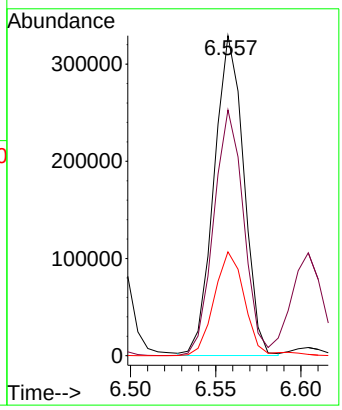


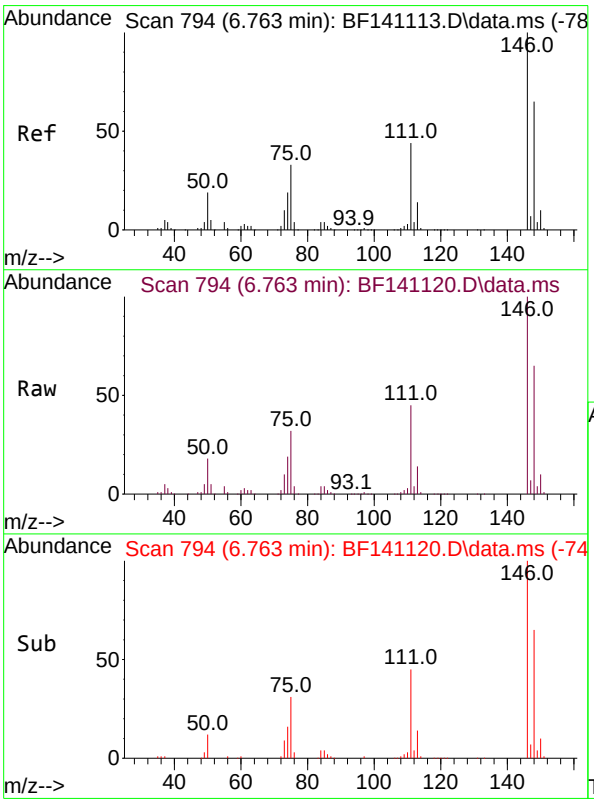
#11
bis(2-Chloroethyl)ether
Concen: 38.657 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 93 Resp: 399965

Ion	Ratio	Lower	Upper
93	100		
63	76.8	58.0	98.0
95	32.4	12.5	52.5

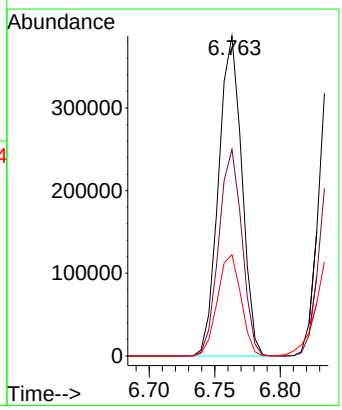


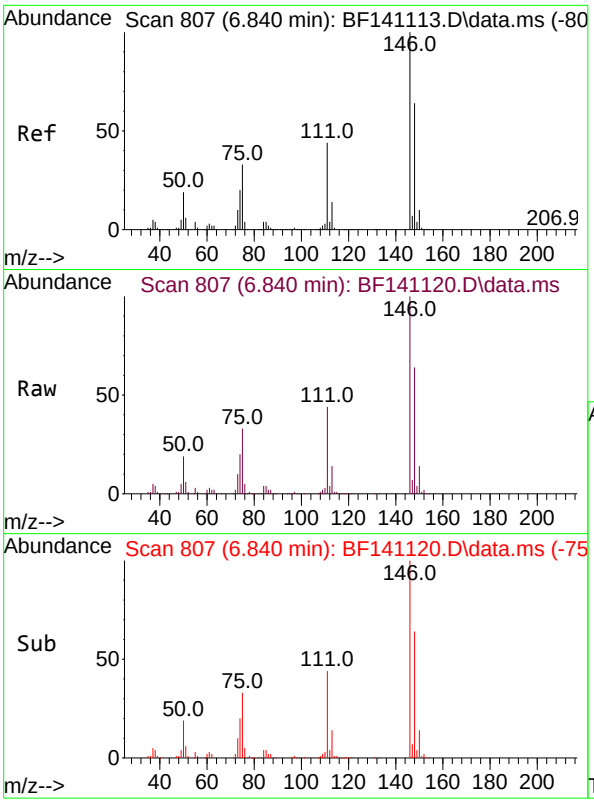


#12
1,3-Dichlorobenzene
Concen: 38.919 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:146 Resp: 476822

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.6	77.4
75	31.7	26.2	39.2



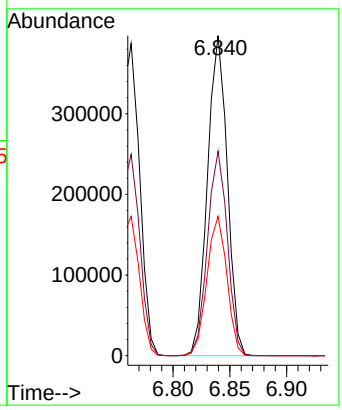


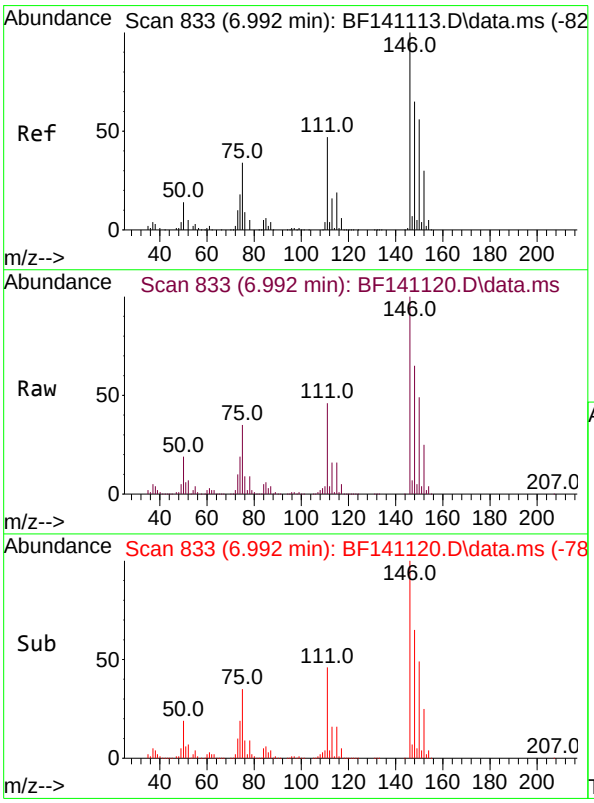
#13
1,4-Dichlorobenzene
Concen: 38.965 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:146 Resp: 481058

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
111	43.5	34.9	52.3

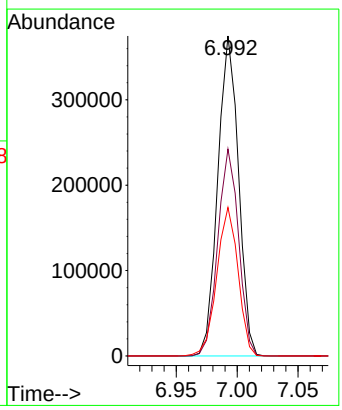


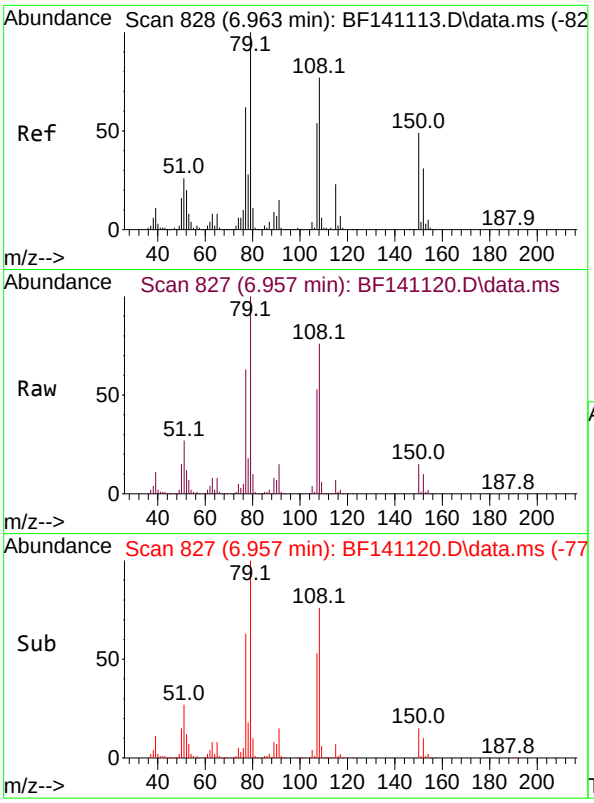


#14
1,2-Dichlorobenzene
Concen: 38.555 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:146 Resp: 444004

Ion	Ratio	Lower	Upper
146	100		
148	64.6	52.2	78.4
111	46.4	37.5	56.3



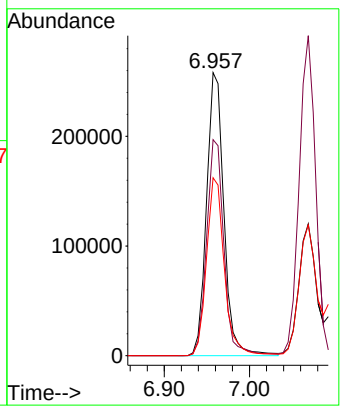


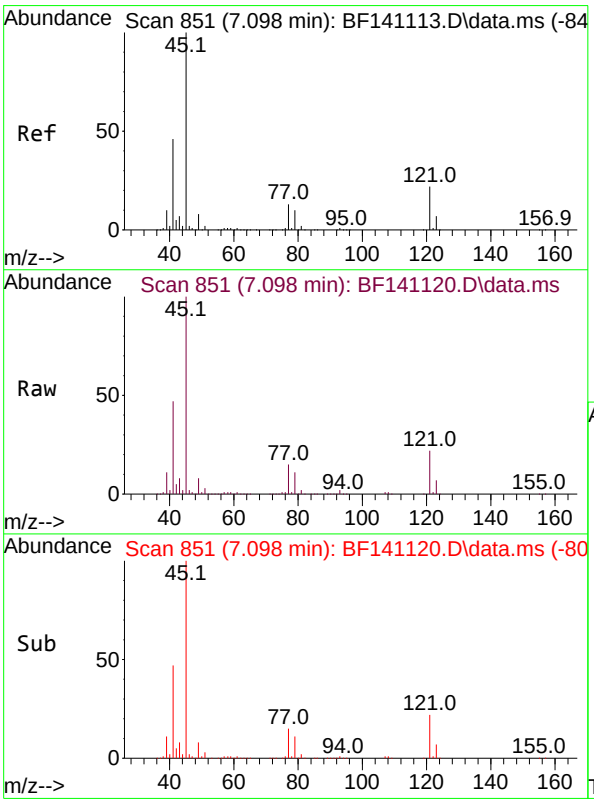
#15
Benzyl Alcohol
Concen: 38.962 ng
RT: 6.957 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 79 Resp: 364926

Ion	Ratio	Lower	Upper
79	100		
108	76.3	61.4	92.0
77	62.8	49.8	74.6

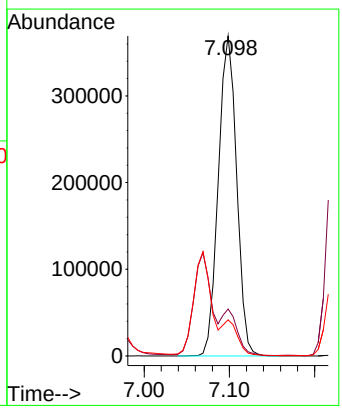


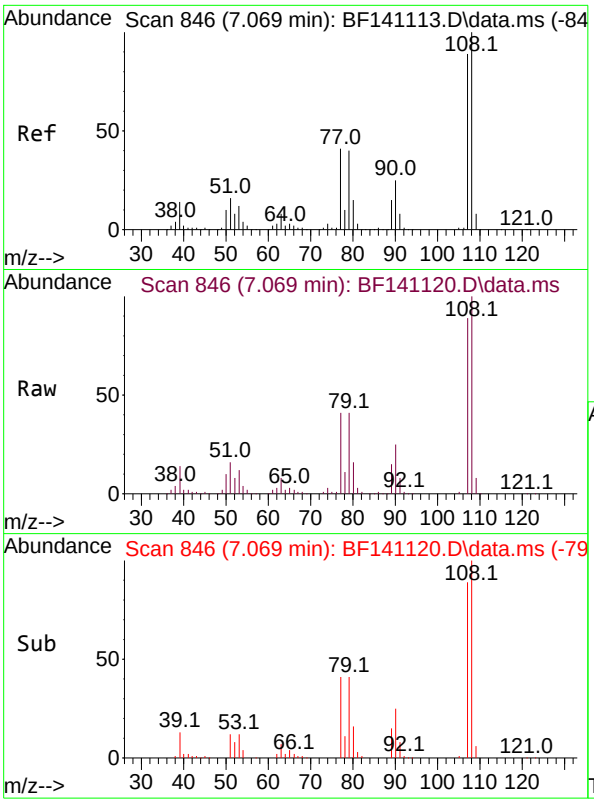


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.086 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 45 Resp: 549884

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	34.1
79	11.3	0.0	31.0



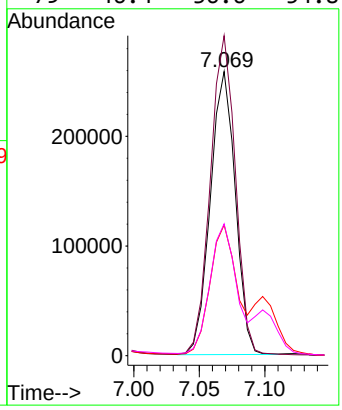


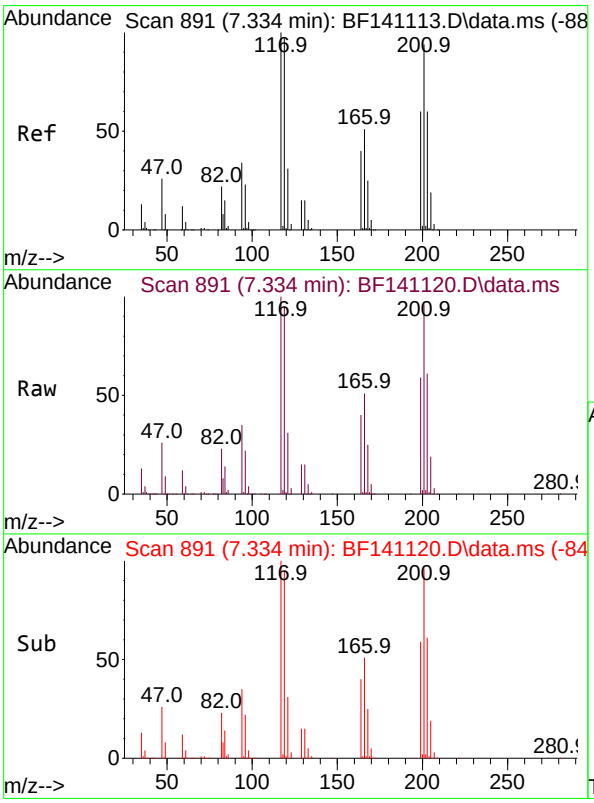
#17
2-Methylphenol
Concen: 38.531 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:107 Resp: 341712

Ion	Ratio	Lower	Upper
107	100		
108	112.6	90.1	135.1
77	46.0	36.6	55.0
79	46.4	36.6	54.8

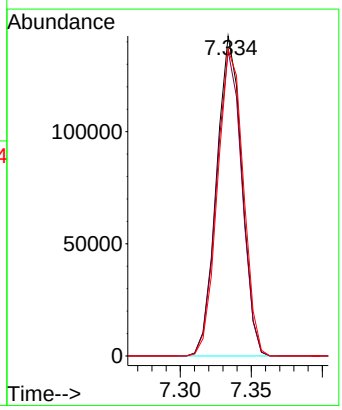


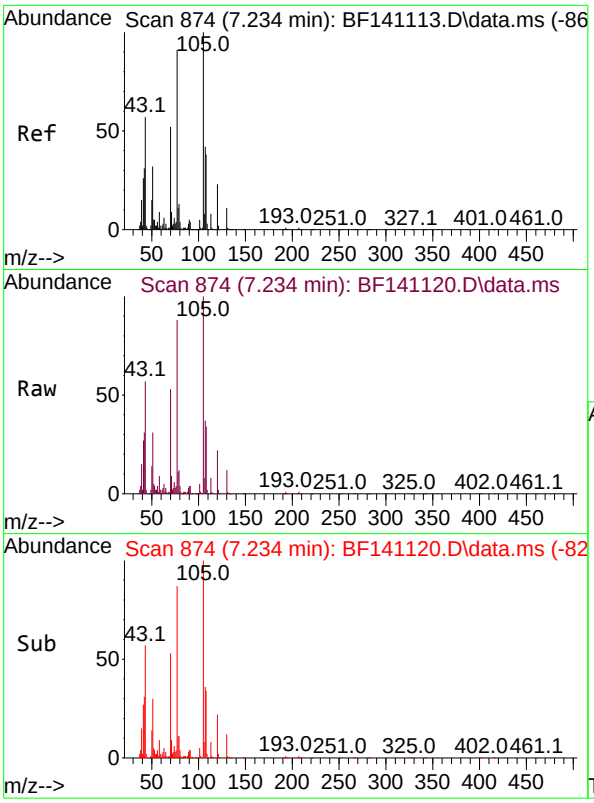


#18
Hexachloroethane
Concen: 39.427 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:117 Resp: 176028

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.6	116.4
201	95.8	75.1	112.7



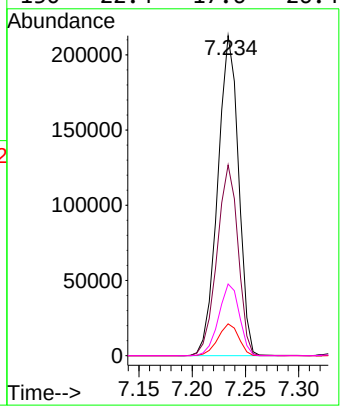


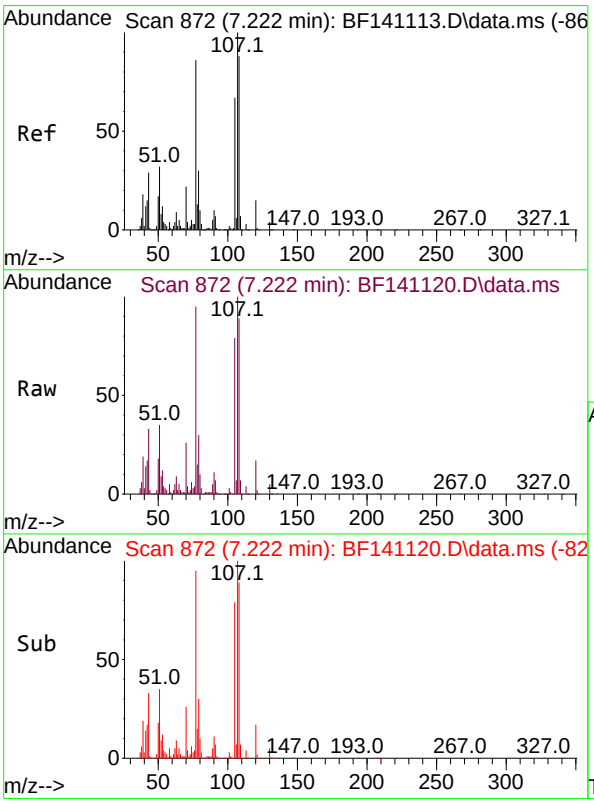
#19
n-Nitroso-di-n-propylamine
Concen: 37.834 ng
RT: 7.234 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 70 Resp: 289047

Ion	Ratio	Lower	Upper
70	100		
42	59.6	47.8	71.6
101	9.9	7.9	11.9
130	22.4	17.6	26.4

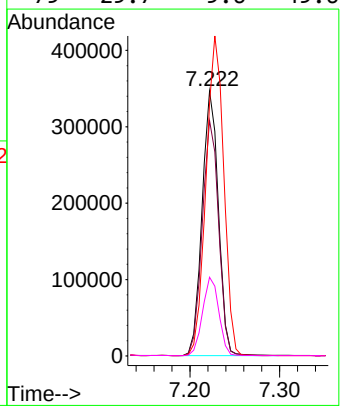


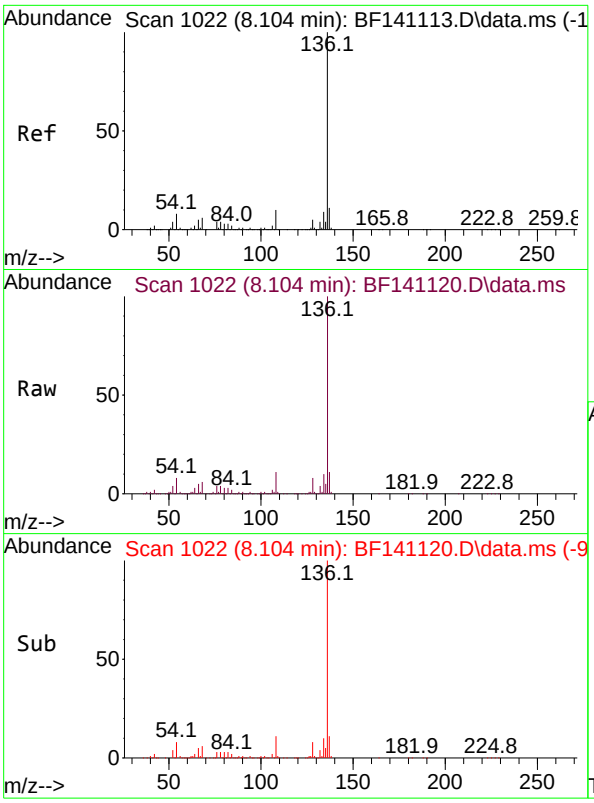


#20
3+4-Methylphenols
Concen: 39.098 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:107 Resp: 437446

Ion	Ratio	Lower	Upper
107	100		
108	88.8	68.3	108.3
77	95.5	66.4	106.4
79	29.7	9.6	49.6



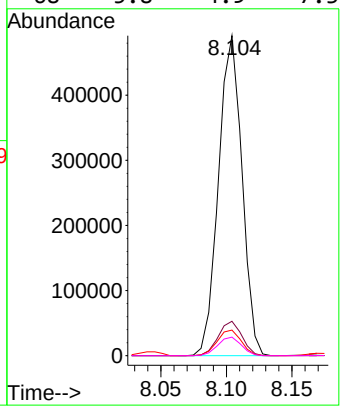


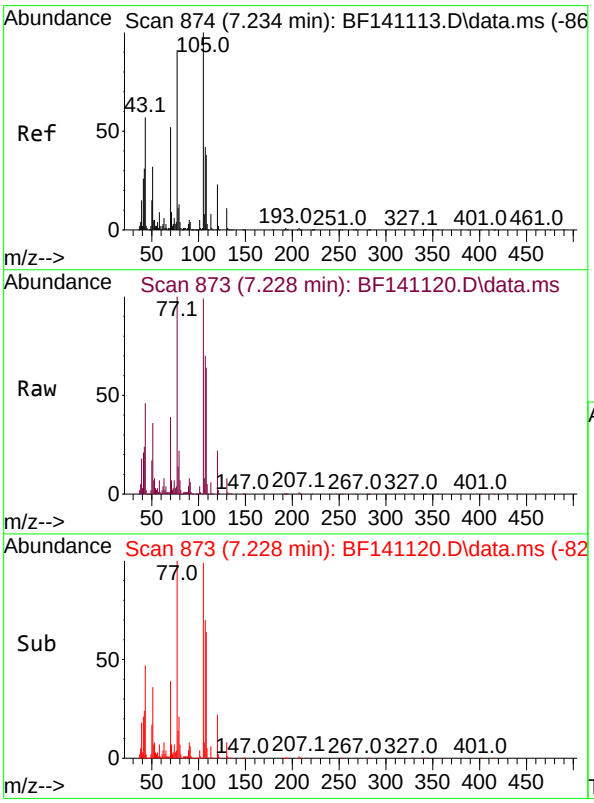
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:136 Resp: 612449

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	8.0	6.3	9.5
68	5.8	4.9	7.3

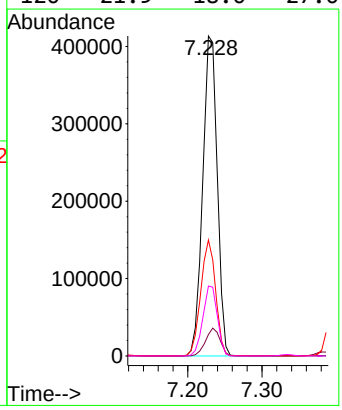


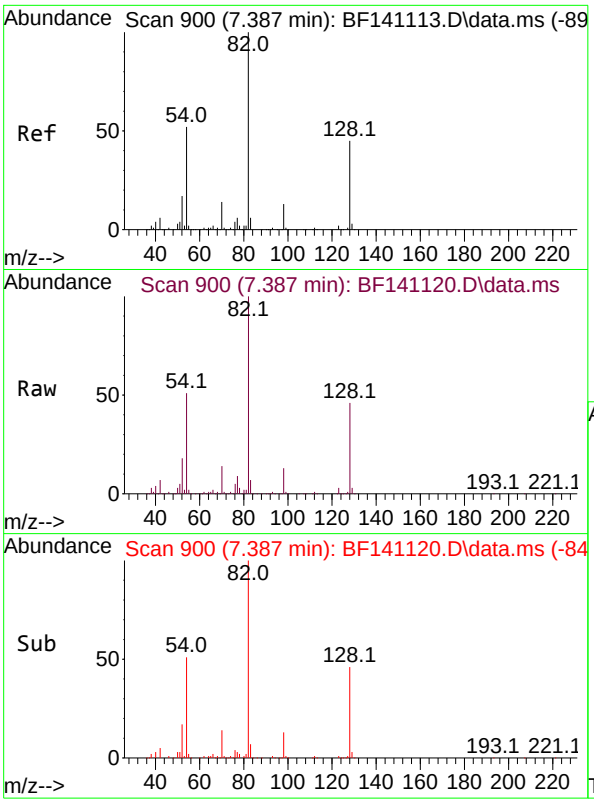


#22
Acetophenone
Concen: 38.700 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:105 Resp: 563455

Ion	Ratio	Lower	Upper
105	100		
71	6.7	7.1	10.7#
51	36.3	25.4	38.2
120	21.9	18.0	27.0



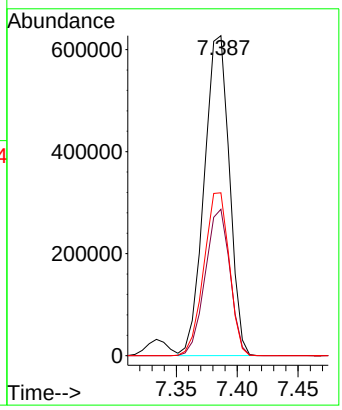


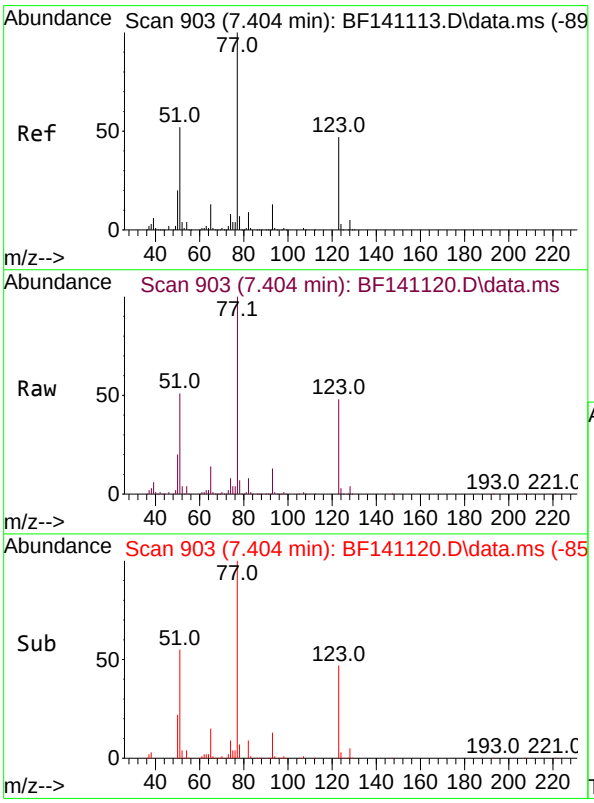
#23
Nitrobenzene-d5
Concen: 77.918 ng
RT: 7.387 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 82 Resp: 900254

Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.1	54.1
54	50.9	41.0	61.4

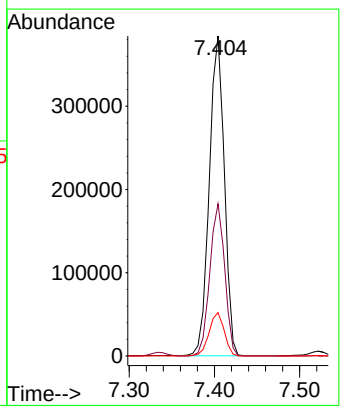


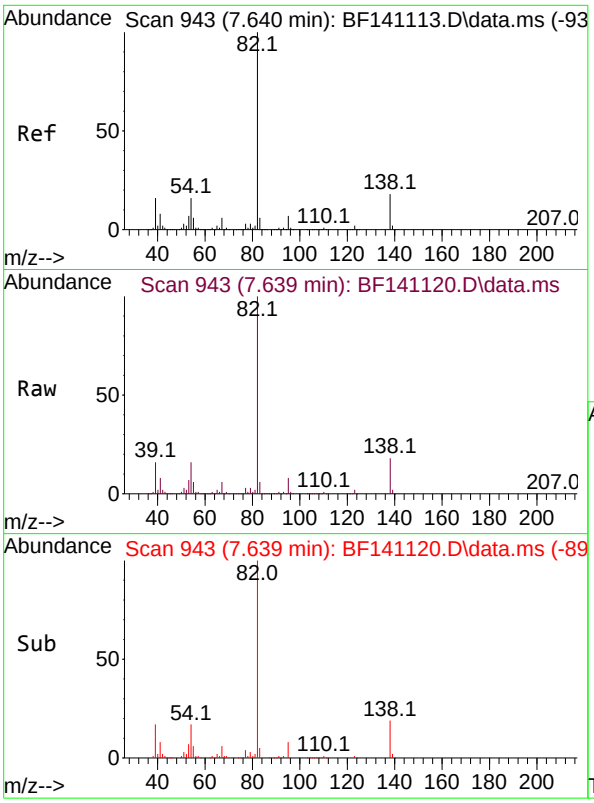


#24
Nitrobenzene
Concen: 39.180 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 77 Resp: 471786

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.7	56.5
65	13.6	10.6	16.0



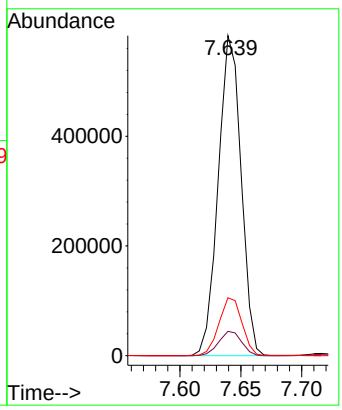


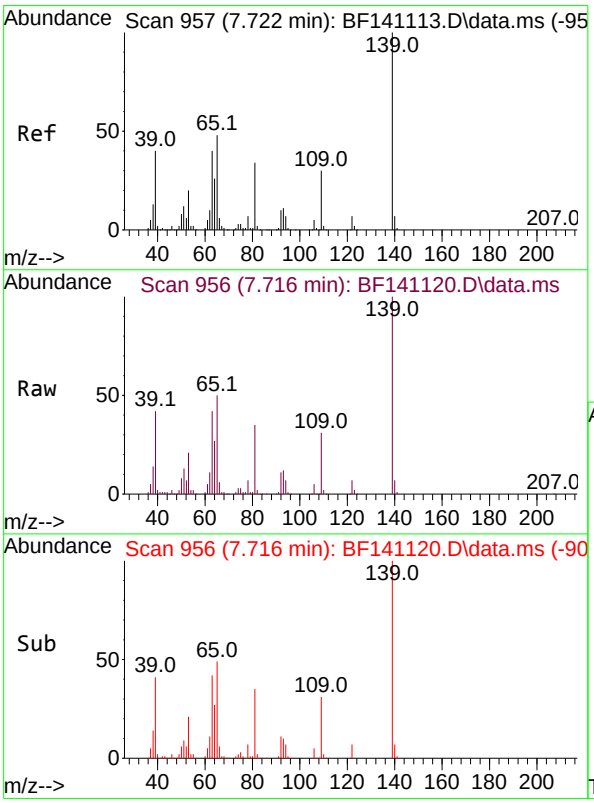
#25
Isophorone
Concen: 38.631 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 82 Resp: 762772

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.9	8.9
138	18.1	14.2	21.2

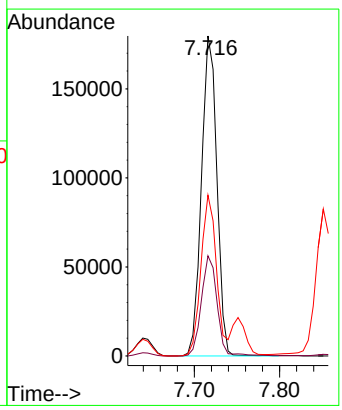


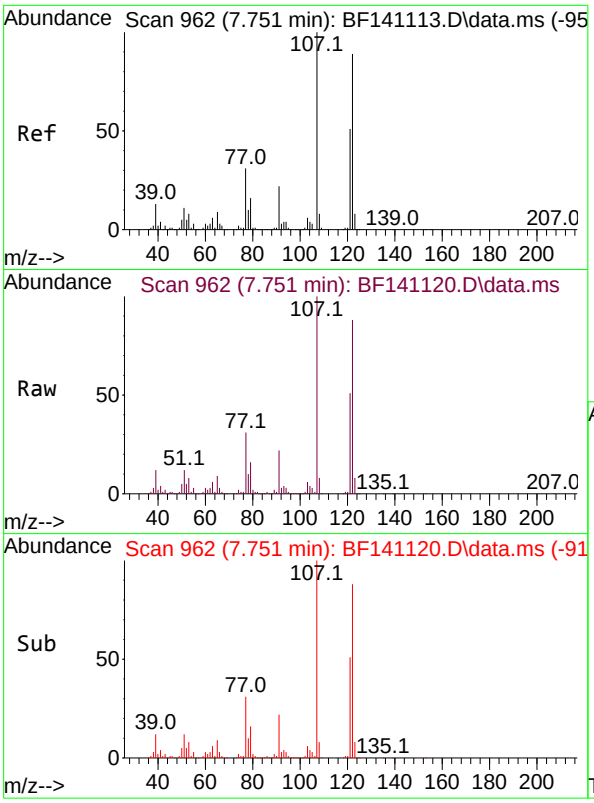


#26
2-Nitrophenol
Concen: 41.163 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:139 Resp: 225470

Ion	Ratio	Lower	Upper
139	100		
109	31.3	23.8	35.6
65	50.3	38.5	57.7



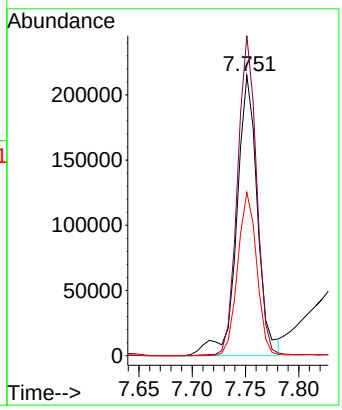


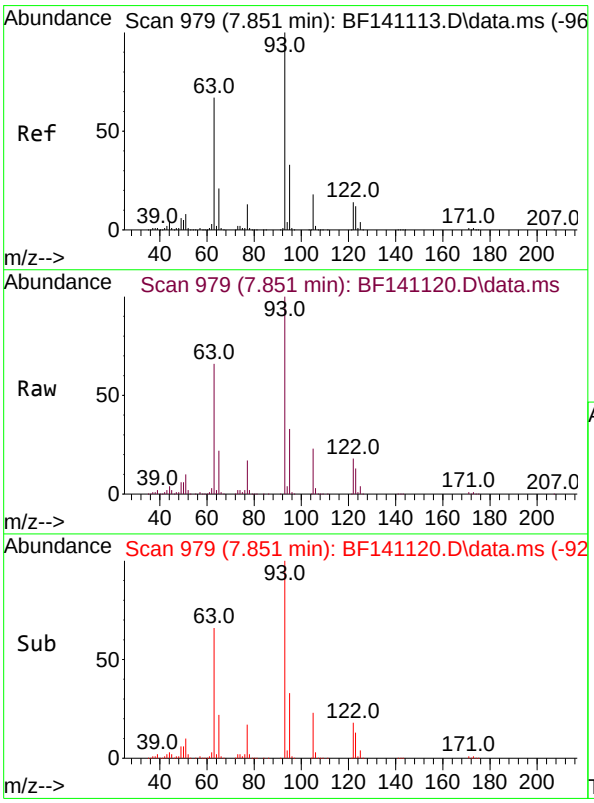
#27
2,4-Dimethylphenol
Concen: 39.432 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:122 Resp: 291335

Ion	Ratio	Lower	Upper
122	100		
107	114.2	90.3	135.5
121	58.3	46.5	69.7

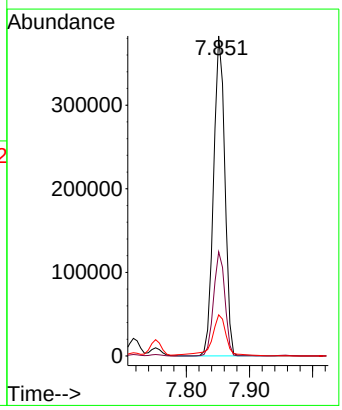


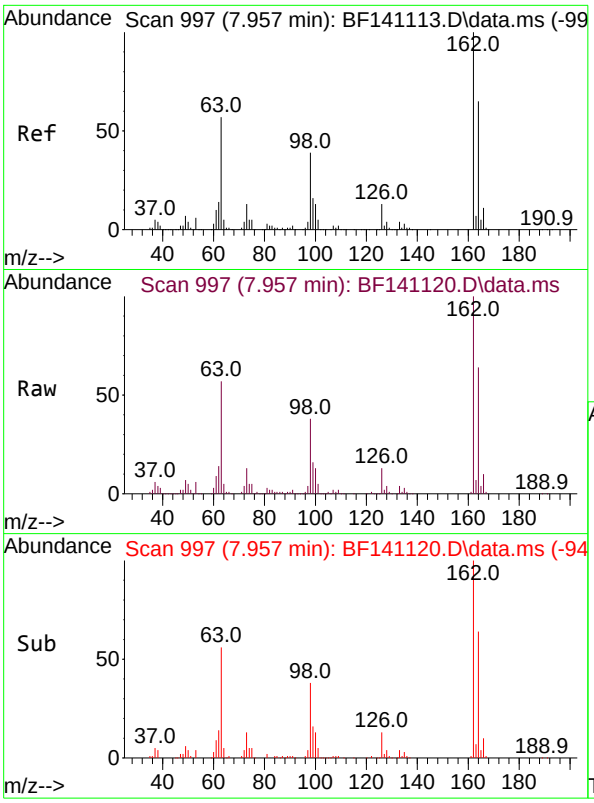


#28
bis(2-Chloroethoxy)methane
Concen: 38.235 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 93 Resp: 473792

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.2	39.4
123	12.9	10.1	15.1



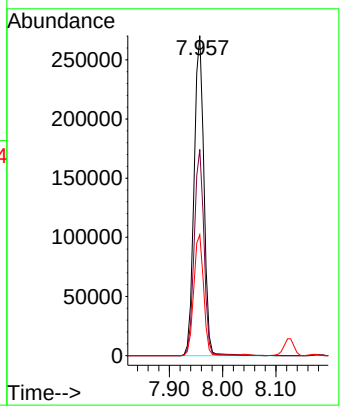


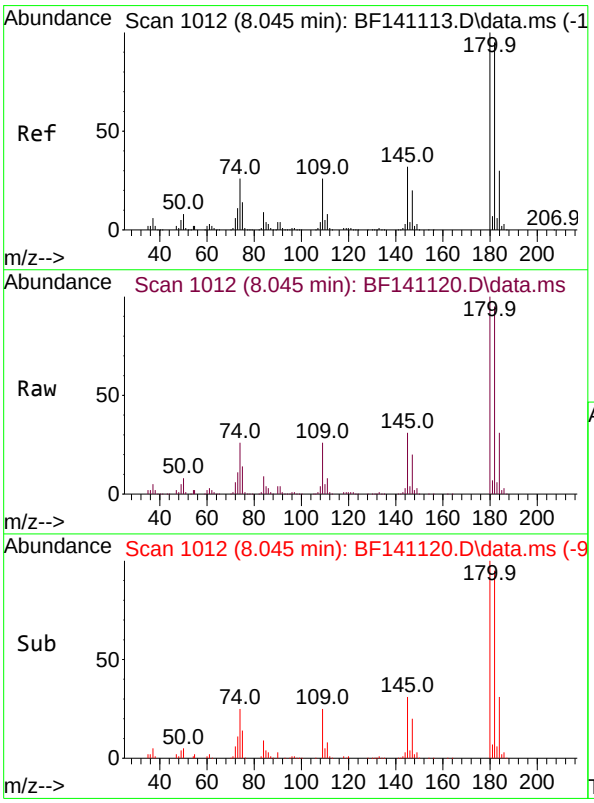
#29
2,4-Dichlorophenol
Concen: 39.652 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:162 Resp: 347943

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.5	84.5
98	37.8	18.5	58.5

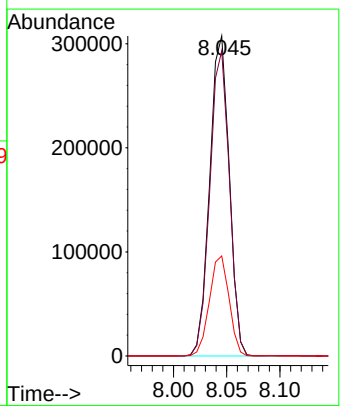


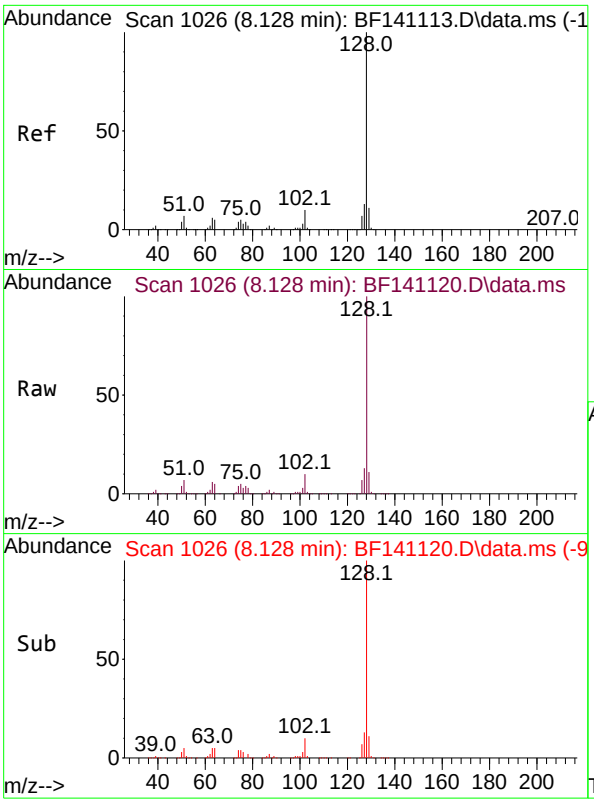


#30
1,2,4-Trichlorobenzene
Concen: 39.055 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:180 Resp: 391725

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.2
145	31.2	25.3	37.9



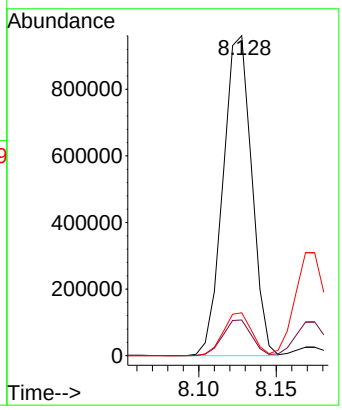


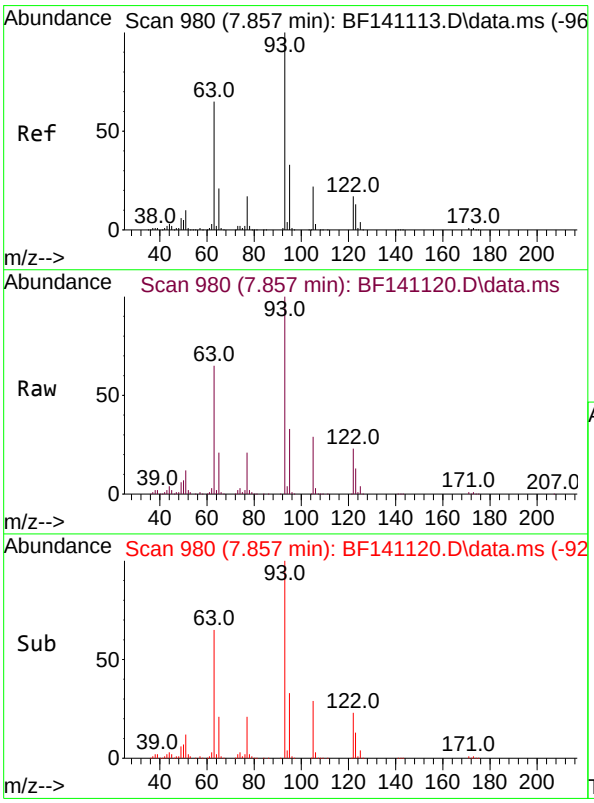
#31
Naphthalene
Concen: 38.230 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:128 Resp: 1234761

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.4	10.8	16.2

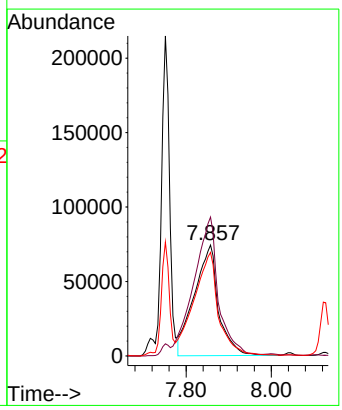


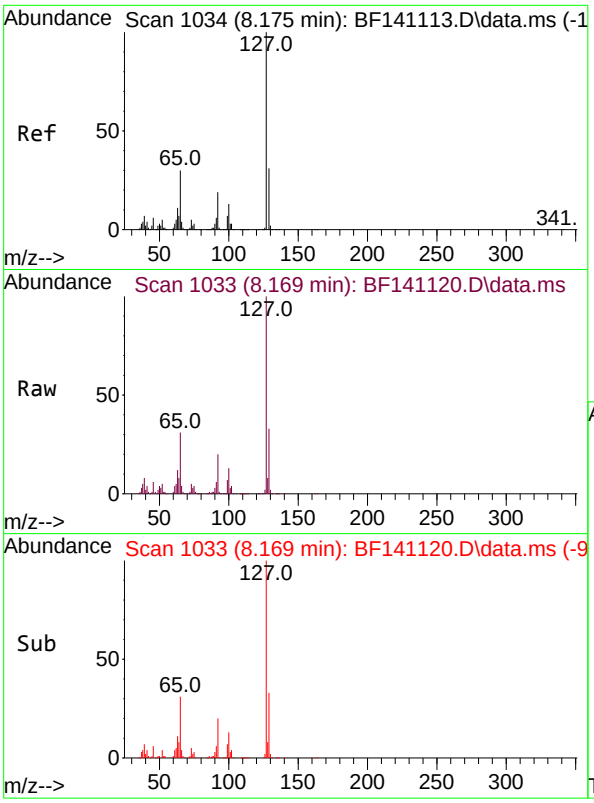


#32
Benzoic acid
Concen: 41.415 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:122 Resp: 293529

Ion	Ratio	Lower	Upper
122	100		
105	125.3	105.5	145.5
77	93.4	75.1	115.1



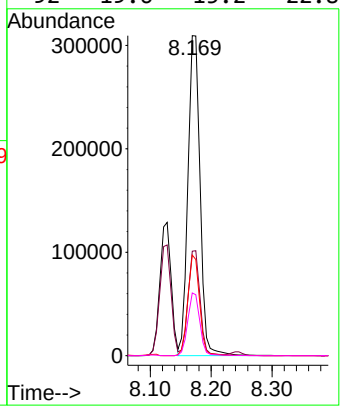


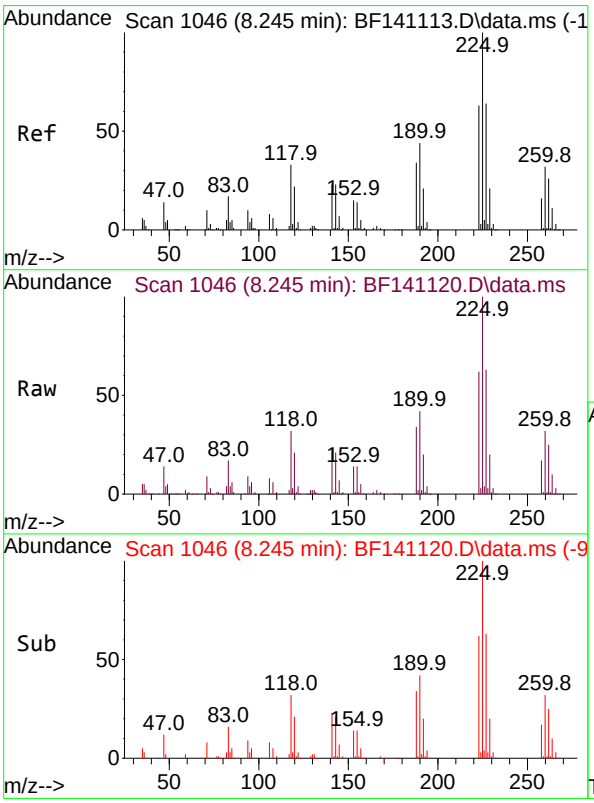
#33
4-Chloroaniline
Concen: 38.252 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:127 Resp: 427268

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	31.4	23.8	35.8
92	19.6	15.2	22.8

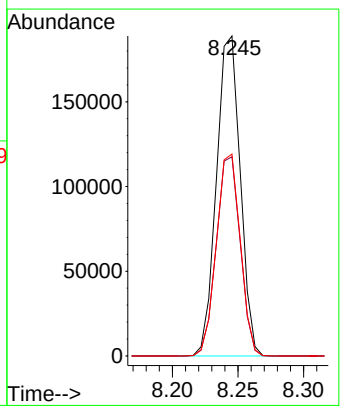


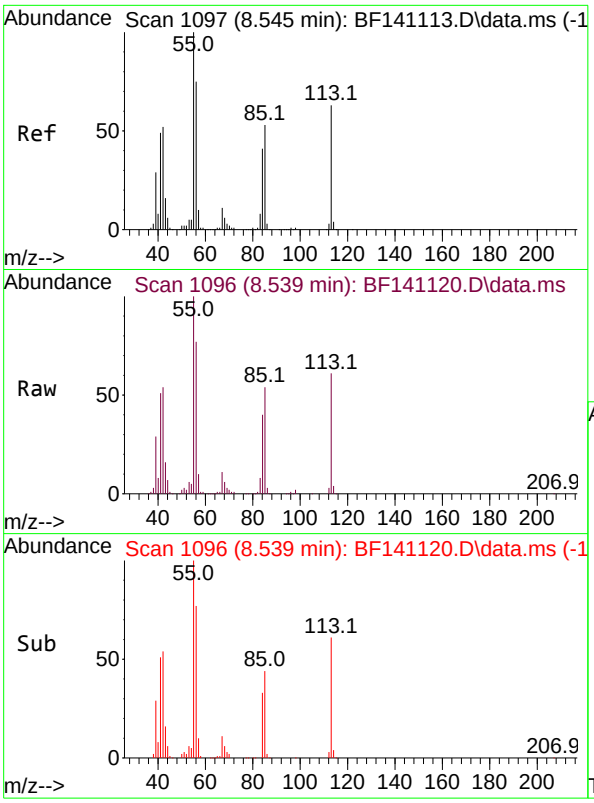


#34
Hexachlorobutadiene
Concen: 39.380 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:225 Resp: 238001

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.6	76.0
227	63.1	51.6	77.4



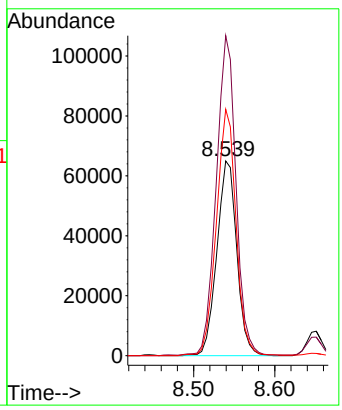


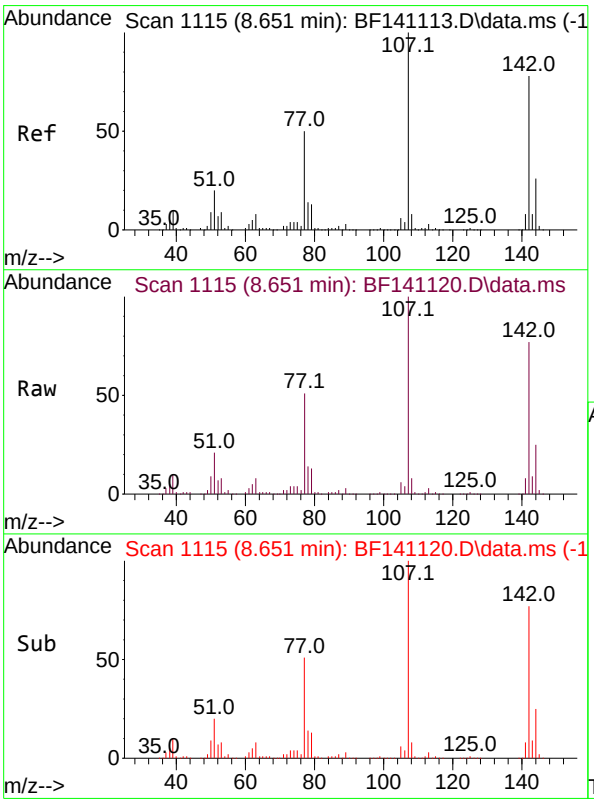
#35
Caprolactam
Concen: 38.578 ng
RT: 8.539 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:113 Resp: 110830

Ion	Ratio	Lower	Upper
113	100		
55	164.3	139.7	179.7
56	126.5	99.4	139.4

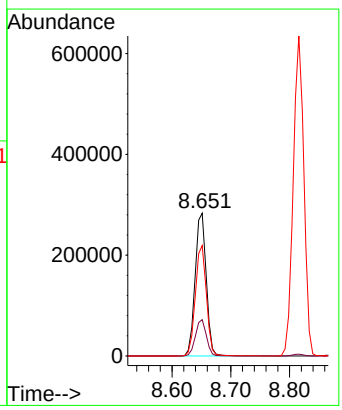


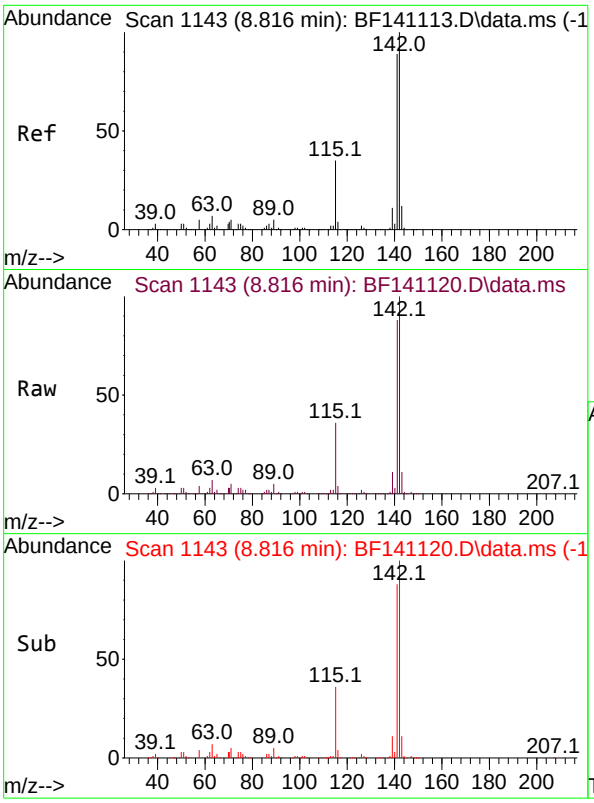


#36
4-Chloro-3-methylphenol
Concen: 38.752 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:107 Resp: 371891

Ion	Ratio	Lower	Upper
107	100		
144	25.4	20.4	30.6
142	77.4	62.2	93.2



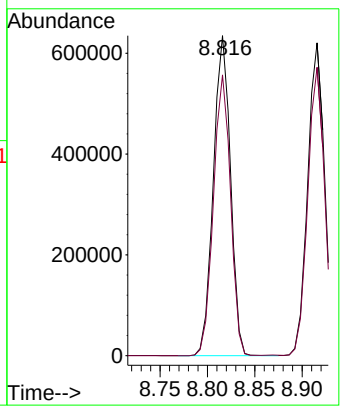


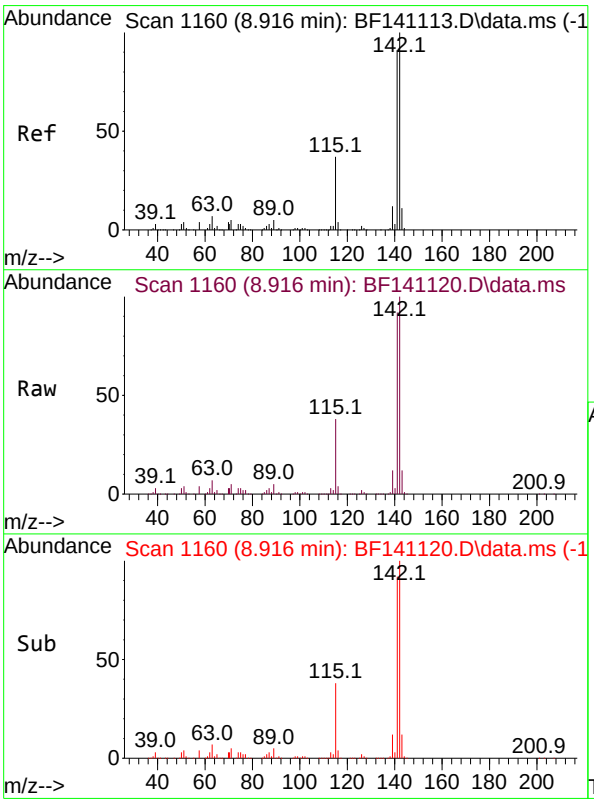
#37
2-Methylnaphthalene
Concen: 38.737 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:142 Resp: 797256

Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.3	106.9

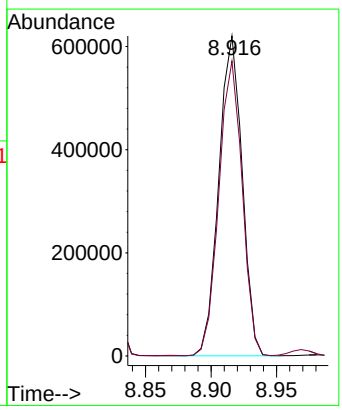


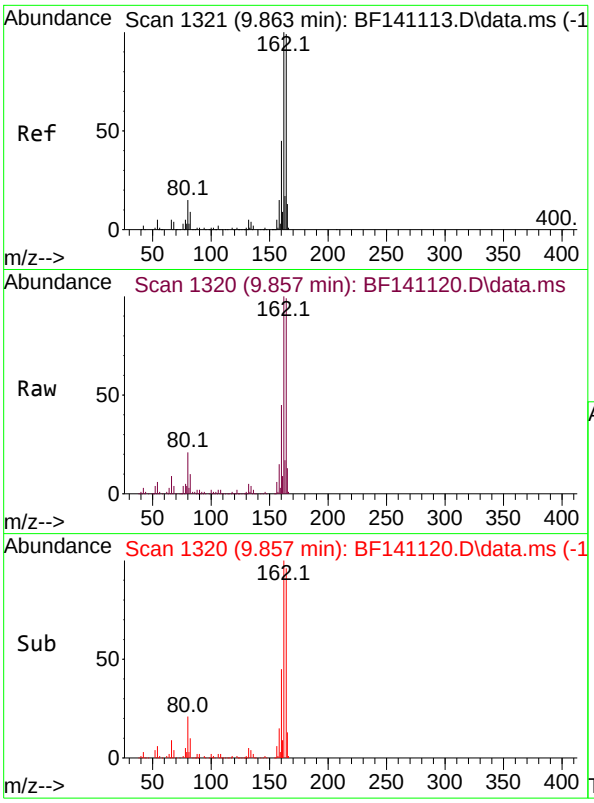


#38
1-Methylnaphthalene
Concen: 37.862 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:142 Resp: 767986

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.1	109.7



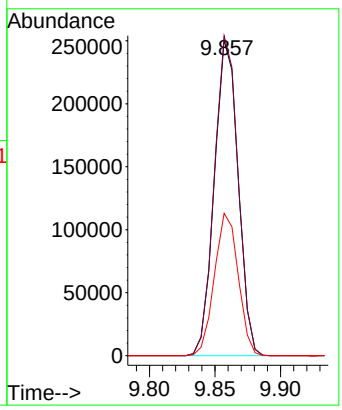


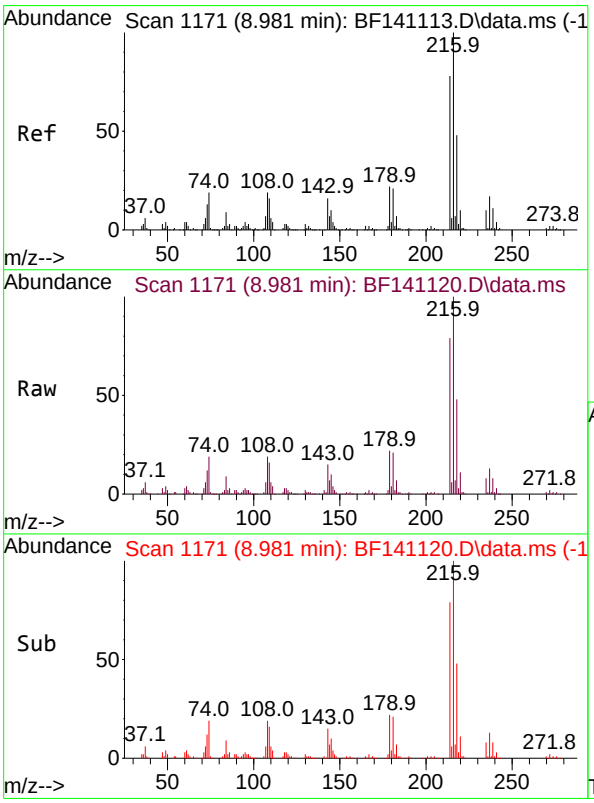
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:164 Resp: 314997

Ion	Ratio	Lower	Upper
164	100		
162	101.4	81.0	121.4
160	45.1	36.1	54.1

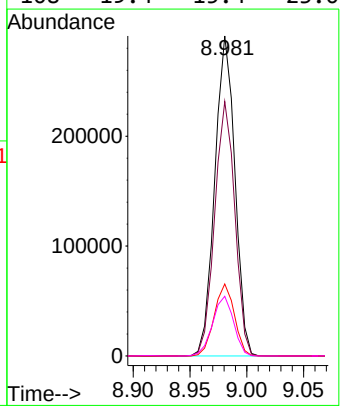


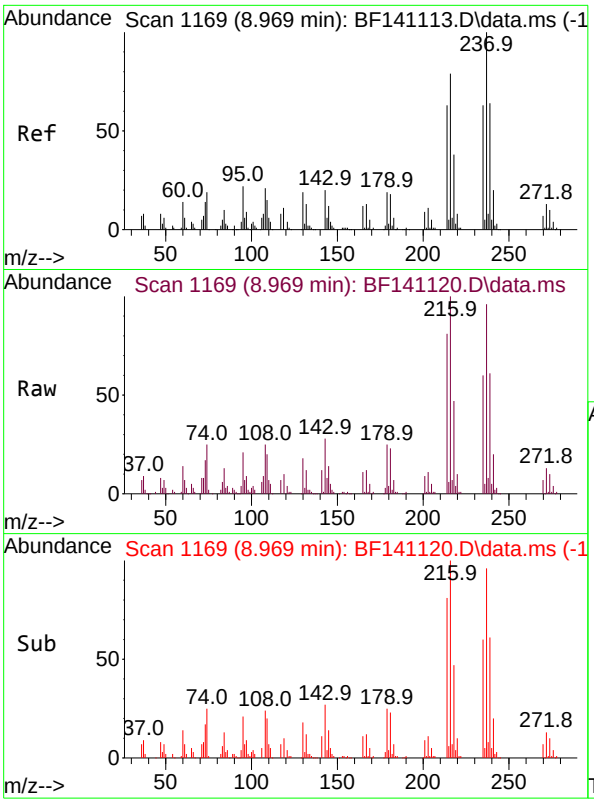


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.725 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:216 Resp: 359153

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.6	94.0
179	22.5	17.7	26.5
108	19.4	15.4	23.0



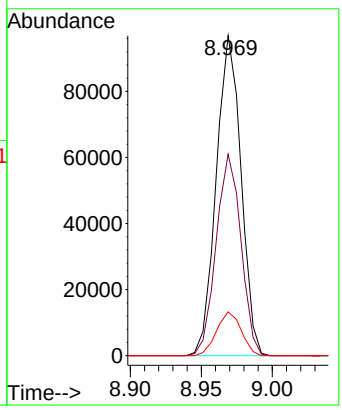


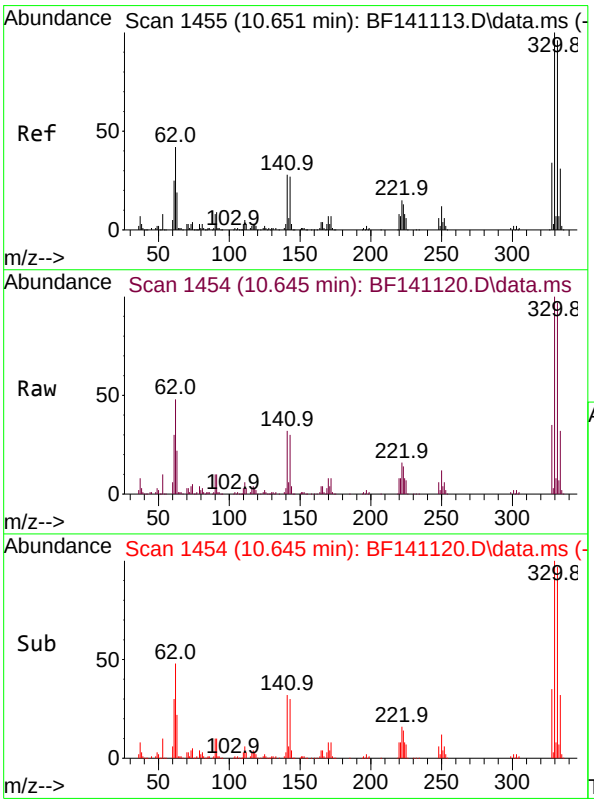
#41
Hexachlorocyclopentadiene
Concen: 39.744 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:237 Resp: 117559

Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.0	83.0
272	13.7	0.0	33.0

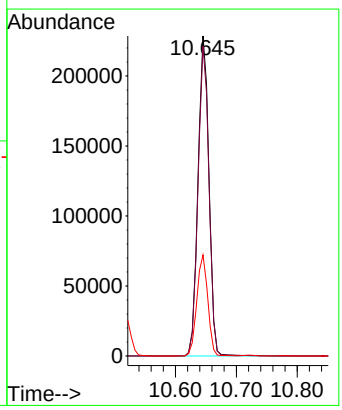


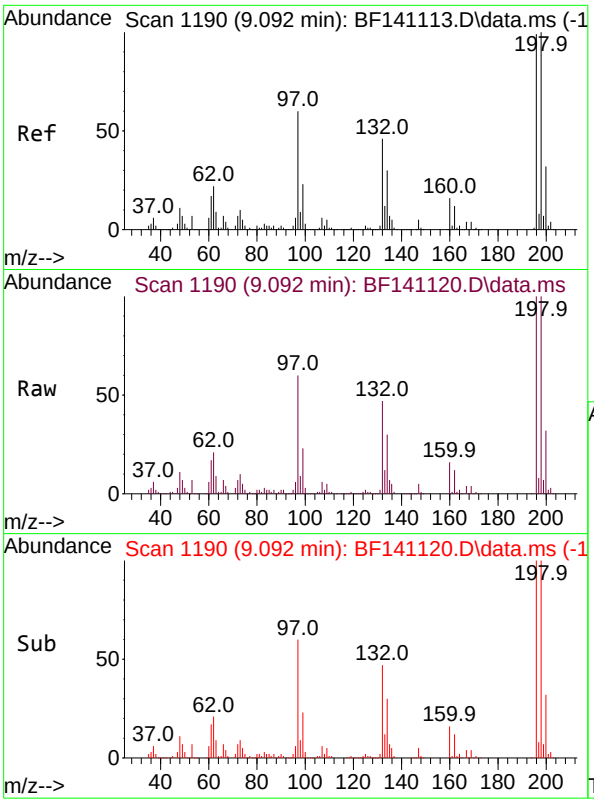


#42
2,4,6-Tribromophenol
Concen: 79.554 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:330 Resp: 285534

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	31.6	25.2	37.8



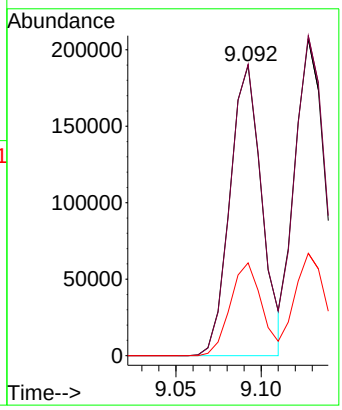


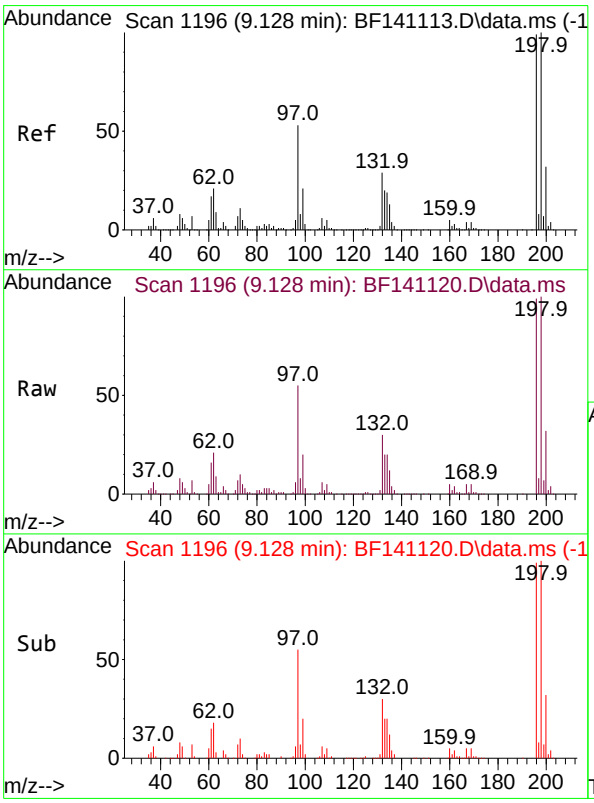
#43
2,4,6-Trichlorophenol
Concen: 40.474 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:196 Resp: 246797

Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.8	121.2
200	32.0	25.7	38.5

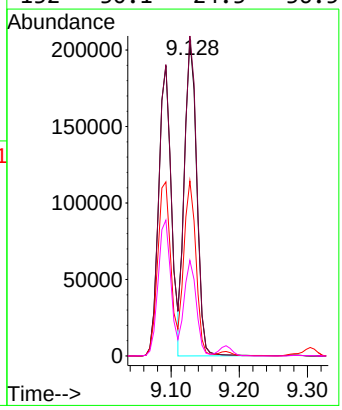


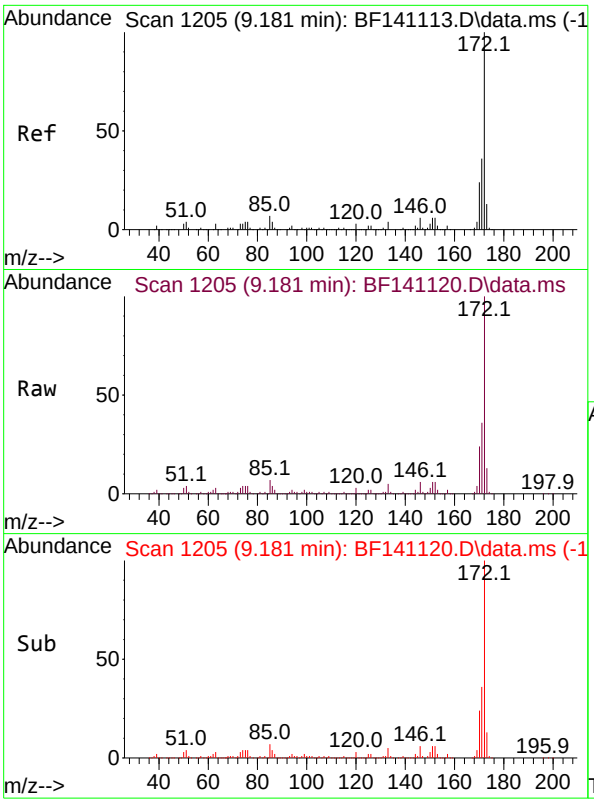


#44
2,4,5-Trichlorophenol
Concen: 40.064 ng
RT: 9.128 min Scan# 1196
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:196 Resp: 258003

Ion	Ratio	Lower	Upper
196	100		
198	101.0	80.6	120.8
97	55.3	43.1	64.7
132	30.1	24.3	36.5



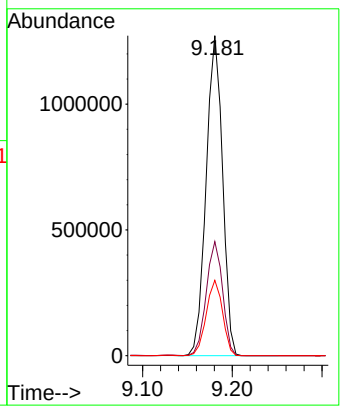


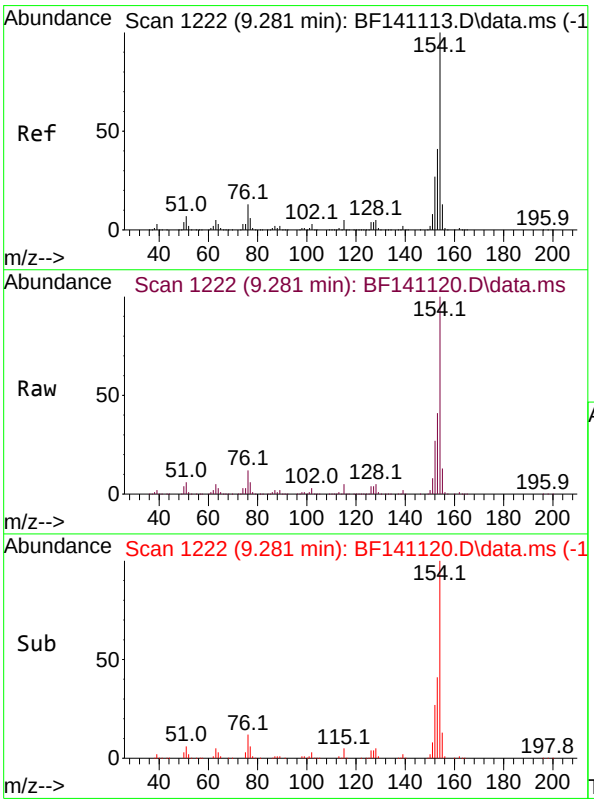
#45
2-Fluorobiphenyl
Concen: 78.281 ng
RT: 9.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:172 Resp: 1614765

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.6	19.0	28.6

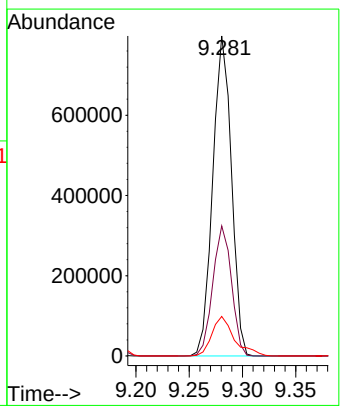


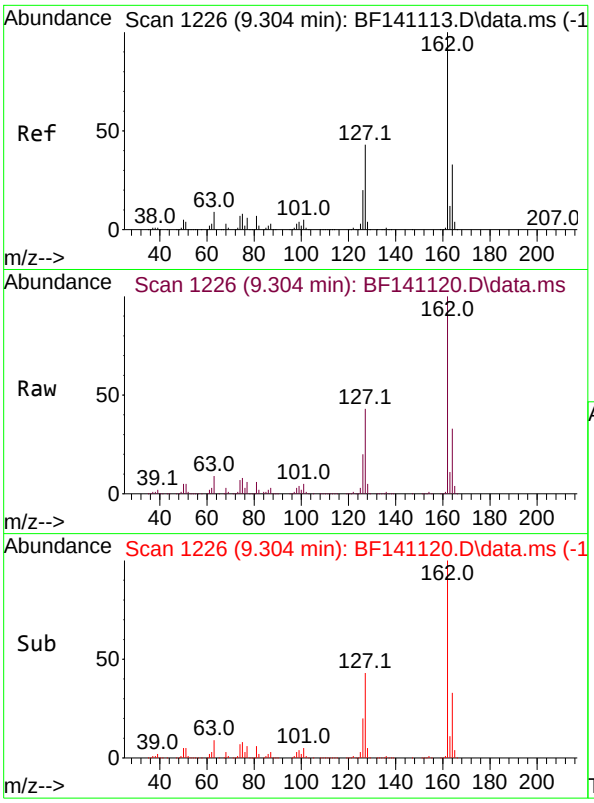


#46
1,1'-Biphenyl
Concen: 39.682 ng
RT: 9.281 min Scan# 1222
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:154 Resp: 970736

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.7	60.7
76	12.4	0.0	33.1



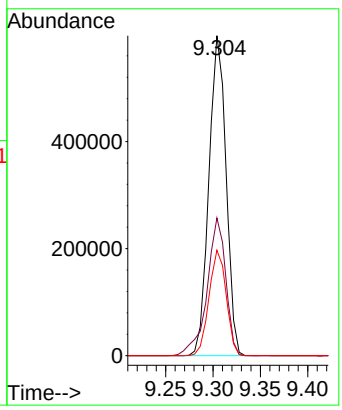


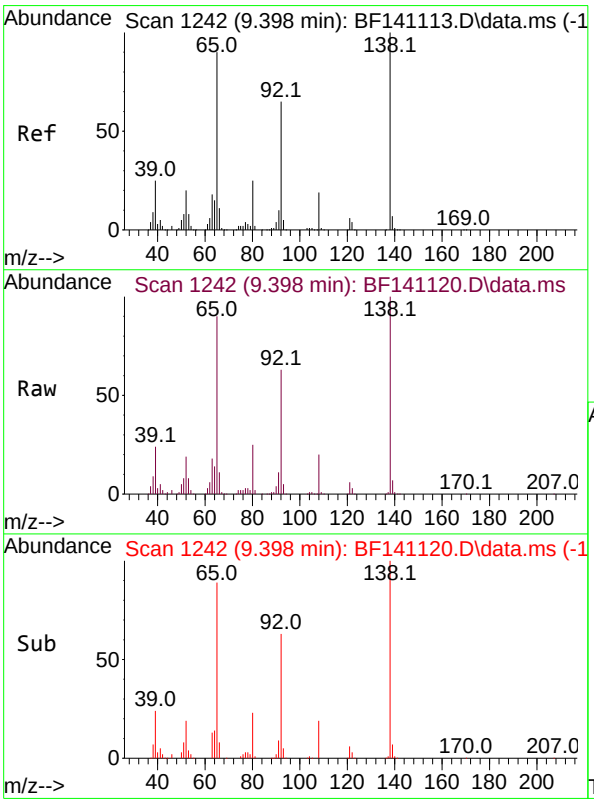
#47
2-Chloronaphthalene
Concen: 39.481 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:162 Resp: 752248

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.6	51.8
164	33.0	26.5	39.7

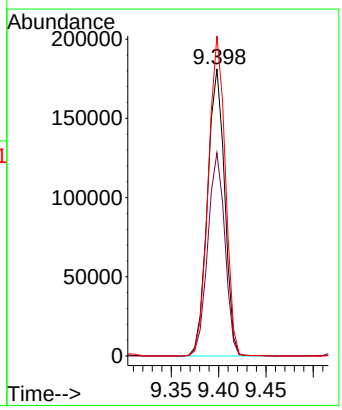


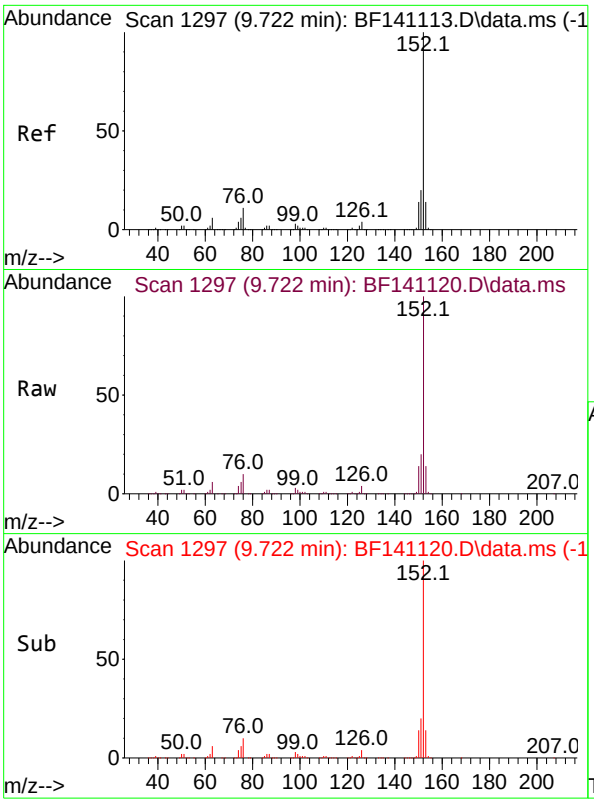


#48
2-Nitroaniline
Concen: 40.330 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion: 65 Resp: 227785

Ion	Ratio	Lower	Upper
65	100		
92	70.8	58.3	87.5
138	111.5	89.1	133.7



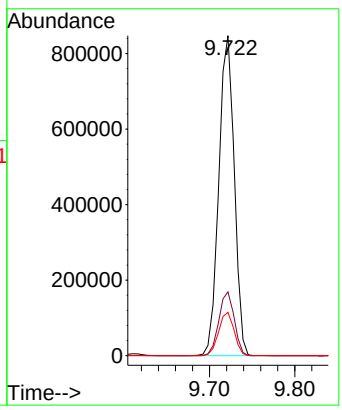


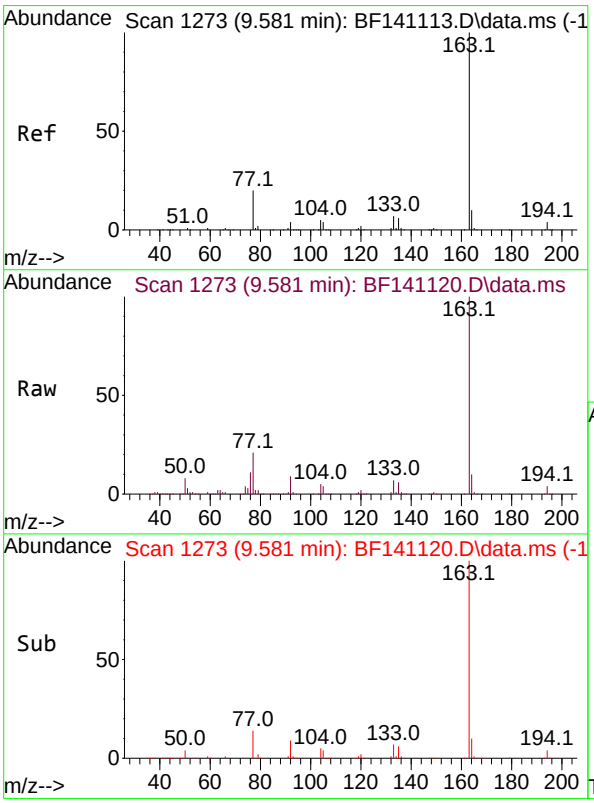
#49
Acenaphthylene
Concen: 39.356 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:152 Resp: 1071325

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.5	11.1	16.7

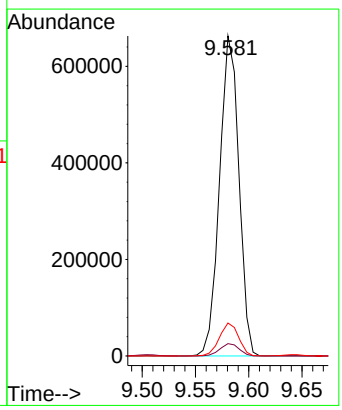


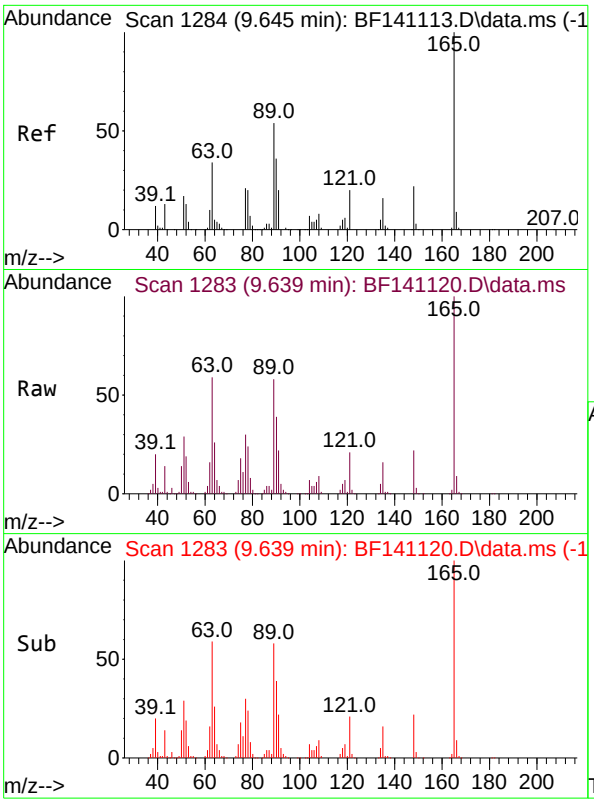


#50
Dimethylphthalate
Concen: 39.515 ng
RT: 9.581 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:163 Resp: 835630

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.2	12.4



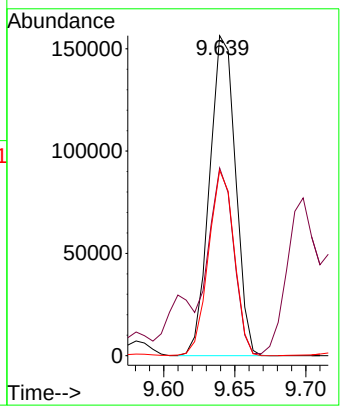


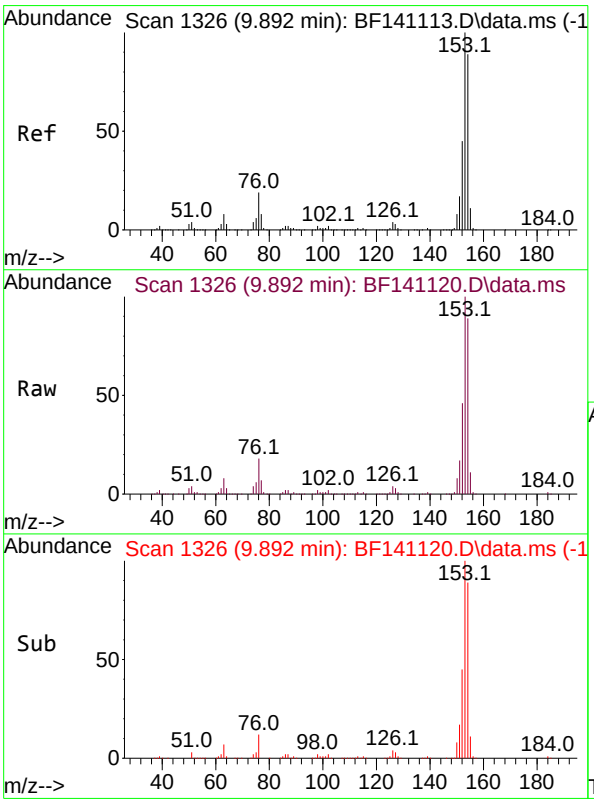
#51
2,6-Dinitrotoluene
Concen: 40.554 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:165 Resp: 199428

Ion	Ratio	Lower	Upper
165	100		
63	58.7	42.3	63.5
89	57.9	43.1	64.7

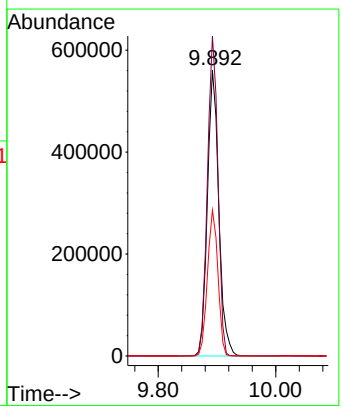




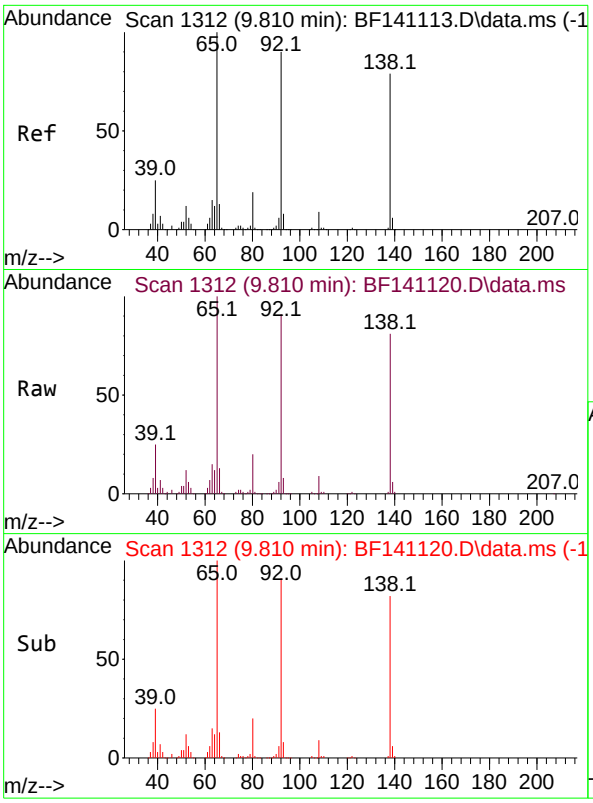
#52
Acenaphthene
Concen: 39.611 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:154 Resp: 753339

Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.8	134.6
152	51.0	40.8	61.2



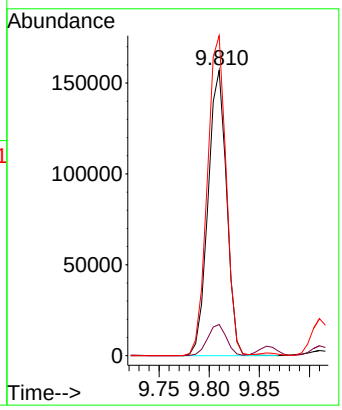
Instrument :
BNA_F
ClientSampleId :
ICVBF011025

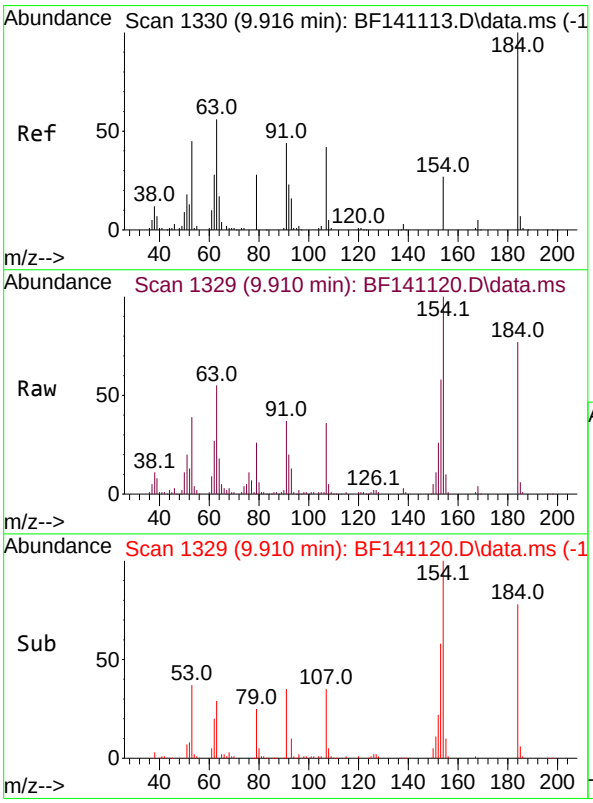


#53
3-Nitroaniline
Concen: 40.360 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:138 Resp: 201692

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.8	13.2
92	112.1	91.3	136.9

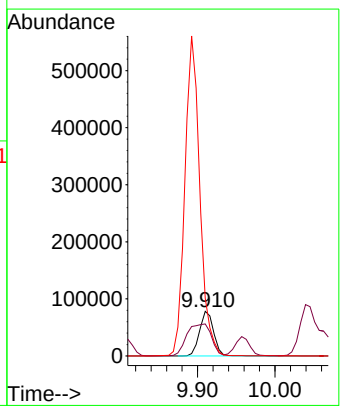


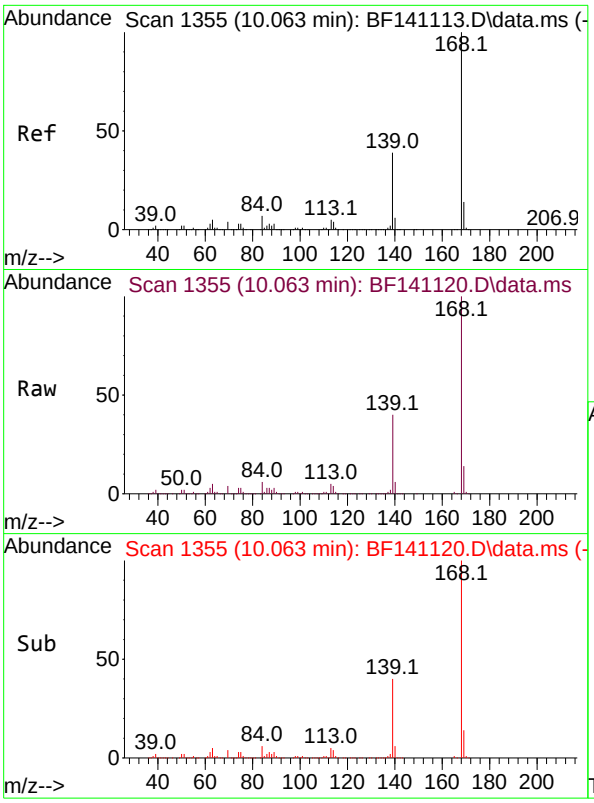


#54
2,4-Dinitrophenol
Concen: 42.266 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:184 Resp: 98794

Ion	Ratio	Lower	Upper
184	100		
63	71.7	48.7	73.1
154	129.2	57.1	85.7#



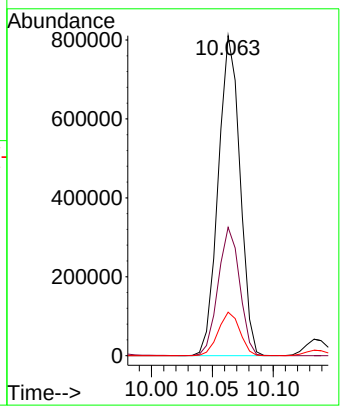


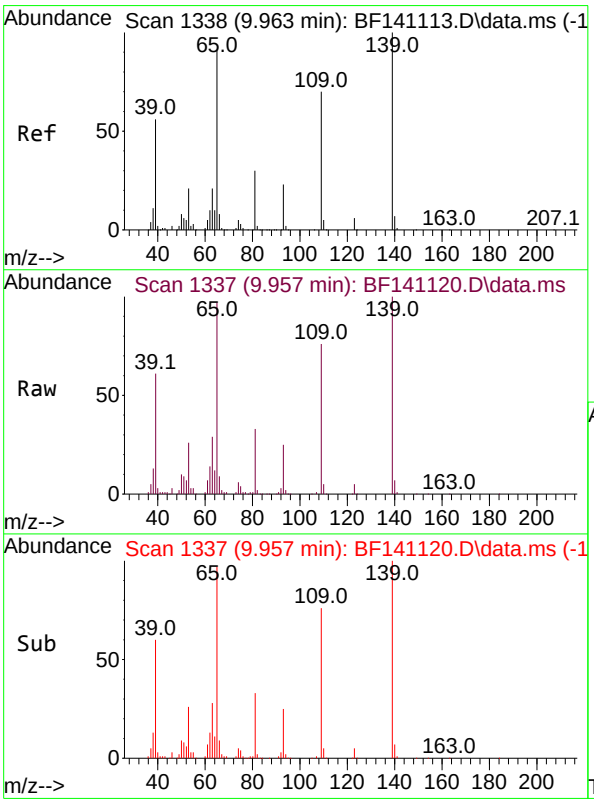
#55
Dibenzofuran
Concen: 38.957 ng
RT: 10.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:168 Resp: 1007778

Ion	Ratio	Lower	Upper
168	100		
139	40.1	31.4	47.0
169	13.6	10.9	16.3

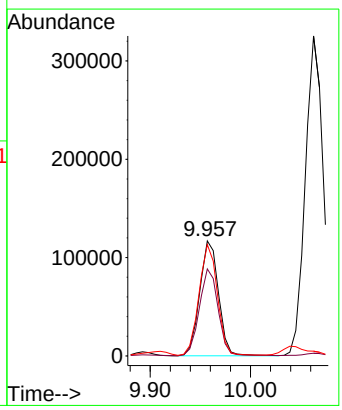


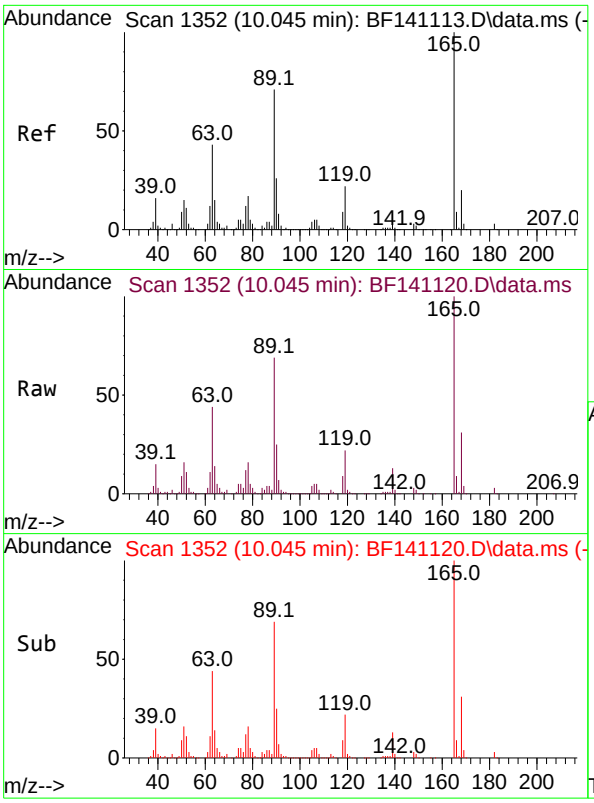


#56
4-Nitrophenol
Concen: 38.970 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:139 Resp: 152518

Ion	Ratio	Lower	Upper
139	100		
109	75.6	50.2	90.2
65	96.9	72.1	112.1



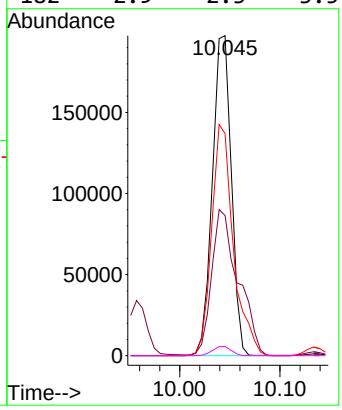


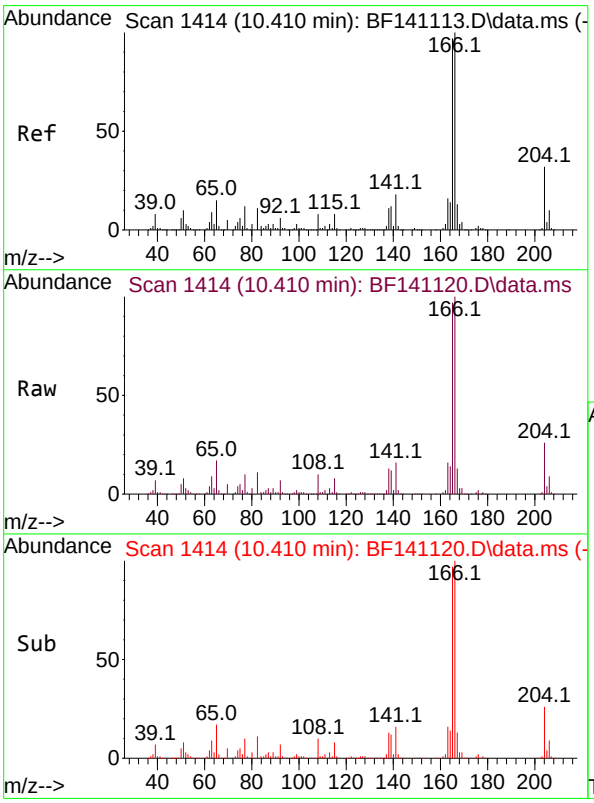
#57
2,4-Dinitrotoluene
Concen: 40.773 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:165 Resp: 258400

Ion	Ratio	Lower	Upper
165	100		
63	43.8	35.0	52.4
89	69.4	56.7	85.1
182	2.9	2.3	3.5

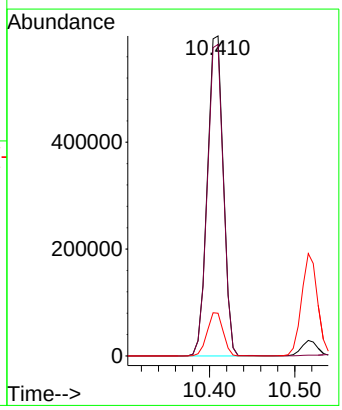


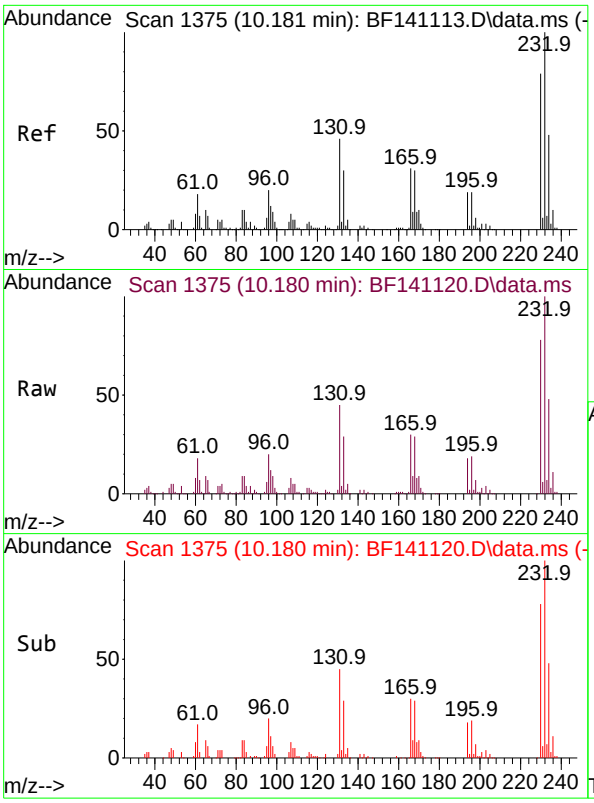


#58
Fluorene
Concen: 38.770 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:166 Resp: 779173

Ion	Ratio	Lower	Upper
166	100		
165	97.3	77.8	116.8
167	13.4	10.8	16.2



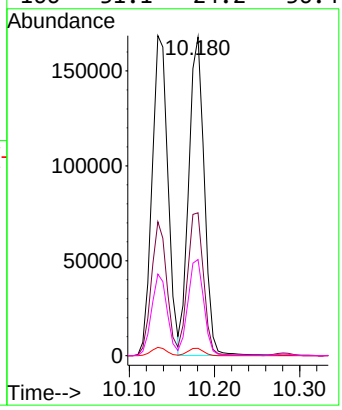


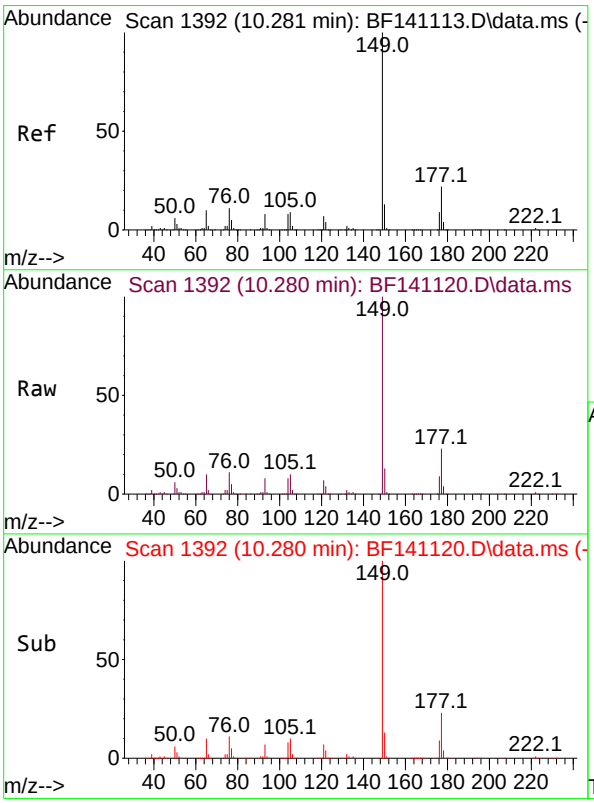
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.593 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:232 Resp: 211938

Ion	Ratio	Lower	Upper
232	100		
131	46.0	36.2	54.4
130	2.4	2.0	3.0
166	31.1	24.2	36.4

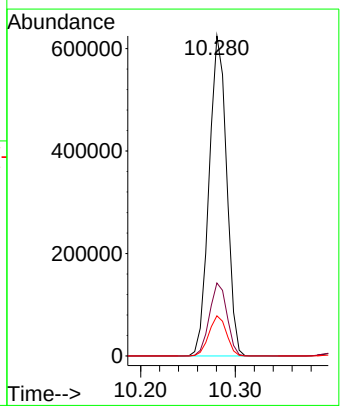


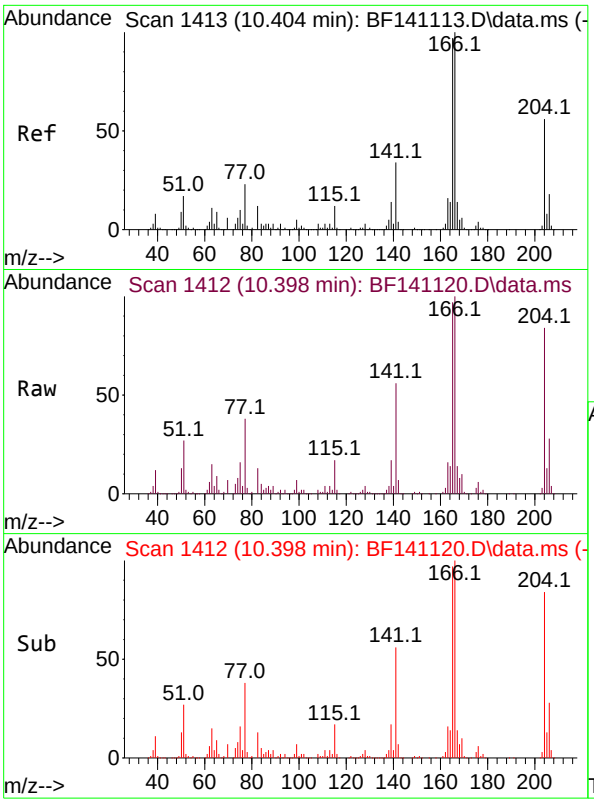


#60
Diethylphthalate
Concen: 38.912 ng
RT: 10.280 min Scan# 1392
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:149 Resp: 803338

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.9	26.9
150	12.6	10.2	15.2



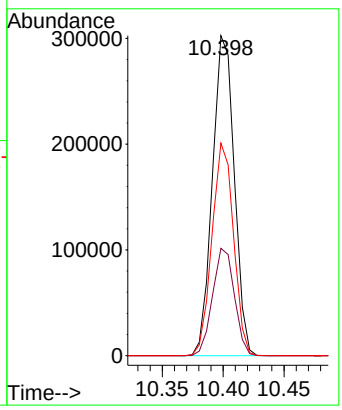


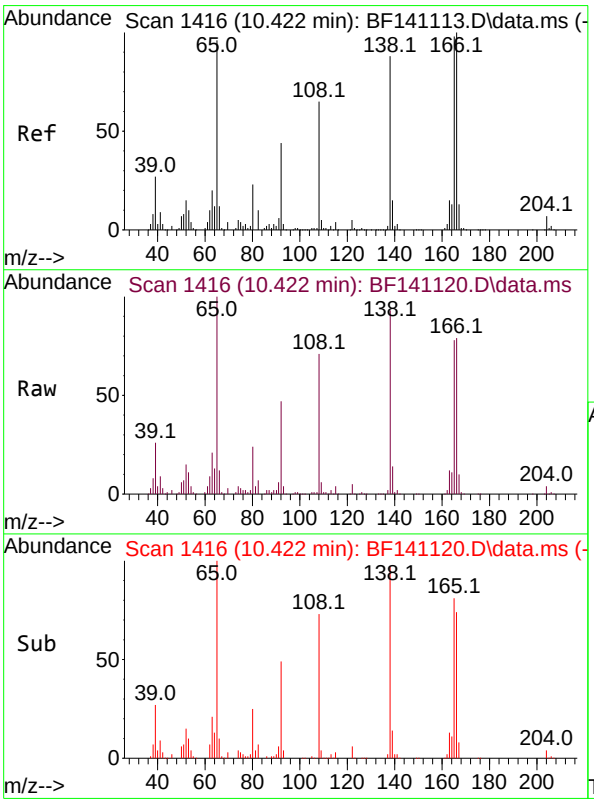
#61
4-Chlorophenyl-phenylether
Concen: 38.542 ng
RT: 10.398 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:204 Resp: 377526

Ion	Ratio	Lower	Upper
204	100		
206	33.5	25.9	38.9
141	66.4	49.1	73.7

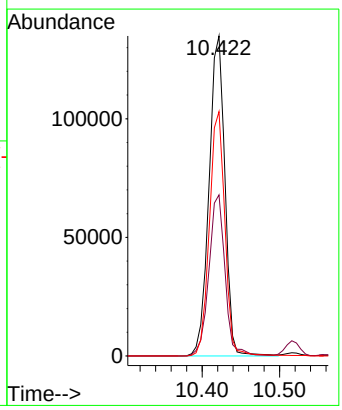


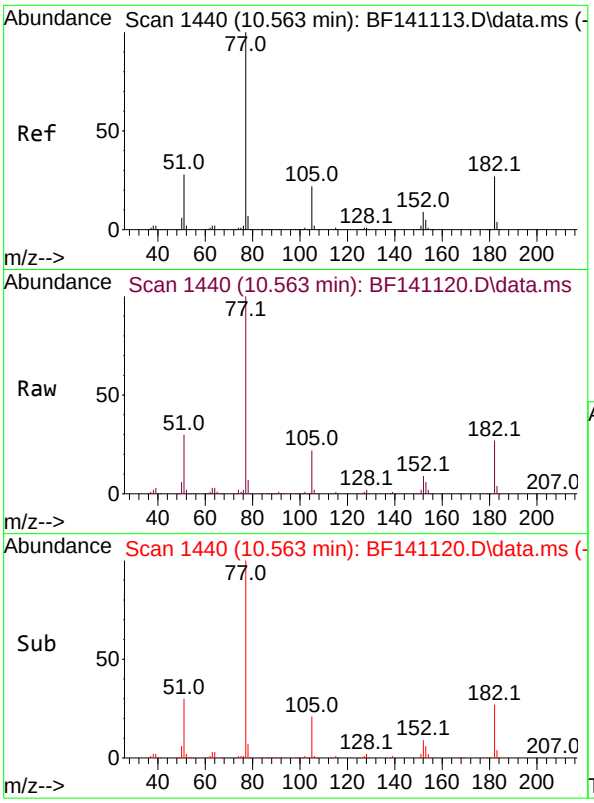


#62
4-Nitroaniline
Concen: 39.273 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:138 Resp: 192093

Ion	Ratio	Lower	Upper
138	100		
92	50.4	29.4	69.4
108	76.4	53.7	93.7



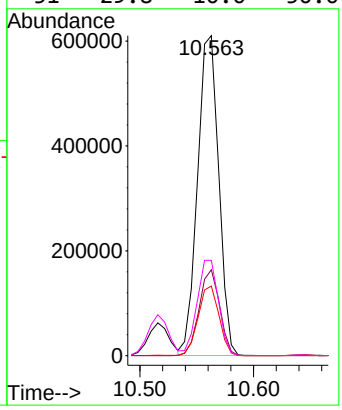


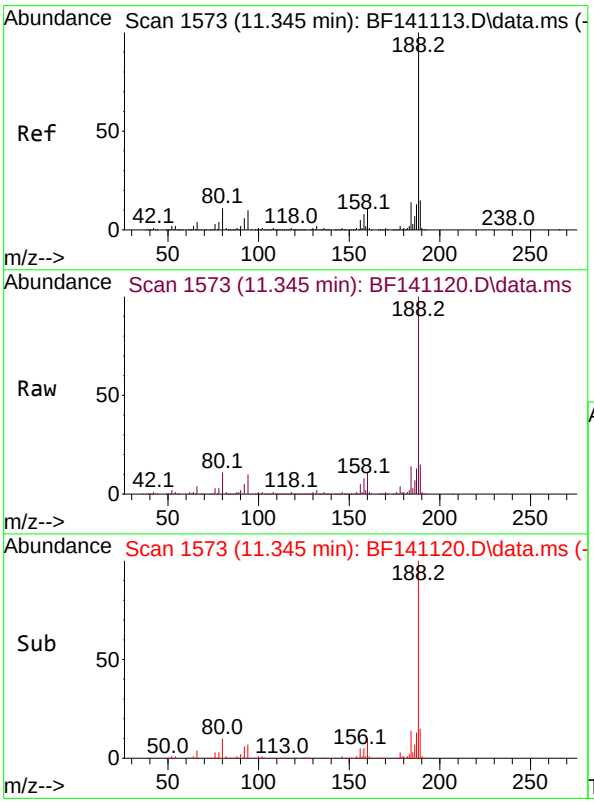
#63
Azobenzene
Concen: 38.845 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion: 77 Resp: 791308

Ion	Ratio	Lower	Upper
77	100		
182	26.9	6.1	46.1
105	21.8	2.1	42.1
51	29.8	10.0	50.0

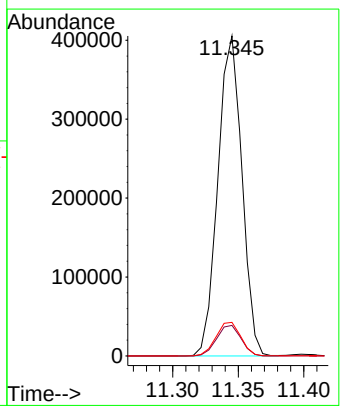


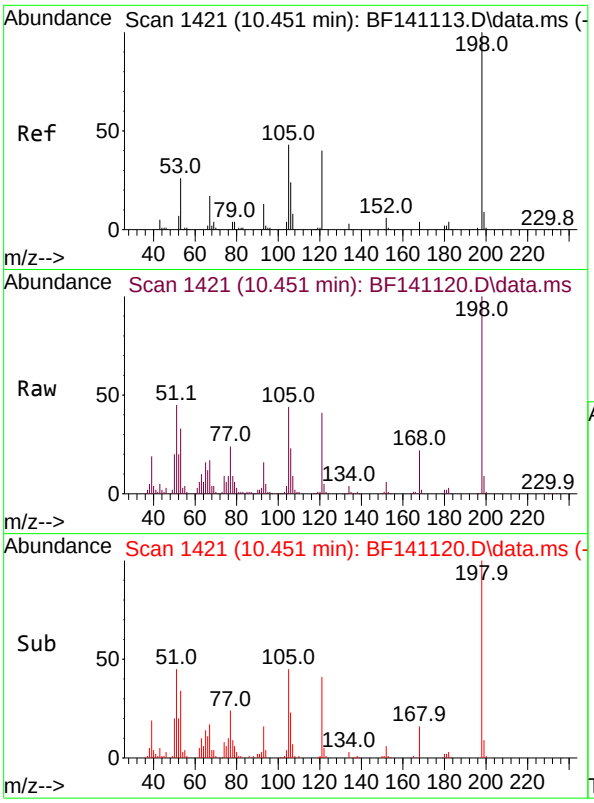


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:188 Resp: 516568

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.3	12.5
80	10.5	9.0	13.4



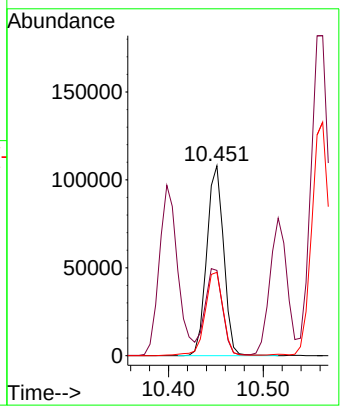


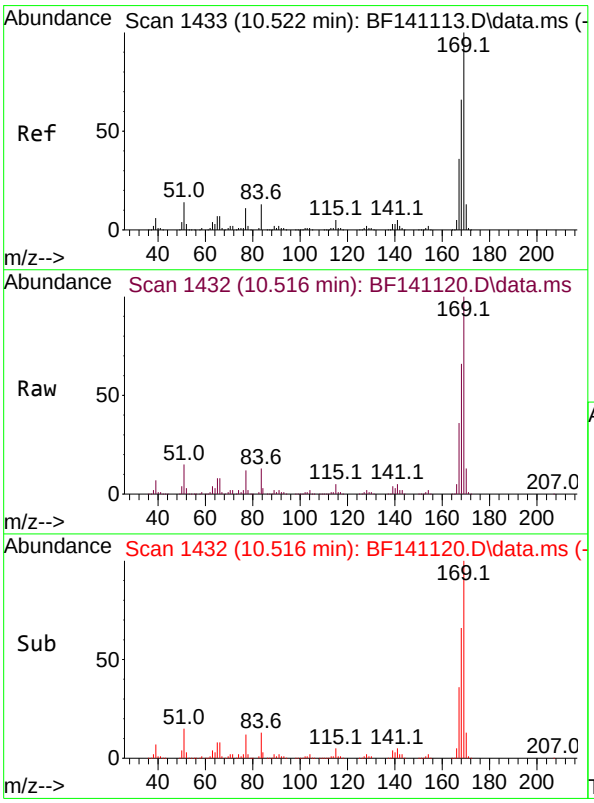
#65
4,6-Dinitro-2-methylphenol
Concen: 44.592 ng
RT: 10.451 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:198 Resp: 133479

Ion	Ratio	Lower	Upper
198	100		
51	44.9	27.1	67.1
105	43.9	24.2	64.2

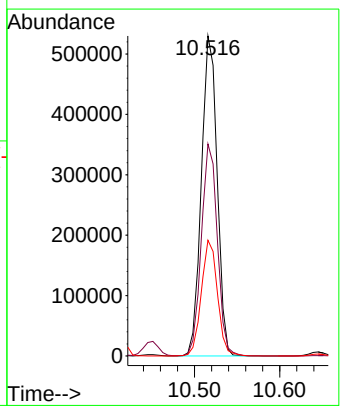


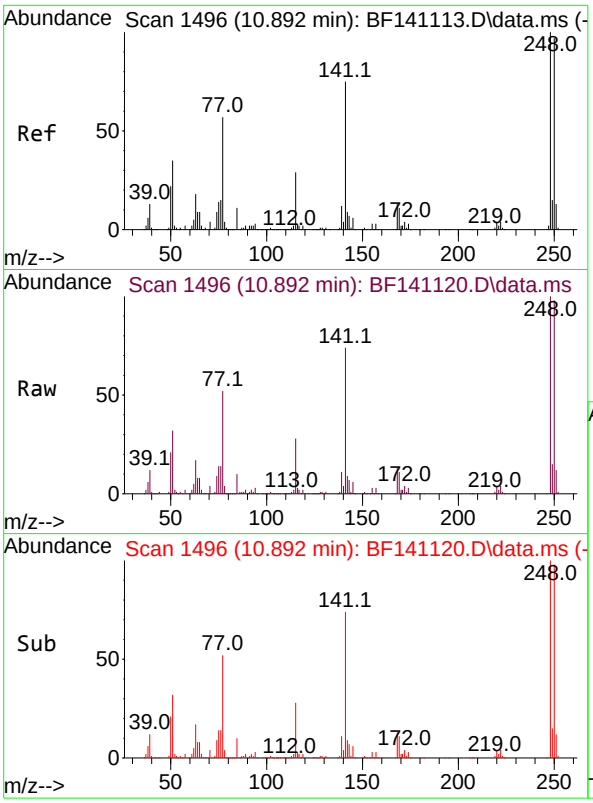


#66
n-Nitrosodiphenylamine
Concen: 40.845 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:169 Resp: 680537

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.5	78.7
167	36.2	28.9	43.3



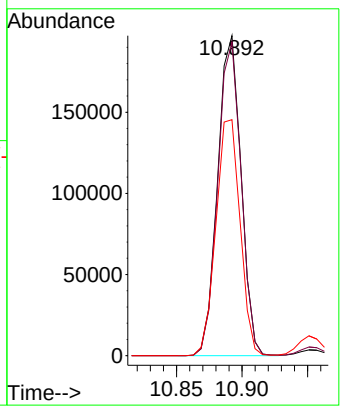


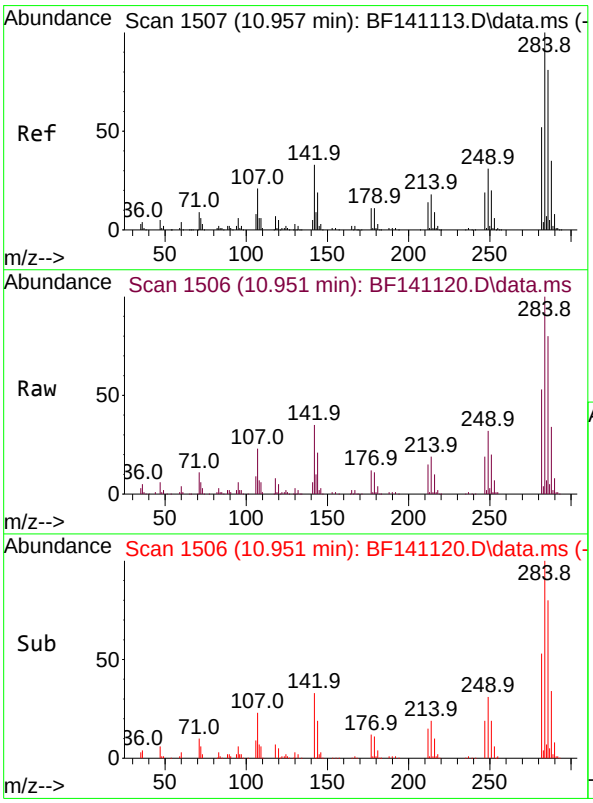
#67
4-Bromophenyl-phenylether
Concen: 41.081 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:248 Resp: 244318

Ion	Ratio	Lower	Upper
248	100		
250	98.0	77.9	116.9
141	73.7	59.9	89.9

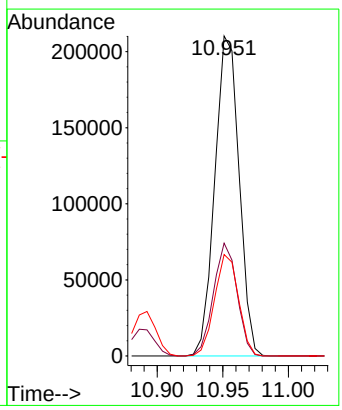


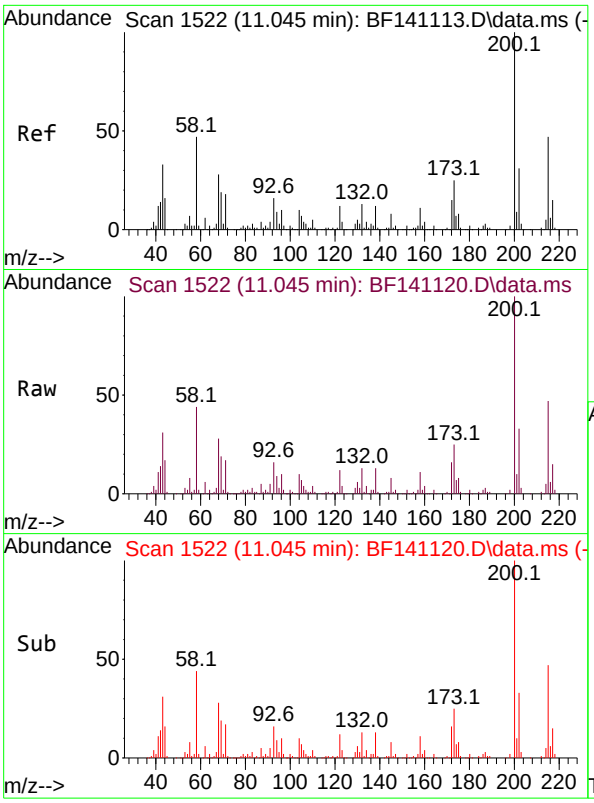


#68
Hexachlorobenzene
Concen: 40.794 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:284 Resp: 270074

Ion	Ratio	Lower	Upper
284	100		
142	35.2	26.3	39.5
249	31.7	24.9	37.3



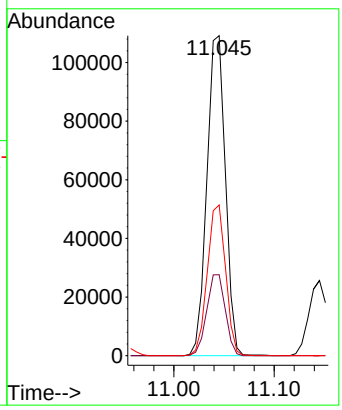


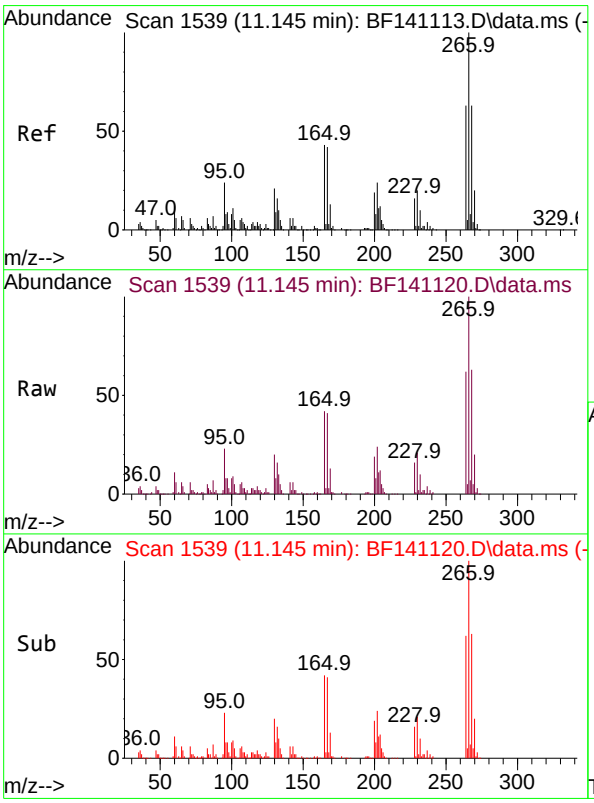
#69
Atrazine
Concen: 31.165 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:200 Resp: 139816

Ion	Ratio	Lower	Upper
200	100		
173	25.3	5.4	45.4
215	47.1	26.6	66.6

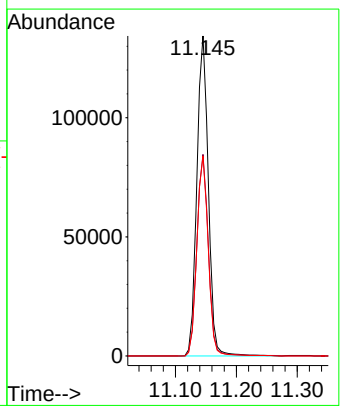


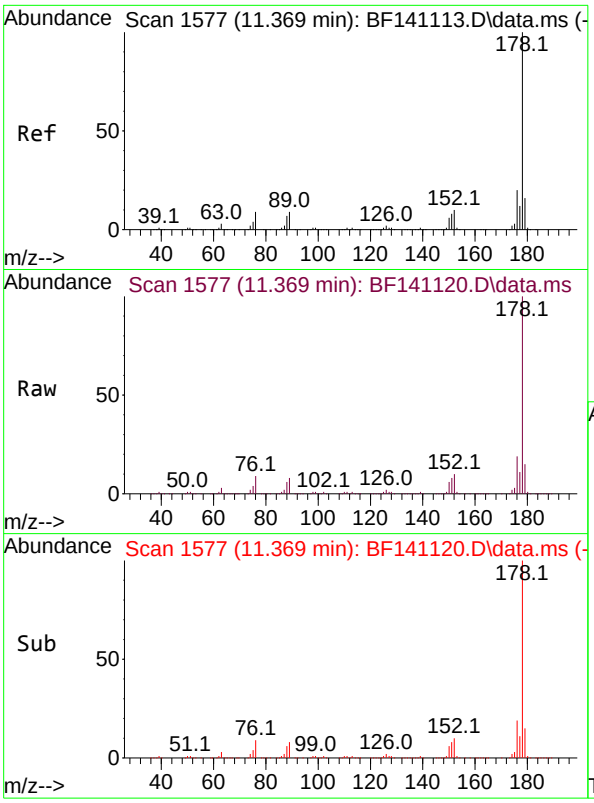


#70
Pentachlorophenol
Concen: 41.549 ng
RT: 11.145 min Scan# 1539
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:266 Resp: 176156

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.4	75.6
264	62.4	50.2	75.2



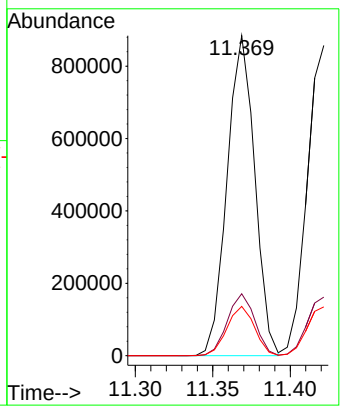


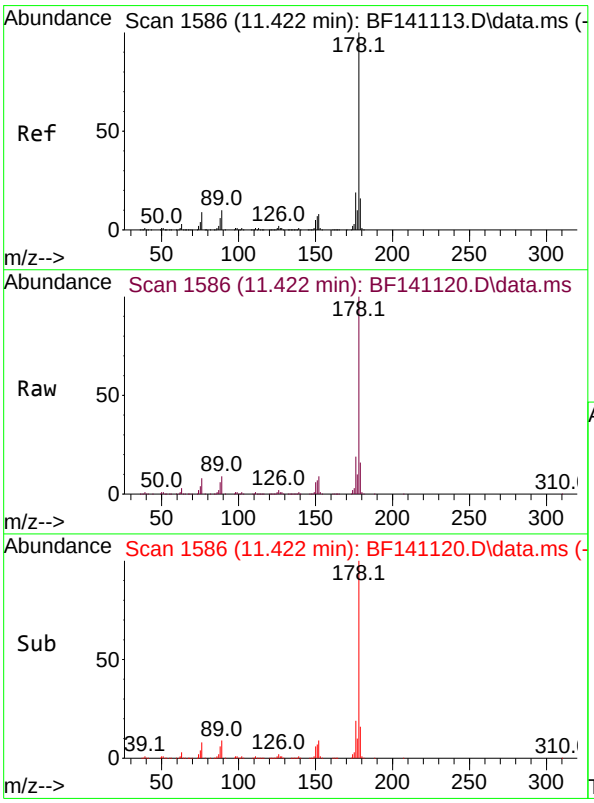
#71
Phenanthrene
Concen: 39.514 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:178 Resp: 1095830

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.4	12.6	19.0

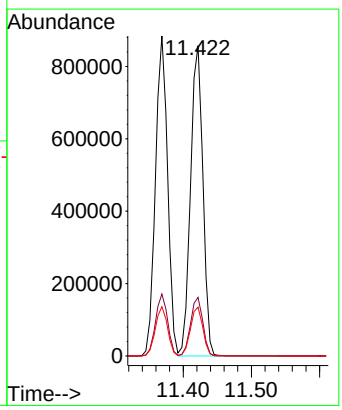


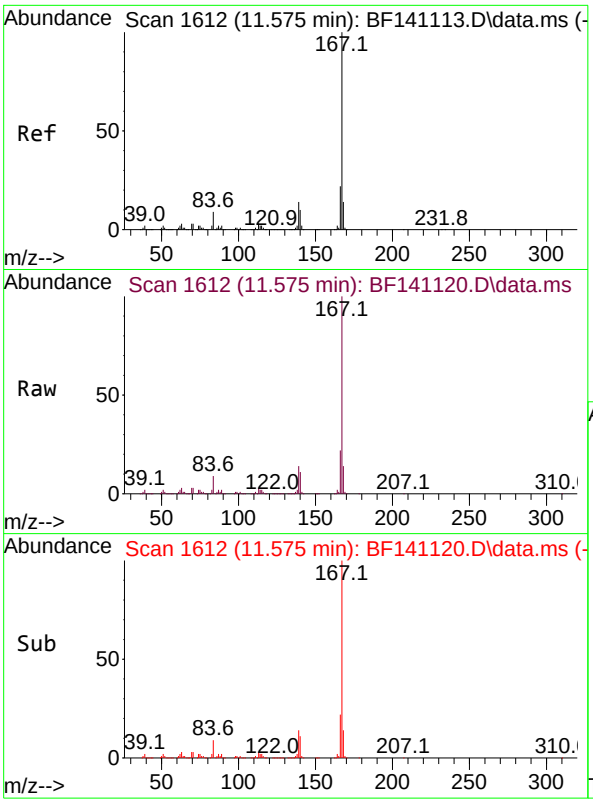


#72
Anthracene
Concen: 39.789 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:178 Resp: 1072960

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.8	12.6	19.0



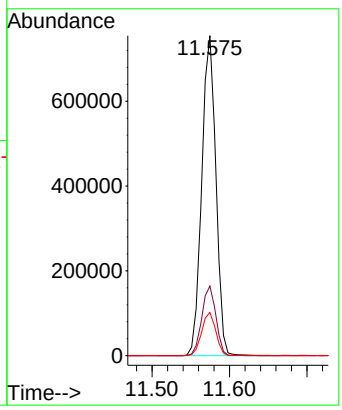


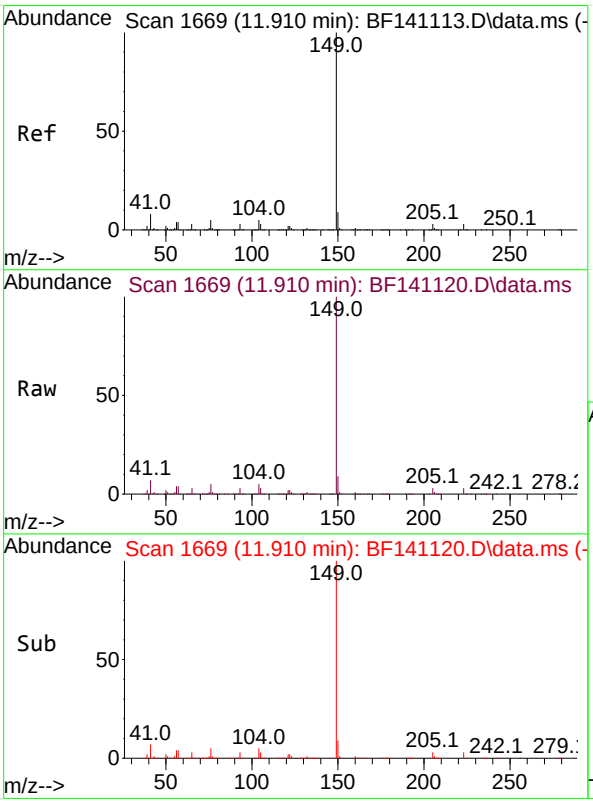
#73
Carbazole
Concen: 38.715 ng
RT: 11.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:167 Resp: 957273

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.5	10.9	16.3

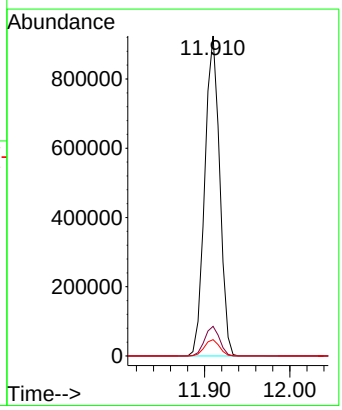


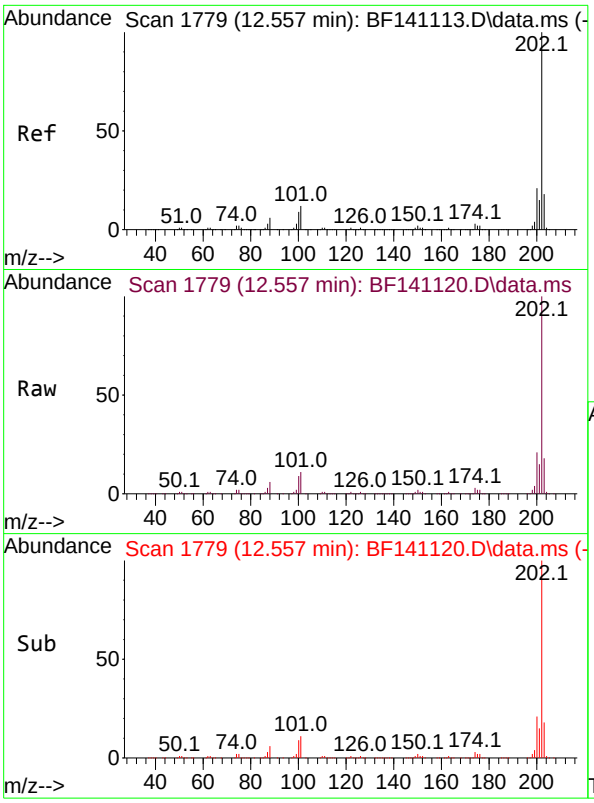


#74
Di-n-butylphthalate
Concen: 39.593 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:149 Resp: 1120353

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.1	4.2	6.2



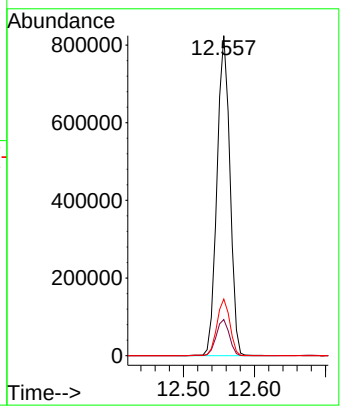


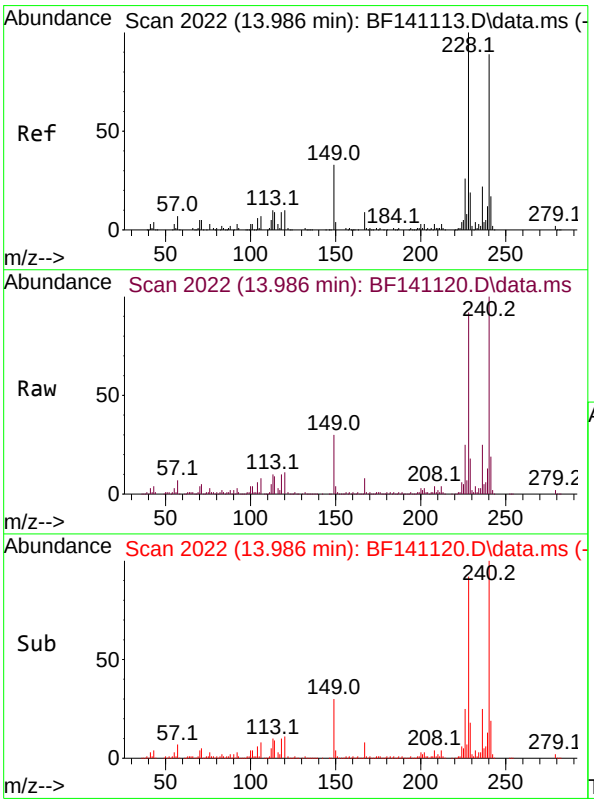
#75
Fluoranthene
Concen: 37.440 ng
RT: 12.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:202 Resp: 1036155

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.3
203	17.7	0.0	37.7

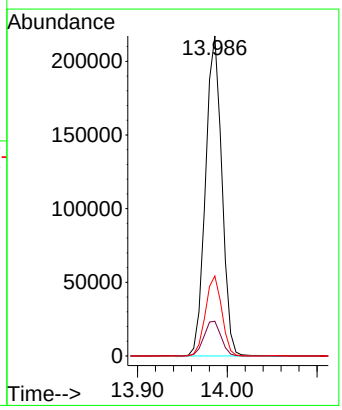


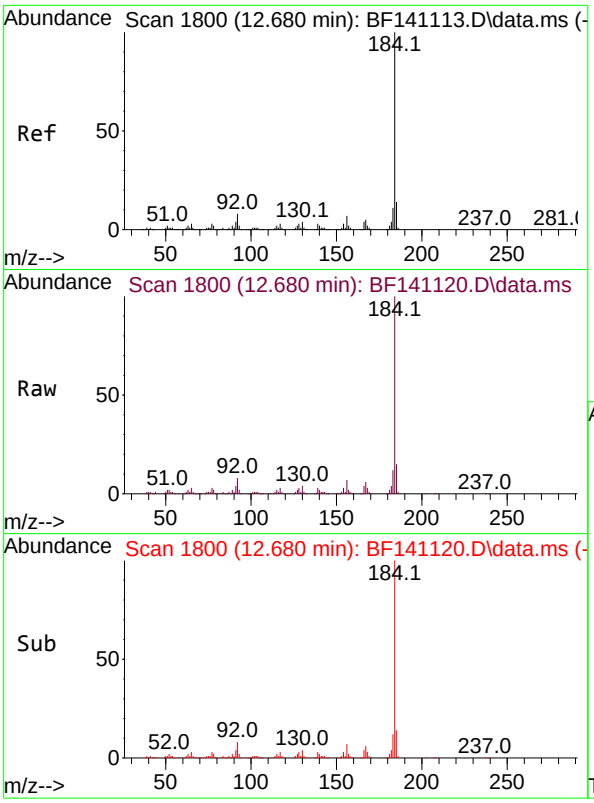


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:240 Resp: 274205

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.1	13.7
236	25.0	19.8	29.6



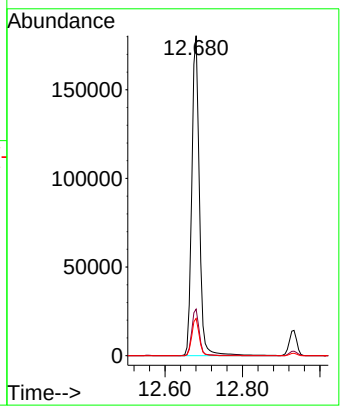


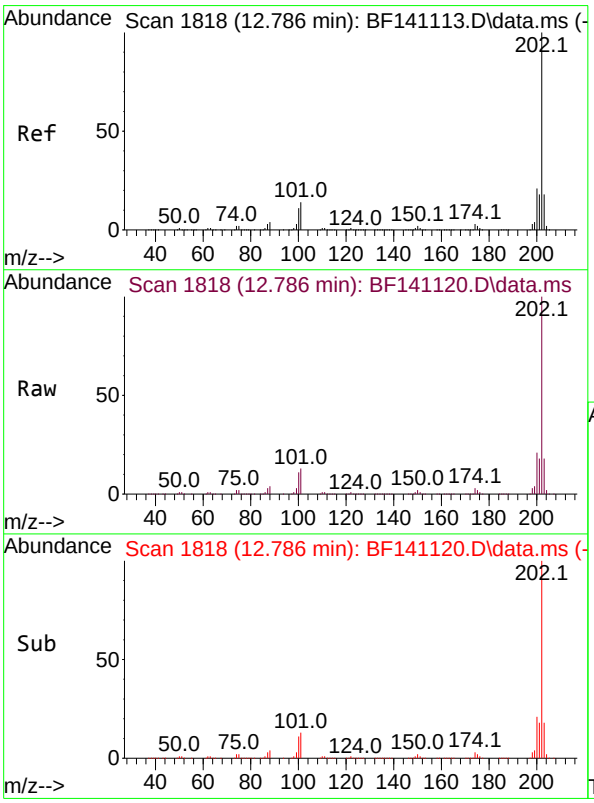
#77
Benzidine
Concen: 48.333 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:184 Resp: 245773

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.4	17.0
183	11.6	9.2	13.8

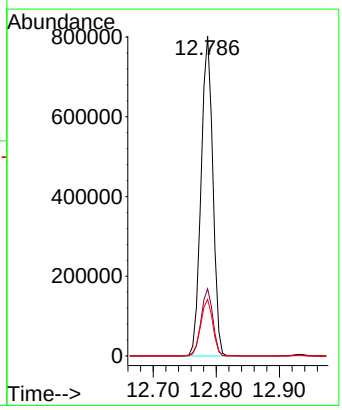


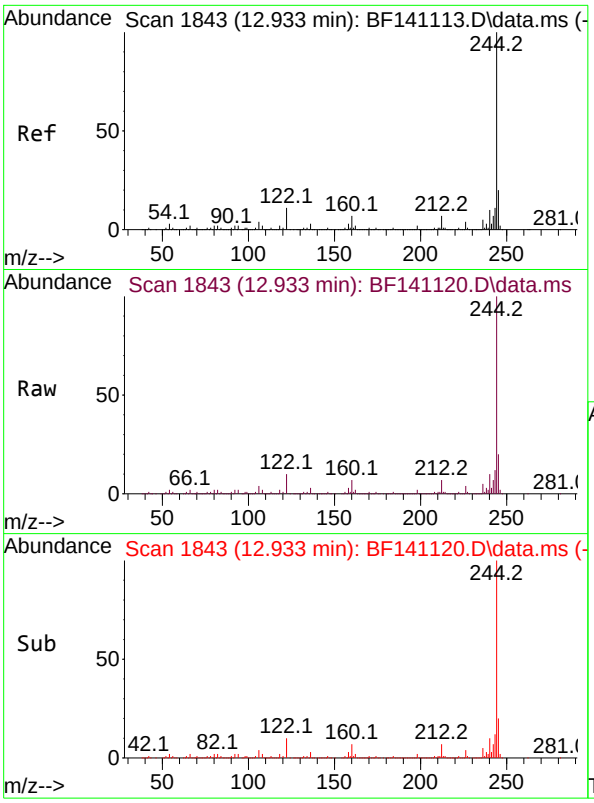


#78
Pyrene
Concen: 39.536 ng
RT: 12.786 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:202 Resp: 1035445

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.7	14.3	21.5



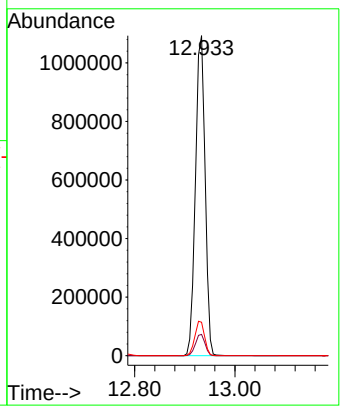


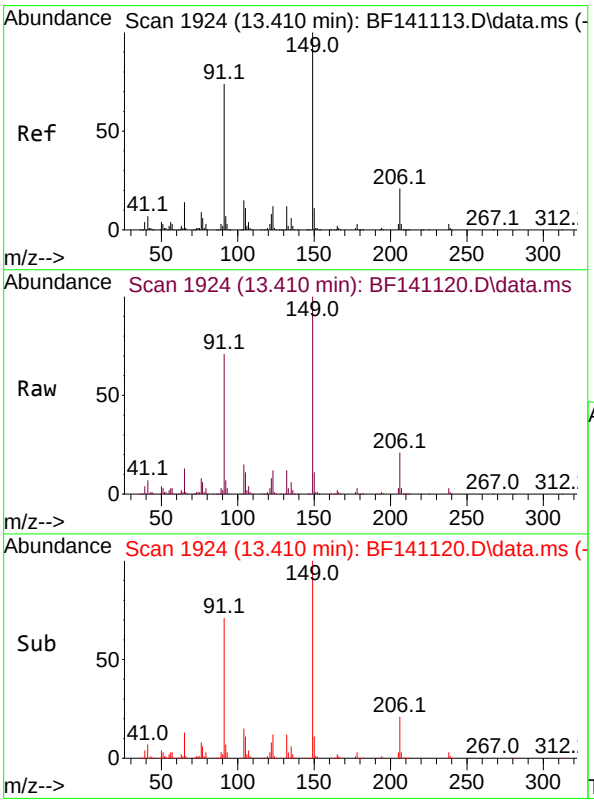
#79
Terphenyl-d14
Concen: 78.951 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:244 Resp: 1456542

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	10.5	8.8	13.2

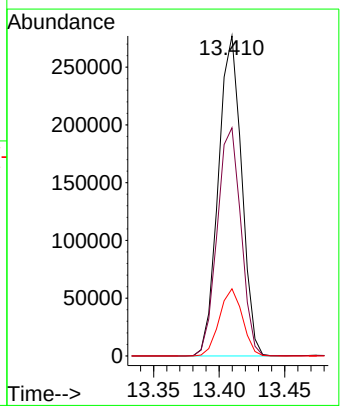


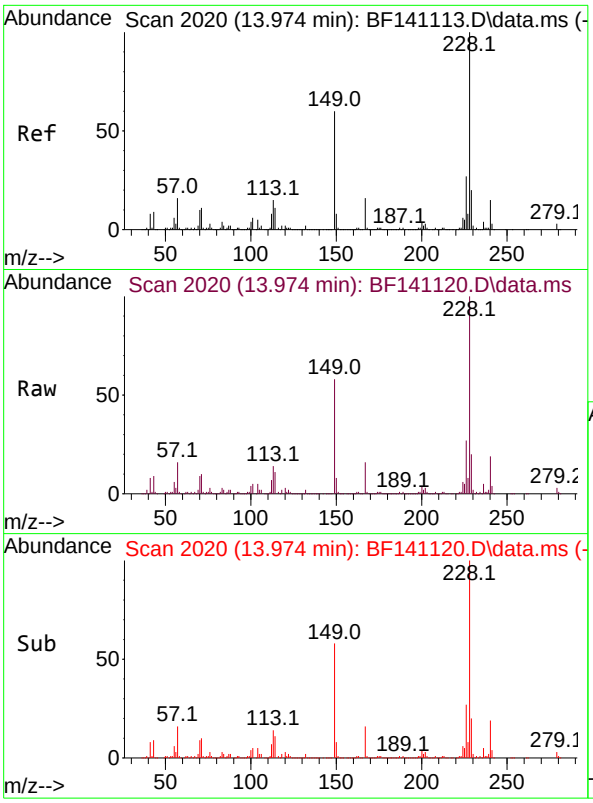


#80
Butylbenzylphthalate
Concen: 39.136 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:149 Resp: 341737

Ion	Ratio	Lower	Upper
149	100		
91	71.3	59.0	88.6
206	21.0	16.5	24.7



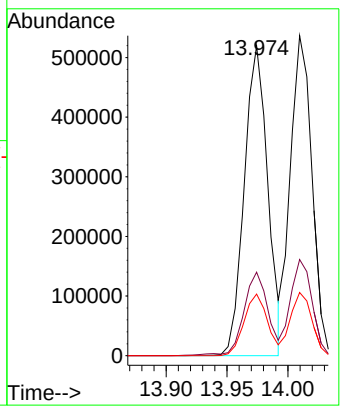


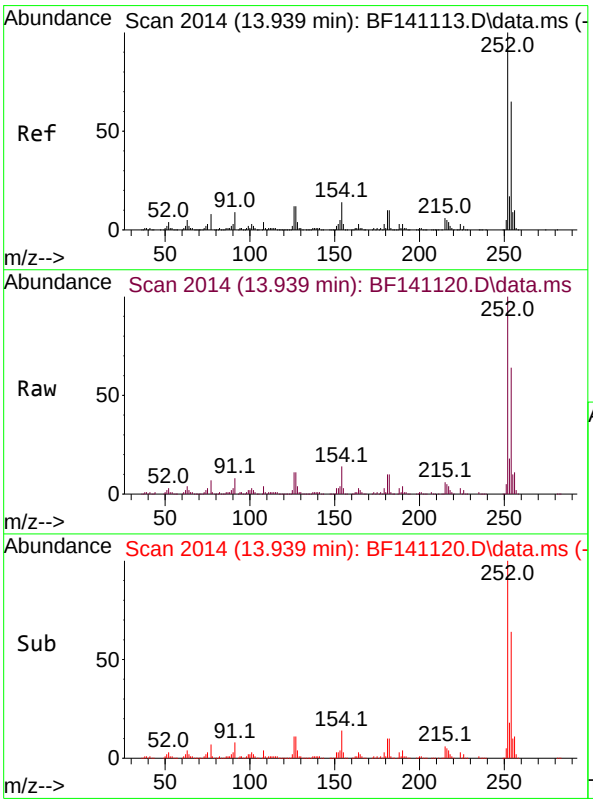
#81
Benzo(a)anthracene
Concen: 37.462 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:228 Resp: 699094

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.7	32.5
229	19.9	15.7	23.5

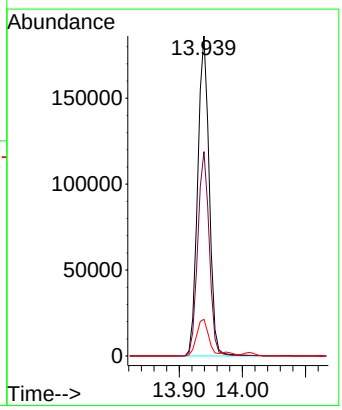


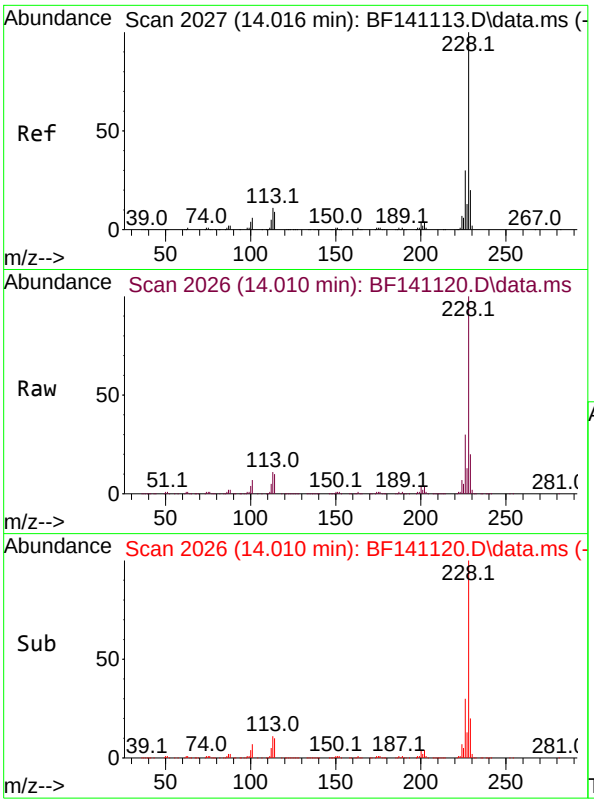


#82
3,3'-Dichlorobenzidine
Concen: 39.619 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:252 Resp: 235420

Ion	Ratio	Lower	Upper
252	100		
254	63.8	52.0	78.0
126	11.4	9.4	14.0



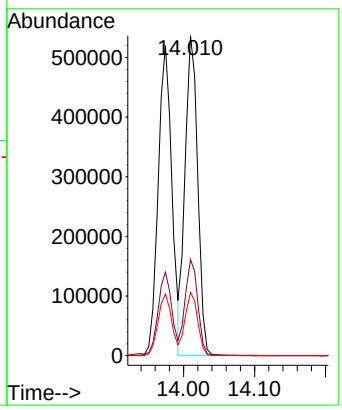


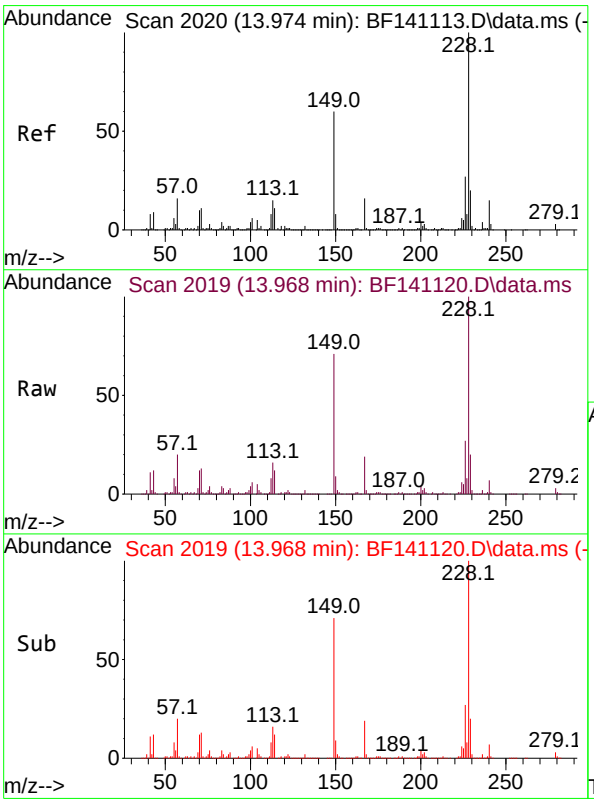
#83
Chrysene
Concen: 38.062 ng
RT: 14.010 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:228 Resp: 664611

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	19.8	15.8	23.8

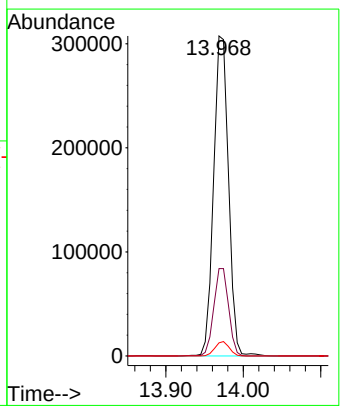


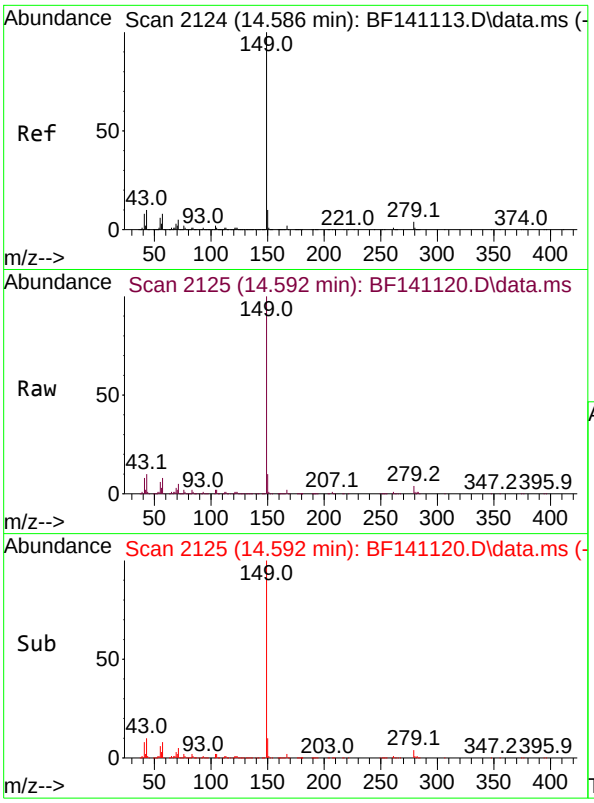


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.130 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:149 Resp: 409965

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.4	32.2
279	4.1	3.4	5.2



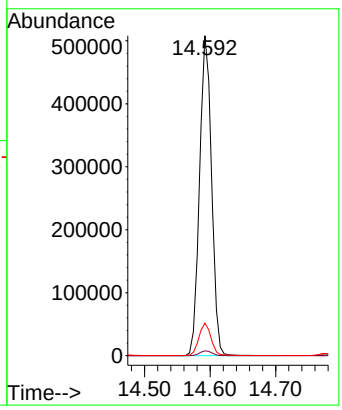


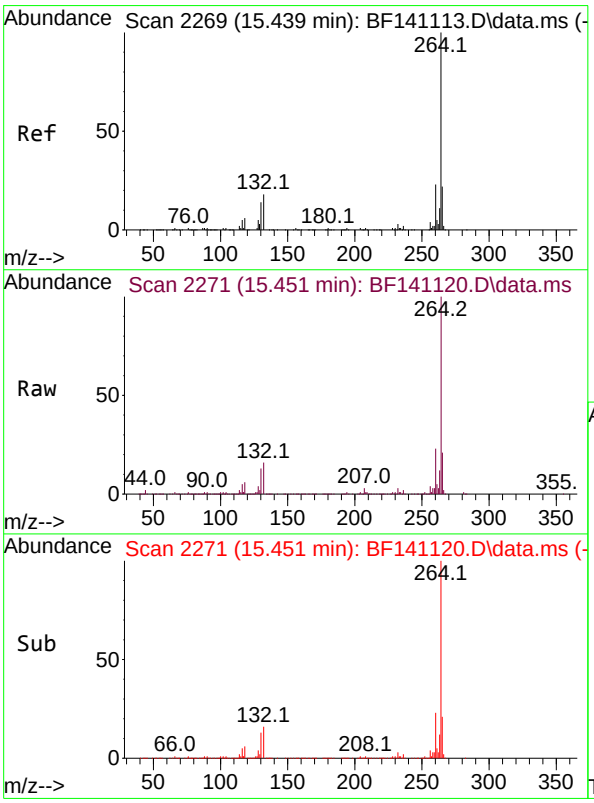
#85
Di-n-octyl phthalate
Concen: 41.072 ng
RT: 14.592 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:149 Resp: 649810

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.2	8.4	12.6

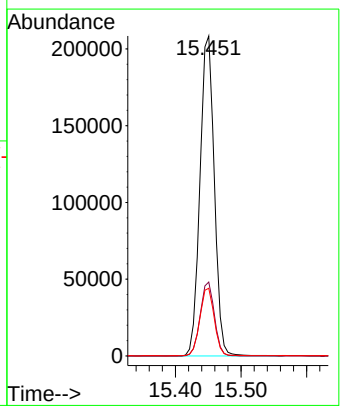


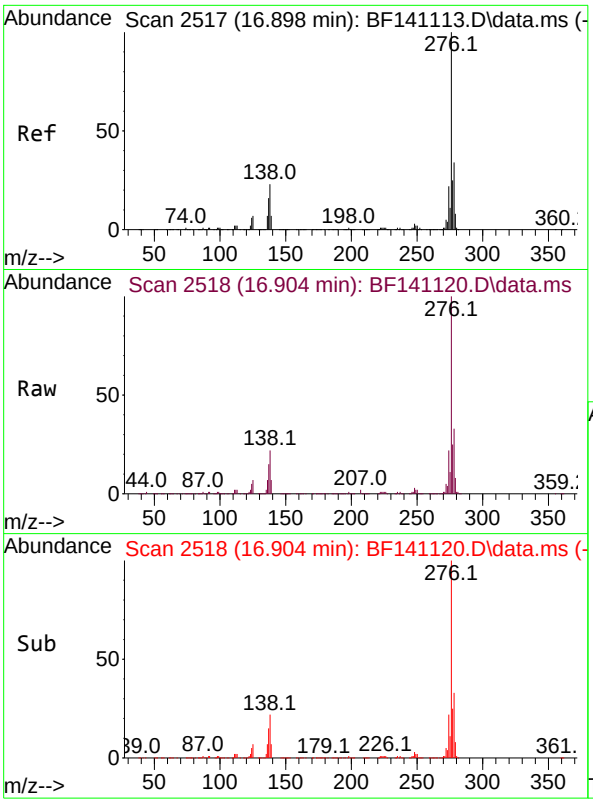


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:264 Resp: 318189

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.1	17.4	26.0



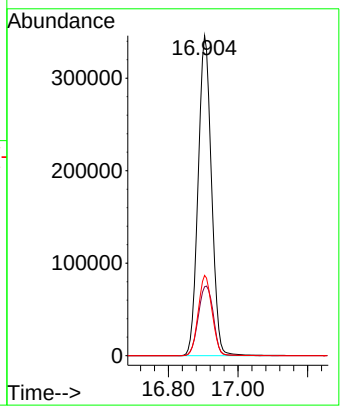


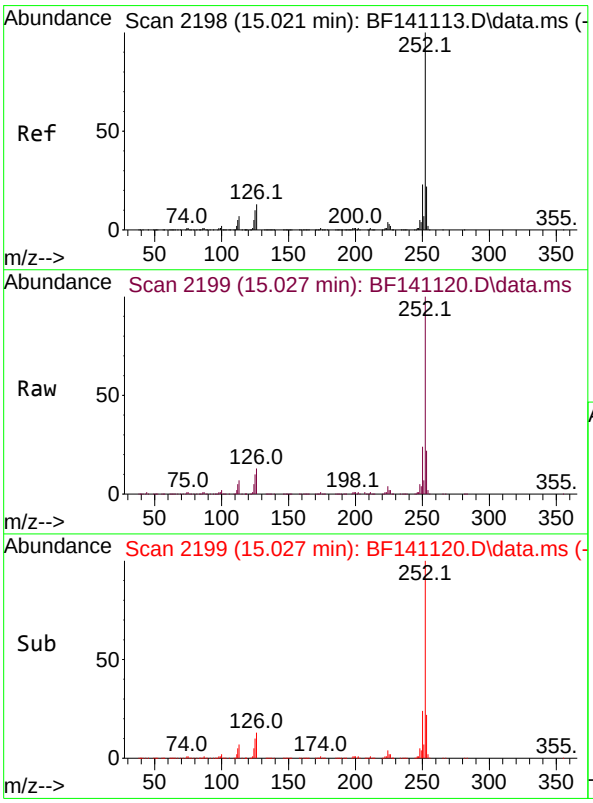
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.527 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:276 Resp: 921423

Ion	Ratio	Lower	Upper
276	100		
138	24.5	20.7	31.1
277	26.0	20.6	30.8

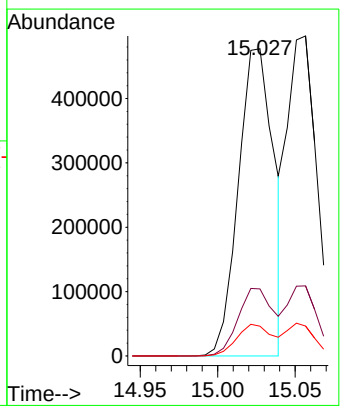


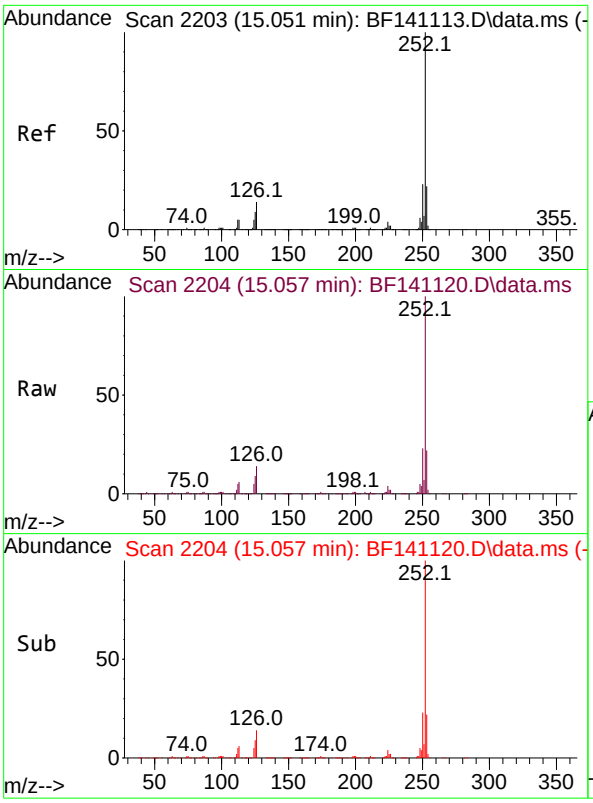


#88
Benzo(b)fluoranthene
Concen: 36.956 ng
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:252 Resp: 758252

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	9.7	8.1	12.1



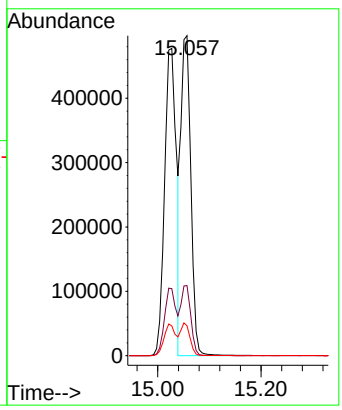


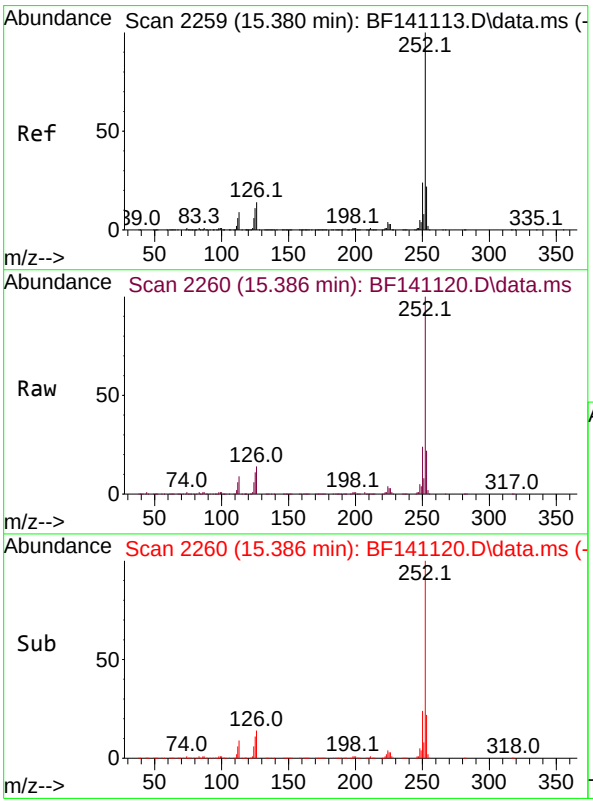
#89
Benzo(k)fluoranthene
Concen: 38.307 ng
RT: 15.057 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:252 Resp: 664225

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	9.4	7.9	11.9

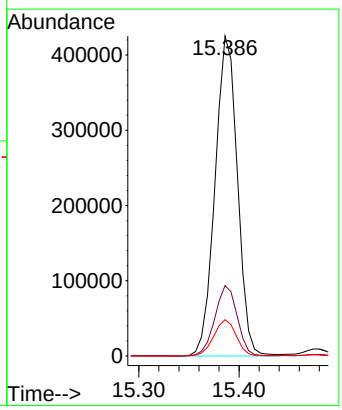


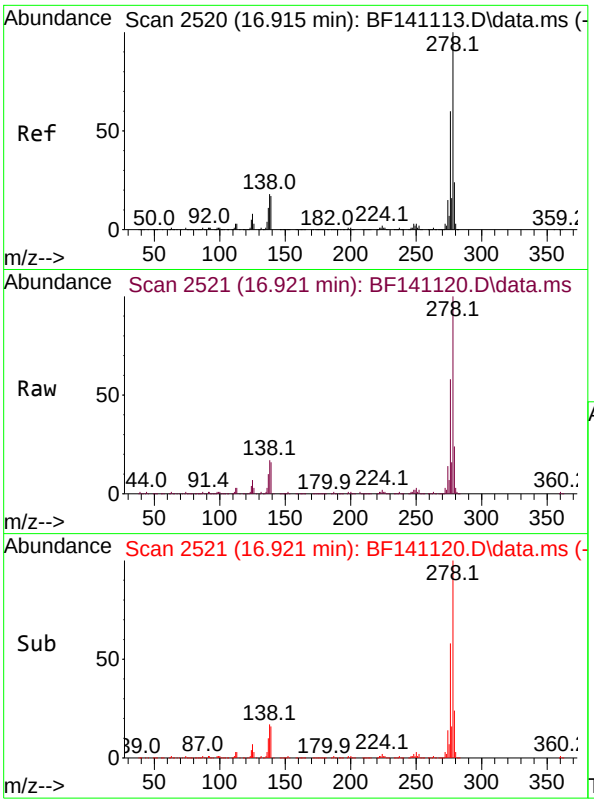


#90
Benzo(a)pyrene
Concen: 38.965 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:252 Resp: 659605

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	11.4	9.1	13.7



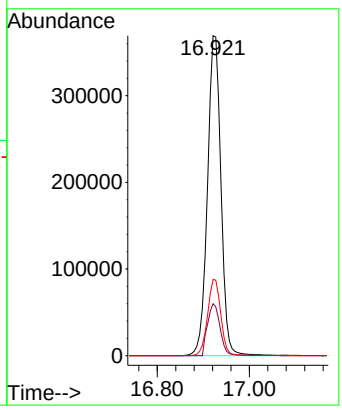


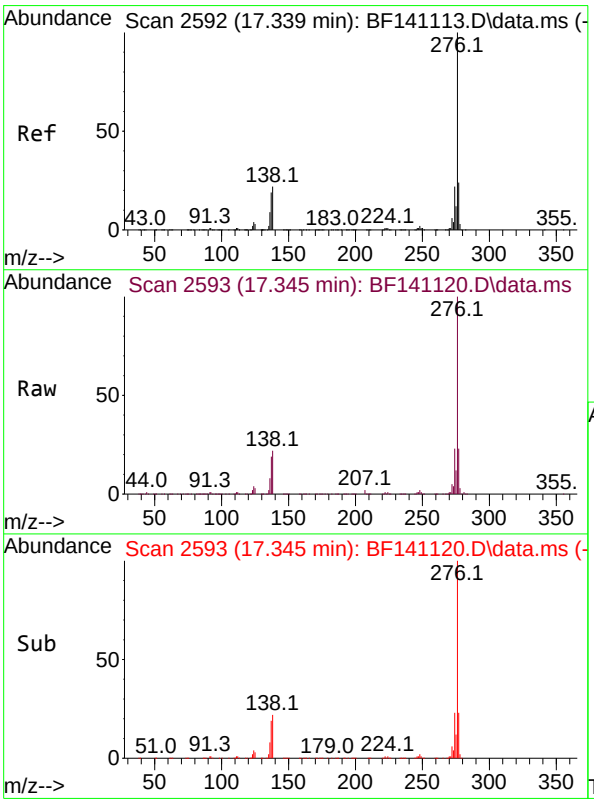
#91
Dibenzo(a,h)anthracene
Concen: 39.936 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Tgt Ion:278 Resp: 752974

Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.8	20.6
279	23.8	19.1	28.7

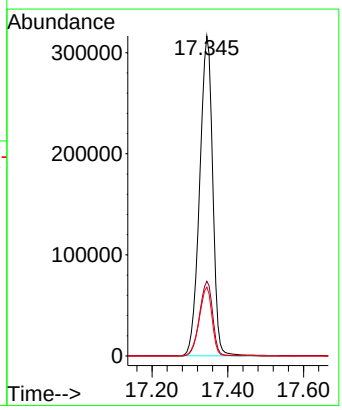




#92
Benzo(g,h,i)perylene
Concen: 38.482 ng
RT: 17.345 min Scan# 2593
Delta R.T. 0.006 min
Lab File: BF141120.D
Acq: 10 Jan 2025 18:12

Tgt Ion:276 Resp: 754682

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.4
138	21.6	17.4	26.2



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	89	0.00
2		1,4-Dioxane	0.577	0.590	-2.3	93	0.00
3		Pyridine	1.414	1.425	-0.8	93	0.00
4		n-Nitrosodimethylamine	0.691	0.715	-3.5	93	0.00
5	S	2-Fluorophenol	1.295	1.297	-0.2	92	0.00
6		Aniline	1.456	1.434	1.5	89	0.00
7	S	Phenol-d6	1.640	1.595	2.7	90	0.00
8		2-Chlorophenol	1.389	1.364	1.8	90	0.00
9		Benzaldehyde	0.966	0.917	5.1	96	0.00
10	C	Phenol	1.756	1.713	2.4	89	0.00
11		bis(2-Chloroethyl)ether	1.308	1.264	3.4	89	0.00
12		1,3-Dichlorobenzene	1.549	1.507	2.7	90	0.00
13	C	1,4-Dichlorobenzene	1.561	1.521	2.6	90	0.00
14		1,2-Dichlorobenzene	1.456	1.404	3.6	90	0.00
15		Benzyl Alcohol	1.184	1.154	2.5	88	0.00
16		2,2'-oxybis(1-Chloropropane	1.826	1.738	4.8	87	0.00
17		2-Methylphenol	1.121	1.080	3.7	88	0.00
18		Hexachloroethane	0.565	0.556	1.6	90	0.00
19	P	n-Nitroso-di-n-propylamine	0.966	0.914	5.4	89	0.00
20		3+4-Methylphenols	1.415	1.383	2.3	89	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
22		Acetophenone	0.475	0.460	3.2	91	0.00
23	S	Nitrobenzene-d5	0.377	0.367	2.7	89	0.00
24		Nitrobenzene	0.393	0.385	2.0	90	0.00
25		Isophorone	0.645	0.623	3.4	89	0.00
26	C	2-Nitrophenol	0.179	0.184	-2.8	91	0.00
27		2,4-Dimethylphenol	0.241	0.238	1.2	89	0.00
28		bis(2-Chloroethoxy)methane	0.405	0.387	4.4	88	0.00
29	C	2,4-Dichlorophenol	0.287	0.284	1.0	90	0.00
30		1,2,4-Trichlorobenzene	0.328	0.320	2.4	90	0.00
31		Naphthalene	1.055	1.008	4.5	89	0.00
32		Benzoic acid	0.231	0.240	-3.9	89	0.00
33		4-Chloroaniline	0.365	0.349	4.4	89	0.00
34	C	Hexachlorobutadiene	0.197	0.194	1.5	91	0.00
35		Caprolactam	0.094	0.090	4.3	88	0.00
36	C	4-Chloro-3-methylphenol	0.313	0.304	2.9	89	0.00
37		2-Methylnaphthalene	0.672	0.651	3.1	90	0.00
38		1-Methylnaphthalene	0.662	0.627	5.3	88	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00
40		1,2,4,5-Tetrachlorobenzene	0.574	0.570	0.7	89	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.187	0.5	81	0.00
42	S	2,4,6-Tribromophenol	0.228	0.227	0.4	90	0.00
43	C	2,4,6-Trichlorophenol	0.387	0.392	-1.3	89	0.00
44		2,4,5-Trichlorophenol	0.409	0.410	-0.2	88	0.00
45	S	2-Fluorobiphenyl	1.310	1.282	2.1	91	0.00
46		1,1'-Biphenyl	1.553	1.541	0.8	89	0.00
47		2-Chloronaphthalene	1.210	1.194	1.3	89	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	0.359	0.362	-0.8	89	0.00
49		Acenaphthylene	1.728	1.701	1.6	89	0.00
50		Dimethylphthalate	1.343	1.326	1.3	88	0.00
51		2,6-Dinitrotoluene	0.312	0.317	-1.6	88	0.00
52	C	Acenaphthene	1.208	1.196	1.0	89	0.00
53		3-Nitroaniline	0.317	0.320	-0.9	88	0.00
54	P	2,4-Dinitrophenol	0.148	0.157	-6.1	87	0.00
55		Dibenzofuran	1.642	1.600	2.6	87	0.00
56	P	4-Nitrophenol	0.248	0.242	2.4	84	0.00
57		2,4-Dinitrotoluene	0.402	0.410	-2.0	90	0.00
58		Fluorene	1.276	1.237	3.1	89	0.00
59		2,3,4,6-Tetrachlorophenol	0.340	0.336	1.2	88	0.00
60		Diethylphthalate	1.311	1.275	2.7	88	0.00
61		4-Chlorophenyl-phenylether	0.622	0.599	3.7	87	0.00
62		4-Nitroaniline	0.311	0.305	1.9	88	0.00
63		Azobenzene	1.293	1.256	2.9	87	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	88	0.00
65		4,6-Dinitro-2-methylphenol	0.116	0.129	-11.2	88	0.00
66	c	n-Nitrosodiphenylamine	0.645	0.659	-2.2	89	0.00
67		4-Bromophenyl-phenylether	0.230	0.236	-2.6	89	0.00
68		Hexachlorobenzene	0.256	0.261	-2.0	89	0.00
69		Atrazine	0.174	0.135	22.4	84	0.00
70	C	Pentachlorophenol	0.164	0.171	-4.3	86	0.00
71		Phenanthrene	1.074	1.061	1.2	87	0.00
72		Anthracene	1.044	1.039	0.5	87	0.00
73		Carbazole	0.957	0.927	3.1	86	0.00
74		Di-n-butylphthalate	1.096	1.084	1.1	87	0.00
75	C	Fluoranthene	1.071	1.003	6.3	85	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	84	0.00
77		Benzidine	0.371	0.448	-20.8	92	0.00
78		Pyrene	1.910	1.888	1.2	85	0.00
79	S	Terphenyl-d14	1.346	1.328	1.3	87	0.00
80		Butylbenzylphthalate	0.637	0.623	2.2	85	0.00
81		Benzo(a)anthracene	1.361	1.275	6.3	86	0.00
82		3,3'-Dichlorobenzidine	0.433	0.429	0.9	86	0.00
83		Chrysene	1.274	1.212	4.9	84	0.00
84		Bis(2-ethylhexyl)phthalate	0.764	0.748	2.1	86	0.00
85	c	Di-n-octyl phthalate	1.154	1.185	-2.7	86	0.00
86	I	Perylene-d12	1.000	1.000	0.0	89	0.01
87		Indeno(1,2,3-cd)pyrene	1.465	1.448	1.2	88	0.00
88		Benzo(b)fluoranthene	1.290	1.192	7.6	89	0.00
89		Benzo(k)fluoranthene	1.090	1.044	4.2	89	0.00
90	C	Benzo(a)pyrene	1.064	1.036	2.6	89	0.00
91		Dibenzo(a,h)anthracene	1.185	1.183	0.2	88	0.00
92		Benzo(g,h,i)perylene	1.233	1.186	3.8	84	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	89	0.00
2		1,4-Dioxane	40.000	40.936	-2.3	93	0.00
3		Pyridine	40.000	40.329	-0.8	93	0.00
4		n-Nitrosodimethylamine	40.000	41.363	-3.4	93	0.00
5	S	2-Fluorophenol	80.000	80.114	-0.1	92	0.00
6		Aniline	40.000	39.400	1.5	89	0.00
7	S	Phenol-d6	80.000	77.801	2.7	90	0.00
8		2-Chlorophenol	40.000	39.284	1.8	90	0.00
9		Benzaldehyde	40.000	37.987	5.0	96	0.00
10	C	Phenol	40.000	39.039	2.4	89	0.00
11		bis(2-Chloroethyl)ether	40.000	38.657	3.4	89	0.00
12		1,3-Dichlorobenzene	40.000	38.919	2.7	90	0.00
13	C	1,4-Dichlorobenzene	40.000	38.965	2.6	90	0.00
14		1,2-Dichlorobenzene	40.000	38.555	3.6	90	0.00
15		Benzyl Alcohol	40.000	38.962	2.6	88	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.086	4.8	87	0.00
17		2-Methylphenol	40.000	38.531	3.7	88	0.00
18		Hexachloroethane	40.000	39.427	1.4	90	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.834	5.4	89	0.00
20		3+4-Methylphenols	40.000	39.098	2.3	89	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	88	0.00
22		Acetophenone	40.000	38.700	3.2	91	0.00
23	S	Nitrobenzene-d5	80.000	77.918	2.6	89	0.00
24		Nitrobenzene	40.000	39.180	2.1	90	0.00
25		Isophorone	40.000	38.631	3.4	89	0.00
26	C	2-Nitrophenol	40.000	41.163	-2.9	91	0.00
27		2,4-Dimethylphenol	40.000	39.432	1.4	89	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.235	4.4	88	0.00
29	C	2,4-Dichlorophenol	40.000	39.652	0.9	90	0.00
30		1,2,4-Trichlorobenzene	40.000	39.055	2.4	90	0.00
31		Naphthalene	40.000	38.230	4.4	89	0.00
32		Benzoic acid	40.000	41.415	-3.5	89	0.00
33		4-Chloroaniline	40.000	38.252	4.4	89	0.00
34	C	Hexachlorobutadiene	40.000	39.380	1.5	91	0.00
35		Caprolactam	40.000	38.578	3.6	88	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.752	3.1	89	0.00
37		2-Methylnaphthalene	40.000	38.737	3.2	90	0.00
38		1-Methylnaphthalene	40.000	37.862	5.3	88	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	87	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.725	0.7	89	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.744	0.6	81	0.00
42	S	2,4,6-Tribromophenol	80.000	79.554	0.6	90	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.474	-1.2	89	0.00
44		2,4,5-Trichlorophenol	40.000	40.064	-0.2	88	0.00
45	S	2-Fluorobiphenyl	80.000	78.281	2.1	91	0.00
46		1,1'-Biphenyl	40.000	39.682	0.8	89	0.00
47		2-Chloronaphthalene	40.000	39.481	1.3	89	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	40.330	-0.8	89	0.00
49		Acenaphthylene	40.000	39.356	1.6	89	0.00
50		Dimethylphthalate	40.000	39.515	1.2	88	0.00
51		2,6-Dinitrotoluene	40.000	40.554	-1.4	88	0.00
52	C	Acenaphthene	40.000	39.611	1.0	89	0.00
53		3-Nitroaniline	40.000	40.360	-0.9	88	0.00
54	P	2,4-Dinitrophenol	40.000	42.266	-5.7	87	0.00
55		Dibenzofuran	40.000	38.957	2.6	87	0.00
56	P	4-Nitrophenol	40.000	38.970	2.6	84	0.00
57		2,4-Dinitrotoluene	40.000	40.773	-1.9	90	0.00
58		Fluorene	40.000	38.770	3.1	89	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.593	1.0	88	0.00
60		Diethylphthalate	40.000	38.912	2.7	88	0.00
61		4-Chlorophenyl-phenylether	40.000	38.542	3.6	87	0.00
62		4-Nitroaniline	40.000	39.273	1.8	88	0.00
63		Azobenzene	40.000	38.845	2.9	87	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	88	0.00
65		4,6-Dinitro-2-methylphenol	40.000	44.592	-11.5	88	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.845	-2.1	89	0.00
67		4-Bromophenyl-phenylether	40.000	41.081	-2.7	89	0.00
68		Hexachlorobenzene	40.000	40.794	-2.0	89	0.00
69		Atrazine	40.000	31.165	22.1	84	0.00
70	C	Pentachlorophenol	40.000	41.549	-3.9	86	0.00
71		Phenanthrene	40.000	39.514	1.2	87	0.00
72		Anthracene	40.000	39.789	0.5	87	0.00
73		Carbazole	40.000	38.715	3.2	86	0.00
74		Di-n-butylphthalate	40.000	39.593	1.0	87	0.00
75	C	Fluoranthene	40.000	37.440	6.4	85	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	84	0.00
77		Benzidine	40.000	48.333	-20.8	92	0.00
78		Pyrene	40.000	39.536	1.2	85	0.00
79	S	Terphenyl-d14	80.000	78.951	1.3	87	0.00
80		Butylbenzylphthalate	40.000	39.136	2.2	85	0.00
81		Benzo(a)anthracene	40.000	37.462	6.3	86	0.00
82		3,3'-Dichlorobenzidine	40.000	39.619	1.0	86	0.00
83		Chrysene	40.000	38.062	4.8	84	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.130	2.2	86	0.00
85	c	Di-n-octyl phthalate	40.000	41.072	-2.7	86	0.00
86	I	Perylene-d12	20.000	20.000	0.0	89	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	39.527	1.2	88	0.00
88		Benzo(b)fluoranthene	40.000	36.956	7.6	89	0.00
89		Benzo(k)fluoranthene	40.000	38.307	4.2	89	0.00
90	C	Benzo(a)pyrene	40.000	38.965	2.6	89	0.00
91		Dibenzo(a,h)anthracene	40.000	39.936	0.2	88	0.00
92		Benzo(g,h,i)perylene	40.000	38.482	3.8	84	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141120.D
Acq On : 10 Jan 2025 18:12
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF011025

Quant Time: Jan 10 22:57:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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 = 0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 09:34

Lab File ID: BF141163.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.295	1.263		-2.5	
Benzaldehyde	0.966	0.866		-10.4	
Phenol-d6	1.640	1.570		-4.3	
Phenol	1.756	1.667		-5.1	20.0
bis(2-Chloroethyl)ether	1.308	1.229		-6.0	
2-Chlorophenol	1.389	1.347		-3.0	
2-Methylphenol	1.121	1.090		-2.8	
2,2-oxybis(1-Chloropropane)	1.826	1.648		-9.7	
Acetophenone	0.475	0.457		-3.8	
3+4-Methylphenols	1.415	1.349		-4.7	
n-Nitroso-di-n-propylamine	0.966	0.881	0.050	-8.8	
Nitrobenzene-d5	0.377	0.370		-1.9	
Hexachloroethane	0.565	0.551		-2.5	
Nitrobenzene	0.393	0.385		-2.0	
Isophorone	0.645	0.612		-5.1	
2-Nitrophenol	0.179	0.184		2.8	20.0
2,4-Dimethylphenol	0.241	0.232		-3.7	
bis(2-Chloroethoxy)methane	0.405	0.380		-6.2	
2,4-Dichlorophenol	0.287	0.284		-1.0	20.0
Naphthalene	1.055	1.026		-2.7	
4-Chloroaniline	0.365	0.344		-5.8	
Hexachlorobutadiene	0.197	0.196		-0.5	20.0
Caprolactam	0.094	0.092		-2.1	
4-Chloro-3-methylphenol	0.313	0.306		-2.2	20.0
2-Methylnaphthalene	0.672	0.639		-4.9	
Hexachlorocyclopentadiene	0.188	0.199	0.050	5.9	
2,4,6-Trichlorophenol	0.387	0.370		-4.4	20.0
2-Fluorobiphenyl	1.310	1.231		-6.0	
2,4,5-Trichlorophenol	0.409	0.404		-1.2	
1,1-Biphenyl	1.553	1.467		-5.5	
2-Chloronaphthalene	1.210	1.166		-3.6	
2-Nitroaniline	0.359	0.353		-1.7	
Dimethylphthalate	1.343	1.288		-4.1	
Acenaphthylene	1.728	1.651		-4.5	
2,6-Dinitrotoluene	0.312	0.308		-1.3	
3-Nitroaniline	0.317	0.324		2.2	
Acenaphthene	1.208	1.176		-2.6	20.0
2,4-Dinitrophenol	0.148	0.159	0.050	7.4	
4-Nitrophenol	0.248	0.265	0.050	6.9	

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 09:34

Lab File ID: BF141163.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.642	1.566		-4.6	
2,4-Dinitrotoluene	0.402	0.413		2.7	
Diethylphthalate	1.311	1.242		-5.3	
4-Chlorophenyl-phenylether	0.622	0.595		-4.3	
Fluorene	1.276	1.223		-4.2	
4-Nitroaniline	0.311	0.328		5.5	
4,6-Dinitro-2-methylphenol	0.116	0.131		12.9	
n-Nitrosodiphenylamine	0.645	0.629		-2.5	20.0
2,4,6-Tribromophenol	0.228	0.234		2.6	
4-Bromophenyl-phenylether	0.230	0.229		-0.4	
Hexachlorobenzene	0.256	0.257		0.4	
Atrazine	0.174	0.143		-17.8	
Pentachlorophenol	0.164	0.178		8.5	20.0
Phenanthrene	1.074	1.070		-0.4	
Anthracene	1.044	1.044		0.0	
Carbazole	0.957	0.989		3.3	
Di-n-butylphthalate	1.096	1.092		-0.4	
Fluoranthene	1.071	1.131		5.6	20.0
Pyrene	1.910	1.798		-5.9	
Terphenyl-d14	1.346	1.266		-5.9	
Butylbenzylphthalate	0.637	0.622		-2.4	
3,3-Dichlorobenzidine	0.433	0.415		-4.2	
Benzo(a)anthracene	1.361	1.300		-4.5	
Chrysene	1.274	1.151		-9.7	
Bis(2-ethylhexyl)phthalate	0.764	0.720		-5.8	
Di-n-octyl phthalate	1.154	0.997		-13.6	20.0
Benzo(b)fluoranthene	1.290	1.198		-7.1	
Benzo(k)fluoranthene	1.090	1.161		6.5	
Benzo(a)pyrene	1.064	1.042		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.465	1.419		-3.1	
Dibenzo(a,h)anthracene	1.185	1.151		-2.9	
Benzo(g,h,i)perylene	1.233	1.220		-1.1	
1,2,4,5-Tetrachlorobenzene	0.574	0.557		-3.0	
1,4-Dioxane	0.577	0.535		-7.3	20.0
2,3,4,6-Tetrachlorophenol	0.340	0.329		-3.2	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	160442	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	621128	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	331065	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	558521	20.000	ng		0.00
76) Chrysene-d12	13.986	240	351337	20.000	ng		0.00
86) Perylene-d12	15.445	264	315529	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	810316	78.021	ng		0.00
7) Phenol-d6	6.451	99	1007659	76.593	ng		0.00
23) Nitrobenzene-d5	7.387	82	918413	78.379	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	309616	82.077	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1629732	75.172	ng		0.00
79) Terphenyl-d14	12.933	244	1779531	75.282	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.534	88	171817	37.150	ng		99
3) Pyridine	3.275	79	424245	37.406	ng		97
4) n-Nitrosodimethylamine	3.222	42	212776	38.368	ng		98
6) Aniline	6.487	93	438796	37.567	ng		100
8) 2-Chlorophenol	6.604	128	432221	38.789	ng		100
9) Benzaldehyde	6.369	77	277799	35.852	ng		99
10) Phenol	6.463	94	534771	37.973	ng		97
11) bis(2-Chloroethyl)ether	6.557	93	394506	37.589	ng		98
12) 1,3-Dichlorobenzene	6.763	146	480227	38.642	ng		99
13) 1,4-Dichlorobenzene	6.840	146	486765	38.868	ng		100
14) 1,2-Dichlorobenzene	6.992	146	453891	38.854	ng		98
15) Benzyl Alcohol	6.963	79	372166	39.172	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.098	45	528852	36.110	ng		99
17) 2-Methylphenol	7.069	107	349821	38.886	ng		99
18) Hexachloroethane	7.334	117	176779	39.034	ng		98
19) n-Nitroso-di-n-propyla...	7.239	70	282738	36.484	ng		97
20) 3+4-Methylphenols	7.228	107	432882	38.141	ng	#	82
22) Acetophenone	7.234	105	567117	38.408	ng		99
24) Nitrobenzene	7.404	77	478369	39.172	ng		100
25) Isophorone	7.645	82	759767	37.942	ng		98
26) 2-Nitrophenol	7.722	139	229180	41.256	ng		99
27) 2,4-Dimethylphenol	7.757	122	287904	38.423	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	471751	37.538	ng		100
29) 2,4-Dichlorophenol	7.957	162	352601	39.621	ng		100
30) 1,2,4-Trichlorobenzene	8.045	180	394012	38.734	ng		100
31) Naphthalene	8.128	128	1274026	38.895	ng		100
32) Benzoic acid	7.869	122	299882	41.720	ng		99
33) 4-Chloroaniline	8.175	127	427596	37.746	ng		99
34) Hexachlorobutadiene	8.245	225	242906	39.630	ng		99
35) Caprolactam	8.545	113	114237	39.209	ng		98
36) 4-Chloro-3-methylphenol	8.651	107	380538	39.099	ng		99
37) 2-Methylnaphthalene	8.816	142	794058	38.042	ng		100
38) 1-Methylnaphthalene	8.916	142	781694	38.000	ng		99
40) 1,2,4,5-Tetrachloroben...	8.981	216	368859	38.818	ng		100
41) Hexachlorocyclopentadiene	8.969	237	131781	42.390	ng		97
43) 2,4,6-Trichlorophenol	9.092	196	245166	38.255	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

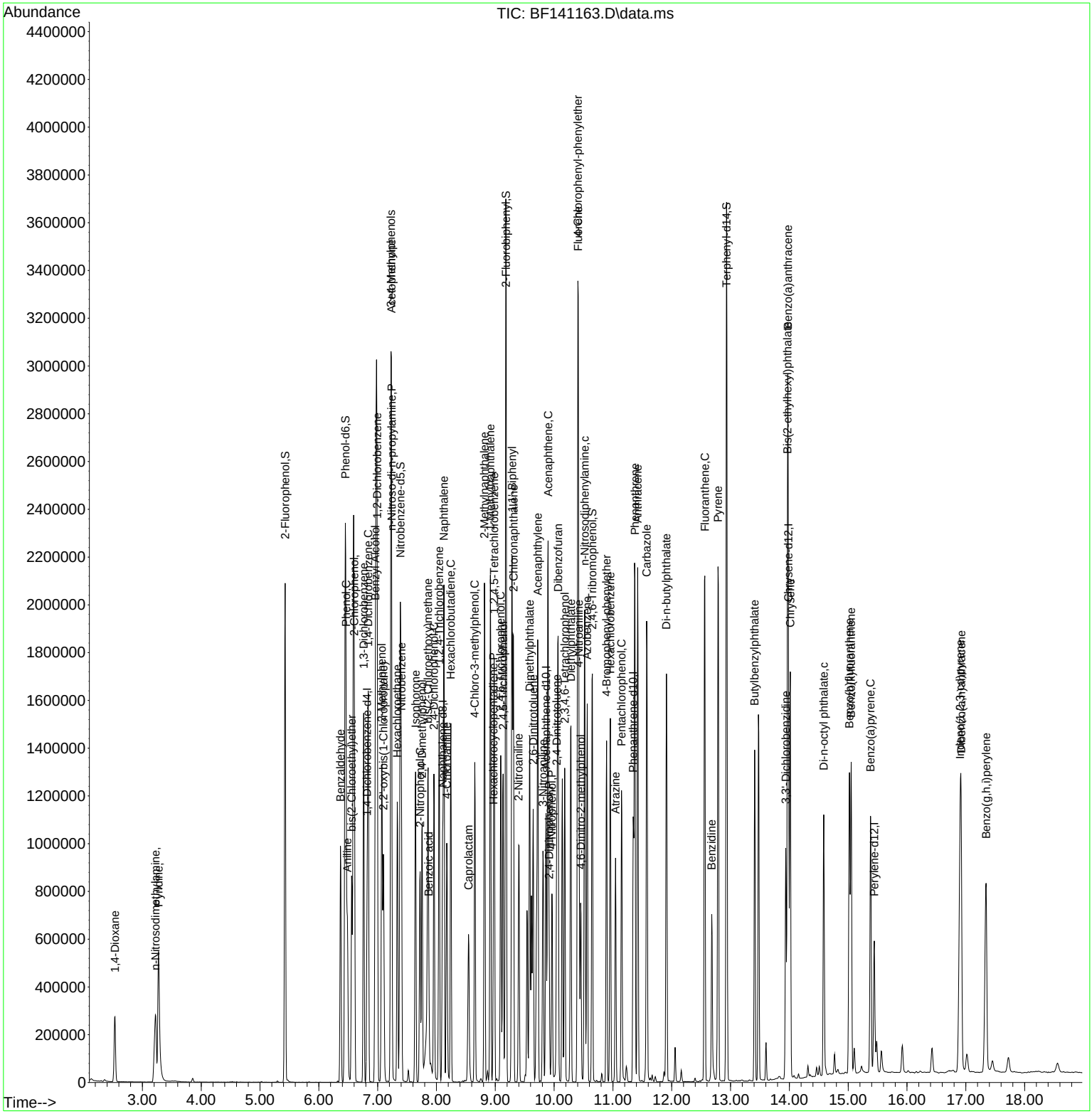
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	9.133	196	267319	39.496	ng		99
46)	1,1'-Biphenyl	9.286	154	971600	37.790	ng		99
47)	2-Chloronaphthalene	9.310	162	771915	38.547	ng		99
48)	2-Nitroaniline	9.398	65	233780	39.382	ng		99
49)	Acenaphthylene	9.722	152	1092932	38.201	ng		100
50)	Dimethylphthalate	9.586	163	852618	38.362	ng		99
51)	2,6-Dinitrotoluene	9.645	165	203629	39.398	ng		96
52)	Acenaphthene	9.898	154	778826	38.964	ng		100
53)	3-Nitroaniline	9.810	138	214285	40.799	ng		96
54)	2,4-Dinitrophenol	9.916	184	105192	42.819	ng	#	85
55)	Dibenzofuran	10.069	168	1036793	38.134	ng		99
56)	4-Nitrophenol	9.963	139	175787	42.735	ng		95
57)	2,4-Dinitrotoluene	10.045	165	273216	41.019	ng		100
58)	Fluorene	10.410	166	809960	38.346	ng		99
59)	2,3,4,6-Tetrachlorophenol	10.180	232	217581	38.675	ng		98
60)	Diethylphthalate	10.286	149	822297	37.898	ng		99
61)	4-Chlorophenyl-phenyle...	10.404	204	393728	38.245	ng		98
62)	4-Nitroaniline	10.422	138	217208	42.253	ng		96
63)	Azobenzene	10.563	77	807640	37.723	ng		99
65)	4,6-Dinitro-2-methylph...	10.457	198	146406	45.236	ng		95
66)	n-Nitrosodiphenylamine	10.522	169	702142	38.976	ng		99
67)	4-Bromophenyl-phenylether	10.892	248	256105	39.828	ng		99
68)	Hexachlorobenzene	10.957	284	287273	40.133	ng		100
69)	Atrazine	11.045	200	159318	32.845	ng		100
70)	Pentachlorophenol	11.145	266	198816	43.371	ng		100
71)	Phenanthrene	11.375	178	1194761	39.845	ng		99
72)	Anthracene	11.422	178	1166005	39.992	ng		100
73)	Carbazole	11.575	167	1104486	41.314	ng		100
74)	Di-n-butylphthalate	11.910	149	1219294	39.853	ng		100
75)	Fluoranthene	12.563	202	1263024	42.210	ng		98
77)	Benzidine	12.680	184	386875	59.379	ng		99
78)	Pyrene	12.786	202	1263722	37.659	ng		99
80)	Butylbenzylphthalate	13.410	149	437365	39.092	ng		98
81)	Benzo(a)anthracene	13.974	228	913143	38.190	ng		100
82)	3,3'-Dichlorobenzidine	13.939	252	291638	38.305	ng		99
83)	Chrysene	14.016	228	808989	36.159	ng		100
84)	Bis(2-ethylhexyl)phtha...	13.968	149	506229	37.710	ng		99
85)	Di-n-octyl phthalate	14.586	149	700620	34.562	ng		98
87)	Indeno(1,2,3-cd)pyrene	16.904	276	895194	38.725	ng		98
88)	Benzo(b)fluoranthene	15.021	252	755846	37.149	ng		99
89)	Benzo(k)fluoranthene	15.051	252	732801	42.618	ng		100
90)	Benzo(a)pyrene	15.380	252	657568	39.172	ng		100
91)	Dibenzo(a,h)anthracene	16.921	278	726146	38.838	ng		98
92)	Benzo(g,h,i)perylene	17.345	276	769728	39.580	ng		98

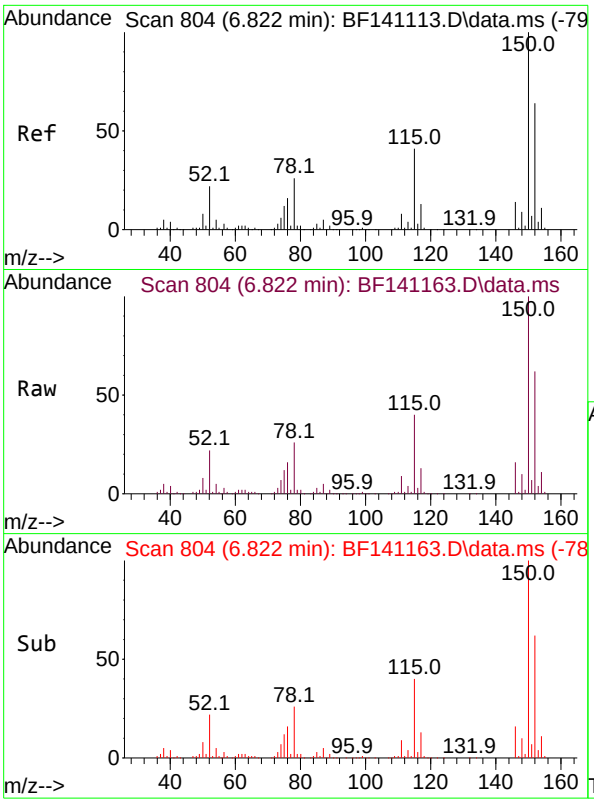
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



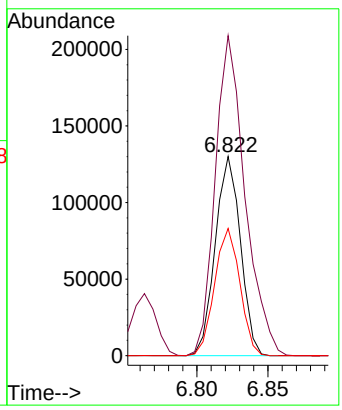


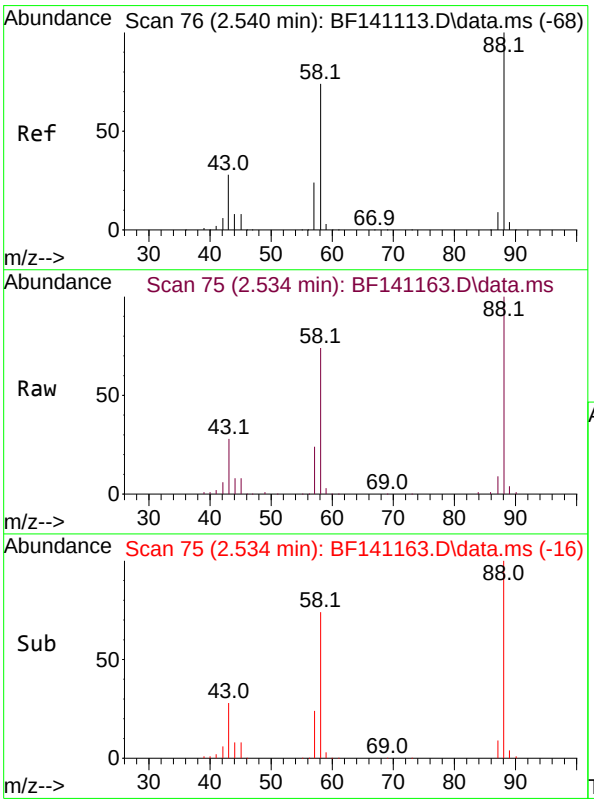
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 160442

Ion	Ratio	Lower	Upper
152	100		
150	160.6	125.8	188.8
115	63.8	51.4	77.2

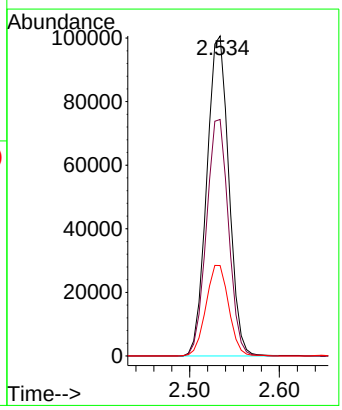


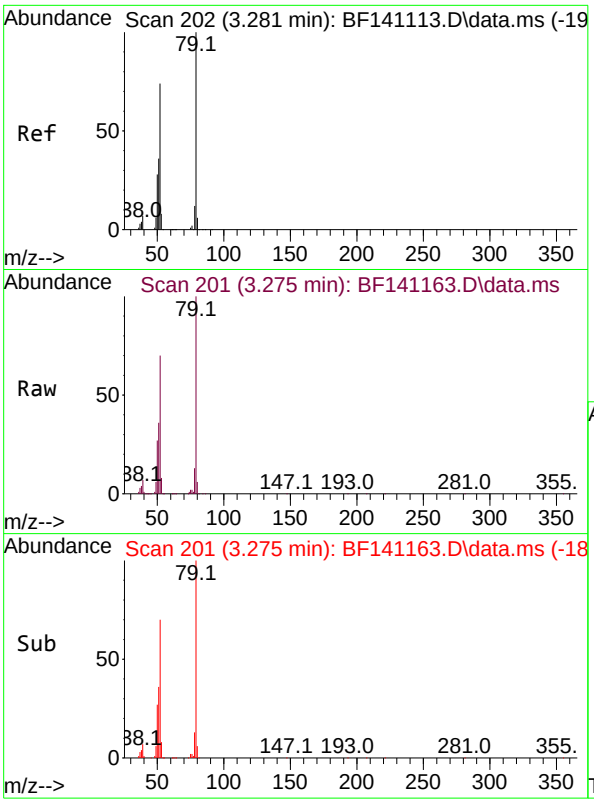


#2
1,4-Dioxane
Concen: 37.150 ng
RT: 2.534 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 88 Resp: 171817

Ion	Ratio	Lower	Upper
88	100		
58	73.8	60.1	90.1
43	29.3	23.1	34.7



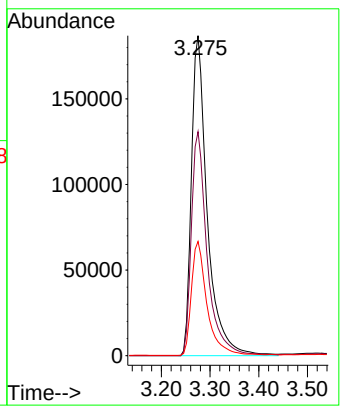


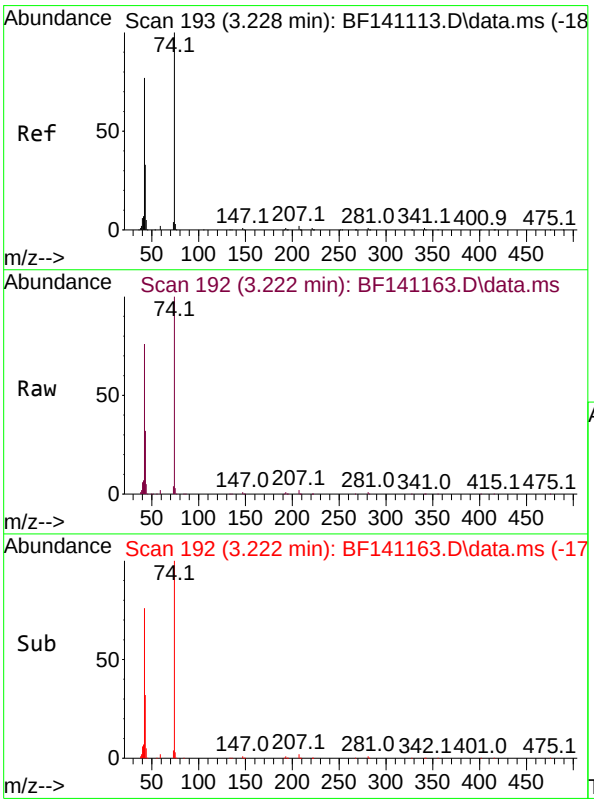
#3
Pyridine
Concen: 37.406 ng
RT: 3.275 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 424245

Ion	Ratio	Lower	Upper
79	100		
52	70.0	58.9	88.3
51	35.7	29.1	43.7

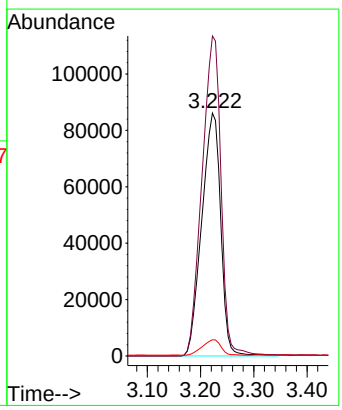


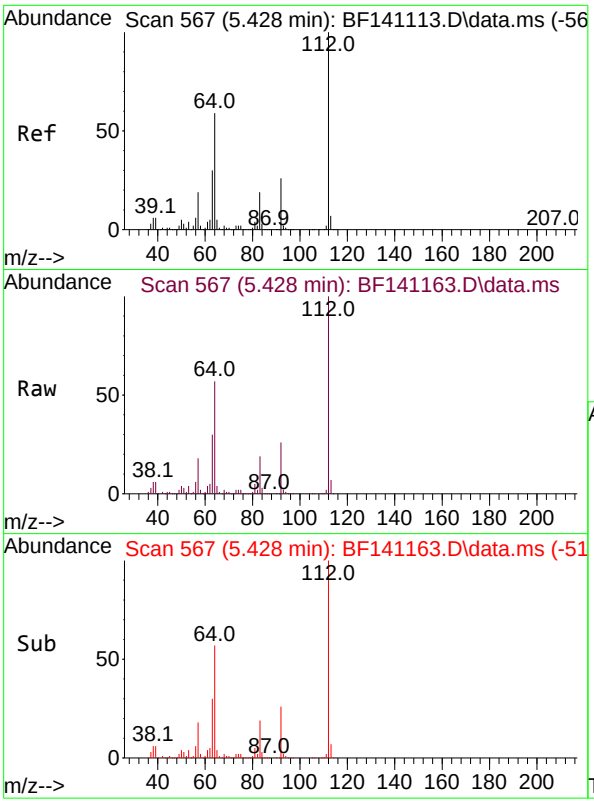


#4
n-Nitrosodimethylamine
Concen: 38.368 ng
RT: 3.222 min Scan# 192
Delta R.T. -0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 42 Resp: 212776

Ion	Ratio	Lower	Upper
42	100		
74	131.7	103.8	155.6
44	6.6	5.3	7.9



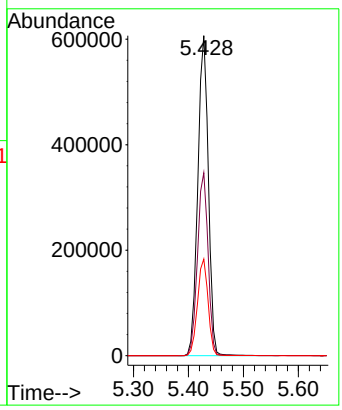


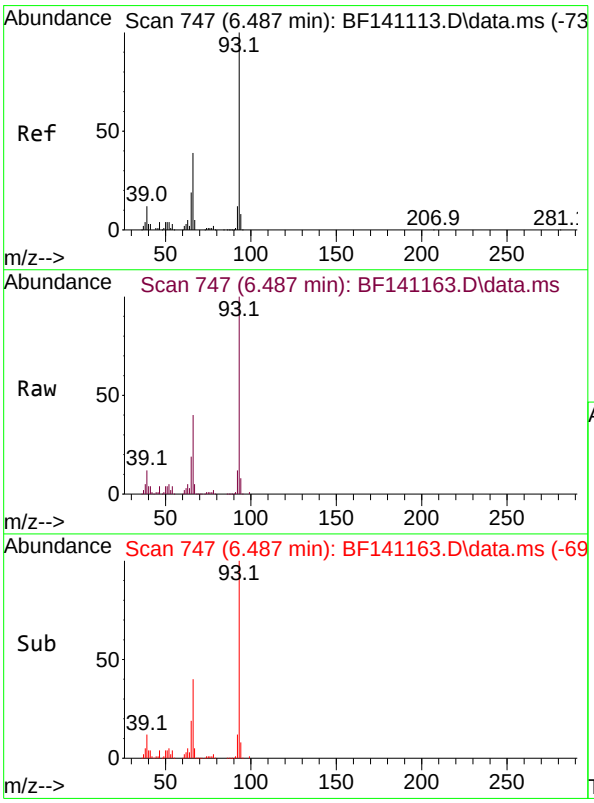
#5
2-Fluorophenol
Concen: 78.021 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 810316

Ion	Ratio	Lower	Upper
112	100		
64	57.2	47.3	70.9
63	30.2	24.2	36.2

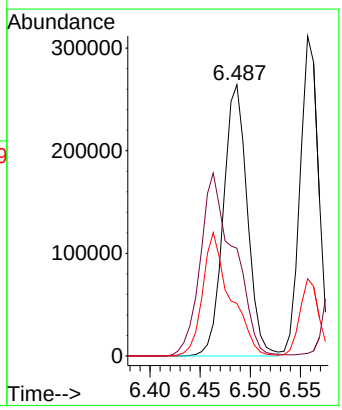


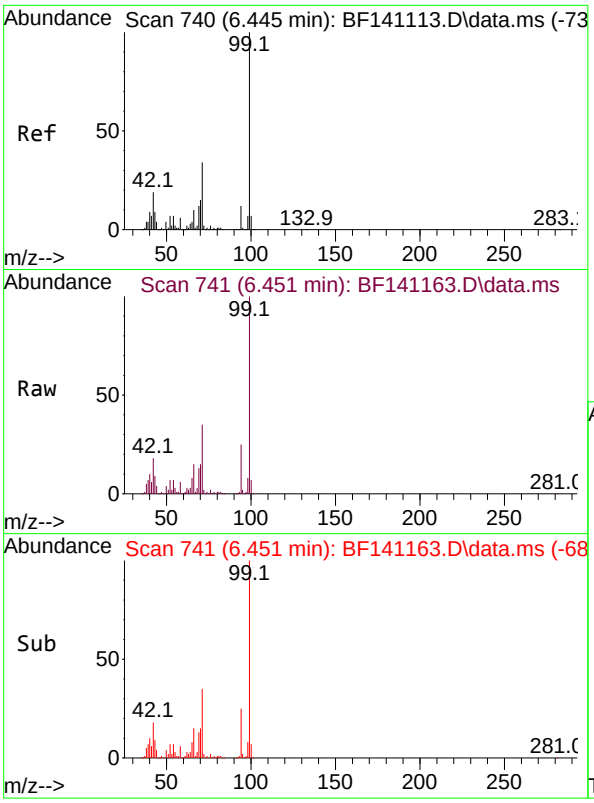


#6
Aniline
Concen: 37.567 ng
RT: 6.487 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 93 Resp: 438796

Ion	Ratio	Lower	Upper
93	100		
66	39.7	31.5	47.3
65	19.3	15.3	22.9



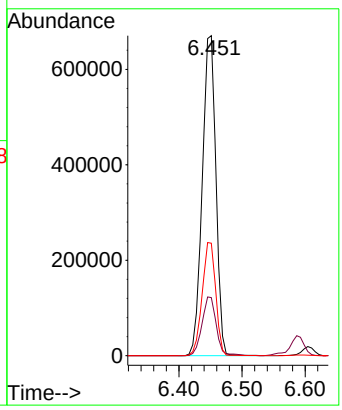


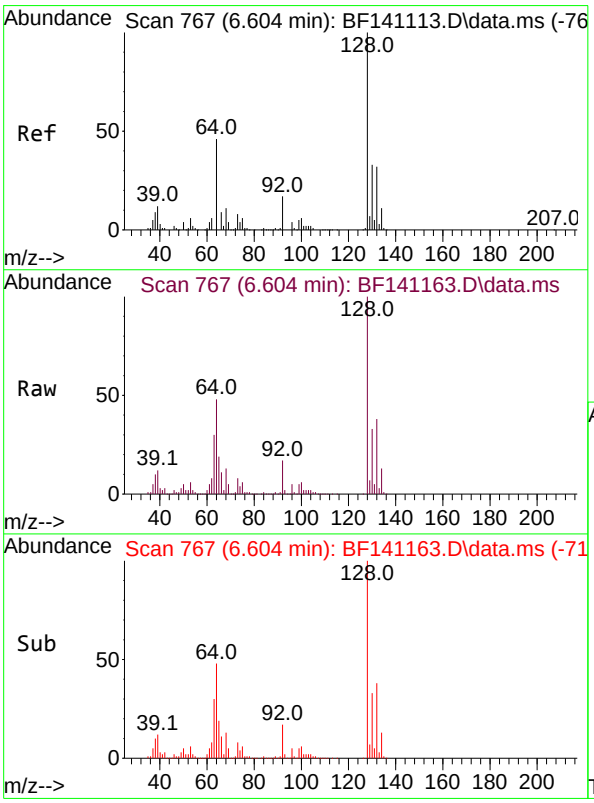
#7
Phenol-d6
Concen: 76.593 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1007659

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.0	22.4
71	35.1	27.6	41.4

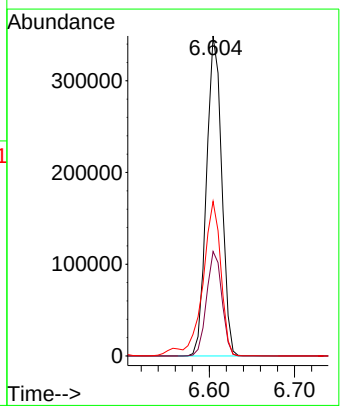


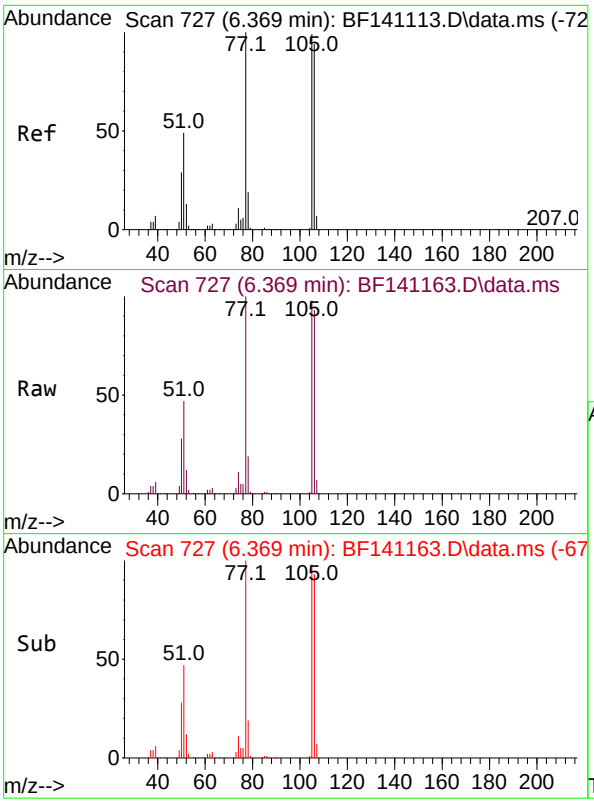


#8
2-Chlorophenol
Concen: 38.789 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:128 Resp: 432221

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.5	52.5
64	48.3	28.3	68.3



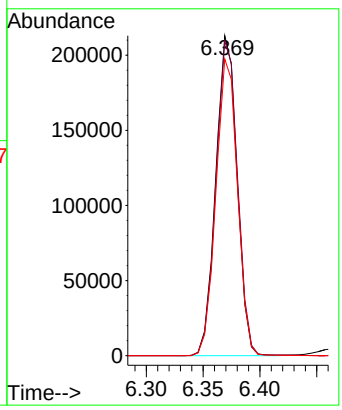


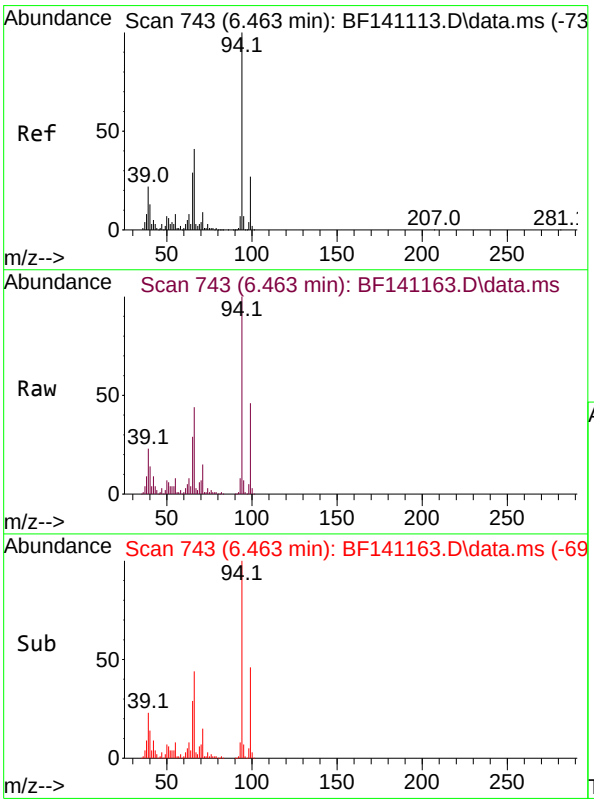
#9
Benzaldehyde
Concen: 35.852 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 277799

Ion	Ratio	Lower	Upper
77	100		
105	98.3	78.9	118.9
106	92.7	73.6	113.6

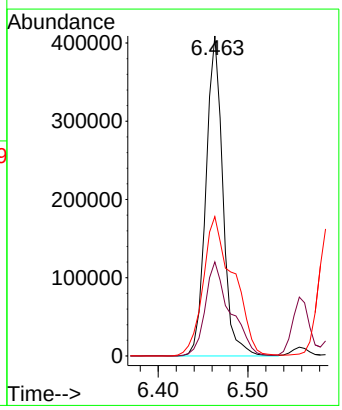


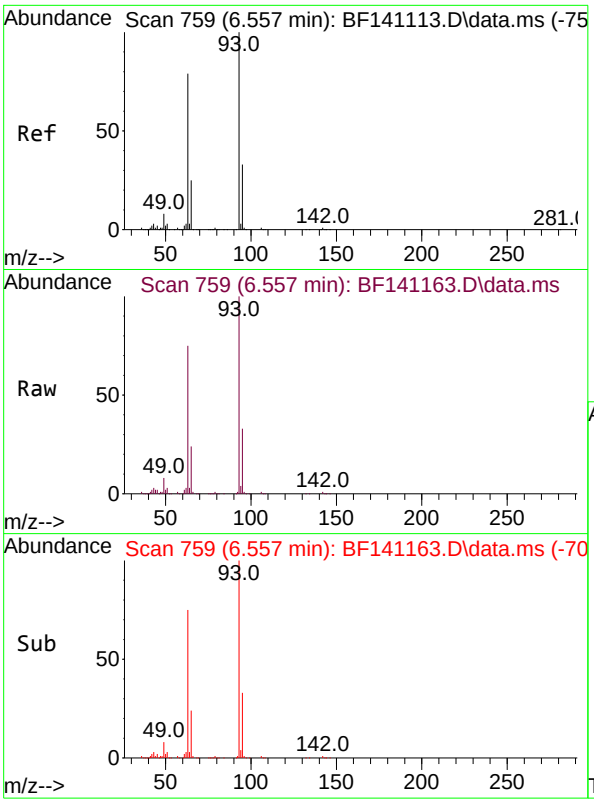


#10
Phenol
Concen: 37.973 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 94 Resp: 534771

Ion	Ratio	Lower	Upper
94	100		
65	29.4	8.9	48.9
66	43.6	21.2	61.2



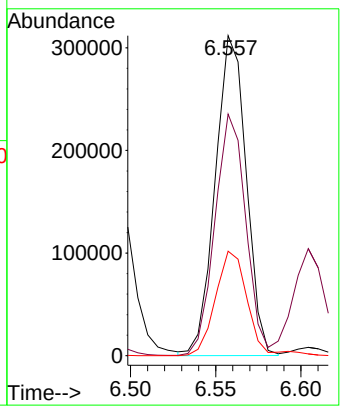


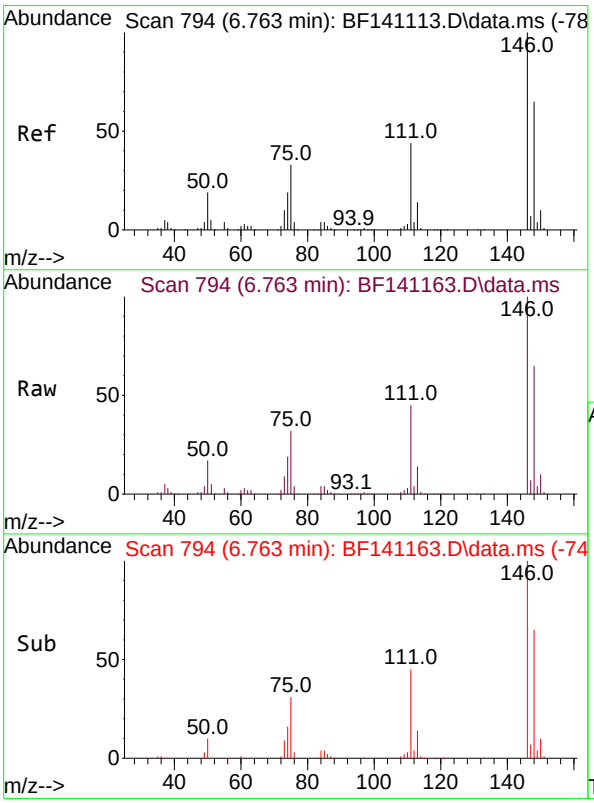
#11
bis(2-Chloroethyl)ether
Concen: 37.589 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 394506

Ion	Ratio	Lower	Upper
93	100		
63	75.5	58.0	98.0
95	32.6	12.5	52.5

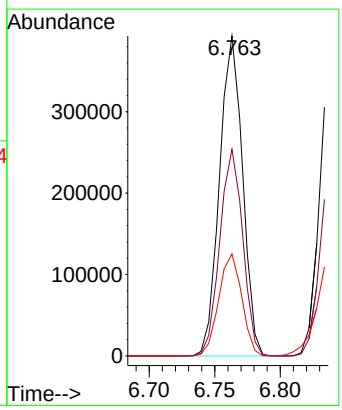


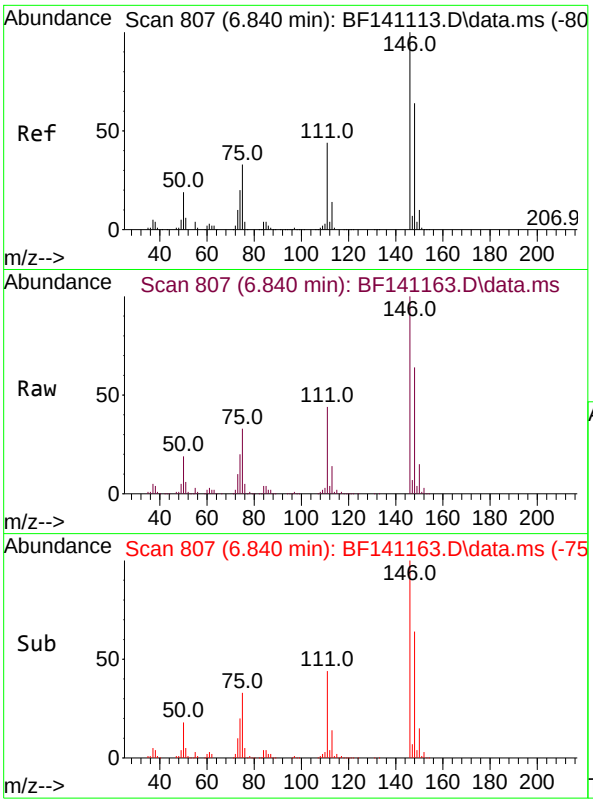


#12
1,3-Dichlorobenzene
Concen: 38.642 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:146 Resp: 480227

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.6	77.4
75	31.9	26.2	39.2



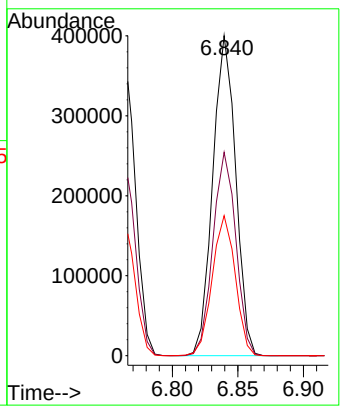


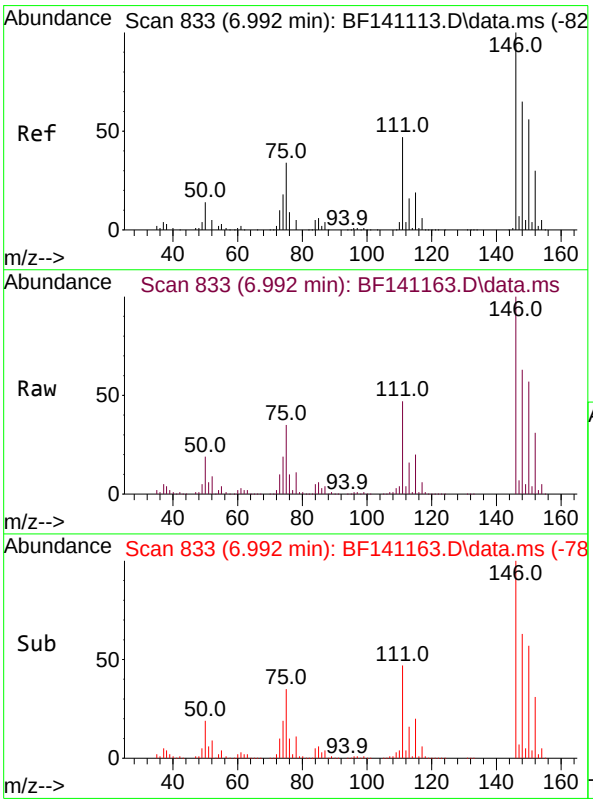
#13
1,4-Dichlorobenzene
Concen: 38.868 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 486765

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
111	43.8	34.9	52.3

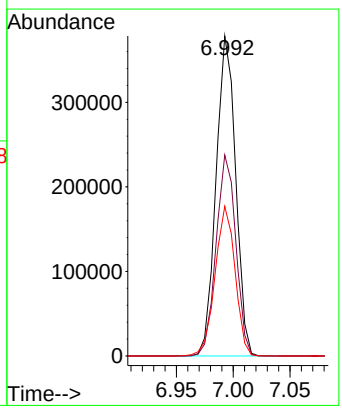


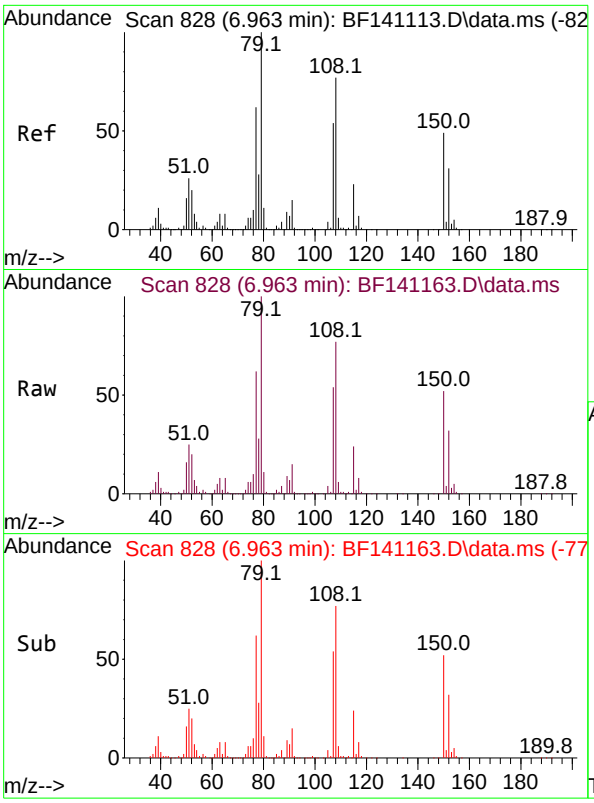


#14
1,2-Dichlorobenzene
Concen: 38.854 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:146 Resp: 453891

Ion	Ratio	Lower	Upper
146	100		
148	62.8	52.2	78.4
111	46.7	37.5	56.3



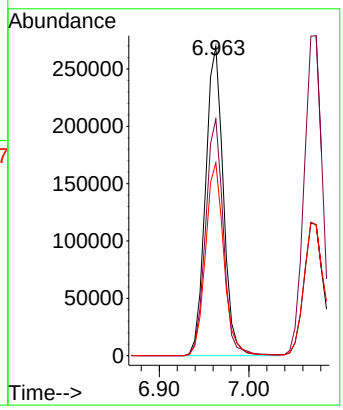


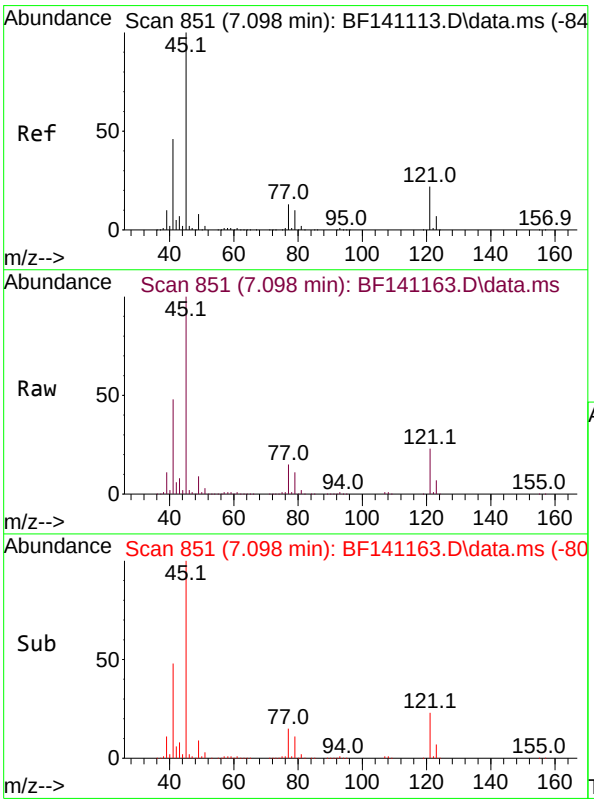
#15
Benzyl Alcohol
Concen: 39.172 ng
RT: 6.963 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 372166

Ion	Ratio	Lower	Upper
79	100		
108	76.5	61.4	92.0
77	62.4	49.8	74.6

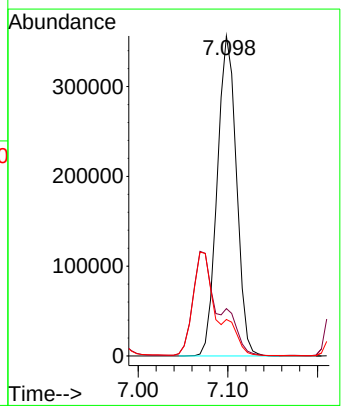


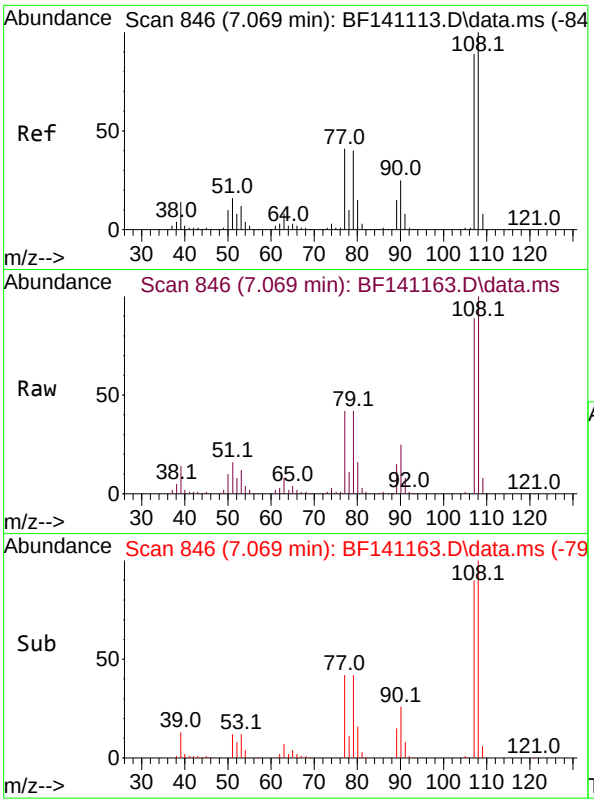


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.110 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 45 Resp: 528852

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	34.1
79	11.4	0.0	31.0



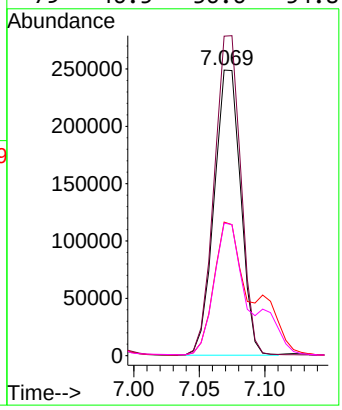


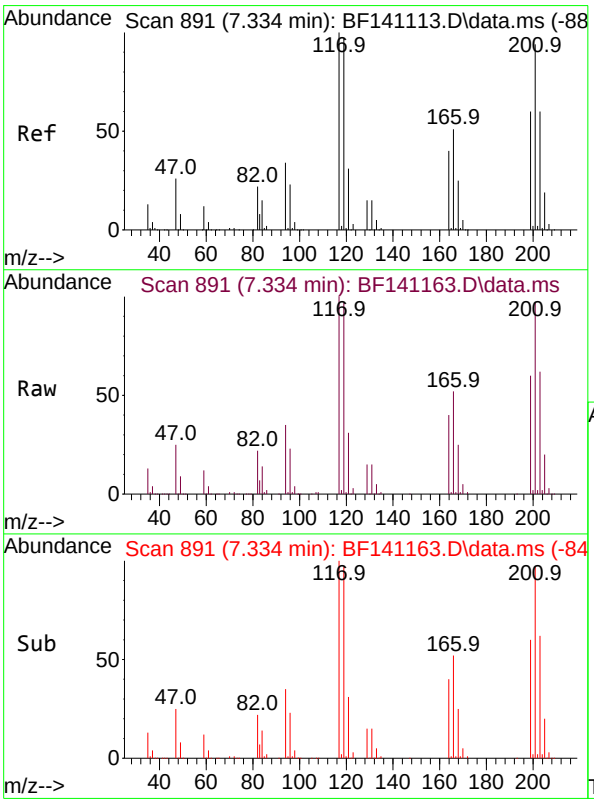
#17
2-Methylphenol
Concen: 38.886 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 349821

Ion	Ratio	Lower	Upper
107	100		
108	111.8	90.1	135.1
77	46.8	36.6	55.0
79	46.5	36.6	54.8

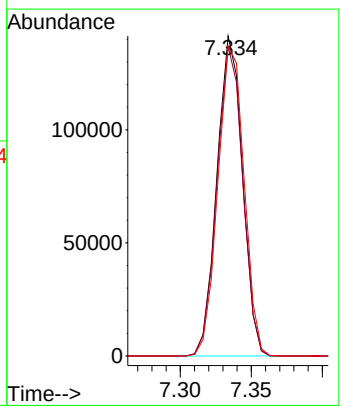


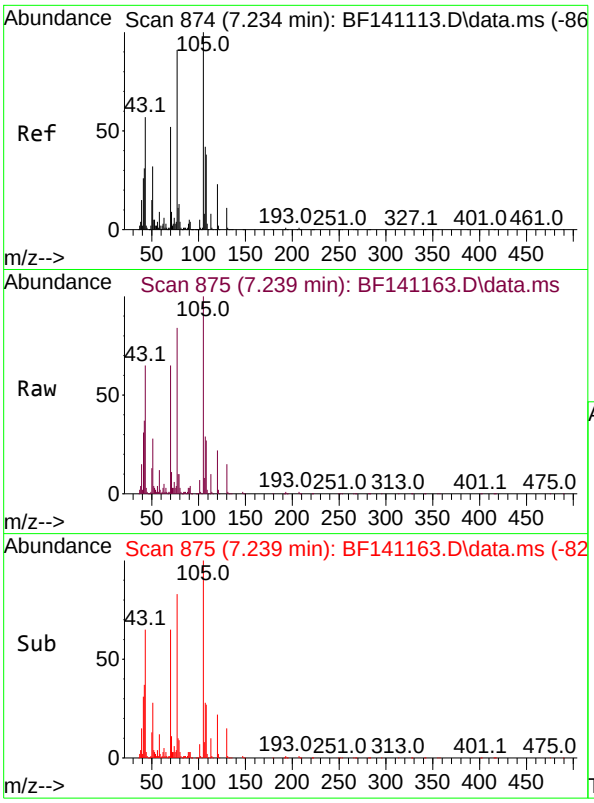


#18
Hexachloroethane
Concen: 39.034 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:117 Resp: 176779

Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.6	116.4
201	96.7	75.1	112.7



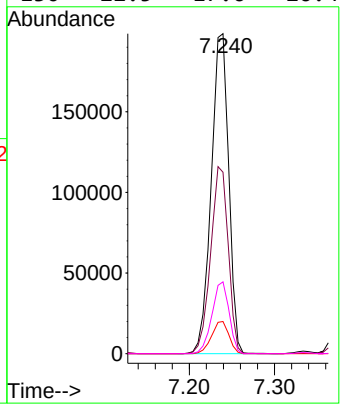


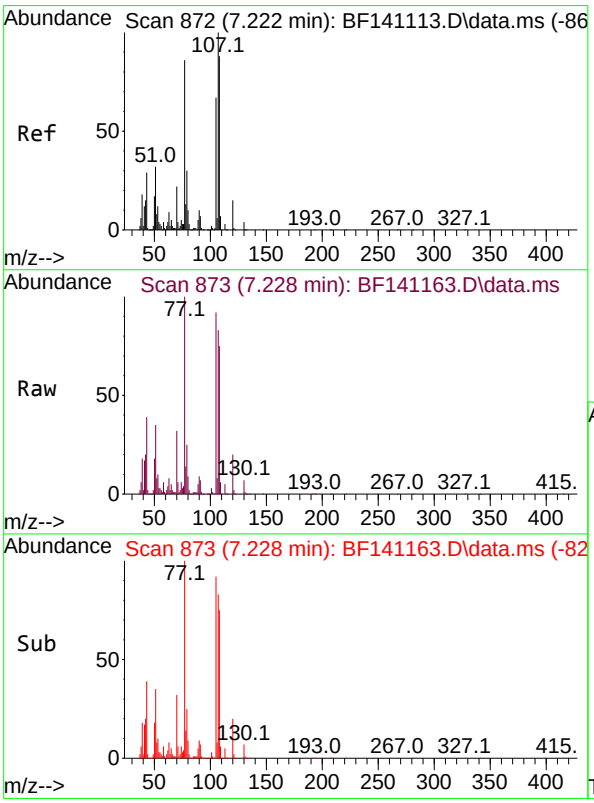
#19
n-Nitroso-di-n-propylamine
Concen: 36.484 ng
RT: 7.239 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 282738

Ion	Ratio	Lower	Upper
70	100		
42	56.7	47.8	71.6
101	10.0	7.9	11.9
130	22.5	17.6	26.4

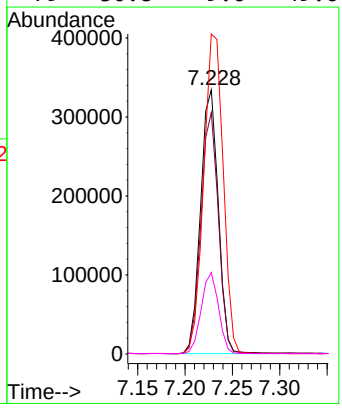


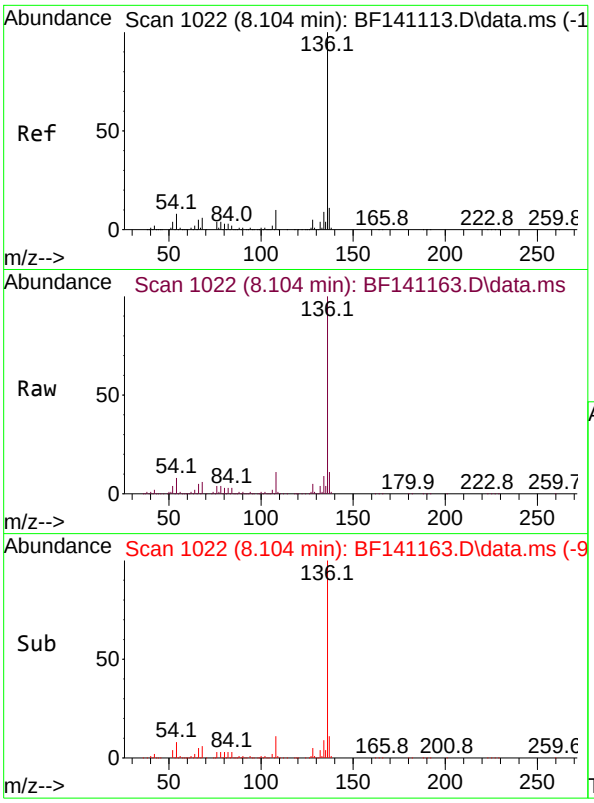


#20
3+4-Methylphenols
Concen: 38.141 ng
RT: 7.228 min Scan# 873
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:107 Resp: 432882

Ion	Ratio	Lower	Upper
107	100		
108	91.4	68.3	108.3
77	121.2	66.4	106.4#
79	30.8	9.6	49.6



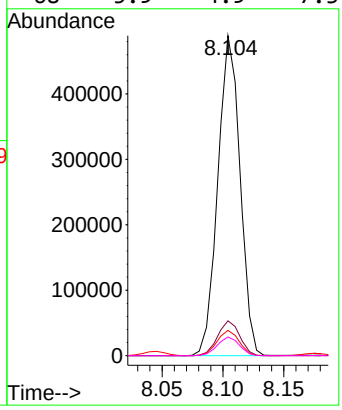


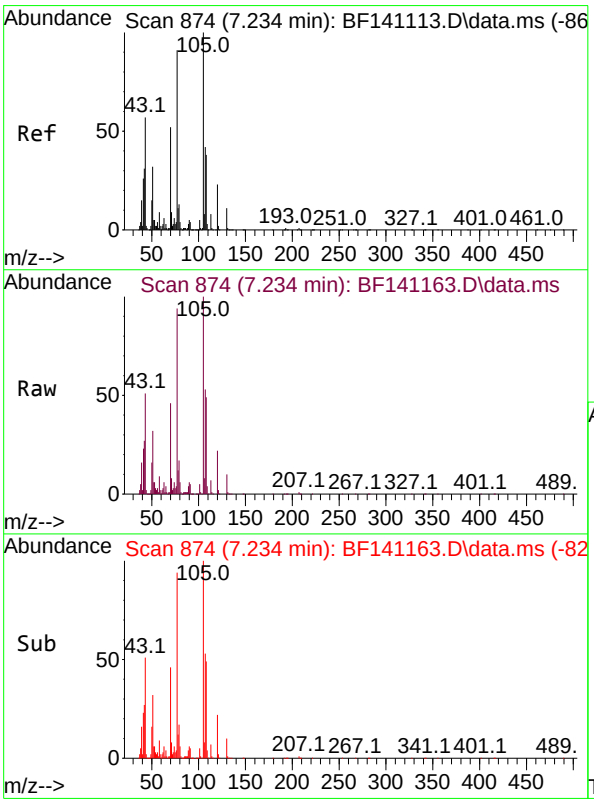
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 621128

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.9	6.3	9.5
68	5.9	4.9	7.3

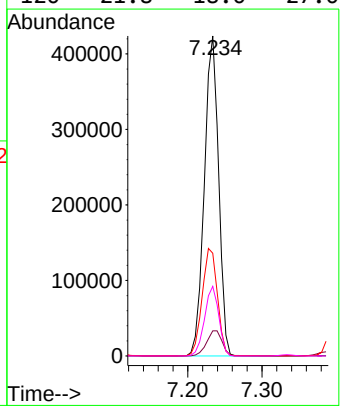


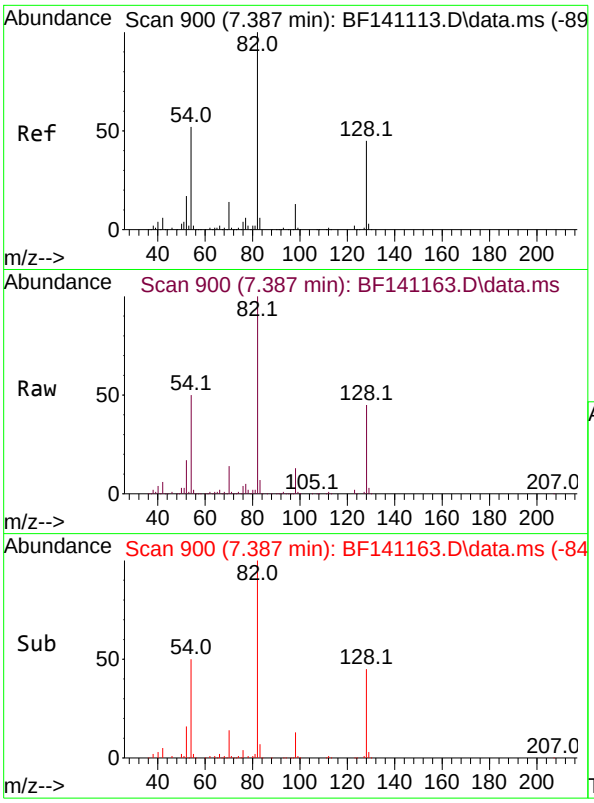


#22
Acetophenone
Concen: 38.408 ng
RT: 7.234 min Scan# 874
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:105 Resp: 567117

Ion	Ratio	Lower	Upper
105	100		
71	7.9	7.1	10.7
51	32.1	25.4	38.2
120	21.8	18.0	27.0



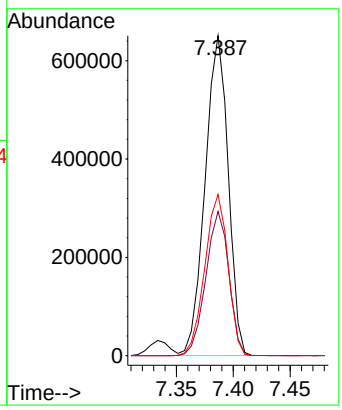


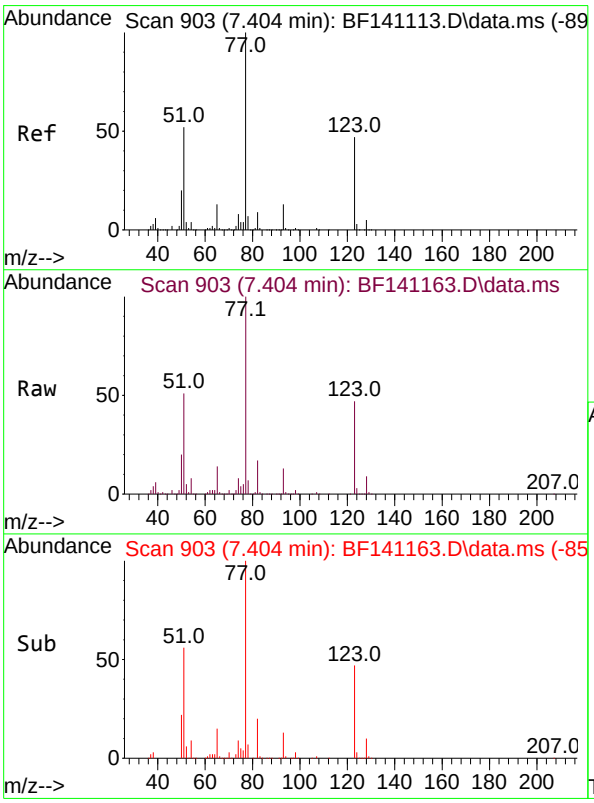
#23
Nitrobenzene-d5
Concen: 78.379 ng
RT: 7.387 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 918413

Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.1	54.1
54	50.4	41.0	61.4

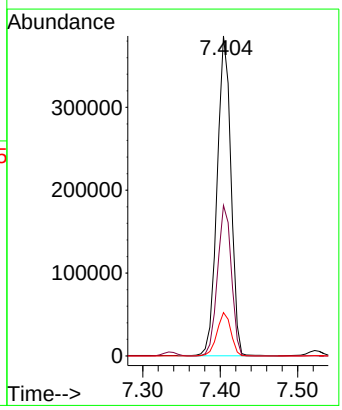


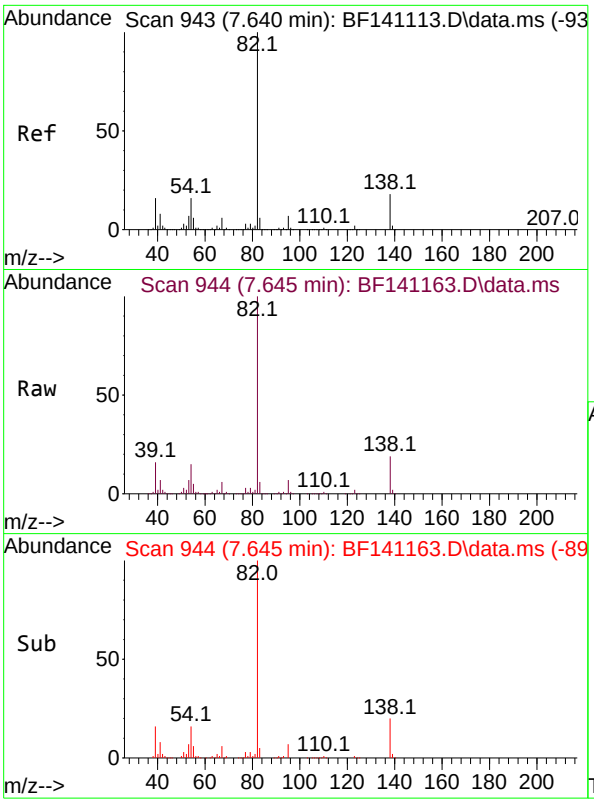


#24
Nitrobenzene
Concen: 39.172 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 77 Resp: 478369

Ion	Ratio	Lower	Upper
77	100		
123	47.1	37.7	56.5
65	13.5	10.6	16.0



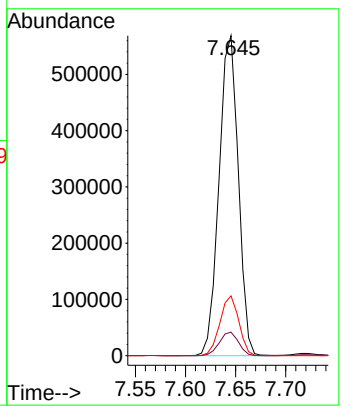


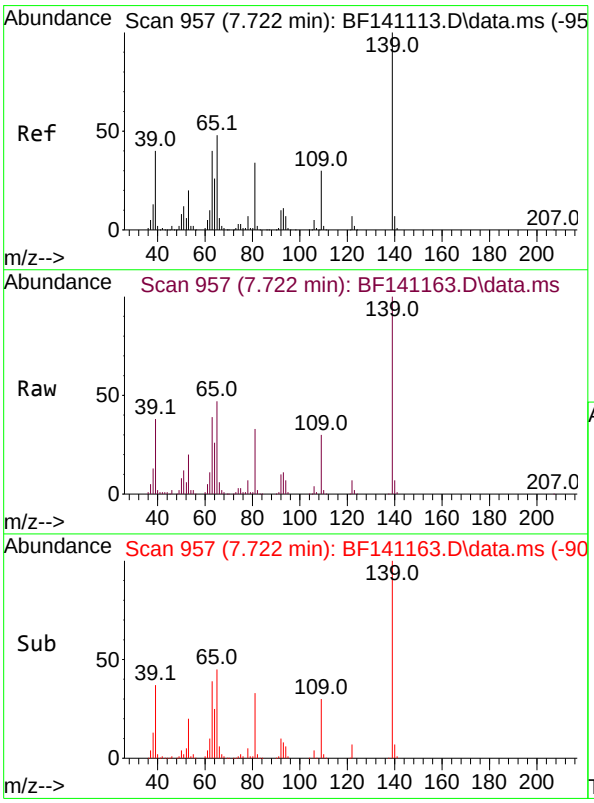
#25
Isophorone
Concen: 37.942 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 759767

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	18.7	14.2	21.2

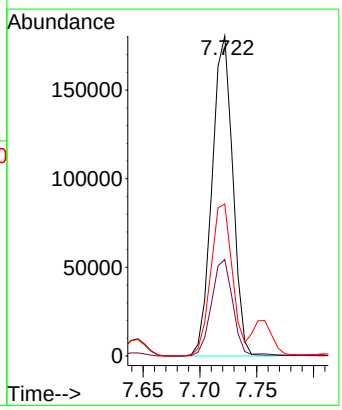


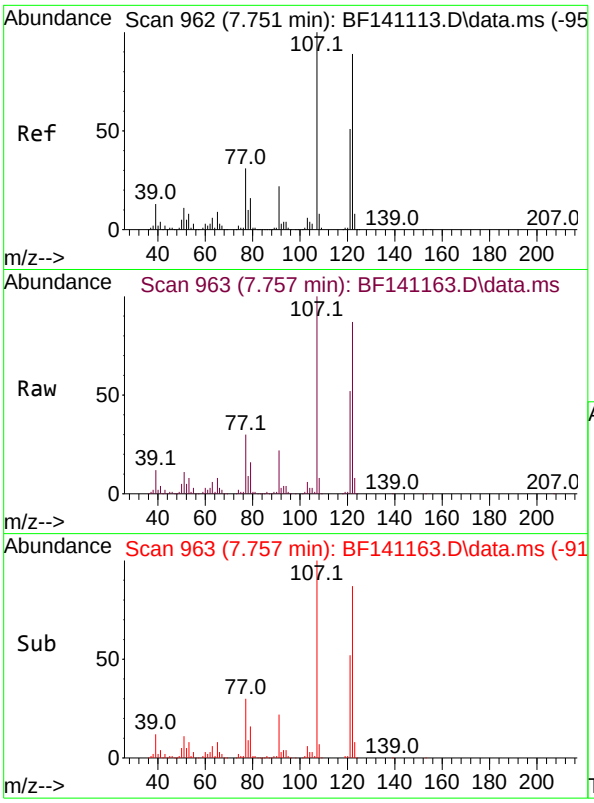


#26
2-Nitrophenol
Concen: 41.256 ng
RT: 7.722 min Scan# 957
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:139 Resp: 229180

Ion	Ratio	Lower	Upper
139	100		
109	30.2	23.8	35.6
65	47.5	38.5	57.7



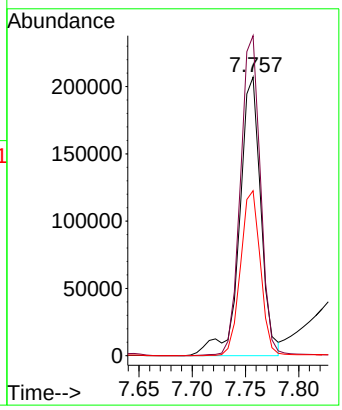


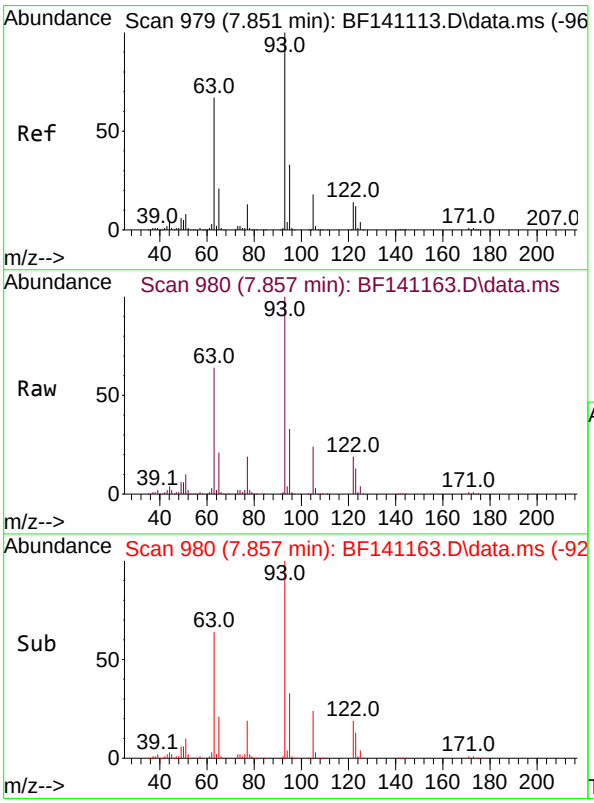
#27
2,4-Dimethylphenol
Concen: 38.423 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 287904

Ion	Ratio	Lower	Upper
122	100		
107	114.9	90.3	135.5
121	59.2	46.5	69.7

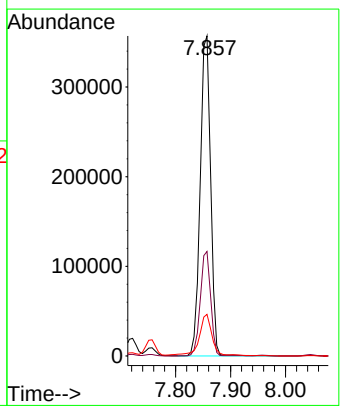


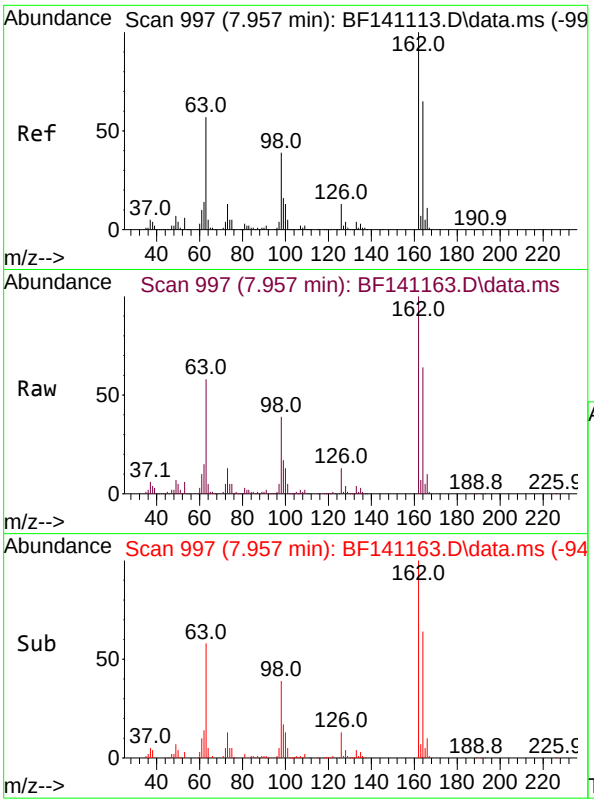


#28
bis(2-Chloroethoxy)methane
Concen: 37.538 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 93 Resp: 471751

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.2	39.4
123	13.0	10.1	15.1



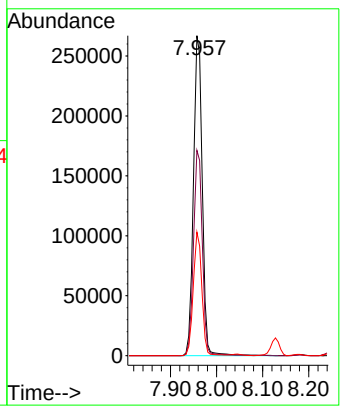


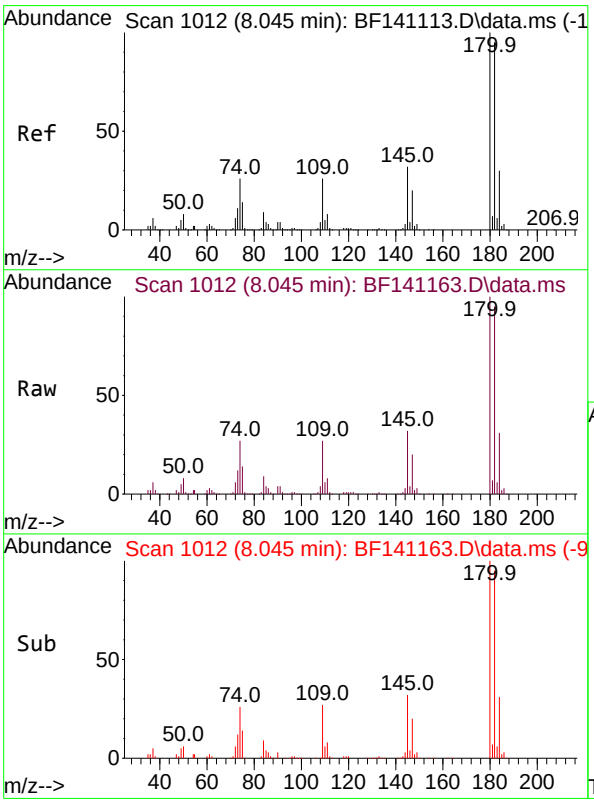
#29
2,4-Dichlorophenol
Concen: 39.621 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 352601

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.5	84.5
98	38.6	18.5	58.5

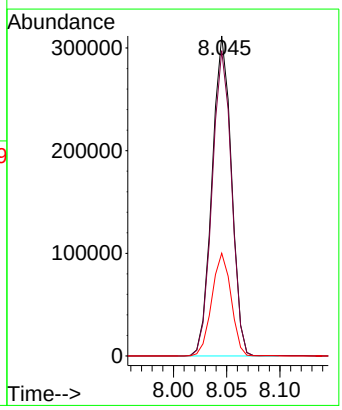


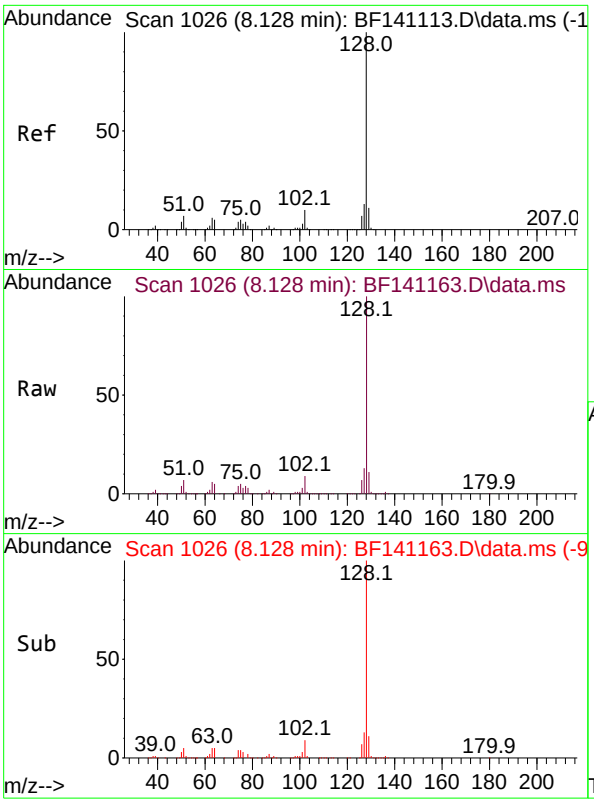


#30
1,2,4-Trichlorobenzene
Concen: 38.734 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:180 Resp: 394012

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.2	114.2
145	32.1	25.3	37.9



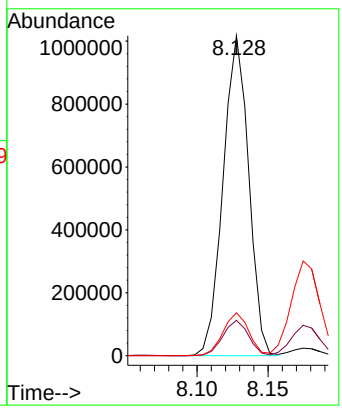


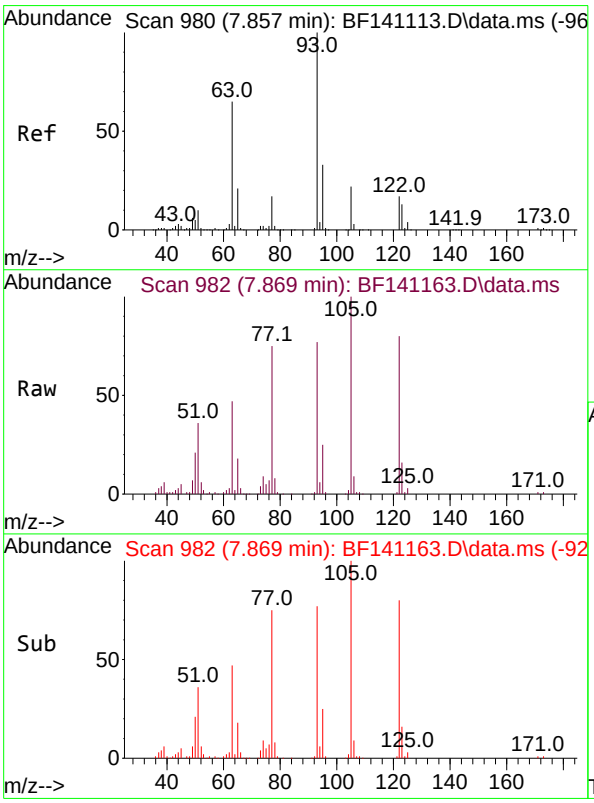
#31
Naphthalene
Concen: 38.895 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1274026

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.4	10.8	16.2

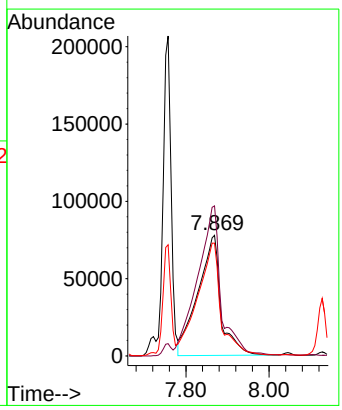


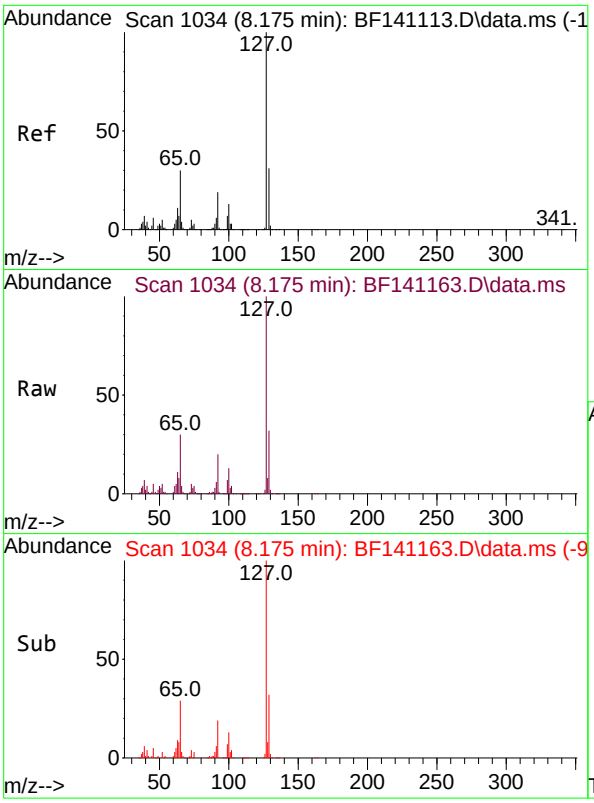


#32
Benzoic acid
Concen: 41.720 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:122 Resp: 299882

Ion	Ratio	Lower	Upper
122	100		
105	124.4	105.5	145.5
77	93.5	75.1	115.1



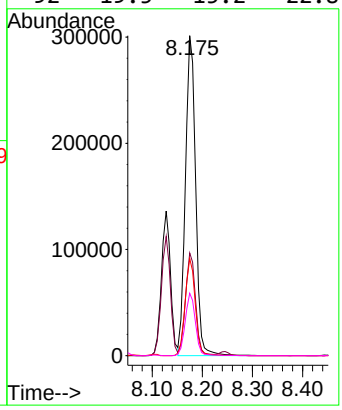


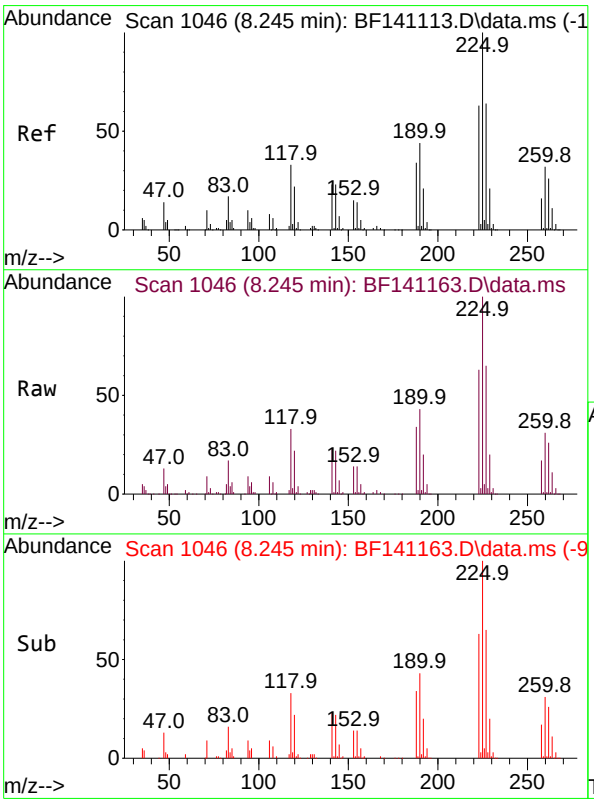
#33
4-Chloroaniline
Concen: 37.746 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 427596

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	30.4	23.8	35.8
92	19.5	15.2	22.8

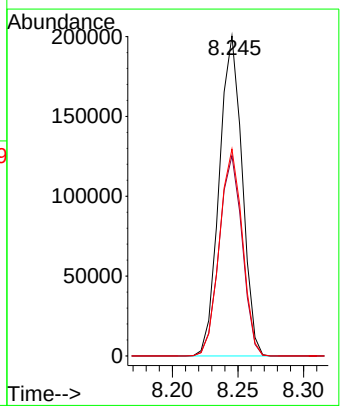


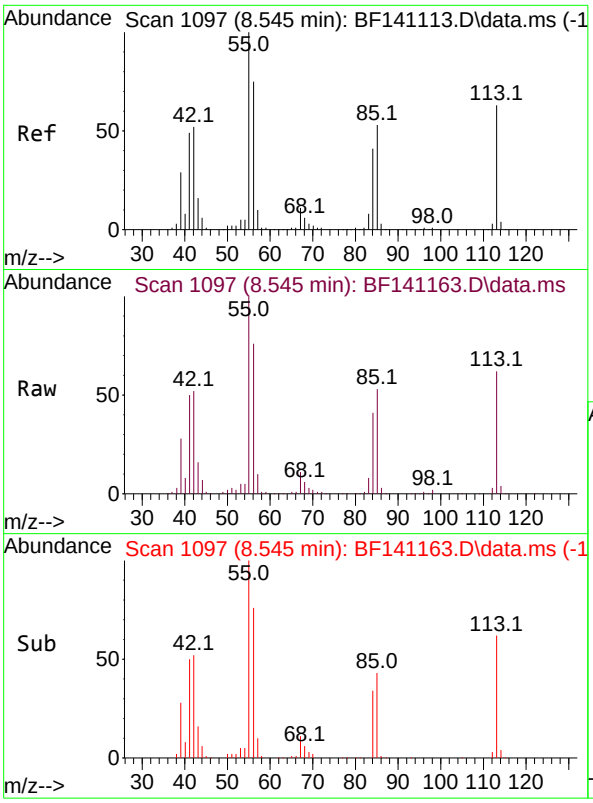


#34
Hexachlorobutadiene
Concen: 39.630 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:225 Resp: 242906

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.6	76.0
227	64.6	51.6	77.4



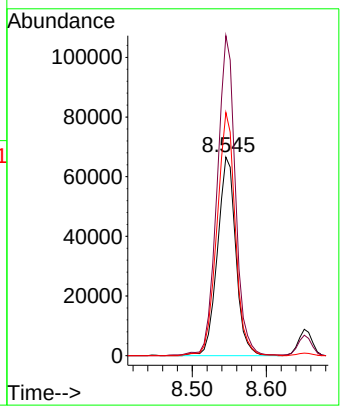


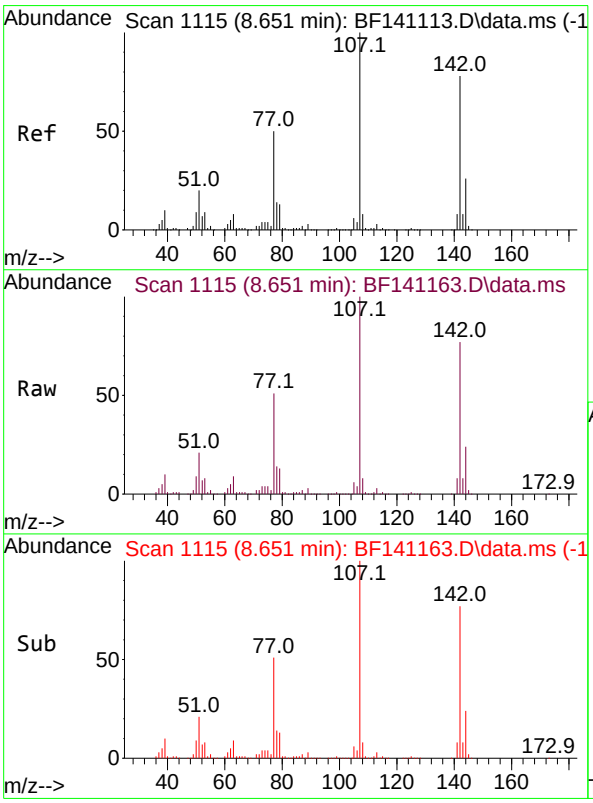
#35
Caprolactam
Concen: 39.209 ng
RT: 8.545 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 114237

Ion	Ratio	Lower	Upper
113	100		
55	161.1	139.7	179.7
56	122.5	99.4	139.4

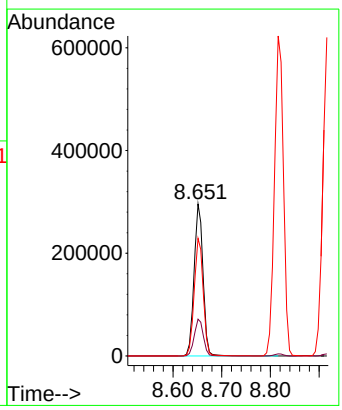


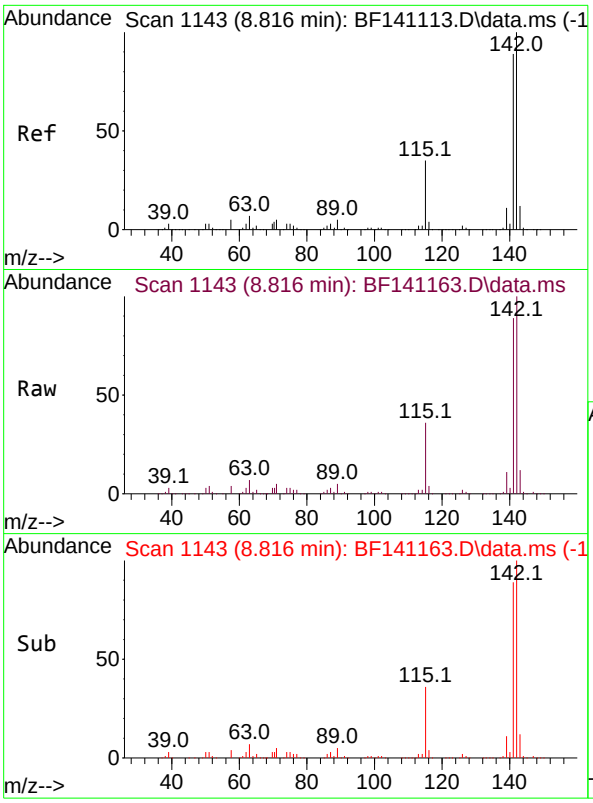


#36
4-Chloro-3-methylphenol
Concen: 39.099 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:107 Resp: 380538

Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.4	30.6
142	77.4	62.2	93.2



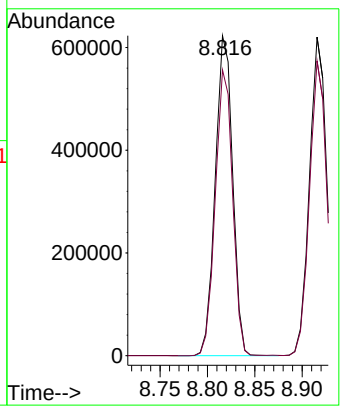


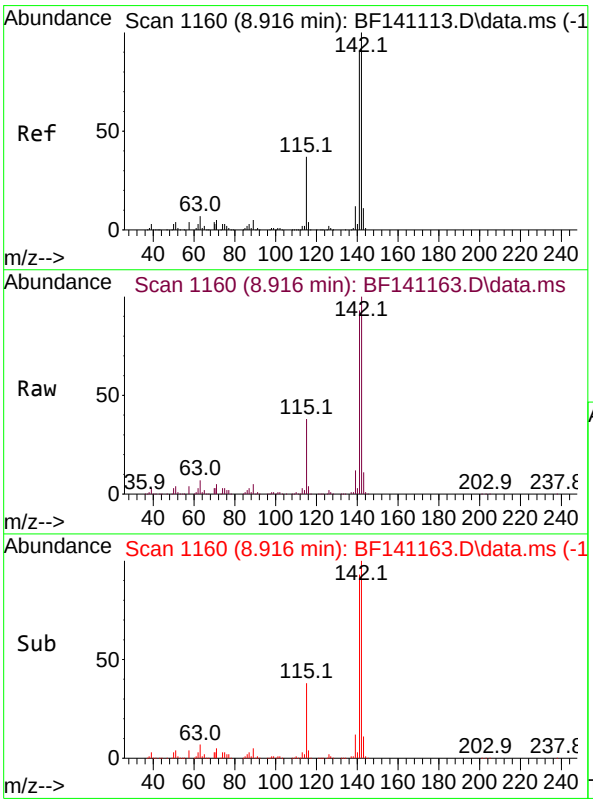
#37
2-Methylnaphthalene
Concen: 38.042 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 794058

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.3	106.9

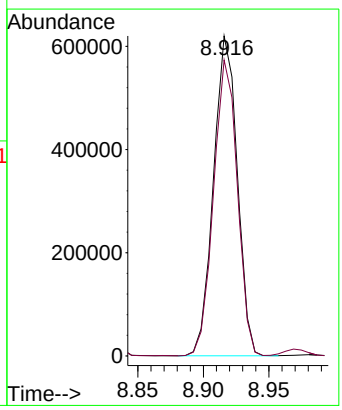


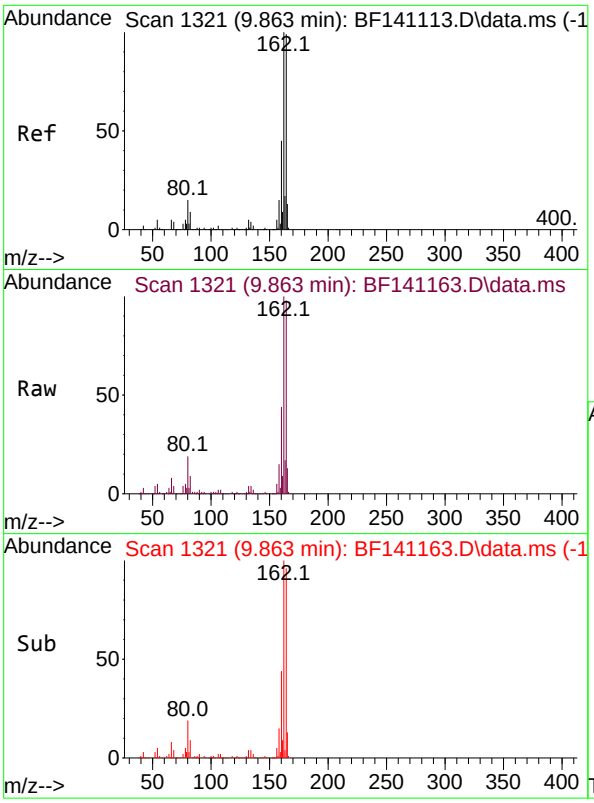


#38
1-Methylnaphthalene
Concen: 38.000 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:142 Resp: 781694

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7



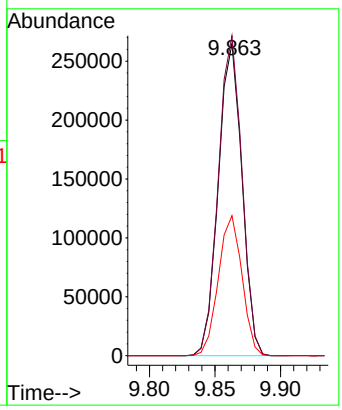


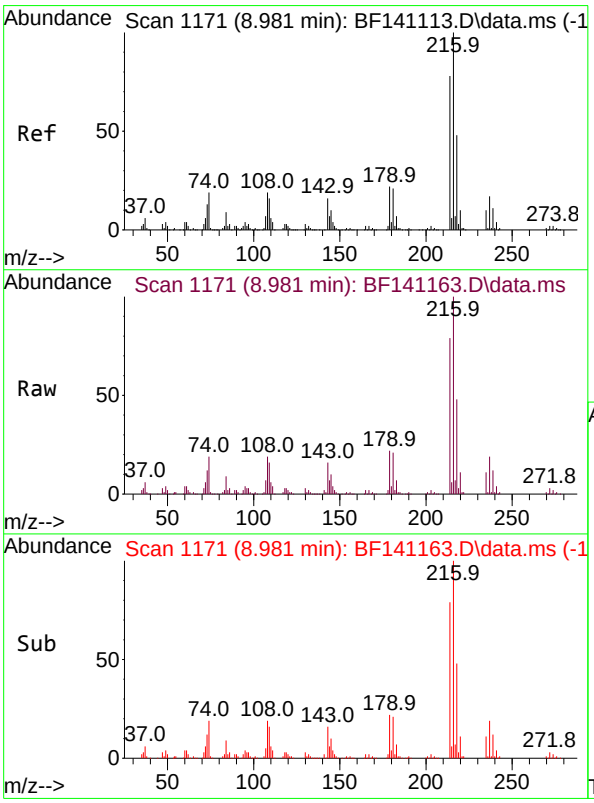
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 331065

Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.0	121.4
160	44.9	36.1	54.1

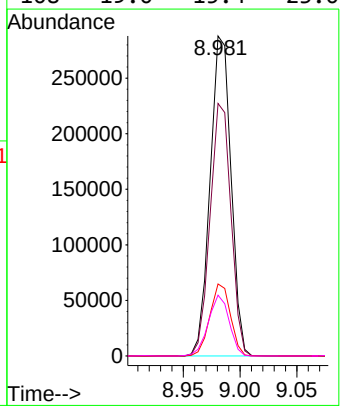


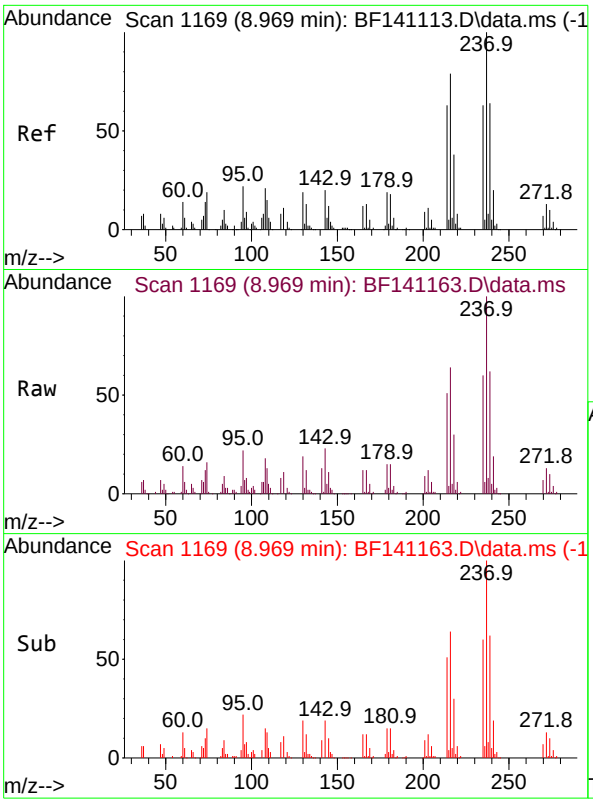


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.818 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:216 Resp: 368859

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.6	94.0
179	22.1	17.7	26.5
108	19.0	15.4	23.0



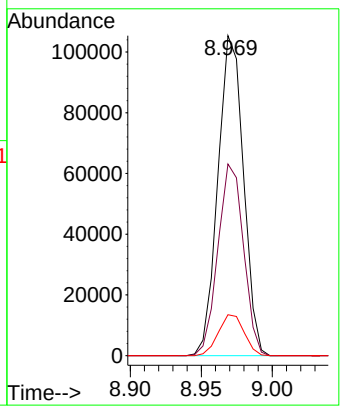


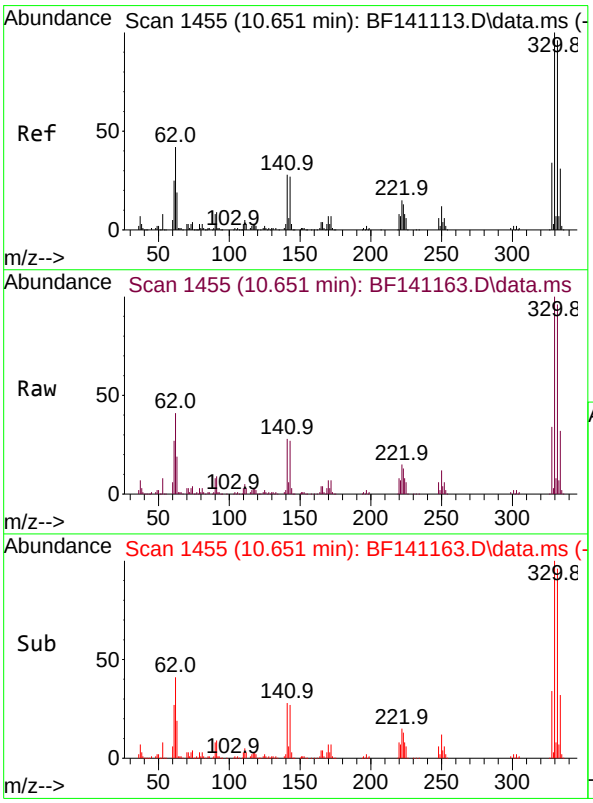
#41
Hexachlorocyclopentadiene
Concen: 42.390 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 131781

Ion	Ratio	Lower	Upper
237	100		
235	59.9	43.0	83.0
272	12.8	0.0	33.0

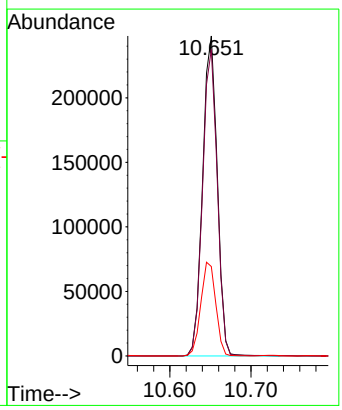


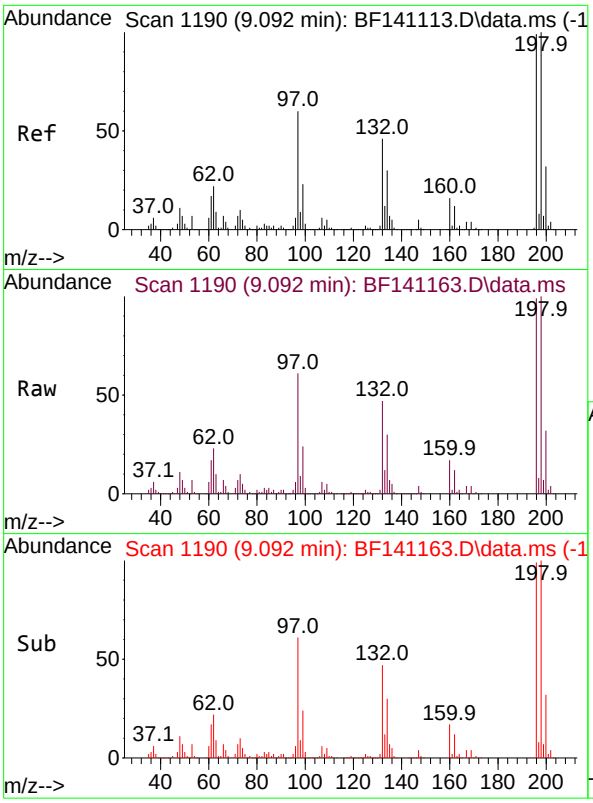


#42
2,4,6-Tribromophenol
Concen: 82.077 ng
RT: 10.651 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:330 Resp: 309616

Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.9	115.3
141	30.0	25.2	37.8



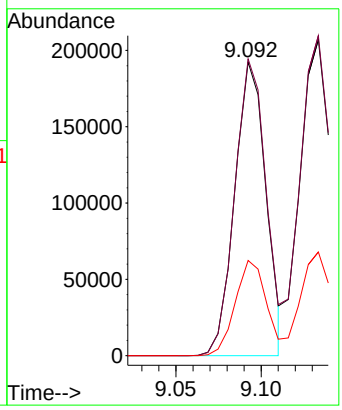


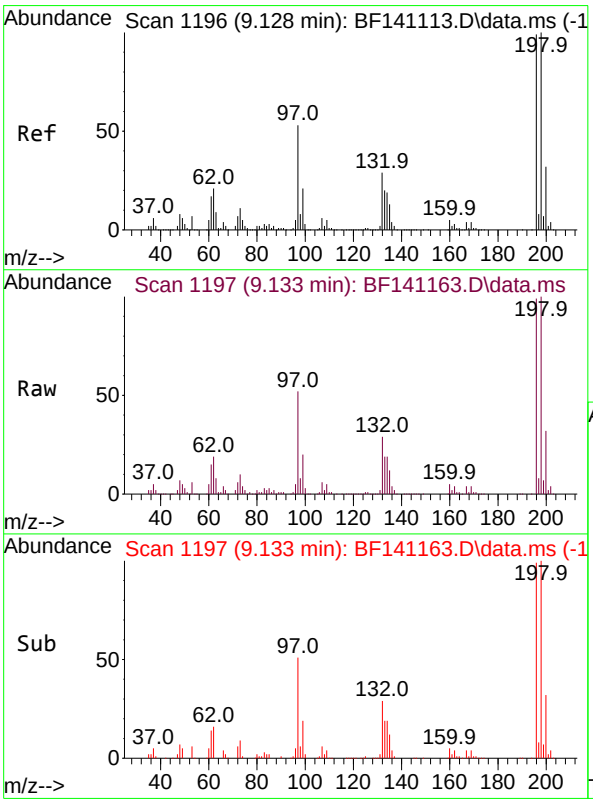
#43
2,4,6-Trichlorophenol
Concen: 38.255 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 245166

Ion	Ratio	Lower	Upper
196	100		
198	101.1	80.8	121.2
200	32.4	25.7	38.5

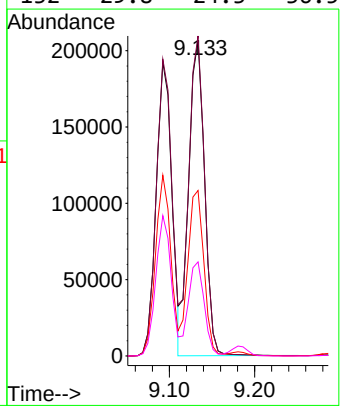


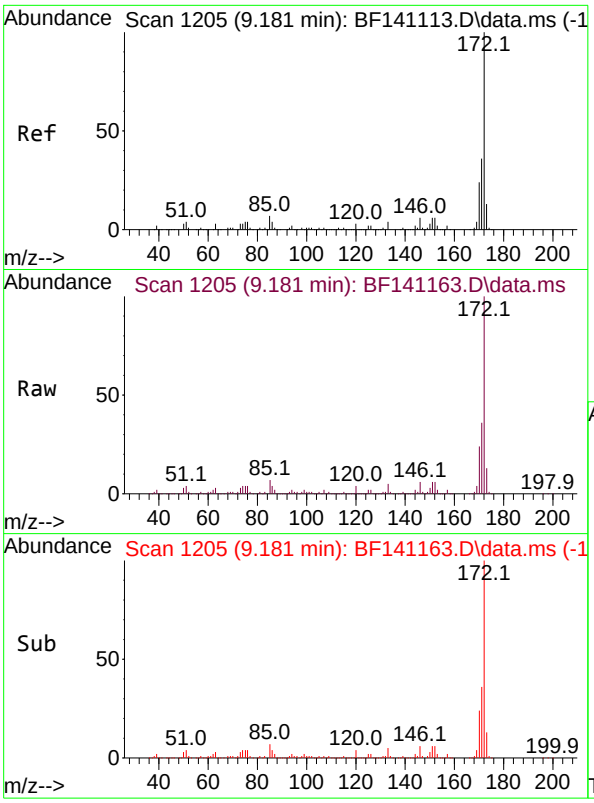


#44
2,4,5-Trichlorophenol
Concen: 39.496 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:196 Resp: 267319

Ion	Ratio	Lower	Upper
196	100		
198	101.3	80.6	120.8
97	52.3	43.1	64.7
132	29.8	24.3	36.5



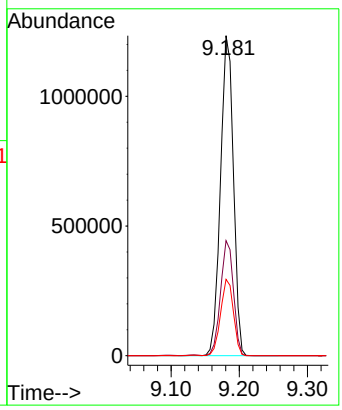


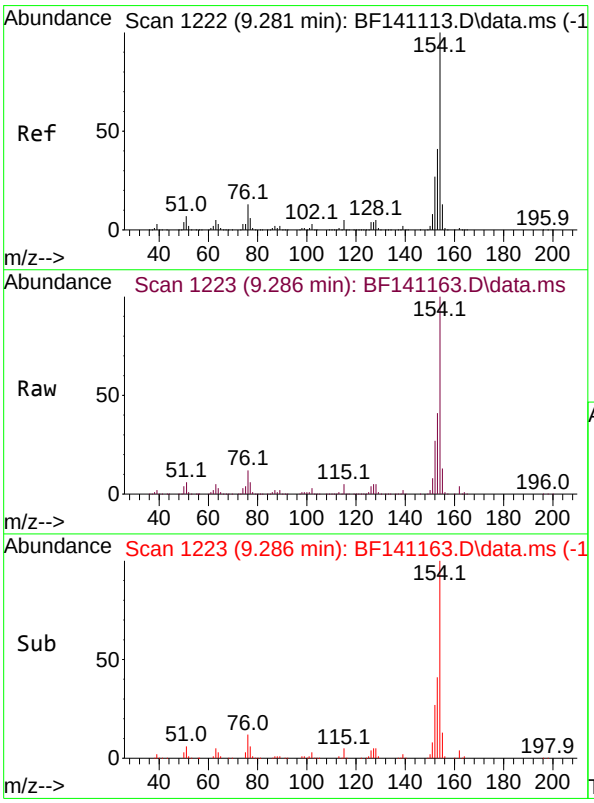
#45
2-Fluorobiphenyl
Concen: 75.172 ng
RT: 9.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1629732

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.7	43.1
170	23.9	19.0	28.6

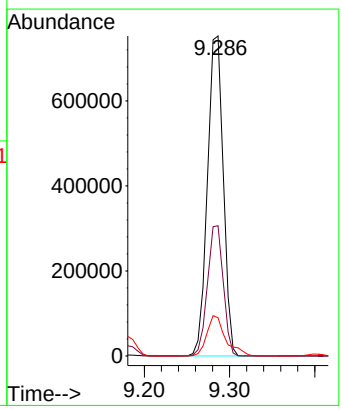


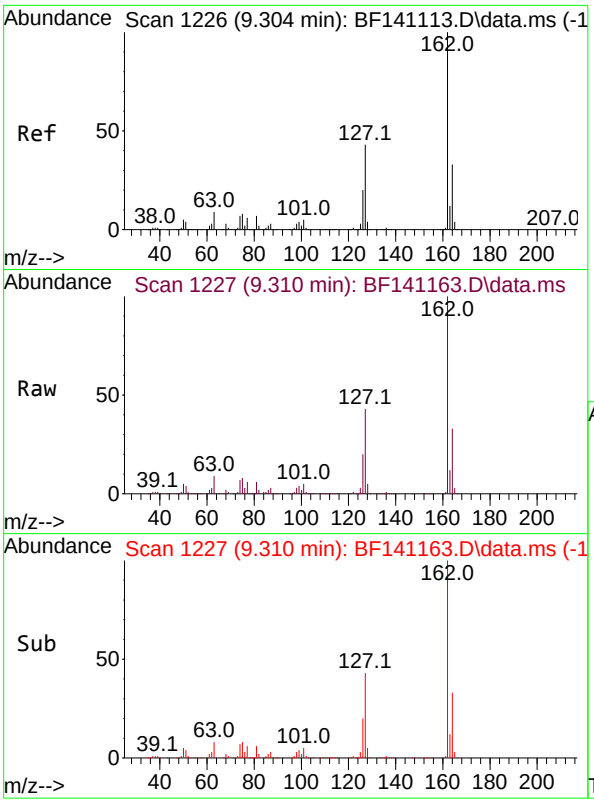


#46
1,1'-Biphenyl
Concen: 37.790 ng
RT: 9.286 min Scan# 1223
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:154 Resp: 971600

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.7	60.7
76	11.9	0.0	33.1



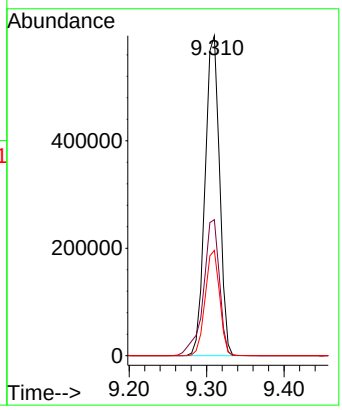


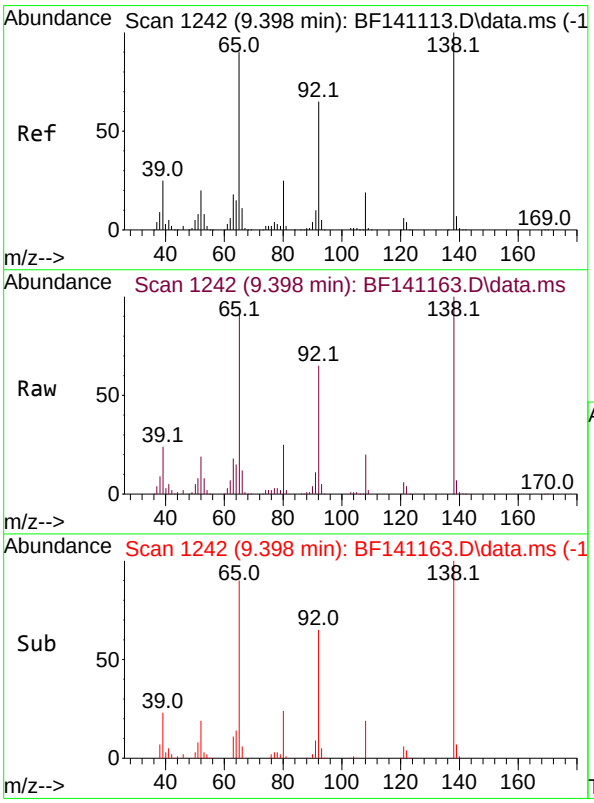
#47
2-Chloronaphthalene
Concen: 38.547 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 771915

Ion	Ratio	Lower	Upper
162	100		
127	42.5	34.6	51.8
164	32.9	26.5	39.7

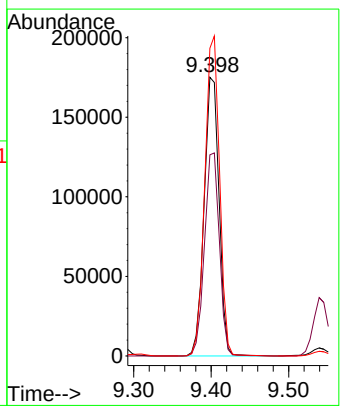


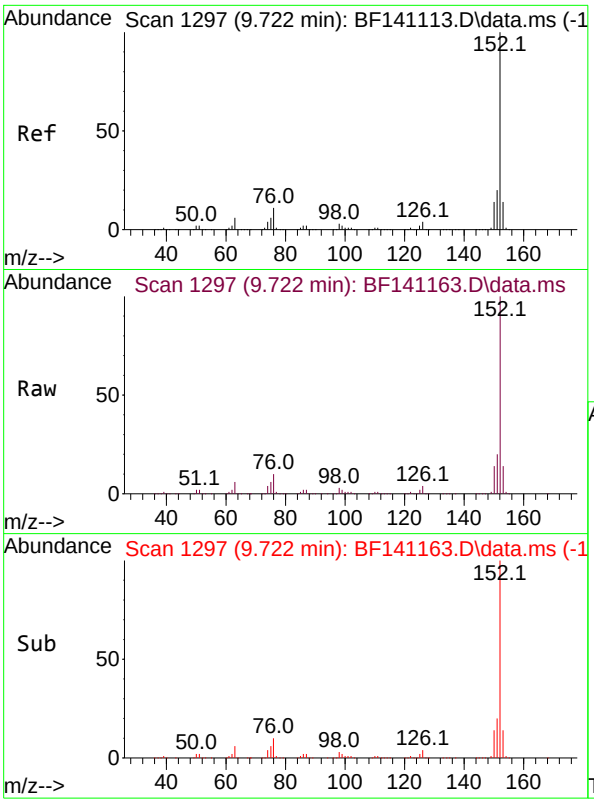


#48
2-Nitroaniline
Concen: 39.382 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion: 65 Resp: 233780

Ion	Ratio	Lower	Upper
65	100		
92	72.2	58.3	87.5
138	110.4	89.1	133.7



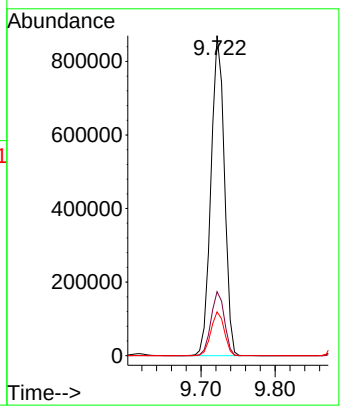


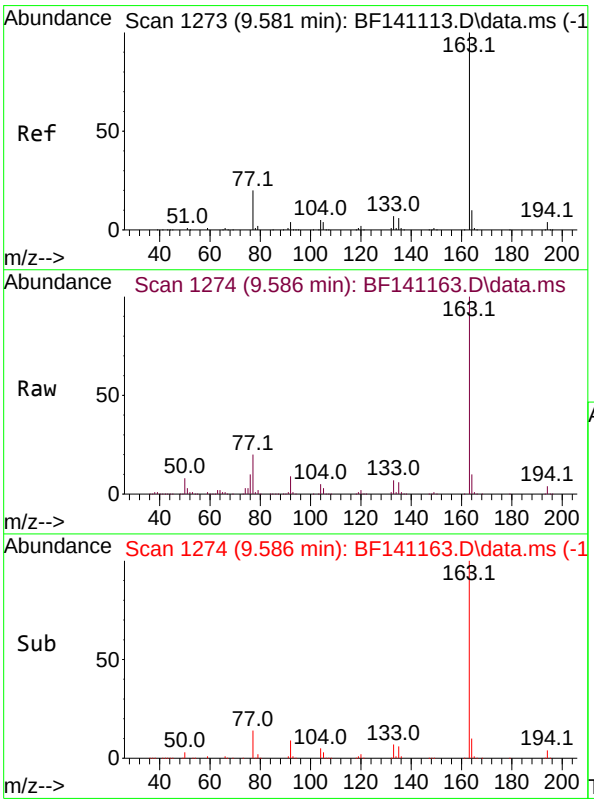
#49
Acenaphthylene
Concen: 38.201 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1092932

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.7	11.1	16.7

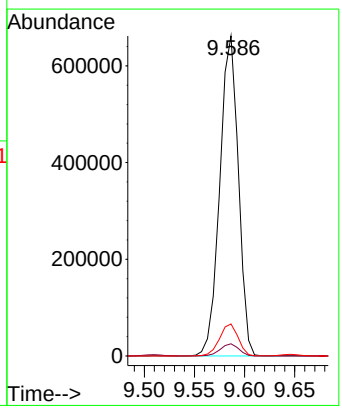


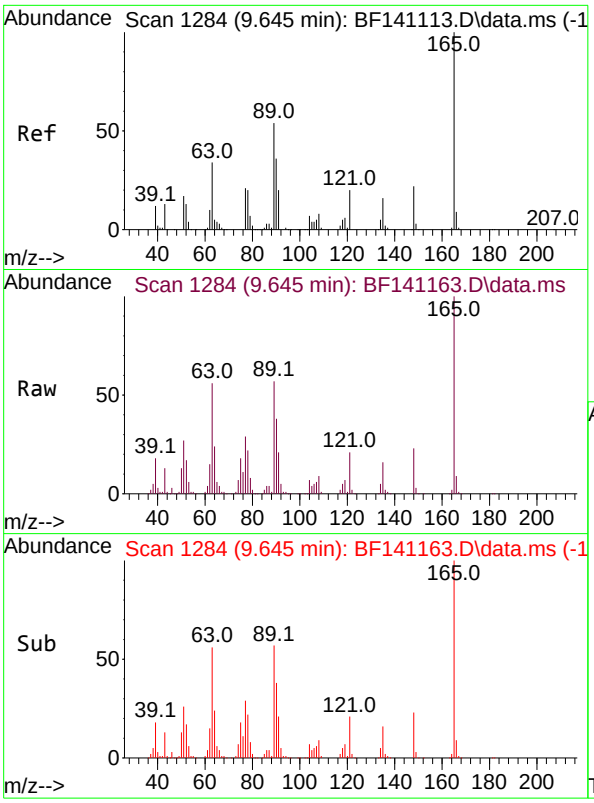


#50
Dimethylphthalate
Concen: 38.362 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:163 Resp: 852618

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.0	8.2	12.4



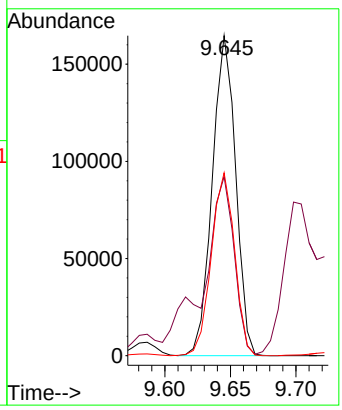


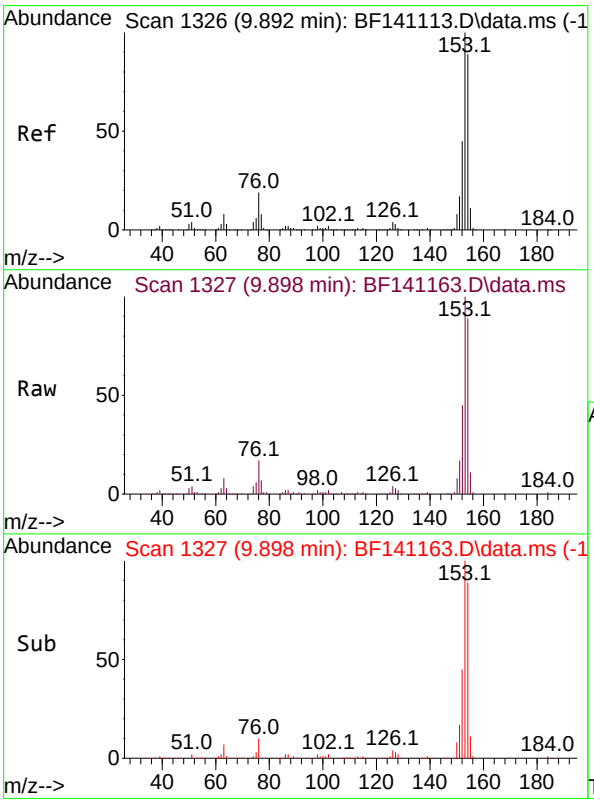
#51
2,6-Dinitrotoluene
Concen: 39.398 ng
RT: 9.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 203629

Ion	Ratio	Lower	Upper
165	100		
63	55.9	42.3	63.5
89	57.2	43.1	64.7

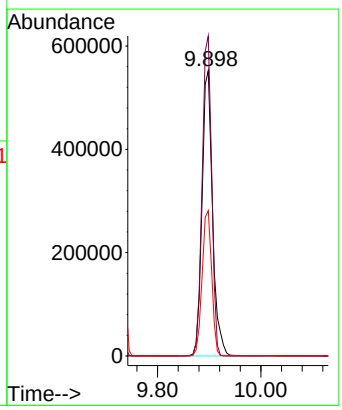


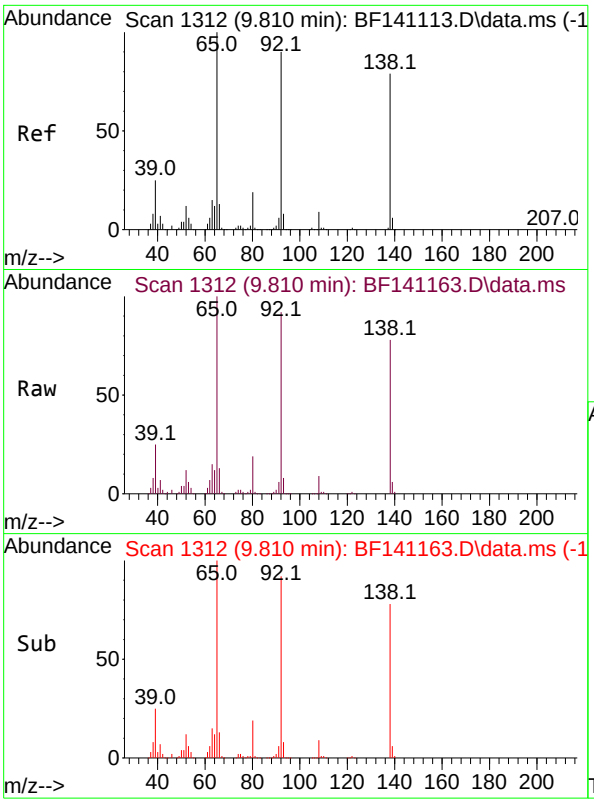


#52
Acenaphthene
Concen: 38.964 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:154 Resp: 778826

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.8	134.6
152	50.9	40.8	61.2



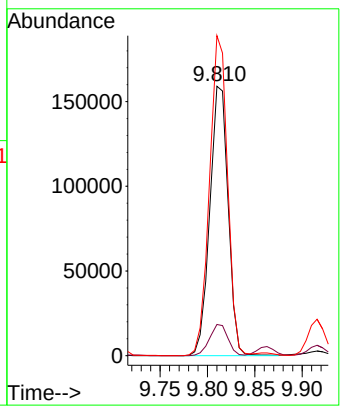


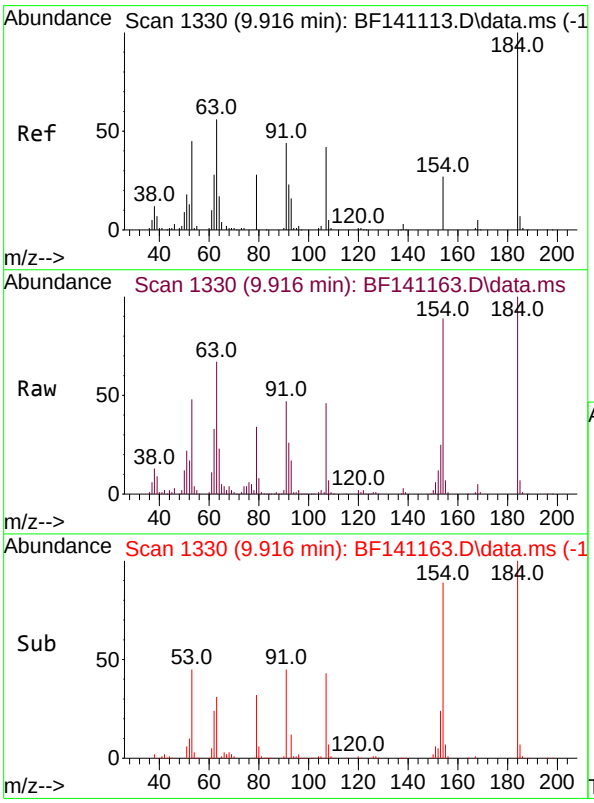
#53
3-Nitroaniline
Concen: 40.799 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 214285

Ion	Ratio	Lower	Upper
138	100		
108	11.6	8.8	13.2
92	118.7	91.3	136.9

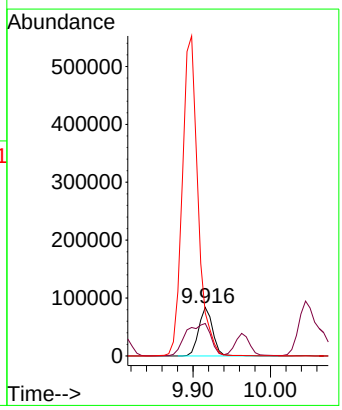


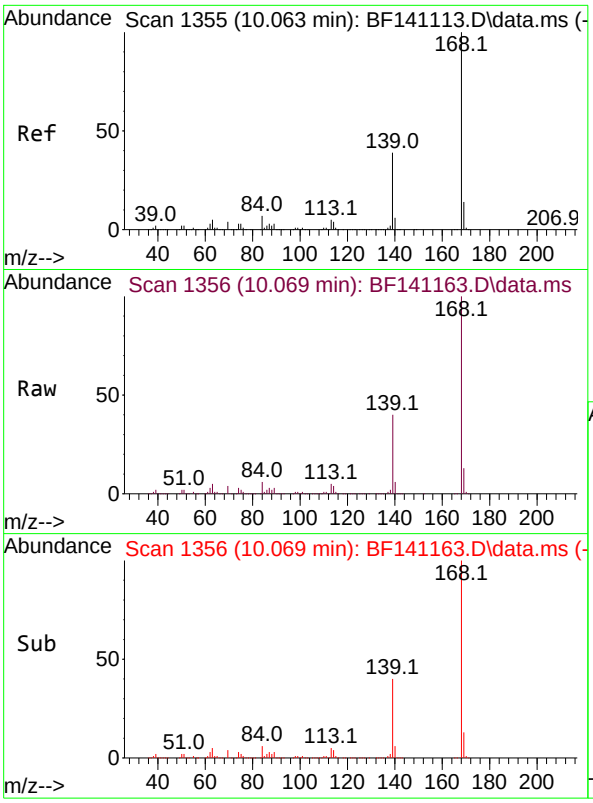


#54
2,4-Dinitrophenol
Concen: 42.819 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:184 Resp: 105192

Ion	Ratio	Lower	Upper
184	100		
63	67.0	48.7	73.1
154	88.9	57.1	85.7#



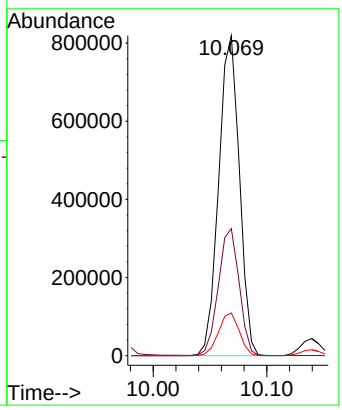


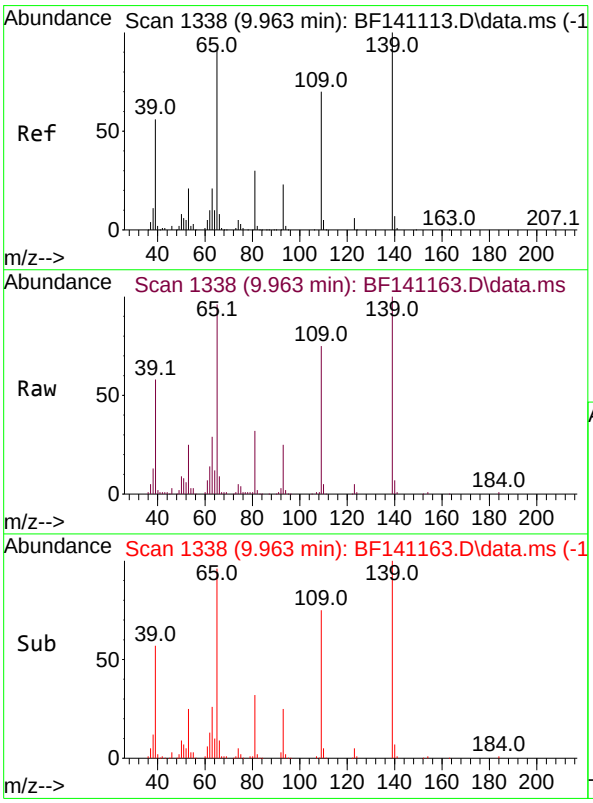
#55
Dibenzofuran
Concen: 38.134 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1036793

Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.4	47.0
169	13.4	10.9	16.3

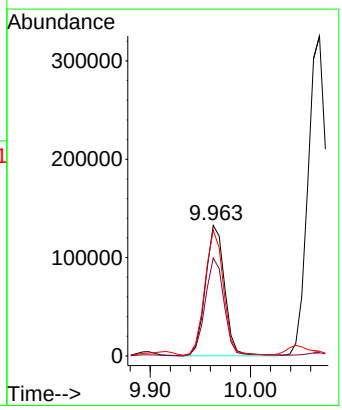


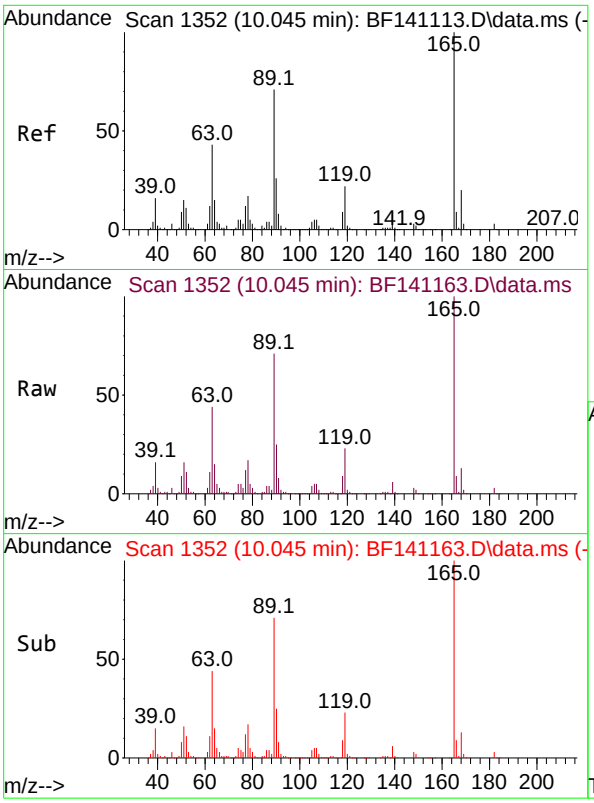


#56
4-Nitrophenol
Concen: 42.735 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:139 Resp: 175787

Ion	Ratio	Lower	Upper
139	100		
109	74.9	50.2	90.2
65	96.3	72.1	112.1



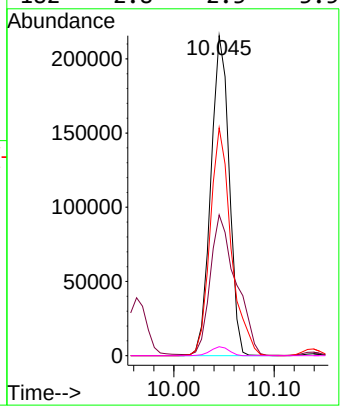


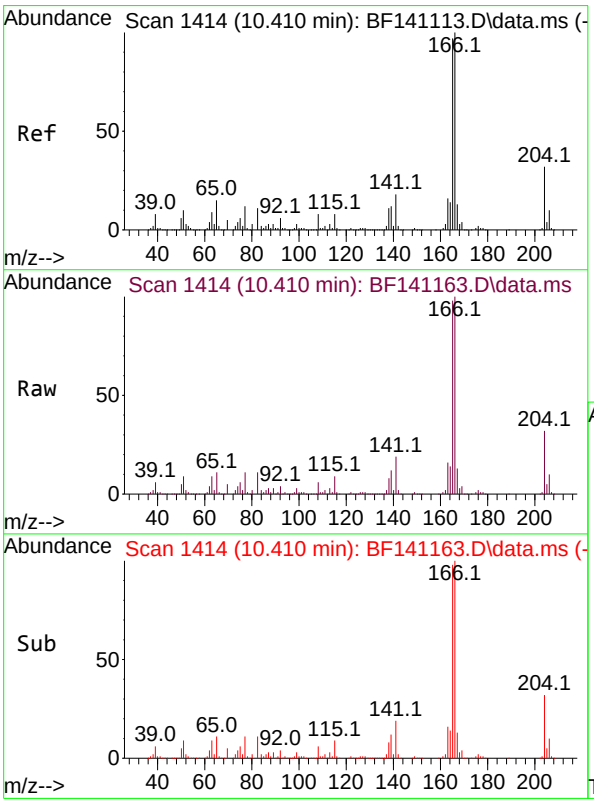
#57
2,4-Dinitrotoluene
Concen: 41.019 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 273216

Ion	Ratio	Lower	Upper
165	100		
63	44.0	35.0	52.4
89	71.2	56.7	85.1
182	2.8	2.3	3.5

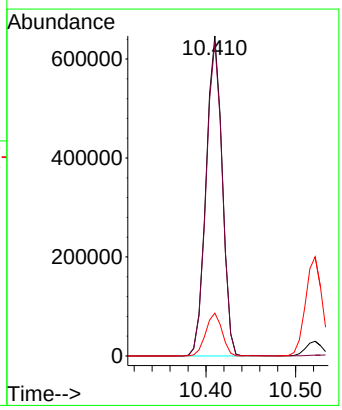


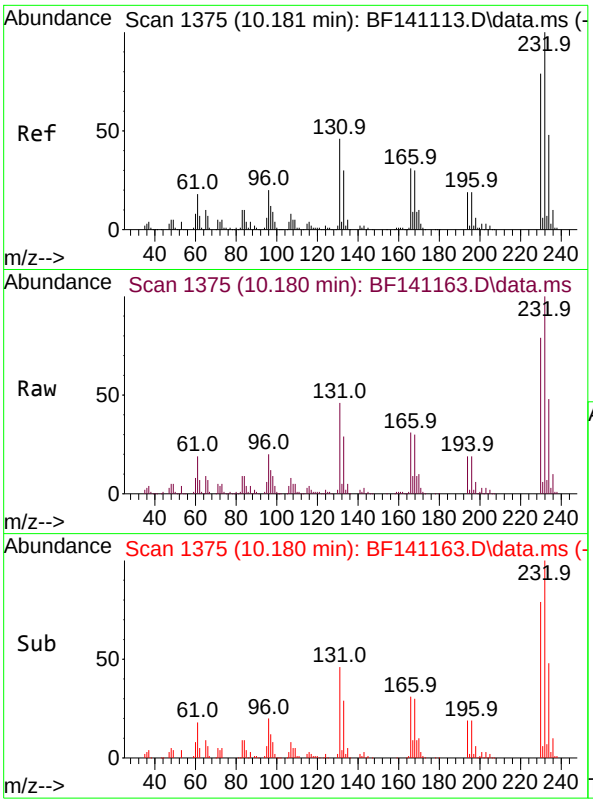


#58
Fluorene
Concen: 38.346 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:166 Resp: 809960

Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.4	10.8	16.2



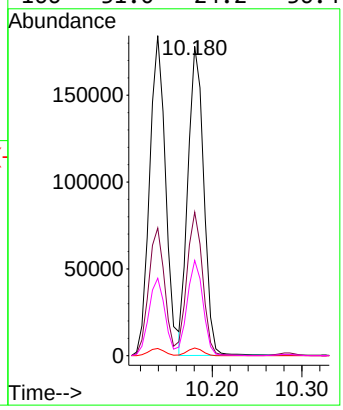


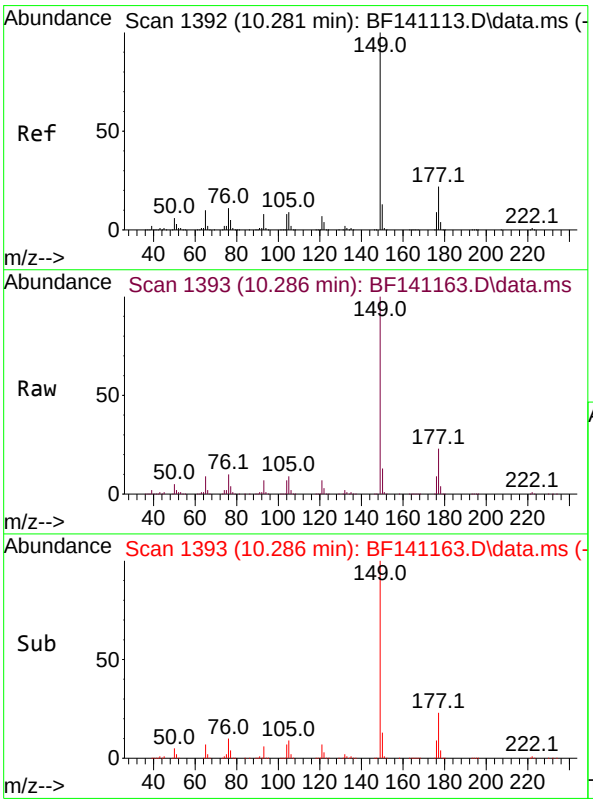
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.675 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 217581

Ion	Ratio	Lower	Upper
232	100		
131	46.9	36.2	54.4
130	2.5	2.0	3.0
166	31.0	24.2	36.4

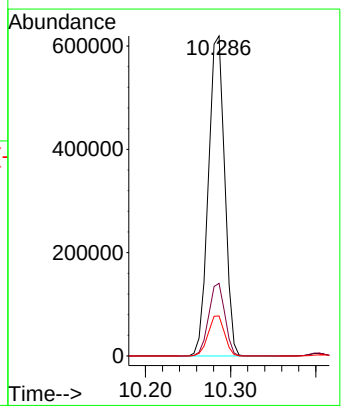


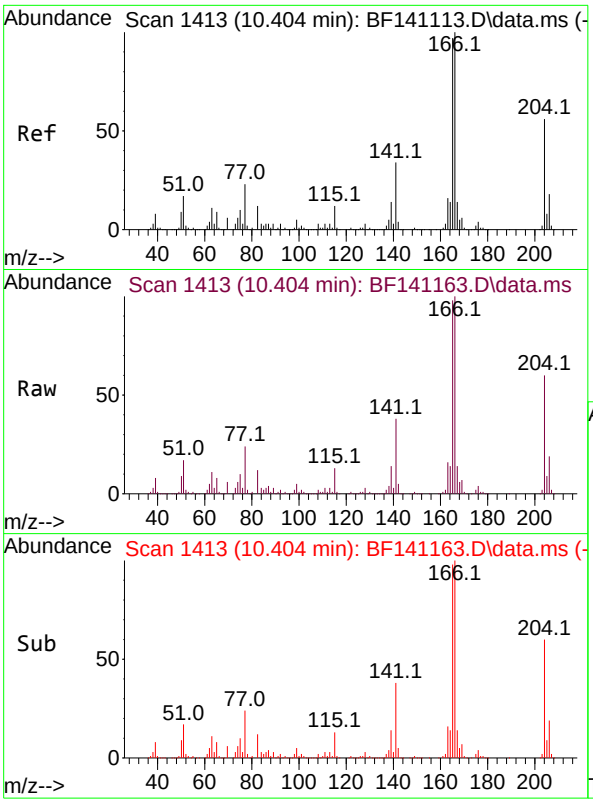


#60
Diethylphthalate
Concen: 37.898 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:149 Resp: 822297

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.9	26.9
150	12.5	10.2	15.2



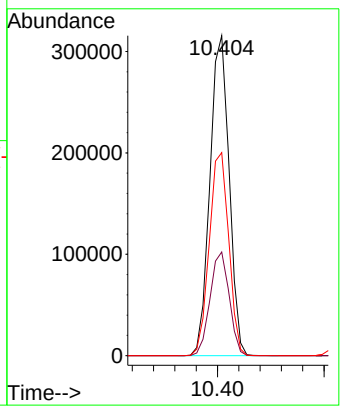


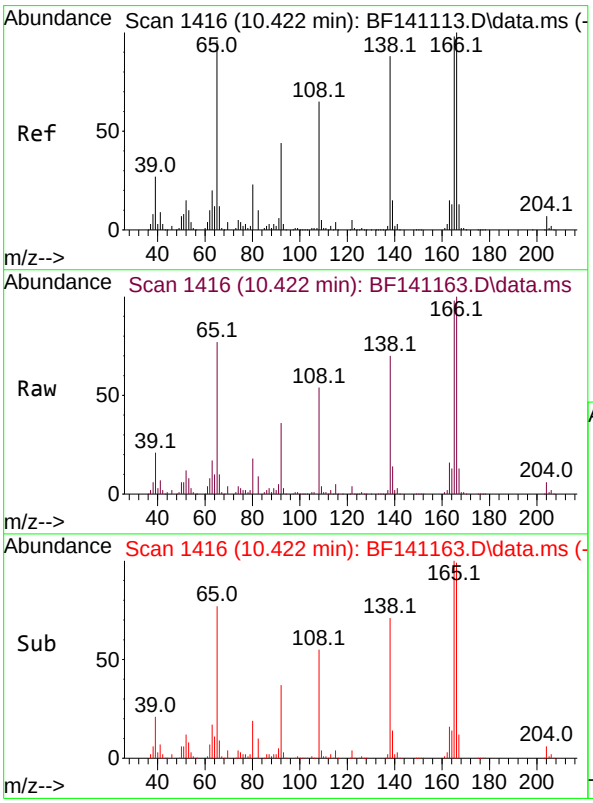
#61
4-Chlorophenyl-phenylether
Concen: 38.245 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 393728

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	63.5	49.1	73.7

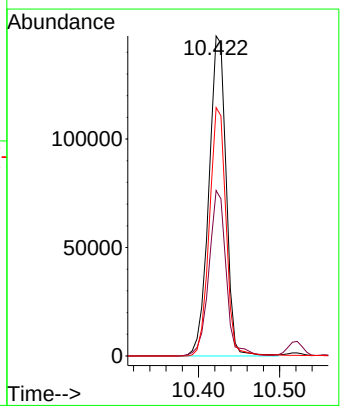


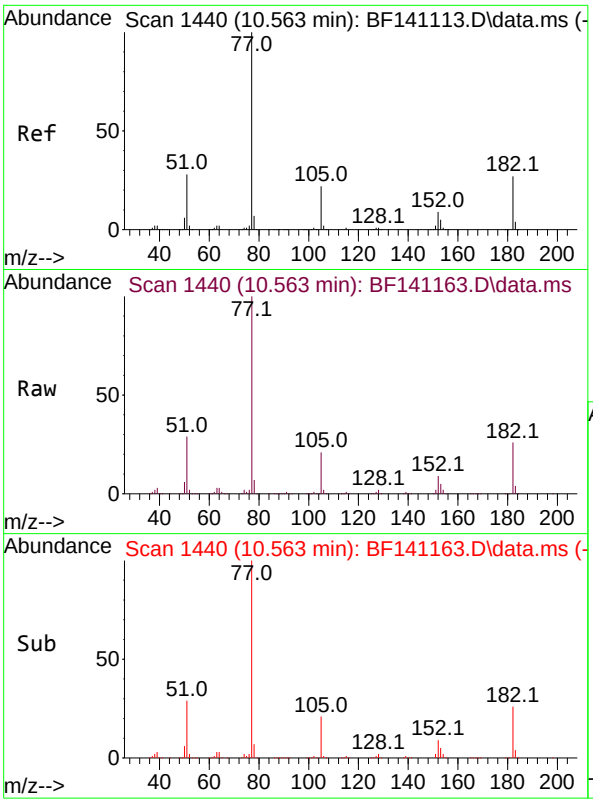


#62
4-Nitroaniline
Concen: 42.253 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:138 Resp: 217208

Ion	Ratio	Lower	Upper
138	100		
92	51.7	29.4	69.4
108	77.6	53.7	93.7



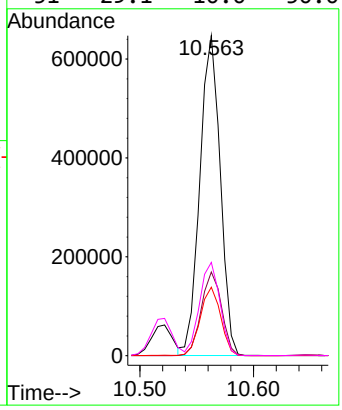


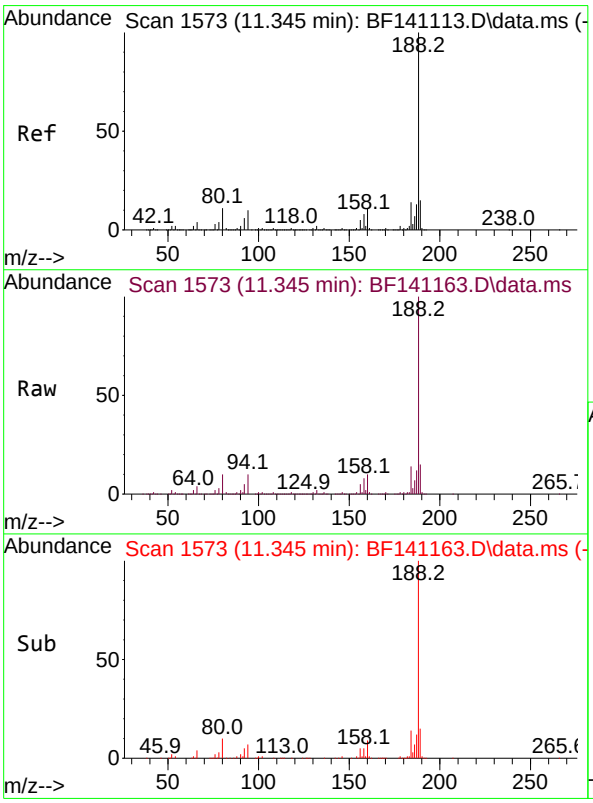
#63
Azobenzene
Concen: 37.723 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 807640

Ion	Ratio	Lower	Upper
77	100		
182	26.2	6.1	46.1
105	21.4	2.1	42.1
51	29.1	10.0	50.0

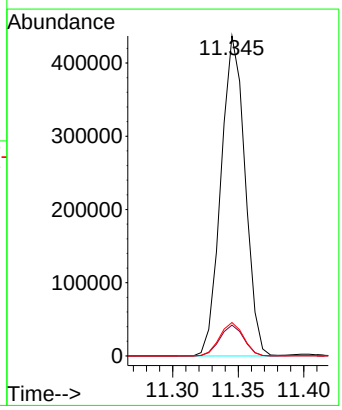


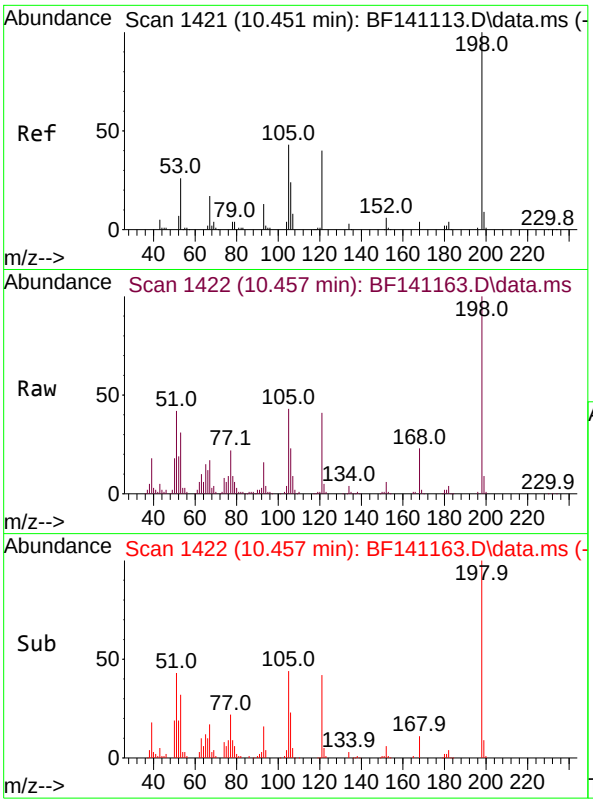


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:188 Resp: 558521

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.3	12.5
80	10.5	9.0	13.4



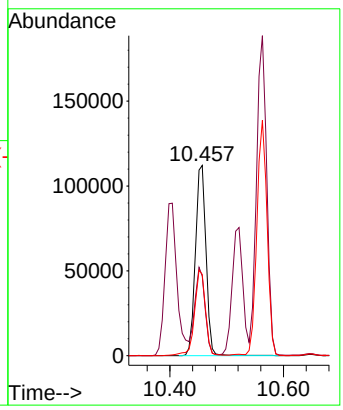


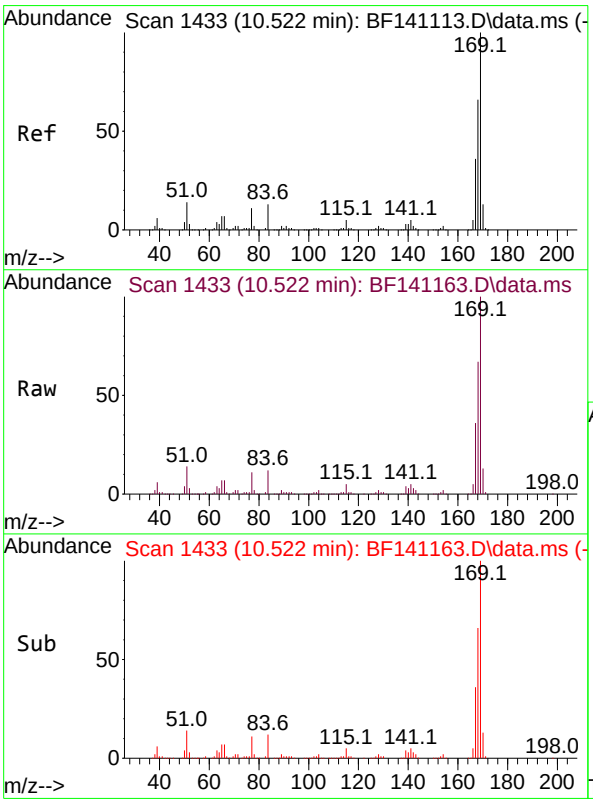
#65
4,6-Dinitro-2-methylphenol
Concen: 45.236 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 146406

Ion	Ratio	Lower	Upper
198	100		
51	41.9	27.1	67.1
105	42.8	24.2	64.2

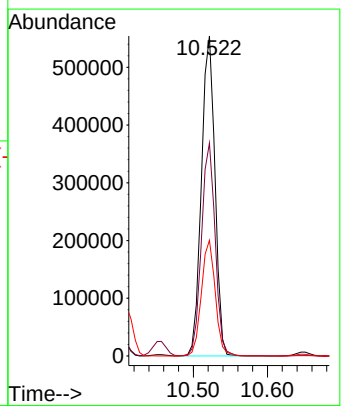


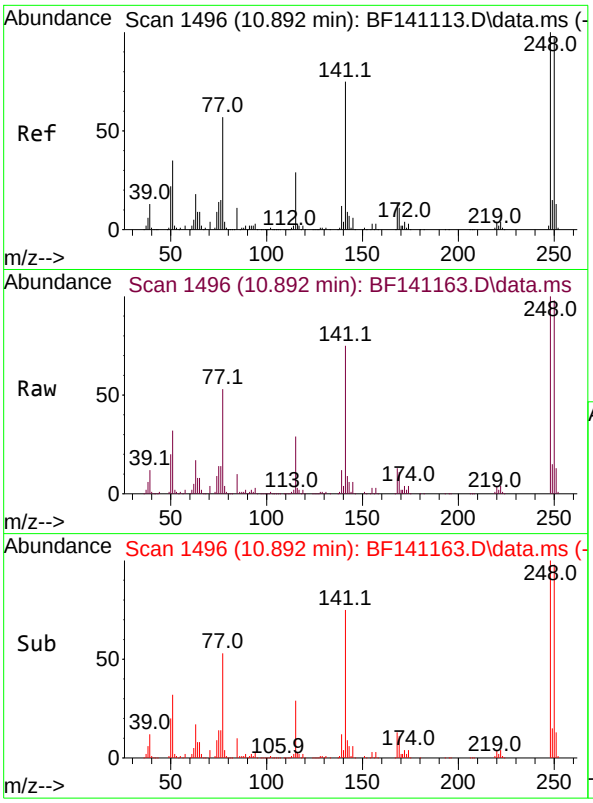


#66
n-Nitrosodiphenylamine
Concen: 38.976 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:169 Resp: 702142

Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.5	78.7
167	36.2	28.9	43.3



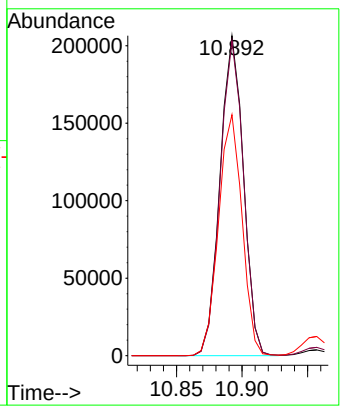


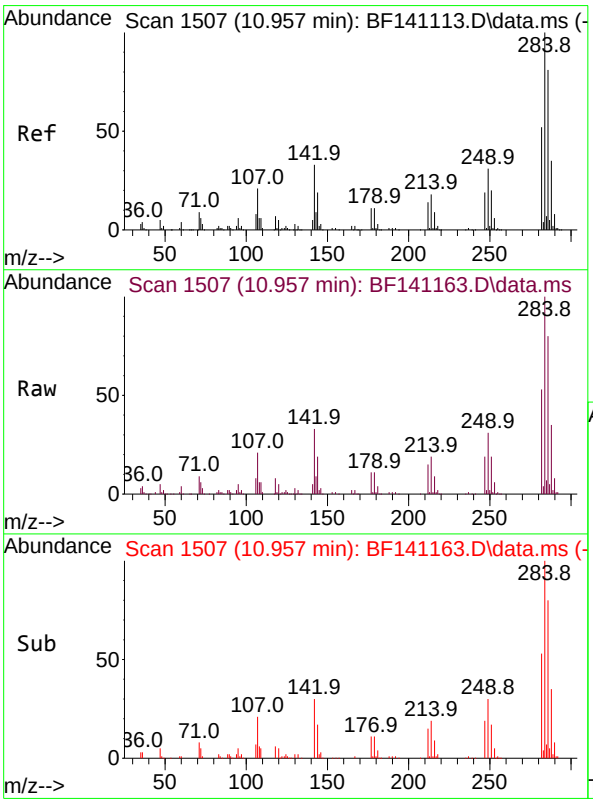
#67
4-Bromophenyl-phenylether
Concen: 39.828 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 256105

Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.9	116.9
141	75.3	59.9	89.9

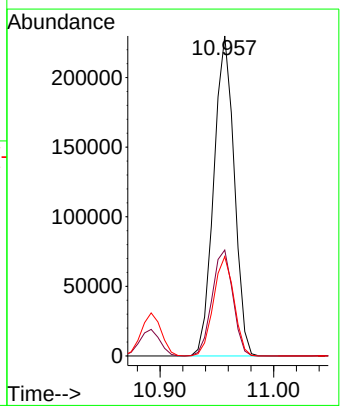


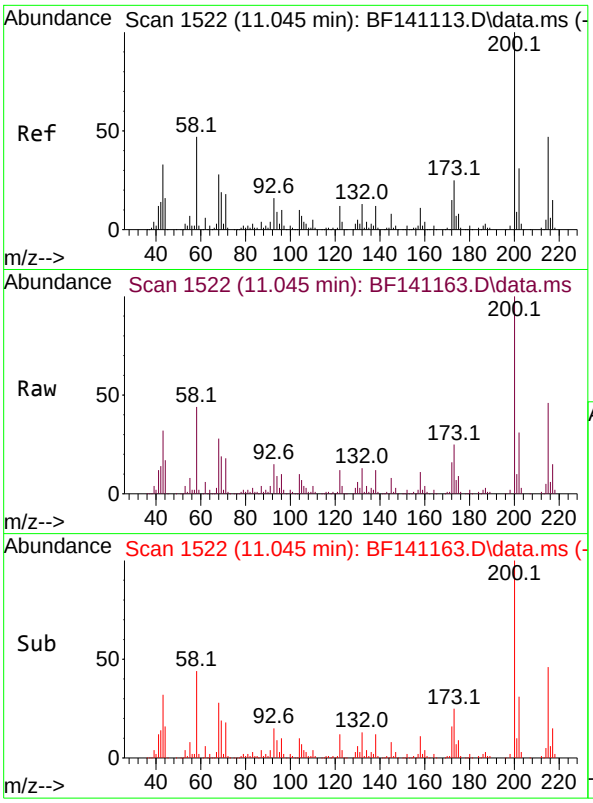


#68
Hexachlorobenzene
Concen: 40.133 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:284 Resp: 287273

Ion	Ratio	Lower	Upper
284	100		
142	33.1	26.3	39.5
249	31.1	24.9	37.3



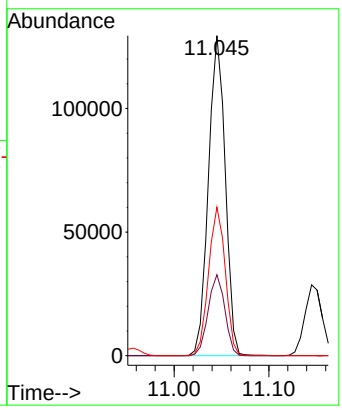


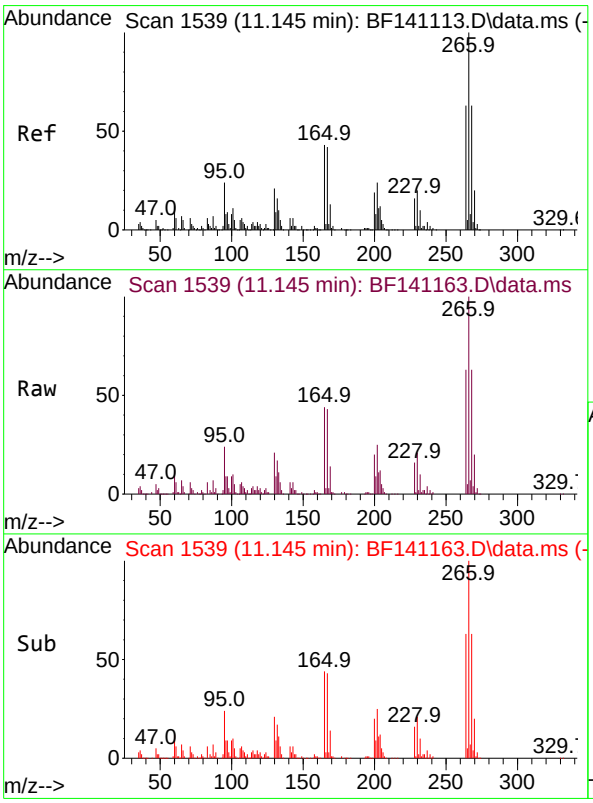
#69
Atrazine
Concen: 32.845 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 159318

Ion	Ratio	Lower	Upper
200	100		
173	25.3	5.4	45.4
215	46.4	26.6	66.6

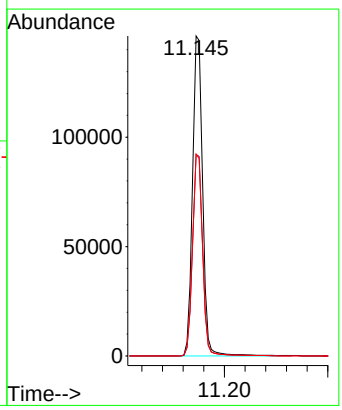


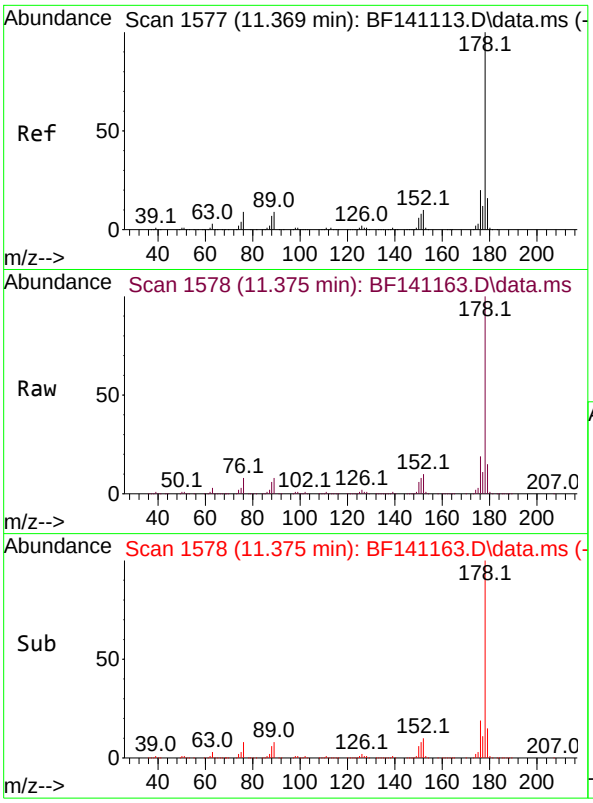


#70
Pentachlorophenol
Concen: 43.371 ng
RT: 11.145 min Scan# 1539
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:266 Resp: 198816

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.4	75.6
264	63.0	50.2	75.2



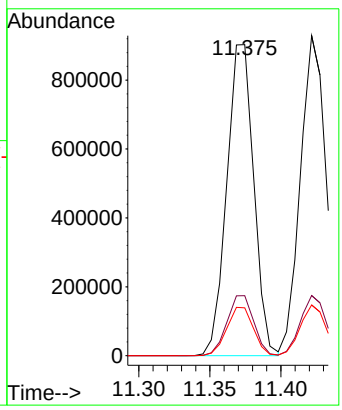


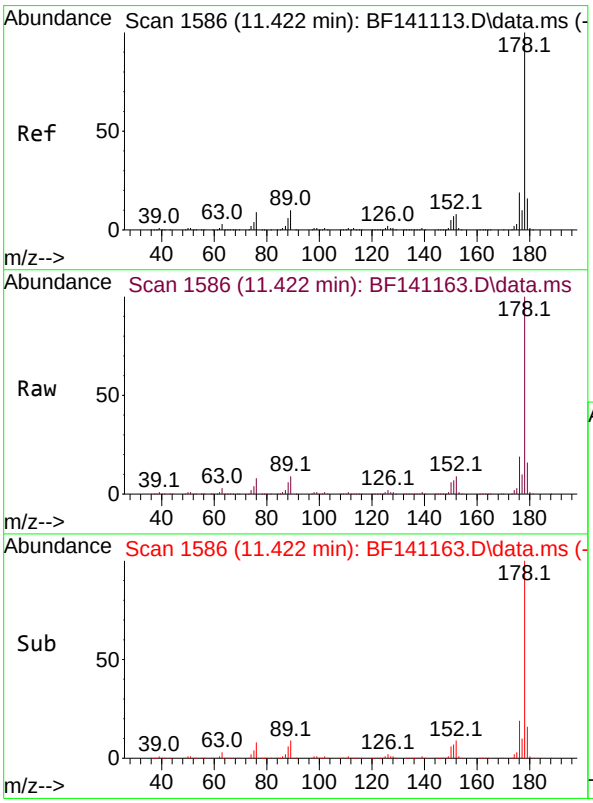
#71
Phenanthrene
Concen: 39.845 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1194761

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.4	12.6	19.0

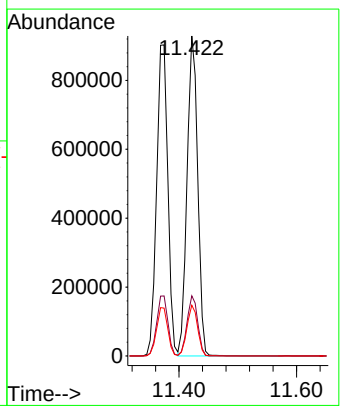


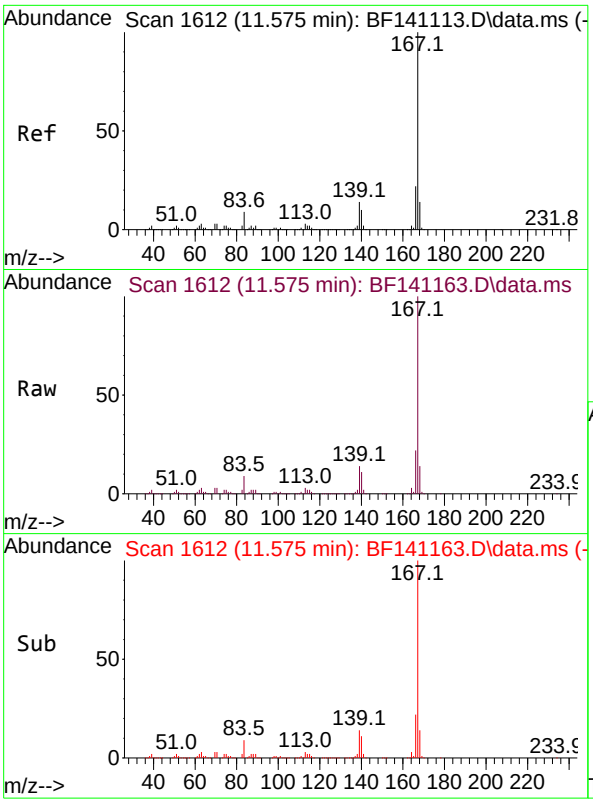


#72
Anthracene
Concen: 39.992 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:178 Resp: 1166005

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.8	12.6	19.0



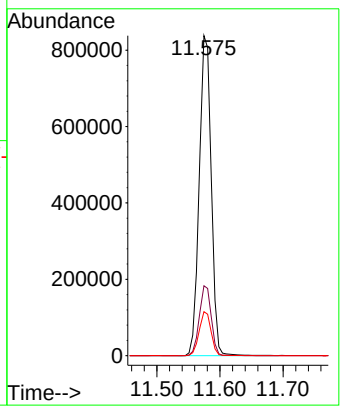


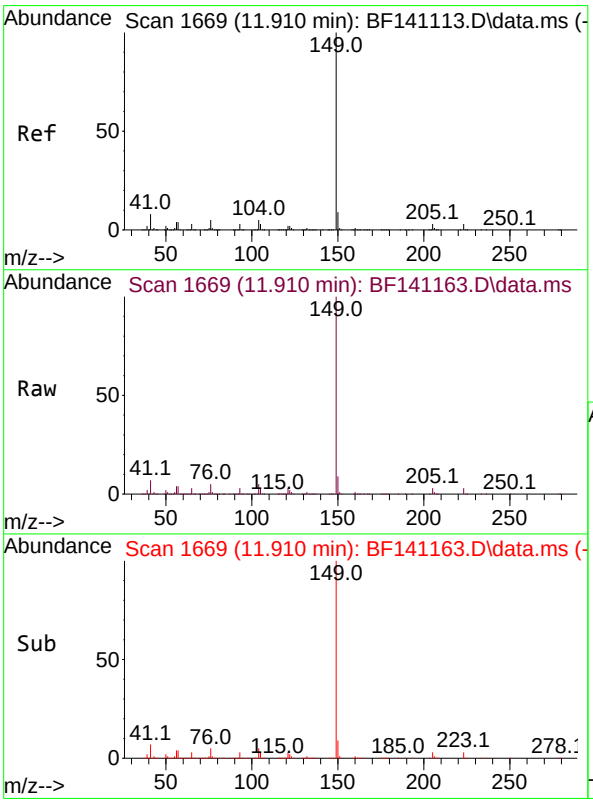
#73
Carbazole
Concen: 41.314 ng
RT: 11.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1104486

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.8	10.9	16.3

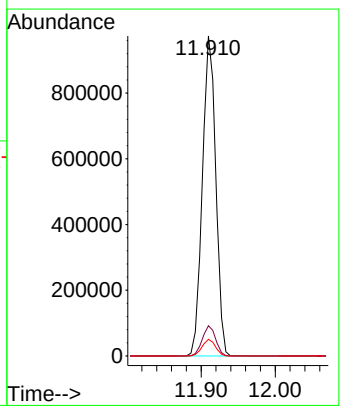


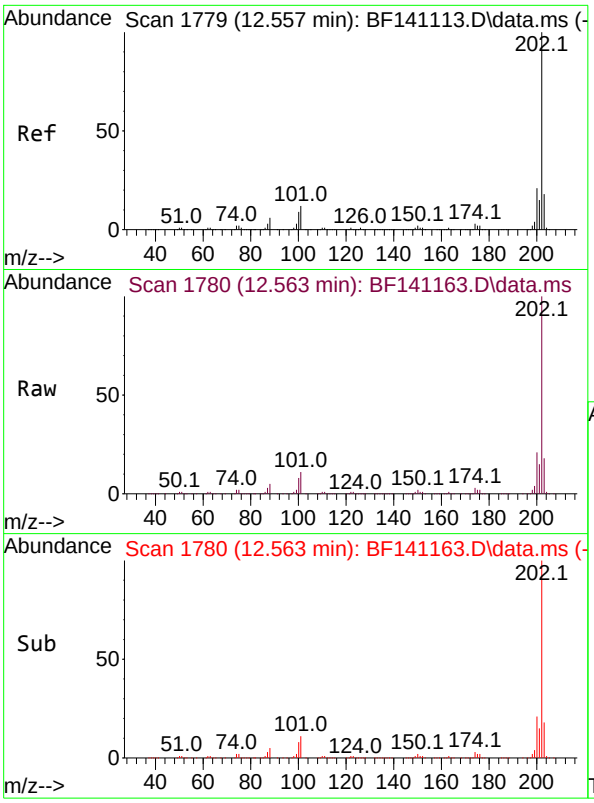


#74
Di-n-butylphthalate
Concen: 39.853 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:149 Resp: 1219294

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	5.2	4.2	6.2



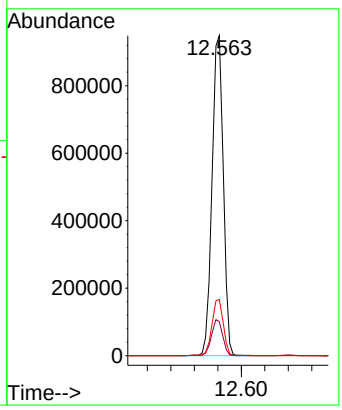


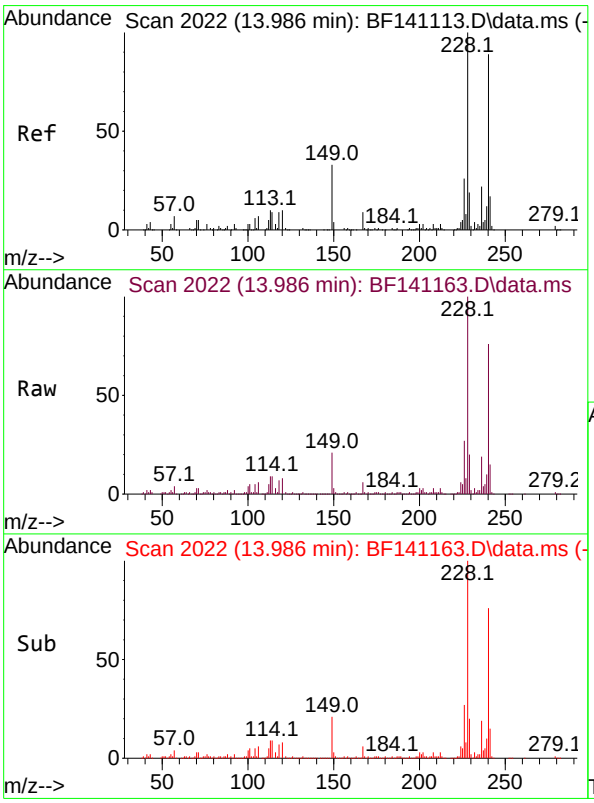
#75
Fluoranthene
Concen: 42.210 ng
RT: 12.563 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1263024

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	32.3
203	17.6	0.0	37.7

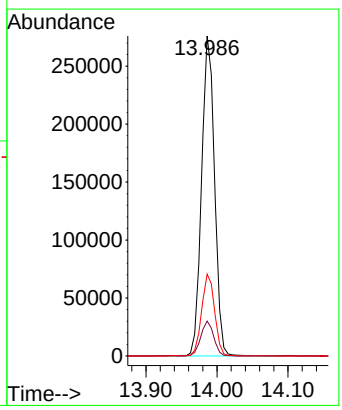


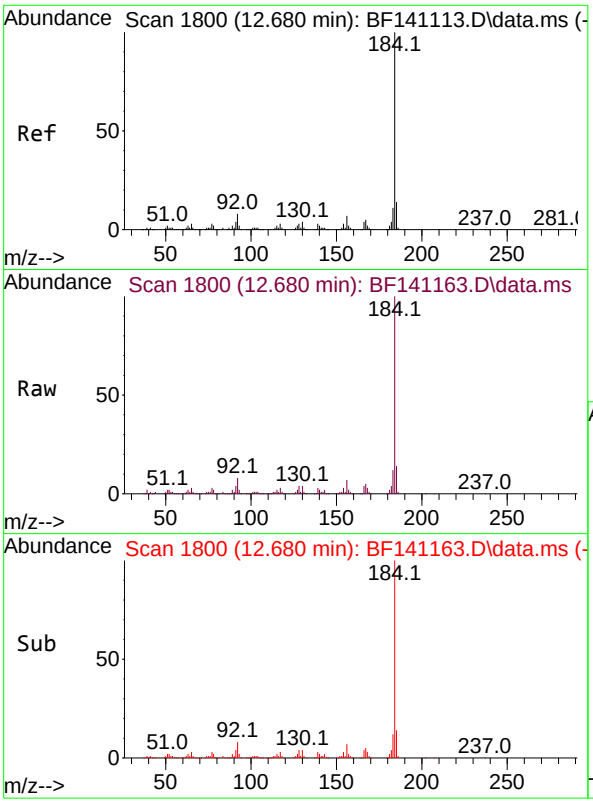


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:240 Resp: 351337

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.1	13.7
236	25.5	19.8	29.6



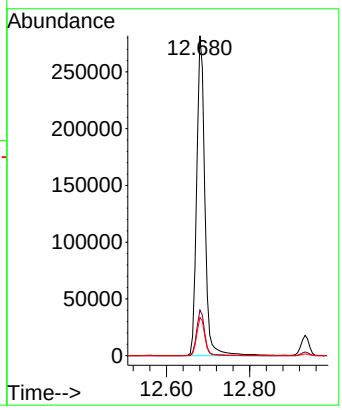


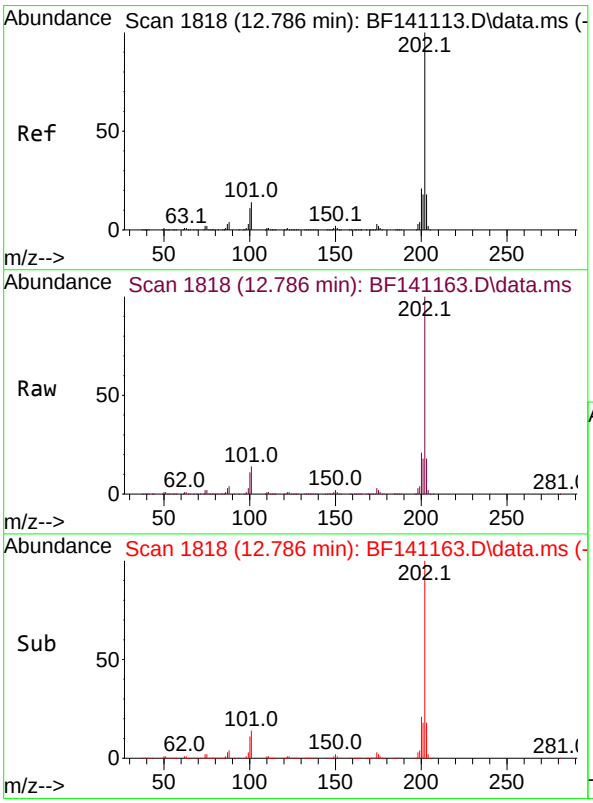
#77
Benzidine
Concen: 59.379 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 386875

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.4	17.0
183	12.0	9.2	13.8

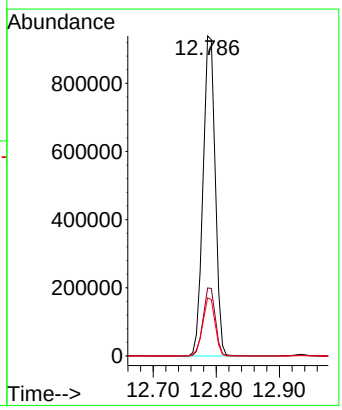


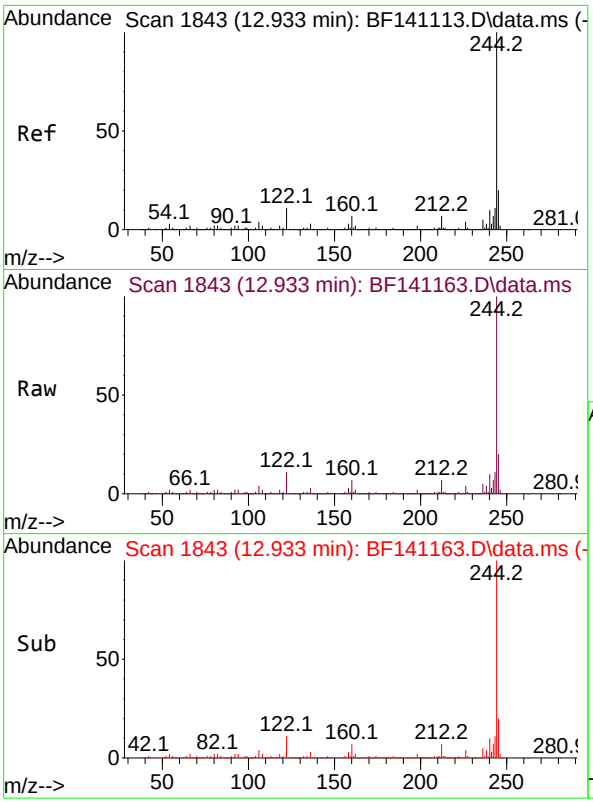


#78
Pyrene
Concen: 37.659 ng
RT: 12.786 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:202 Resp: 1263722

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.1	14.3	21.5



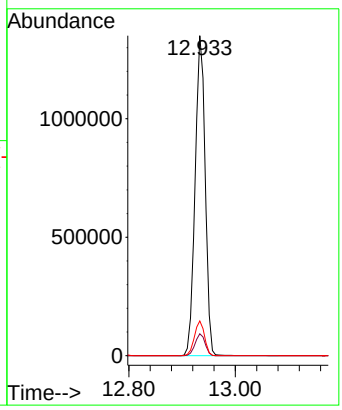


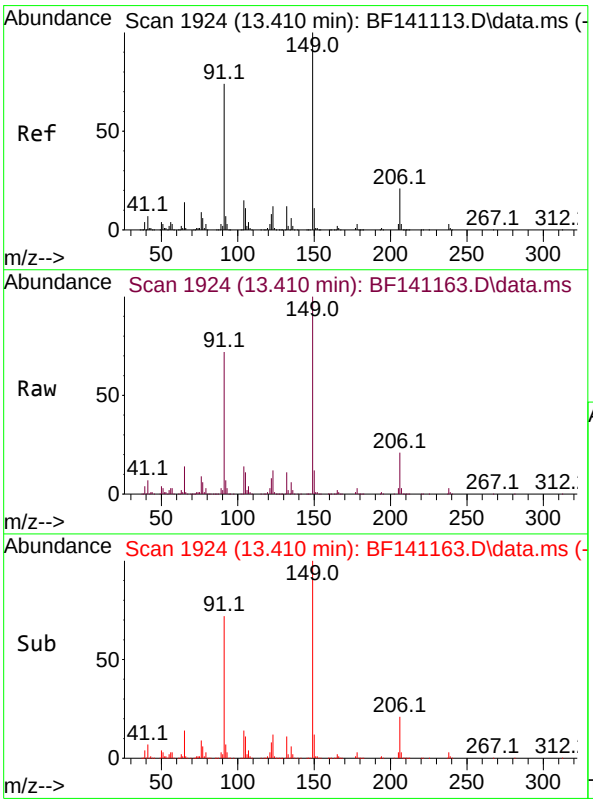
#79
Terphenyl-d14
Concen: 75.282 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1779531

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	10.9	8.8	13.2

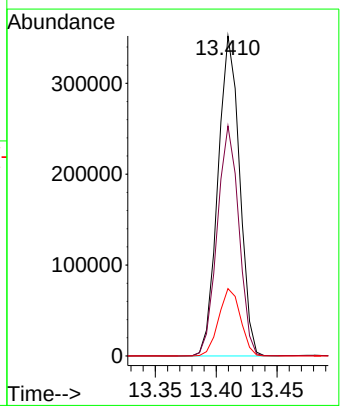


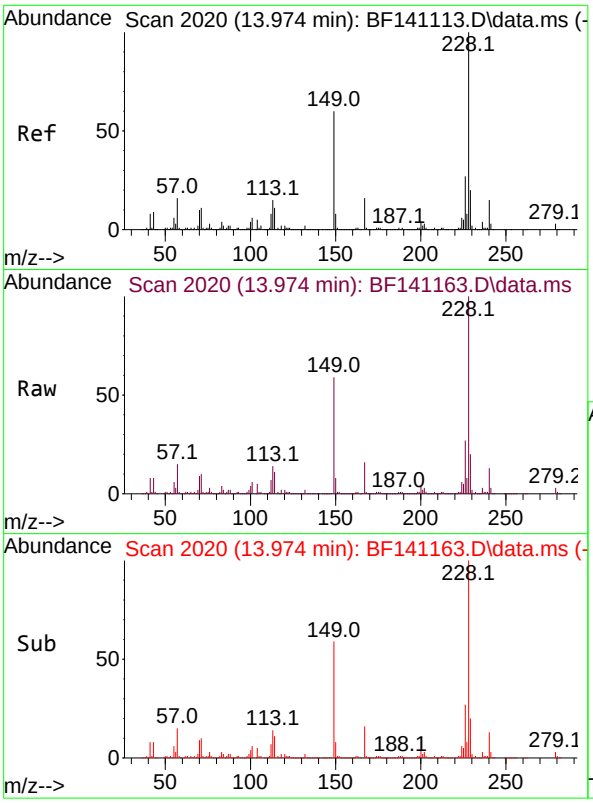


#80
Butylbenzylphthalate
Concen: 39.092 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:149 Resp: 437365

Ion	Ratio	Lower	Upper
149	100		
91	71.9	59.0	88.6
206	21.0	16.5	24.7



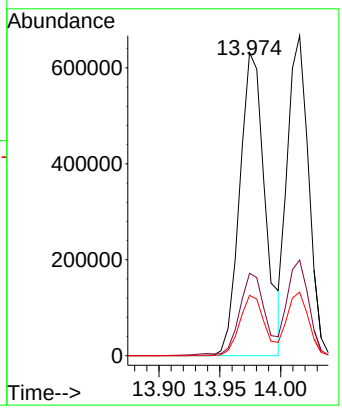


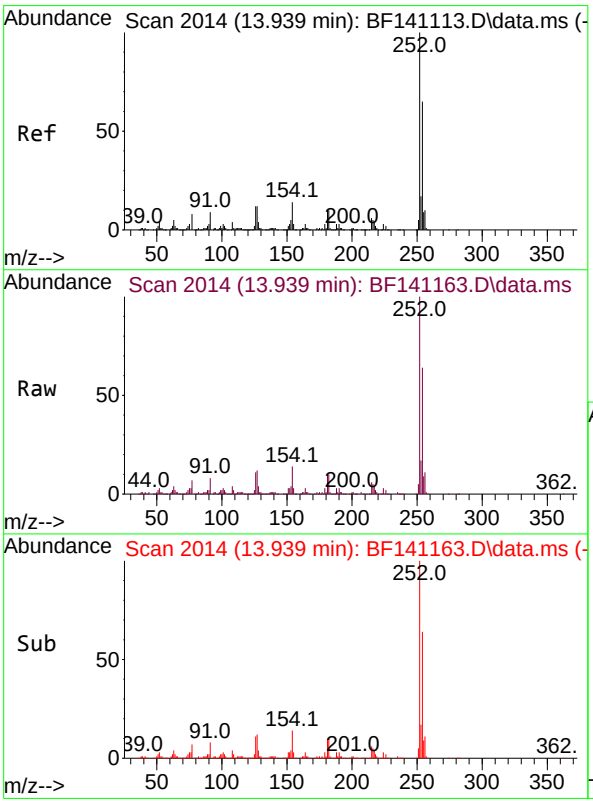
#81
Benzo(a)anthracene
Concen: 38.190 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 913143

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	19.9	15.7	23.5

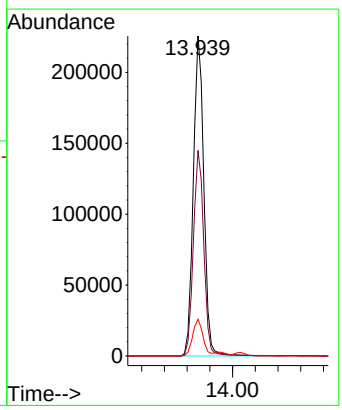


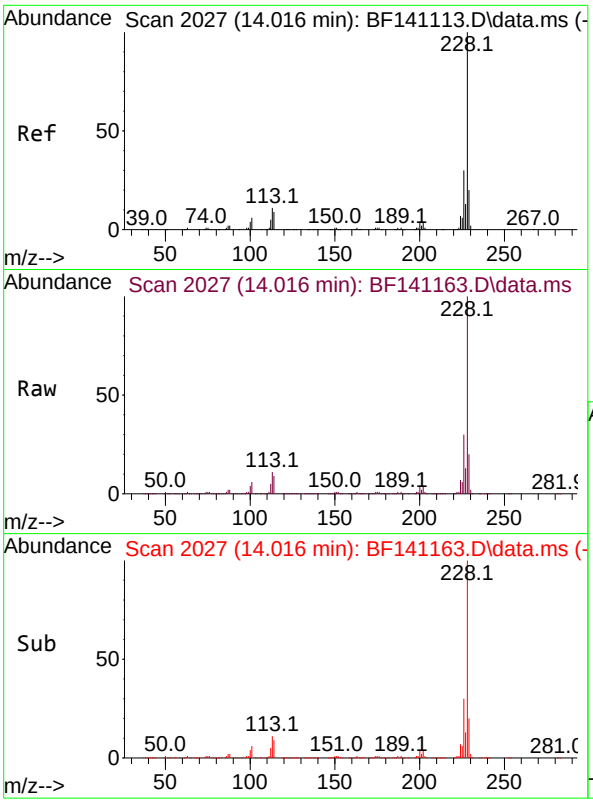


#82
3,3'-Dichlorobenzidine
Concen: 38.305 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:252 Resp: 291638

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.0	78.0
126	11.5	9.4	14.0



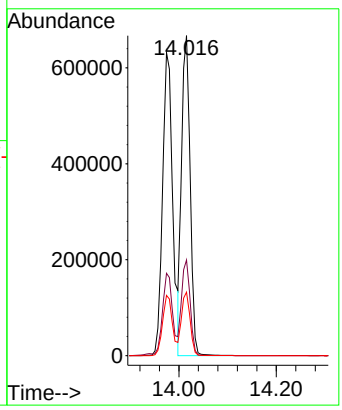


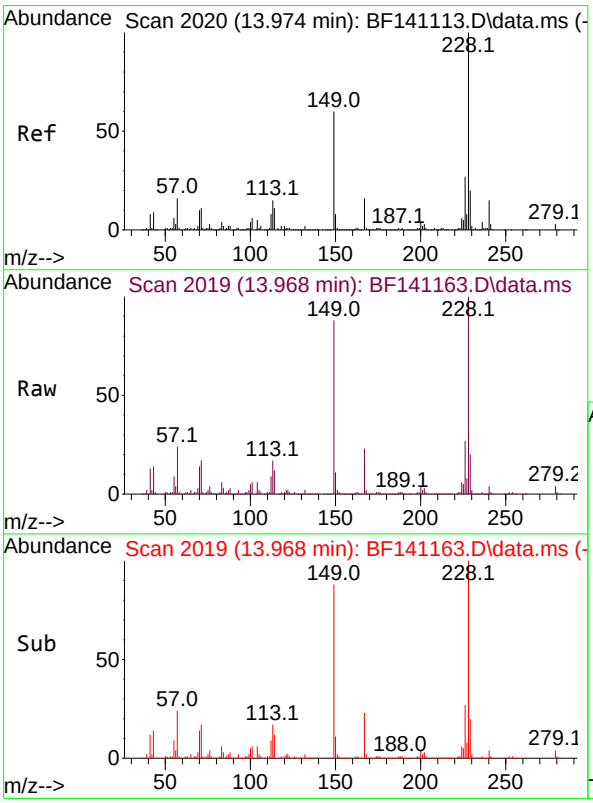
#83
Chrysene
Concen: 36.159 ng
RT: 14.016 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 808989

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.8	35.8
229	19.9	15.8	23.8

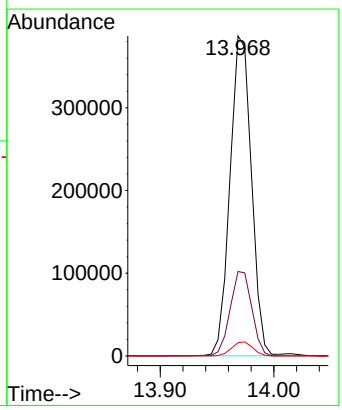


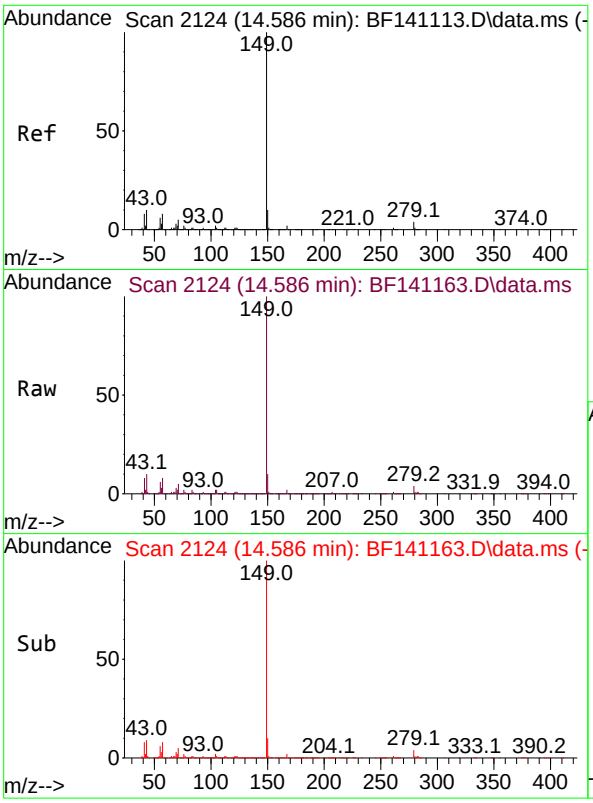


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.710 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:149 Resp: 506229

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.2
279	4.1	3.4	5.2



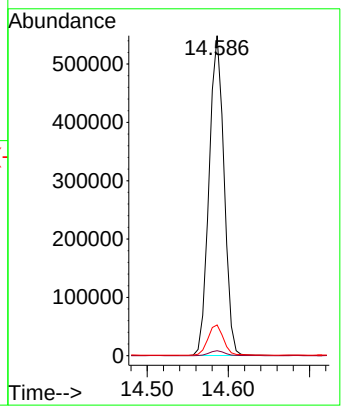


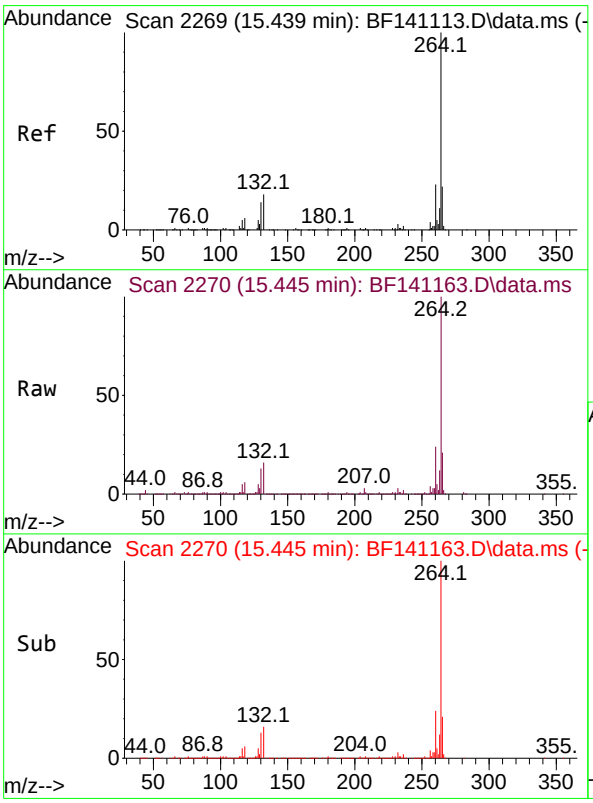
#85
Di-n-octyl phthalate
Concen: 34.562 ng
RT: 14.586 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 700620

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.8	8.4	12.6

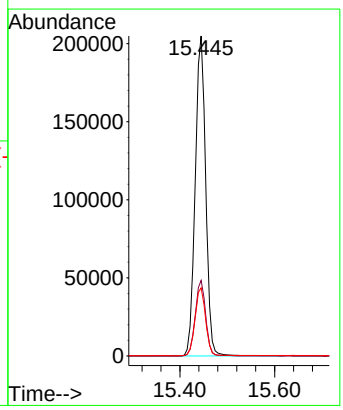


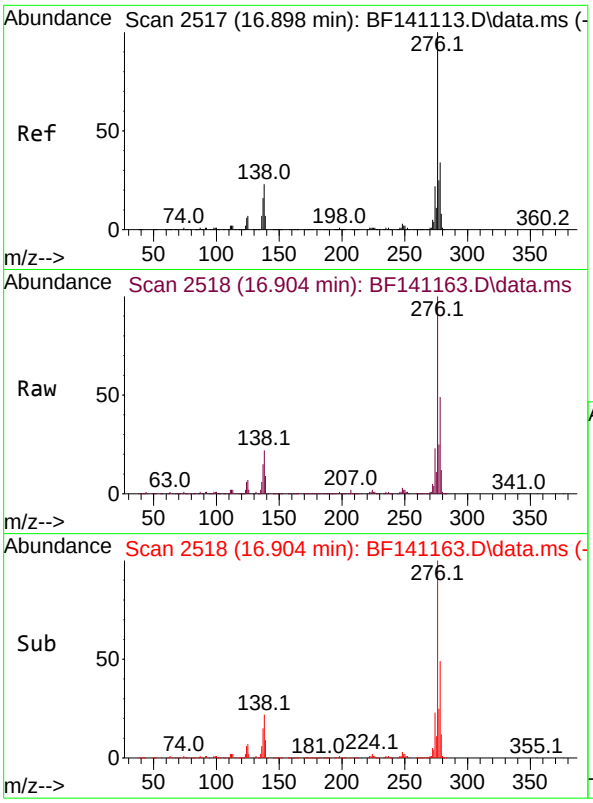


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.445 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:264 Resp: 315529

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.3	17.4	26.0



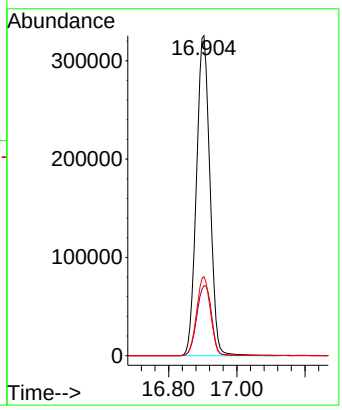


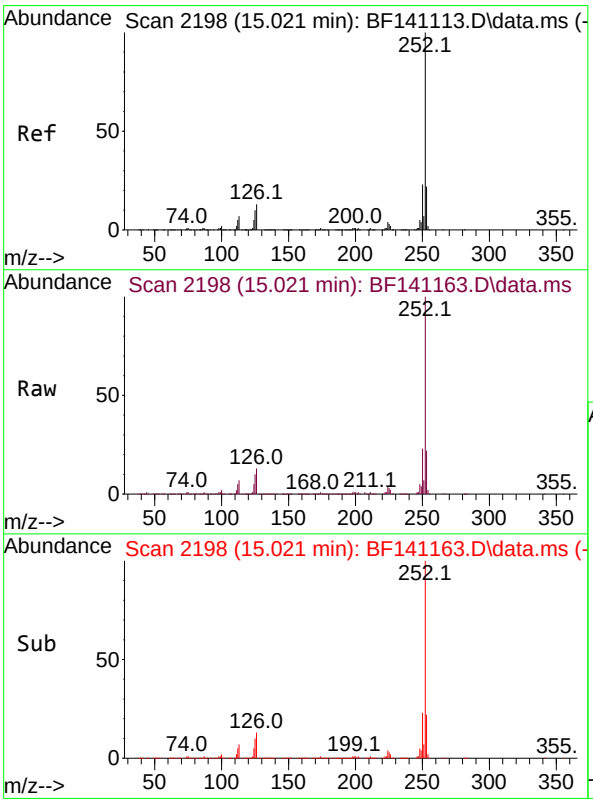
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.725 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 895194

Ion	Ratio	Lower	Upper
276	100		
138	24.0	20.7	31.1
277	25.3	20.6	30.8

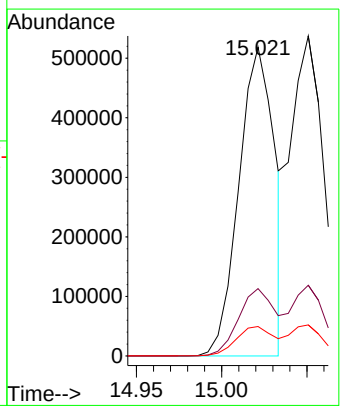


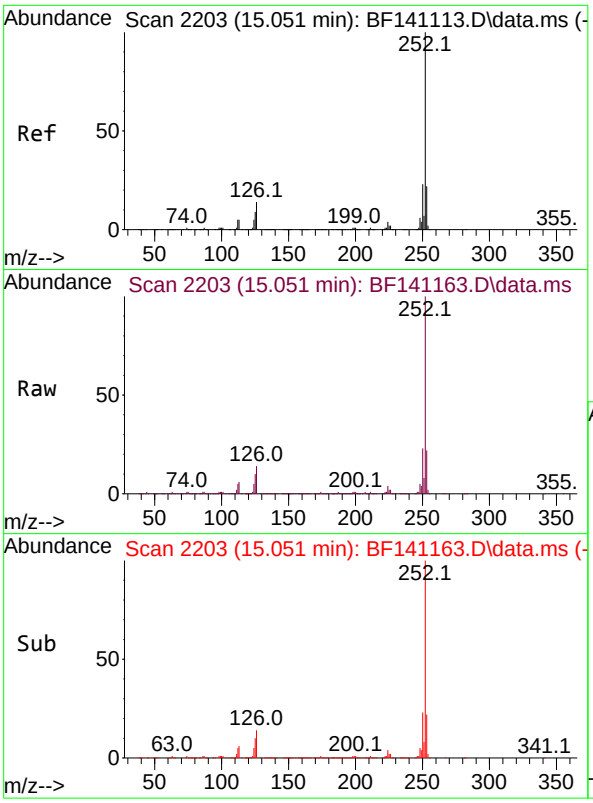


#88
Benzo(b)fluoranthene
Concen: 37.149 ng
RT: 15.021 min Scan# 2198
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:252 Resp: 755846

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	9.5	8.1	12.1



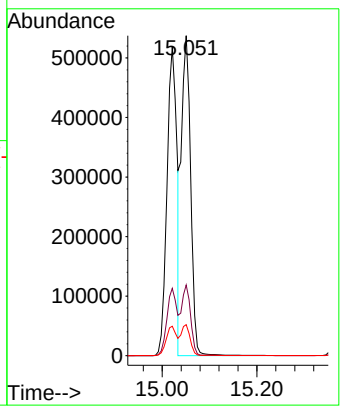


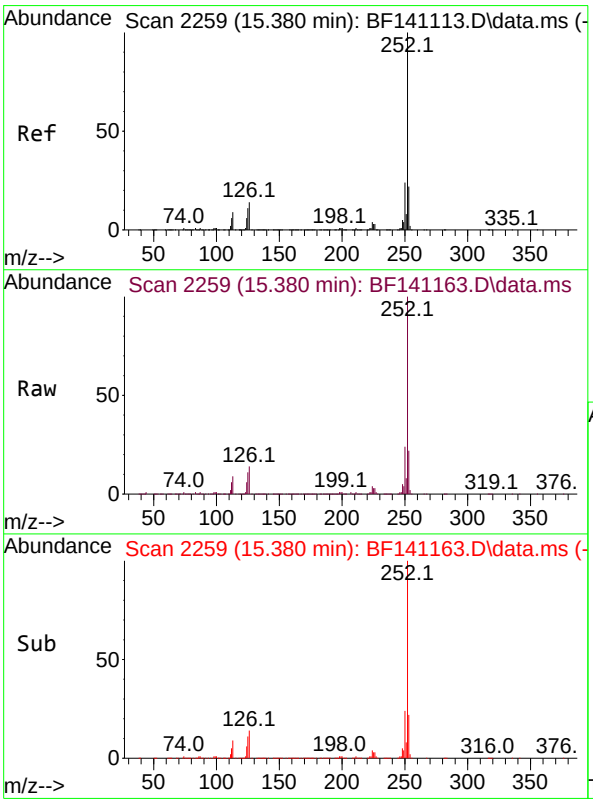
#89
Benzo(k)fluoranthene
Concen: 42.618 ng
RT: 15.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 732801

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	9.7	7.9	11.9

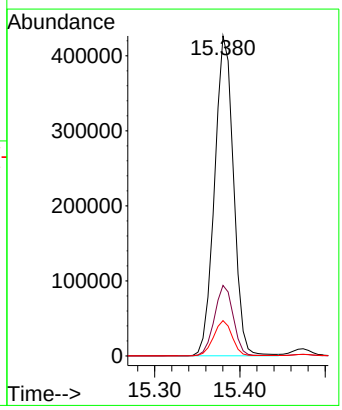


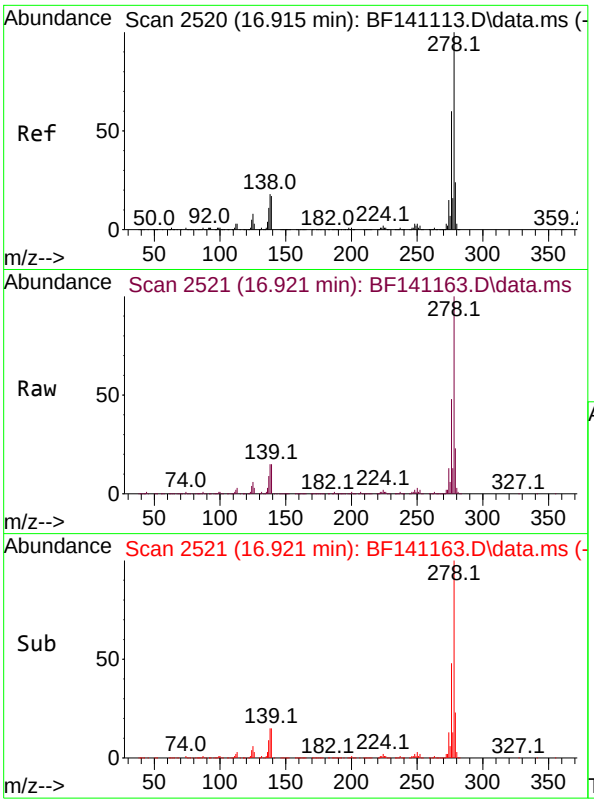


#90
Benzo(a)pyrene
Concen: 39.172 ng
RT: 15.380 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:252 Resp: 657568

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	11.1	9.1	13.7



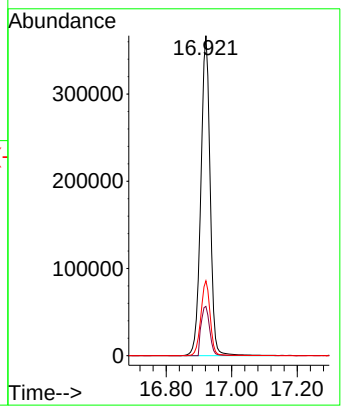


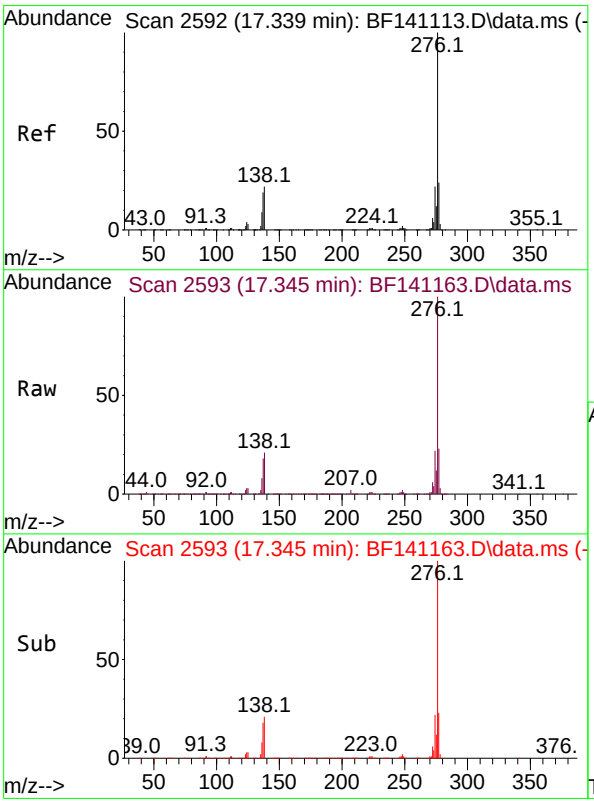
#91
Dibenzo(a,h)anthracene
Concen: 38.838 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 726146

Ion	Ratio	Lower	Upper
278	100		
139	15.4	13.8	20.6
279	23.4	19.1	28.7

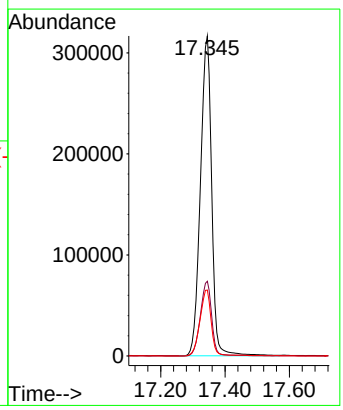




#92
Benzo(g,h,i)perylene
Concen: 39.580 ng
RT: 17.345 min Scan# 2593
Delta R.T. 0.006 min
Lab File: BF141163.D
Acq: 15 Jan 2025 09:34

Tgt Ion:276 Resp: 769728

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.4
138	20.6	17.4	26.2



Sample Results: **BF141163.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	90	0.00
2		1,4-Dioxane	0.577	0.535	7.3	85	0.00
3		Pyridine	1.414	1.322	6.5	87	0.00
4		n-Nitrosodimethylamine	0.691	0.663	4.1	88	0.00
5	S	2-Fluorophenol	1.295	1.263	2.5	91	0.00
6		Aniline	1.456	1.367	6.1	86	0.00
7	S	Phenol-d6	1.640	1.570	4.3	90	0.00
8		2-Chlorophenol	1.389	1.347	3.0	90	0.00
9		Benzaldehyde	0.966	0.866	10.4	92	0.00
10	C	Phenol	1.756	1.667	5.1	88	0.00
11		bis(2-Chloroethyl)ether	1.308	1.229	6.0	88	0.00
12		1,3-Dichlorobenzene	1.549	1.497	3.4	91	0.00
13	C	1,4-Dichlorobenzene	1.561	1.517	2.8	91	0.00
14		1,2-Dichlorobenzene	1.456	1.415	2.8	92	0.00
15		Benzyl Alcohol	1.184	1.160	2.0	90	0.00
16		2,2'-oxybis(1-Chloropropane	1.826	1.648	9.7	84	0.00
17		2-Methylphenol	1.121	1.090	2.8	90	0.00
18		Hexachloroethane	0.565	0.551	2.5	90	0.00
19	P	n-Nitroso-di-n-propylamine	0.966	0.881	8.8	87	0.00
20		3+4-Methylphenols	1.415	1.349	4.7	88	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	89	0.00
22		Acetophenone	0.475	0.457	3.8	92	0.00
23	S	Nitrobenzene-d5	0.377	0.370	1.9	90	0.00
24		Nitrobenzene	0.393	0.385	2.0	91	0.00
25		Isophorone	0.645	0.612	5.1	89	0.00
26	C	2-Nitrophenol	0.179	0.184	-2.8	92	0.00
27		2,4-Dimethylphenol	0.241	0.232	3.7	88	0.00
28		bis(2-Chloroethoxy)methane	0.405	0.380	6.2	88	0.00
29	C	2,4-Dichlorophenol	0.287	0.284	1.0	91	0.00
30		1,2,4-Trichlorobenzene	0.328	0.317	3.4	90	0.00
31		Naphthalene	1.055	1.026	2.7	92	0.00
32		Benzoic acid	0.231	0.241	-4.3	91	0.01
33		4-Chloroaniline	0.365	0.344	5.8	89	0.00
34	C	Hexachlorobutadiene	0.197	0.196	0.5	93	0.00
35		Caprolactam	0.094	0.092	2.1	90	0.00
36	C	4-Chloro-3-methylphenol	0.313	0.306	2.2	91	0.00
37		2-Methylnaphthalene	0.672	0.639	4.9	90	0.00
38		1-Methylnaphthalene	0.662	0.629	5.0	90	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	0.574	0.557	3.0	91	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.199	-5.9	91	0.00
42	S	2,4,6-Tribromophenol	0.228	0.234	-2.6	97	0.00
43	C	2,4,6-Trichlorophenol	0.387	0.370	4.4	89	0.00
44		2,4,5-Trichlorophenol	0.409	0.404	1.2	92	0.00
45	S	2-Fluorobiphenyl	1.310	1.231	6.0	91	0.00
46		1,1'-Biphenyl	1.553	1.467	5.5	90	0.00
47		2-Chloronaphthalene	1.210	1.166	3.6	91	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	0.359	0.353	1.7	92	0.00
49		Acenaphthylene	1.728	1.651	4.5	90	0.00
50		Dimethylphthalate	1.343	1.288	4.1	90	0.00
51		2,6-Dinitrotoluene	0.312	0.308	1.3	90	0.00
52	C	Acenaphthene	1.208	1.176	2.6	92	0.00
53		3-Nitroaniline	0.317	0.324	-2.2	93	0.00
54	P	2,4-Dinitrophenol	0.148	0.159	-7.4	93	0.00
55		Dibenzofuran	1.642	1.566	4.6	90	0.00
56	P	4-Nitrophenol	0.248	0.265	-6.9	97	0.00
57		2,4-Dinitrotoluene	0.402	0.413	-2.7	95	0.00
58		Fluorene	1.276	1.223	4.2	93	0.00
59		2,3,4,6-Tetrachlorophenol	0.340	0.329	3.2	90	0.00
60		Diethylphthalate	1.311	1.242	5.3	90	0.00
61		4-Chlorophenyl-phenylether	0.622	0.595	4.3	91	0.00
62		4-Nitroaniline	0.311	0.328	-5.5	99	0.00
63		Azobenzene	1.293	1.220	5.6	89	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	95	0.00
65		4,6-Dinitro-2-methylphenol	0.116	0.131	-12.9	96	0.00
66	c	n-Nitrosodiphenylamine	0.645	0.629	2.5	92	0.00
67		4-Bromophenyl-phenylether	0.230	0.229	0.4	94	0.00
68		Hexachlorobenzene	0.256	0.257	-0.4	95	0.00
69		Atrazine	0.174	0.143	17.8	96	0.00
70	C	Pentachlorophenol	0.164	0.178	-8.5	97	0.00
71		Phenanthrene	1.074	1.070	0.4	95	0.00
72		Anthracene	1.044	1.044	0.0	95	0.00
73		Carbazole	0.957	0.989	-3.3	99	0.00
74		Di-n-butylphthalate	1.096	1.092	0.4	95	0.00
75	C	Fluoranthene	1.071	1.131	-5.6	103	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
77		Benzidine	0.371	0.551	-48.5#	144	0.00
78		Pyrene	1.910	1.798	5.9	104	0.00
79	S	Terphenyl-d14	1.346	1.266	5.9	107	0.00
80		Butylbenzylphthalate	0.637	0.622	2.4	109	0.00
81		Benzo(a)anthracene	1.361	1.300	4.5	112	0.00
82		3,3'-Dichlorobenzidine	0.433	0.415	4.2	106	0.00
83		Chrysene	1.274	1.151	9.7	102	0.00
84		Bis(2-ethylhexyl)phthalate	0.764	0.720	5.8	106	0.00
85	c	Di-n-octyl phthalate	1.154	0.997	13.6	93	0.00
86	I	Perylene-d12	1.000	1.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	1.465	1.419	3.1	85	0.00
88		Benzo(b)fluoranthene	1.290	1.198	7.1	88	0.00
89		Benzo(k)fluoranthene	1.090	1.161	-6.5	99	0.00
90	C	Benzo(a)pyrene	1.064	1.042	2.1	89	0.00
91		Dibenzo(a,h)anthracene	1.185	1.151	2.9	85	0.00
92		Benzo(g,h,i)perylene	1.233	1.220	1.1	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF141163.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
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ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	90	0.00
2		1,4-Dioxane	40.000	37.150	7.1	85	0.00
3		Pyridine	40.000	37.406	6.5	87	0.00
4		n-Nitrosodimethylamine	40.000	38.368	4.1	88	0.00
5	S	2-Fluorophenol	80.000	78.021	2.5	91	0.00
6		Aniline	40.000	37.567	6.1	86	0.00
7	S	Phenol-d6	80.000	76.593	4.3	90	0.00
8		2-Chlorophenol	40.000	38.789	3.0	90	0.00
9		Benzaldehyde	40.000	35.852	10.4	92	0.00
10	C	Phenol	40.000	37.973	5.1	88	0.00
11		bis(2-Chloroethyl)ether	40.000	37.589	6.0	88	0.00
12		1,3-Dichlorobenzene	40.000	38.642	3.4	91	0.00
13	C	1,4-Dichlorobenzene	40.000	38.868	2.8	91	0.00
14		1,2-Dichlorobenzene	40.000	38.854	2.9	92	0.00
15		Benzyl Alcohol	40.000	39.172	2.1	90	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.110	9.7	84	0.00
17		2-Methylphenol	40.000	38.886	2.8	90	0.00
18		Hexachloroethane	40.000	39.034	2.4	90	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.484	8.8	87	0.00
20		3+4-Methylphenols	40.000	38.141	4.6	88	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	89	0.00
22		Acetophenone	40.000	38.408	4.0	92	0.00
23	S	Nitrobenzene-d5	80.000	78.379	2.0	90	0.00
24		Nitrobenzene	40.000	39.172	2.1	91	0.00
25		Isophorone	40.000	37.942	5.1	89	0.00
26	C	2-Nitrophenol	40.000	41.256	-3.1	92	0.00
27		2,4-Dimethylphenol	40.000	38.423	3.9	88	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.538	6.2	88	0.00
29	C	2,4-Dichlorophenol	40.000	39.621	0.9	91	0.00
30		1,2,4-Trichlorobenzene	40.000	38.734	3.2	90	0.00
31		Naphthalene	40.000	38.895	2.8	92	0.00
32		Benzoic acid	40.000	41.720	-4.3	91	0.01
33		4-Chloroaniline	40.000	37.746	5.6	89	0.00
34	C	Hexachlorobutadiene	40.000	39.630	0.9	93	0.00
35		Caprolactam	40.000	39.209	2.0	90	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.099	2.3	91	0.00
37		2-Methylnaphthalene	40.000	38.042	4.9	90	0.00
38		1-Methylnaphthalene	40.000	38.000	5.0	90	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.818	3.0	91	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.390	-6.0	91	0.00
42	S	2,4,6-Tribromophenol	80.000	82.077	-2.6	97	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.255	4.4	89	0.00
44		2,4,5-Trichlorophenol	40.000	39.496	1.3	92	0.00
45	S	2-Fluorobiphenyl	80.000	75.172	6.0	91	0.00
46		1,1'-Biphenyl	40.000	37.790	5.5	90	0.00
47		2-Chloronaphthalene	40.000	38.547	3.6	91	0.00

Sample Results: **BF141163.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	39.382	1.5	92	0.00
49		Acenaphthylene	40.000	38.201	4.5	90	0.00
50		Dimethylphthalate	40.000	38.362	4.1	90	0.00
51		2,6-Dinitrotoluene	40.000	39.398	1.5	90	0.00
52	C	Acenaphthene	40.000	38.964	2.6	92	0.00
53		3-Nitroaniline	40.000	40.799	-2.0	93	0.00
54	P	2,4-Dinitrophenol	40.000	42.819	-7.0	93	0.00
55		Dibenzofuran	40.000	38.134	4.7	90	0.00
56	P	4-Nitrophenol	40.000	42.735	-6.8	97	0.00
57		2,4-Dinitrotoluene	40.000	41.019	-2.5	95	0.00
58		Fluorene	40.000	38.346	4.1	93	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.675	3.3	90	0.00
60		Diethylphthalate	40.000	37.898	5.3	90	0.00
61		4-Chlorophenyl-phenylether	40.000	38.245	4.4	91	0.00
62		4-Nitroaniline	40.000	42.253	-5.6	99	0.00
63		Azobenzene	40.000	37.723	5.7	89	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	95	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.236	-13.1	96	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.976	2.6	92	0.00
67		4-Bromophenyl-phenylether	40.000	39.828	0.4	94	0.00
68		Hexachlorobenzene	40.000	40.133	-0.3	95	0.00
69		Atrazine	40.000	32.845	17.9	96	0.00
70	C	Pentachlorophenol	40.000	43.371	-8.4	97	0.00
71		Phenanthrene	40.000	39.845	0.4	95	0.00
72		Anthracene	40.000	39.992	0.0	95	0.00
73		Carbazole	40.000	41.314	-3.3	99	0.00
74		Di-n-butylphthalate	40.000	39.853	0.4	95	0.00
75	C	Fluoranthene	40.000	42.210	-5.5	103	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	107	0.00
77		Benzidine	40.000	59.379	-48.4#	144	0.00
78		Pyrene	40.000	37.659	5.9	104	0.00
79	S	Terphenyl-d14	80.000	75.282	5.9	107	0.00
80		Butylbenzylphthalate	40.000	39.092	2.3	109	0.00
81		Benzo(a)anthracene	40.000	38.190	4.5	112	0.00
82		3,3'-Dichlorobenzidine	40.000	38.305	4.2	106	0.00
83		Chrysene	40.000	36.159	9.6	102	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	37.710	5.7	106	0.00
85	c	Di-n-octyl phthalate	40.000	34.562	13.6	93	0.00
86	I	Perylene-d12	20.000	20.000	0.0	89	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.725	3.2	85	0.00
88		Benzo(b)fluoranthene	40.000	37.149	7.1	88	0.00
89		Benzo(k)fluoranthene	40.000	42.618	-6.5	99	0.00
90	C	Benzo(a)pyrene	40.000	39.172	2.1	89	0.00
91		Dibenzo(a,h)anthracene	40.000	38.838	2.9	85	0.00
92		Benzo(g,h,i)perylene	40.000	39.580	1.1	86	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141163.D
Acq On : 15 Jan 2025 09:34
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 10:12:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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 = 0

Raw Data: **BF141177.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 17:10

Lab File ID: BF141177.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.295	1.226		-5.3	50.0
Benzaldehyde	0.966	0.898		-7.0	50.0
Phenol-d6	1.640	1.520		-7.3	50.0
Phenol	1.756	1.619		-7.8	50.0
bis(2-Chloroethyl)ether	1.308	1.235		-5.6	50.0
2-Chlorophenol	1.389	1.328		-4.4	50.0
2-Methylphenol	1.121	1.056		-5.8	50.0
2,2-oxybis(1-Chloropropane)	1.826	1.658		-9.2	50.0
Acetophenone	0.475	0.447		-5.9	50.0
3+4-Methylphenols	1.415	1.324		-6.4	50.0
n-Nitroso-di-n-propylamine	0.966	0.896	0.050	-7.2	50.0
Nitrobenzene-d5	0.377	0.364		-3.4	50.0
Hexachloroethane	0.565	0.550		-2.7	50.0
Nitrobenzene	0.393	0.375		-4.6	50.0
Isophorone	0.645	0.606		-6.0	50.0
2-Nitrophenol	0.179	0.182		1.7	50.0
2,4-Dimethylphenol	0.241	0.227		-5.8	50.0
bis(2-Chloroethoxy)methane	0.405	0.383		-5.4	50.0
2,4-Dichlorophenol	0.287	0.279		-2.8	50.0
Naphthalene	1.055	1.004		-4.8	50.0
4-Chloroaniline	0.365	0.313		-14.2	50.0
Hexachlorobutadiene	0.197	0.199		1.0	50.0
Caprolactam	0.094	0.085		-9.6	50.0
4-Chloro-3-methylphenol	0.313	0.296		-5.4	50.0
2-Methylnaphthalene	0.672	0.642		-4.5	50.0
Hexachlorocyclopentadiene	0.188	0.208	0.050	10.6	50.0
2,4,6-Trichlorophenol	0.387	0.392		1.3	50.0
2-Fluorobiphenyl	1.310	1.277		-2.5	50.0
2,4,5-Trichlorophenol	0.409	0.389		-4.9	50.0
1,1-Biphenyl	1.553	1.513		-2.6	50.0
2-Chloronaphthalene	1.210	1.171		-3.2	50.0
2-Nitroaniline	0.359	0.342		-4.7	50.0
Dimethylphthalate	1.343	1.285		-4.3	50.0
Acenaphthylene	1.728	1.643		-4.9	50.0
2,6-Dinitrotoluene	0.312	0.301		-3.5	50.0
3-Nitroaniline	0.317	0.301		-5.0	50.0
Acenaphthene	1.208	1.172		-3.0	50.0
2,4-Dinitrophenol	0.148	0.154	0.050	4.1	50.0
4-Nitrophenol	0.248	0.232	0.050	-6.5	50.0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1069 SAS No.: Q1069 SDG No.: Q1069

Instrument ID: BNA_F Calibration Date/Time: 01/15/2025 17:10

Lab File ID: BF141177.D Init. Calib. Date(s): 01/10/2025 01/10/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:58 17:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.642	1.553		-5.4	50.0
2,4-Dinitrotoluene	0.402	0.390		-3.0	50.0
Diethylphthalate	1.311	1.242		-5.3	50.0
4-Chlorophenyl-phenylether	0.622	0.601		-3.4	50.0
Fluorene	1.276	1.200		-6.0	50.0
4-Nitroaniline	0.311	0.284		-8.7	50.0
4,6-Dinitro-2-methylphenol	0.116	0.131		12.9	50.0
n-Nitrosodiphenylamine	0.645	0.660		2.3	50.0
2,4,6-Tribromophenol	0.228	0.223		-2.2	50.0
4-Bromophenyl-phenylether	0.230	0.242		5.2	50.0
Hexachlorobenzene	0.256	0.266		3.9	50.0
Atrazine	0.174	0.141		-19.0	50.0
Pentachlorophenol	0.164	0.171		4.3	50.0
Phenanthrene	1.074	1.061		-1.2	50.0
Anthracene	1.044	1.038		-0.6	50.0
Carbazole	0.957	0.930		-2.8	50.0
Di-n-butylphthalate	1.096	1.104		0.7	50.0
Fluoranthene	1.071	1.005		-6.2	50.0
Pyrene	1.910	1.715		-10.2	50.0
Terphenyl-d14	1.346	1.235		-8.2	50.0
Butylbenzylphthalate	0.637	0.602		-5.5	50.0
3,3-Dichlorobenzidine	0.433	0.437		0.9	50.0
Benzo(a)anthracene	1.361	1.281		-5.9	50.0
Chrysene	1.274	1.141		-10.4	50.0
Bis(2-ethylhexyl)phthalate	0.764	0.750		-1.8	50.0
Di-n-octyl phthalate	1.154	1.233		6.8	50.0
Benzo(b)fluoranthene	1.290	1.133		-12.2	50.0
Benzo(k)fluoranthene	1.090	1.067		-2.1	50.0
Benzo(a)pyrene	1.064	1.016		-4.5	50.0
Indeno(1,2,3-cd)pyrene	1.465	1.497		2.2	50.0
Dibenzo(a,h)anthracene	1.185	1.222		3.1	50.0
Benzo(g,h,i)perylene	1.233	1.275		3.4	50.0
1,2,4,5-Tetrachlorobenzene	0.574	0.580		1.0	50.0
1,4-Dioxane	0.577	0.509		-11.8	50.0
2,3,4,6-Tetrachlorophenol	0.340	0.315		-7.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	155483	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	596867	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	306781	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	475484	20.000	ng		0.00
76) Chrysene-d12	13.986	240	274637	20.000	ng		0.00
86) Perylene-d12	15.457	264	314579	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	762731	75.781	ng		0.00
7) Phenol-d6	6.451	99	945090	74.129	ng		0.00
23) Nitrobenzene-d5	7.387	82	869674	77.237	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	273830	78.336	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1567171	78.008	ng		0.00
79) Terphenyl-d14	12.933	244	1356978	73.438	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.528	88	158233	35.304	ng		99
3) Pyridine	3.269	79	392798	35.738	ng		98
4) n-Nitrosodimethylamine	3.216	42	193619	36.028	ng		99
6) Aniline	6.487	93	397866	35.149	ng		99
8) 2-Chlorophenol	6.604	128	412894	38.237	ng		99
9) Benzaldehyde	6.375	77	279148	37.175	ng		97
10) Phenol	6.463	94	503433	36.888	ng		99
11) bis(2-Chloroethyl)ether	6.557	93	384104	37.765	ng		98
12) 1,3-Dichlorobenzene	6.763	146	463888	38.517	ng		99
13) 1,4-Dichlorobenzene	6.840	146	463443	38.186	ng		99
14) 1,2-Dichlorobenzene	6.993	146	433703	38.310	ng		98
15) Benzyl Alcohol	6.963	79	353797	38.426	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.098	45	515552	36.324	ng		98
17) 2-Methylphenol	7.075	107	328264	37.654	ng		100
18) Hexachloroethane	7.334	117	170928	38.946	ng		99
19) n-Nitroso-di-n-propyla...	7.234	70	278516	37.085	ng		99
20) 3+4-Methylphenols	7.228	107	411727	37.434	ng	#	85
22) Acetophenone	7.234	105	533290	37.585	ng		98
24) Nitrobenzene	7.404	77	448135	38.187	ng		100
25) Isophorone	7.645	82	723242	37.586	ng		99
26) 2-Nitrophenol	7.722	139	216906	40.633	ng		97
27) 2,4-Dimethylphenol	7.757	122	271568	37.716	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	457717	37.902	ng		100
29) 2,4-Dichlorophenol	7.963	162	333142	38.956	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	381430	39.022	ng		100
31) Naphthalene	8.128	128	1198220	38.067	ng		100
32) Benzoic acid	7.863	122	280944	40.674	ng		98
33) 4-Chloroaniline	8.175	127	373182	34.282	ng		99
34) Hexachlorobutadiene	8.245	225	237661	40.351	ng		99
35) Caprolactam	8.545	113	101897	36.395	ng		98
36) 4-Chloro-3-methylphenol	8.651	107	353744	37.823	ng		98
37) 2-Methylnaphthalene	8.816	142	766427	38.211	ng		100
38) 1-Methylnaphthalene	8.916	142	740167	37.443	ng		99
40) 1,2,4,5-Tetrachloroben...	8.987	216	355979	40.428	ng		99
41) Hexachlorocyclopentadiene	8.969	237	127706	44.331	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	240779	40.545	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

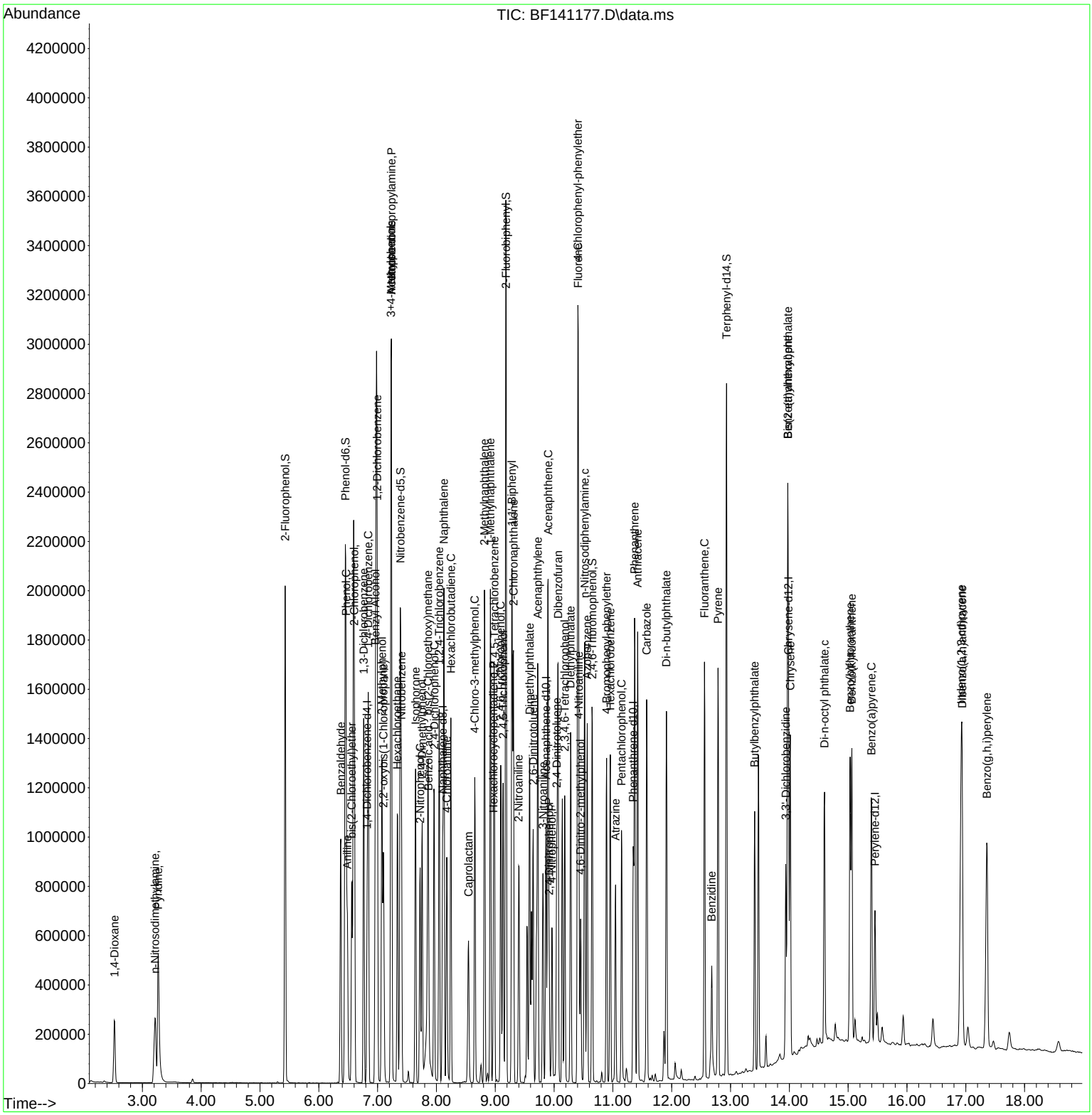
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.134	196	238958	38.100	ng	99
46) 1,1'-Biphenyl	9.281	154	928568	38.975	ng	100
47) 2-Chloronaphthalene	9.310	162	718713	38.731	ng	99
48) 2-Nitroaniline	9.398	65	209535	38.092	ng	97
49) Acenaphthylene	9.722	152	1008177	38.028	ng	100
50) Dimethylphthalate	9.586	163	788370	38.279	ng	99
51) 2,6-Dinitrotoluene	9.645	165	184885	38.603	ng	98
52) Acenaphthene	9.898	154	719005	38.818	ng	99
53) 3-Nitroaniline	9.810	138	184415	37.891	ng	99
54) 2,4-Dinitrophenol	9.916	184	94494	41.509	ng	88
55) Dibenzofuran	10.069	168	952828	37.820	ng	100
56) 4-Nitrophenol	9.963	139	142248	37.319	ng	96
57) 2,4-Dinitrotoluene	10.045	165	239012	38.724	ng	99
58) Fluorene	10.410	166	736330	37.619	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.181	232	193373	37.093	ng	97
60) Diethylphthalate	10.281	149	762235	37.910	ng	100
61) 4-Chlorophenyl-phenyle...	10.404	204	368642	38.643	ng	99
62) 4-Nitroaniline	10.422	138	174083	36.544	ng	98
63) Azobenzene	10.563	77	730307	36.811	ng	99
65) 4,6-Dinitro-2-methylph...	10.451	198	124375	45.140	ng	100
66) n-Nitrosodiphenylamine	10.522	169	627905	40.942	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	230138	42.040	ng	99
68) Hexachlorobenzene	10.957	284	252658	41.461	ng	99
69) Atrazine	11.045	200	133894	32.424	ng	99
70) Pentachlorophenol	11.145	266	162667	41.683	ng	98
71) Phenanthrene	11.369	178	1009123	39.531	ng	99
72) Anthracene	11.422	178	986753	39.754	ng	100
73) Carbazole	11.575	167	884138	38.847	ng	100
74) Di-n-butylphthalate	11.910	149	1049973	40.312	ng	100
75) Fluoranthene	12.557	202	955547	37.511	ng	99
77) Benzidine	12.680	184	250742	49.233	ng	99
78) Pyrene	12.786	202	942221	35.920	ng	100
80) Butylbenzylphthalate	13.410	149	330866	37.832	ng	97
81) Benzo(a)anthracene	13.974	228	703511	37.640	ng	100
82) 3,3'-Dichlorobenzidine	13.939	252	239857	40.302	ng	99
83) Chrysene	14.016	228	626608	35.829	ng	99
84) Bis(2-ethylhexyl)phtha...	13.974	149	412028	39.265	ng	100
85) Di-n-octyl phthalate	14.598	149	677367	42.747	ng	99
87) Indeno(1,2,3-cd)pyrene	16.921	276	941894	40.868	ng	98
88) Benzo(b)fluoranthene	15.033	252	713140	35.156	ng	99
89) Benzo(k)fluoranthene	15.063	252	671197	39.154	ng	100
90) Benzo(a)pyrene	15.398	252	639515	38.211	ng	99
91) Dibenzo(a,h)anthracene	16.939	278	768910	41.249	ng	97
92) Benzo(g,h,i)perylene	17.357	276	802295	41.379	ng	99

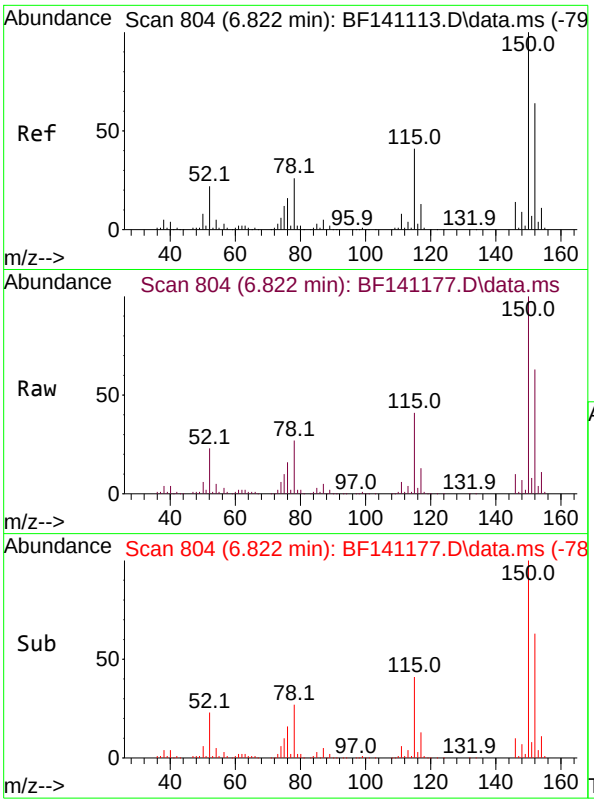
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



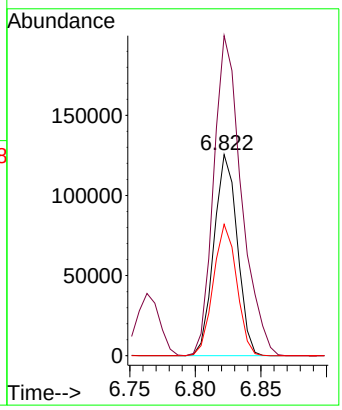


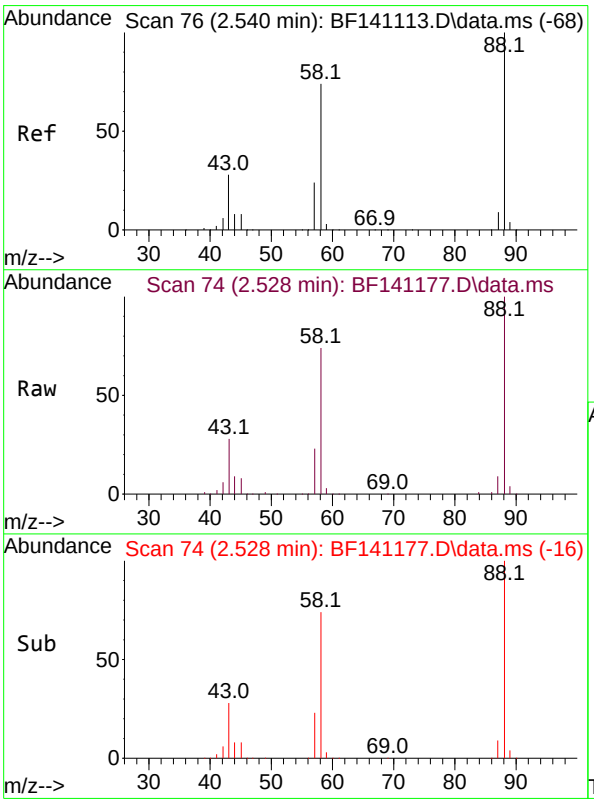
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 155483

Ion	Ratio	Lower	Upper
152	100		
150	159.1	125.8	188.8
115	65.3	51.4	77.2

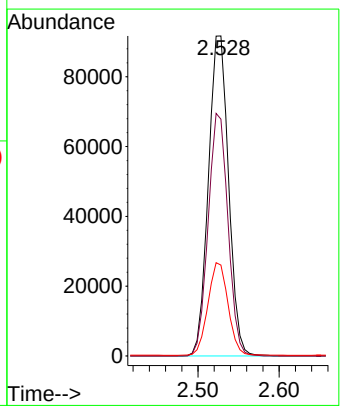


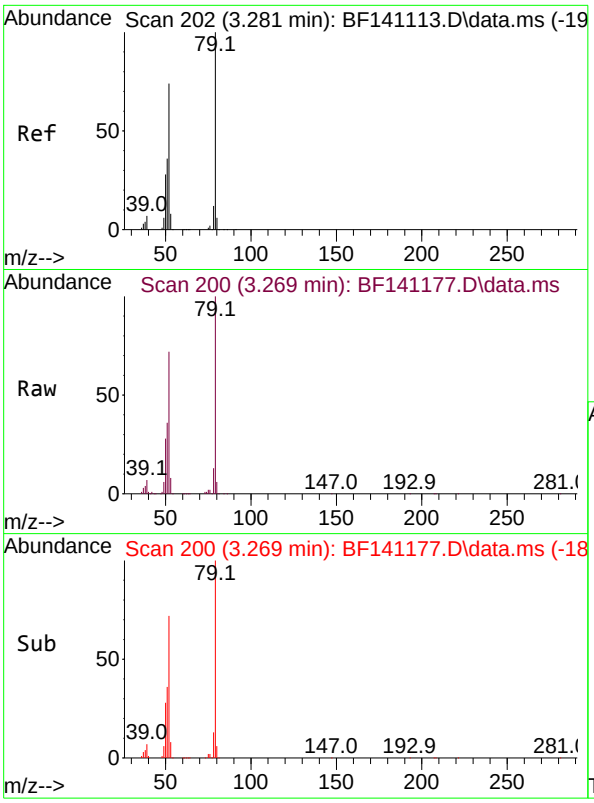


#2
1,4-Dioxane
Concen: 35.304 ng
RT: 2.528 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 88 Resp: 158233

Ion	Ratio	Lower	Upper
88	100		
58	74.3	60.1	90.1
43	28.9	23.1	34.7



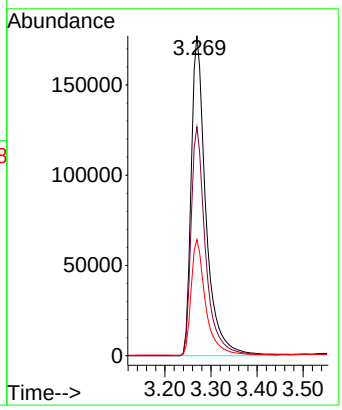


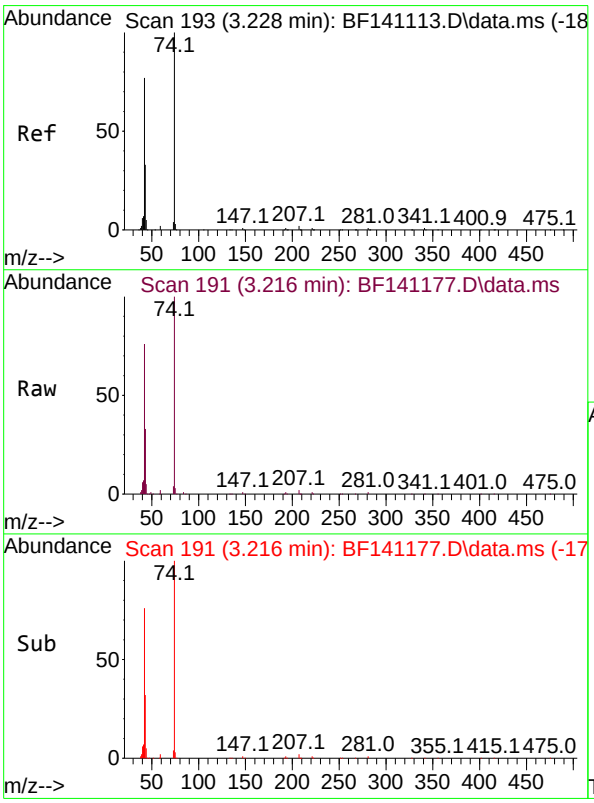
#3
Pyridine
Concen: 35.738 ng
RT: 3.269 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 392798

Ion	Ratio	Lower	Upper
79	100		
52	71.5	58.9	88.3
51	36.3	29.1	43.7

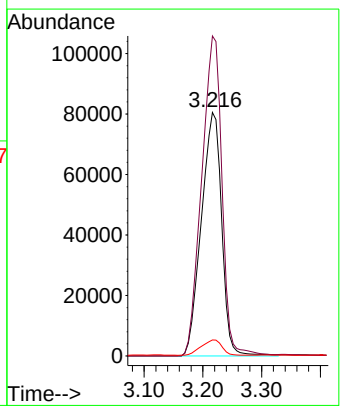


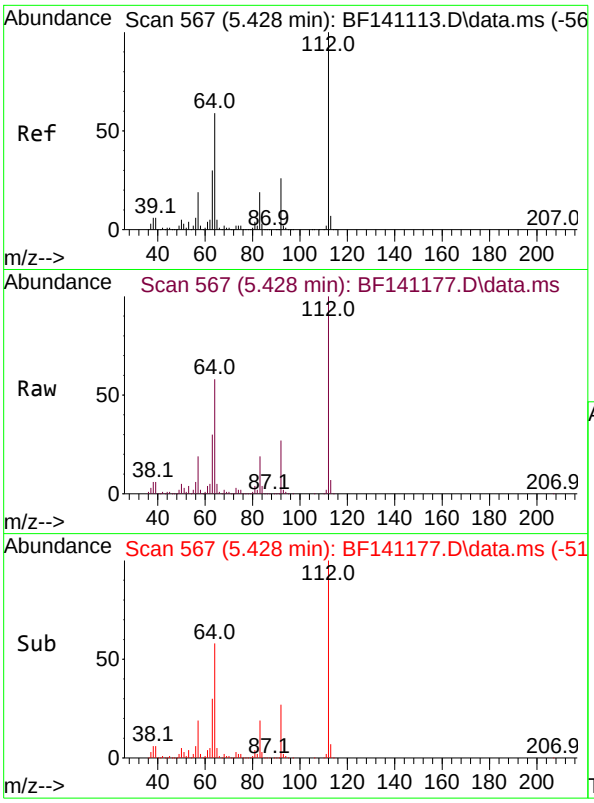


#4
n-Nitrosodimethylamine
Concen: 36.028 ng
RT: 3.216 min Scan# 191
Delta R.T. -0.012 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 42 Resp: 193619

Ion	Ratio	Lower	Upper
42	100		
74	131.4	103.8	155.6
44	6.6	5.3	7.9



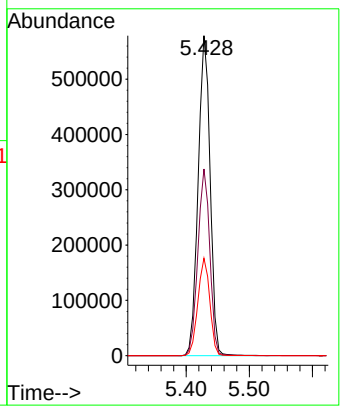


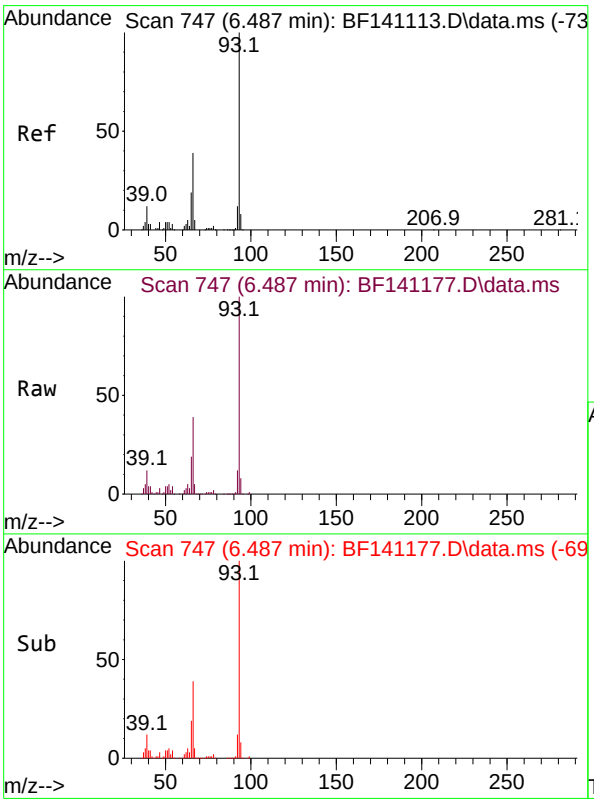
#5
2-Fluorophenol
Concen: 75.781 ng
RT: 5.428 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 762731

Ion	Ratio	Lower	Upper
112	100		
64	58.3	47.3	70.9
63	30.5	24.2	36.2

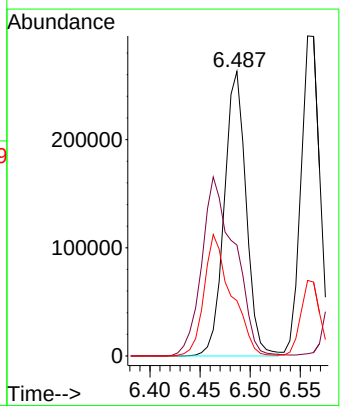


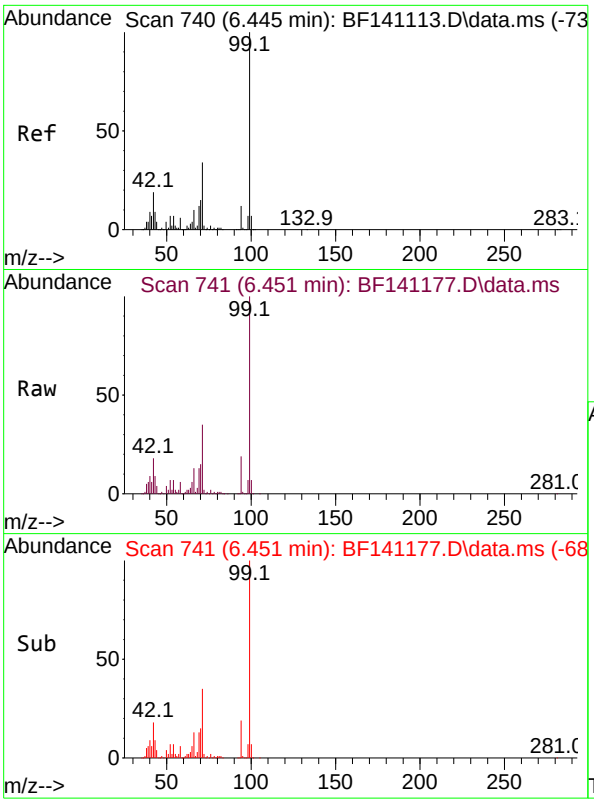


#6
Aniline
Concen: 35.149 ng
RT: 6.487 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 93 Resp: 397866

Ion	Ratio	Lower	Upper
93	100		
66	39.0	31.5	47.3
65	19.4	15.3	22.9



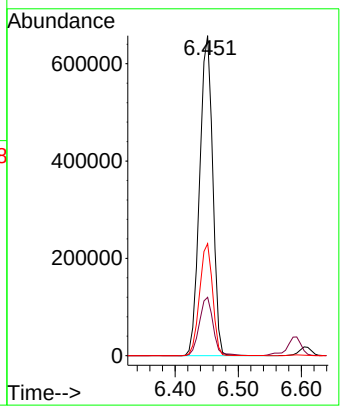


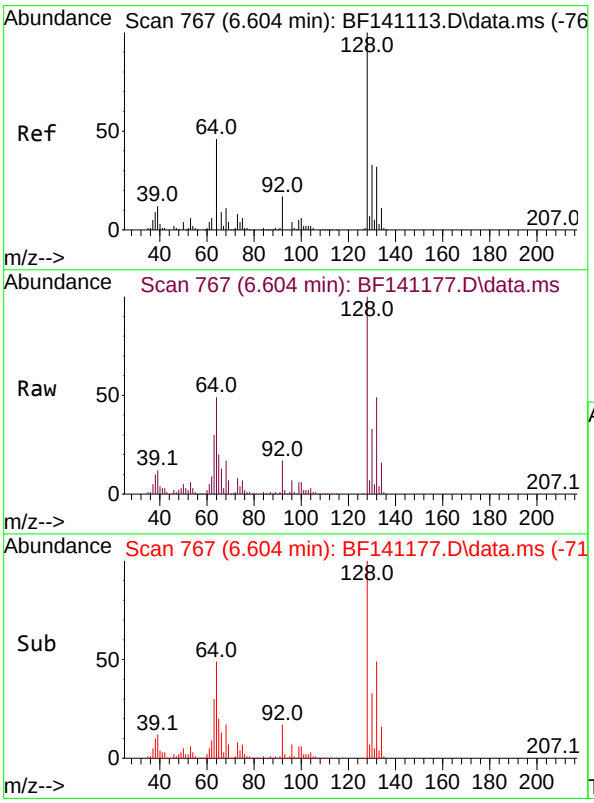
#7
Phenol-d6
Concen: 74.129 ng
RT: 6.451 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 945090

Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.0	22.4
71	35.0	27.6	41.4

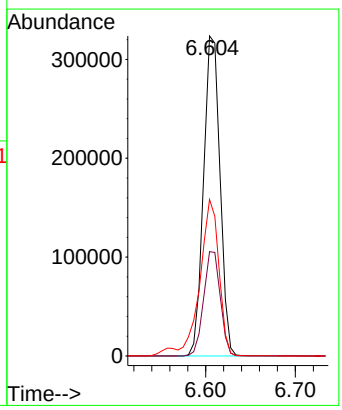


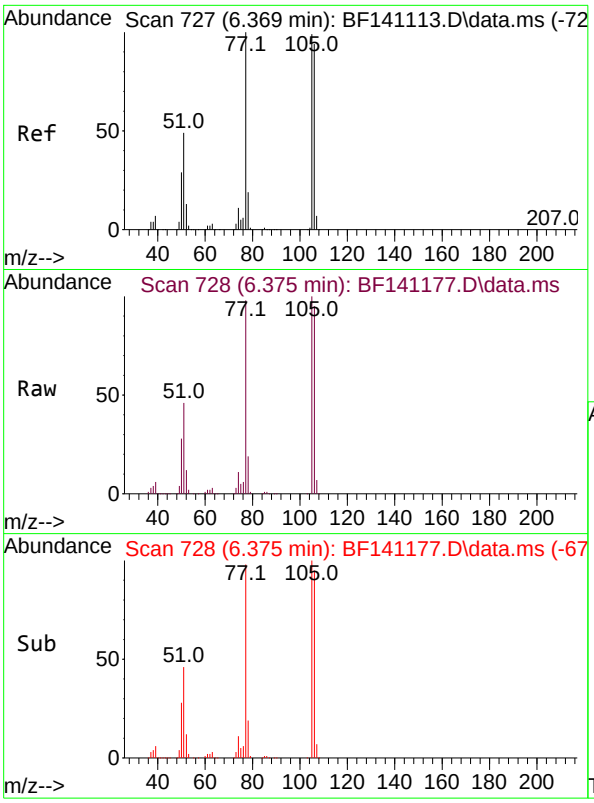


#8
2-Chlorophenol
Concen: 38.237 ng
RT: 6.604 min Scan# 767
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:128 Resp: 412894

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.5	52.5
64	48.9	28.3	68.3



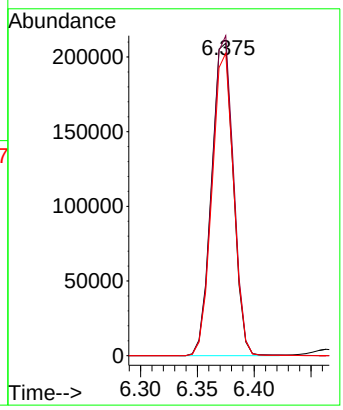


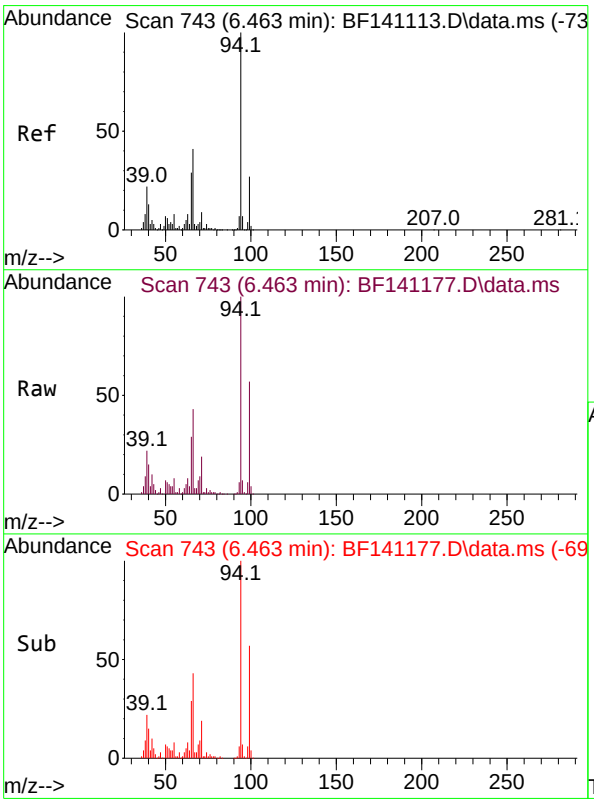
#9
Benzaldehyde
Concen: 37.175 ng
RT: 6.375 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 279148

Ion	Ratio	Lower	Upper
77	100		
105	102.4	78.9	118.9
106	96.8	73.6	113.6

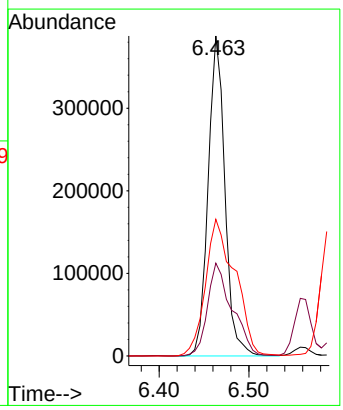


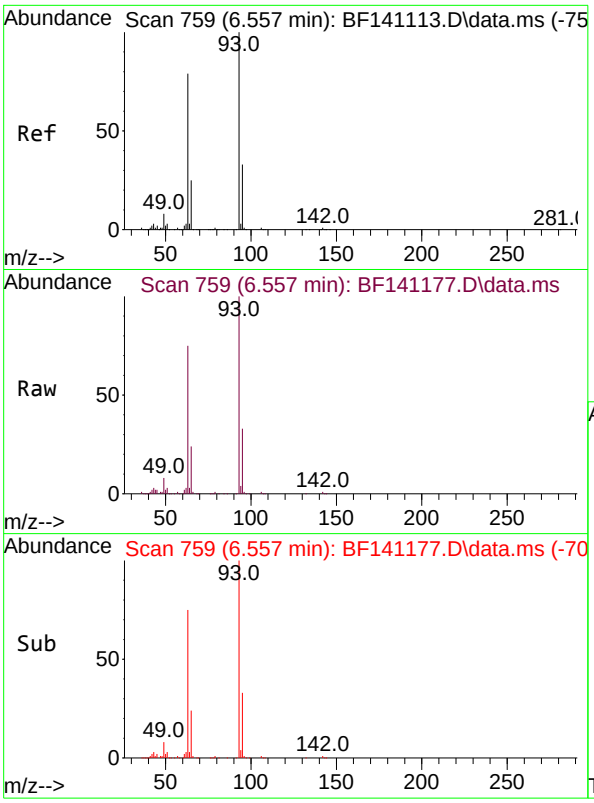


#10
Phenol
Concen: 36.888 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 94 Resp: 503433

Ion	Ratio	Lower	Upper
94	100		
65	29.0	8.9	48.9
66	42.7	21.2	61.2



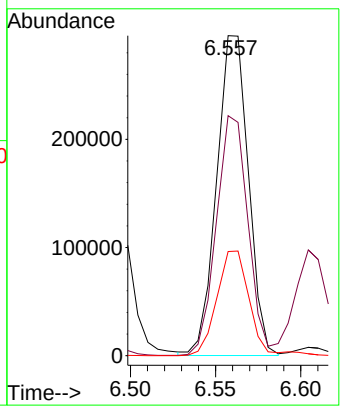


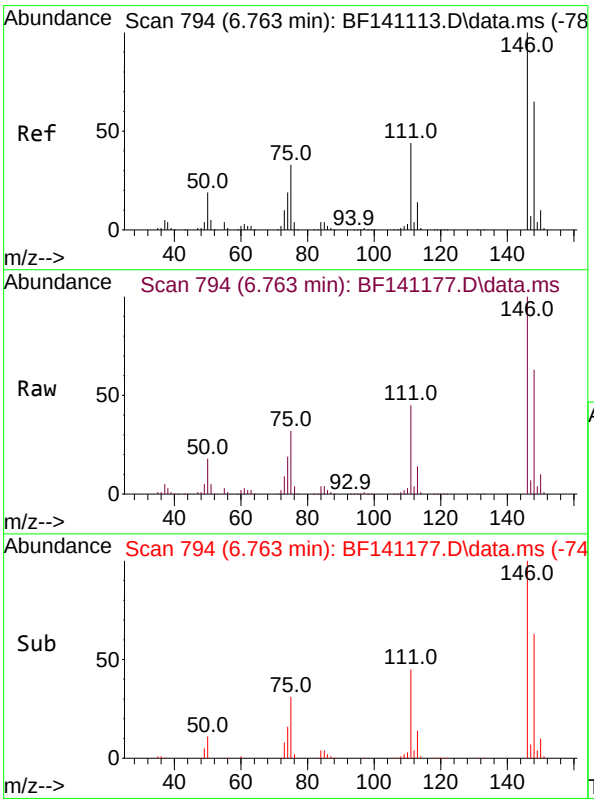
#11
bis(2-Chloroethyl)ether
Concen: 37.765 ng
RT: 6.557 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 384104

Ion	Ratio	Lower	Upper
93	100		
63	75.0	58.0	98.0
95	32.6	12.5	52.5

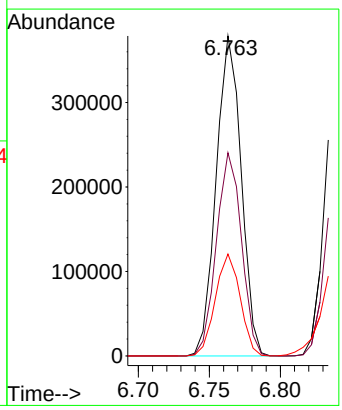


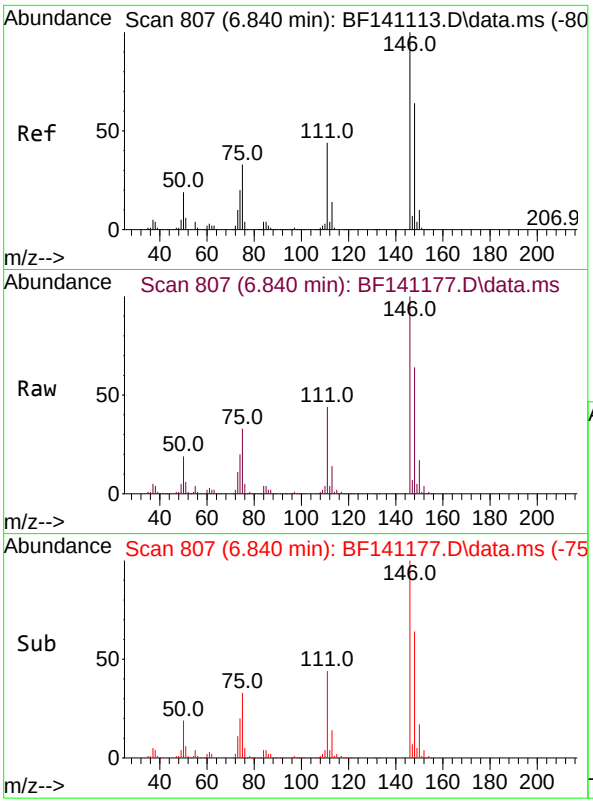


#12
1,3-Dichlorobenzene
Concen: 38.517 ng
RT: 6.763 min Scan# 794
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:146 Resp: 463888

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.6	77.4
75	31.9	26.2	39.2



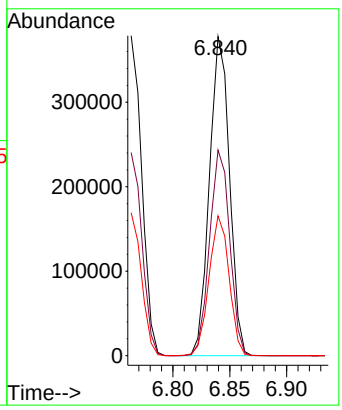


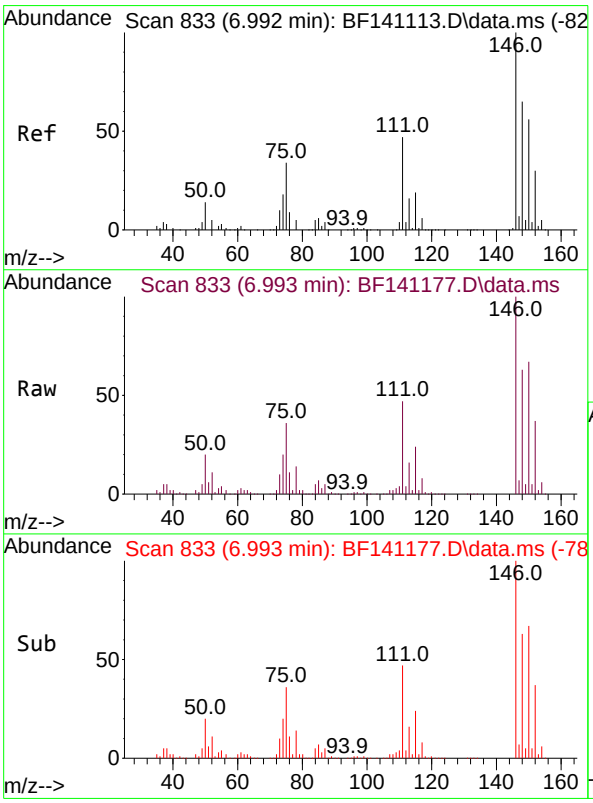
#13
1,4-Dichlorobenzene
Concen: 38.186 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 463443

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	43.8	34.9	52.3

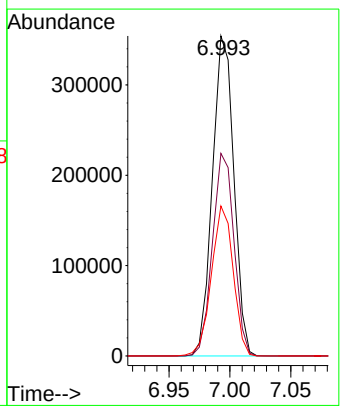


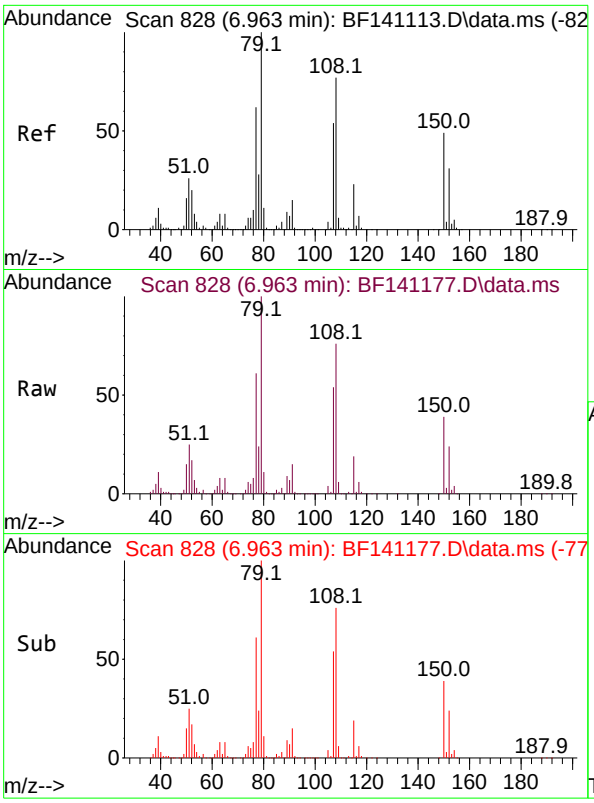


#14
1,2-Dichlorobenzene
Concen: 38.310 ng
RT: 6.993 min Scan# 833
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:146 Resp: 433703

Ion	Ratio	Lower	Upper
146	100		
148	63.3	52.2	78.4
111	46.8	37.5	56.3



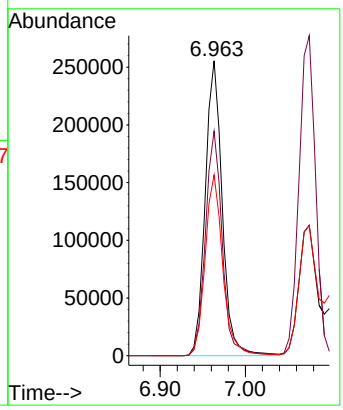


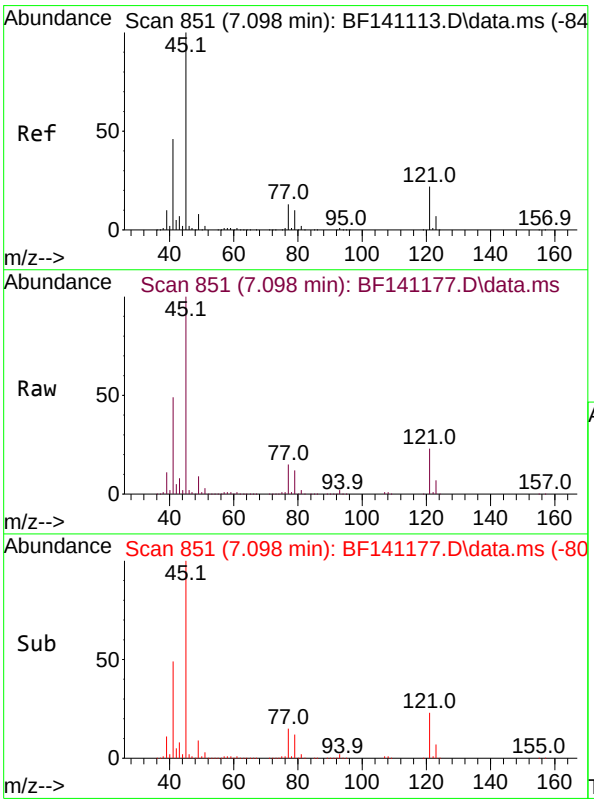
#15
Benzyl Alcohol
Concen: 38.426 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 353797

Ion	Ratio	Lower	Upper
79	100		
108	76.1	61.4	92.0
77	61.3	49.8	74.6

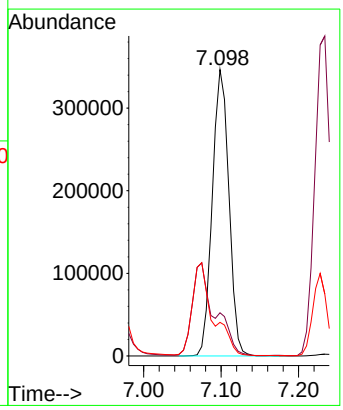


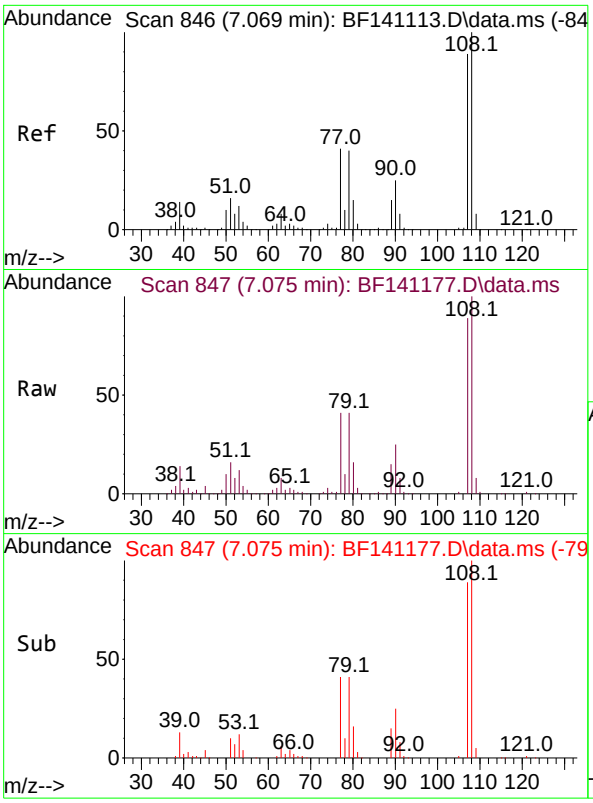


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.324 ng
RT: 7.098 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 45 Resp: 515552

Ion	Ratio	Lower	Upper
45	100		
77	15.1	0.0	34.1
79	11.8	0.0	31.0



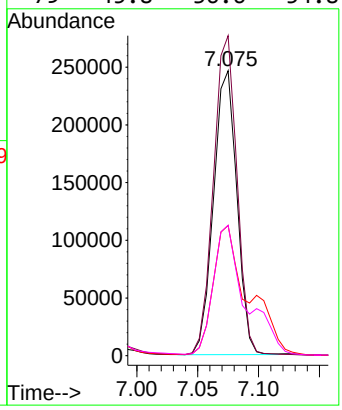


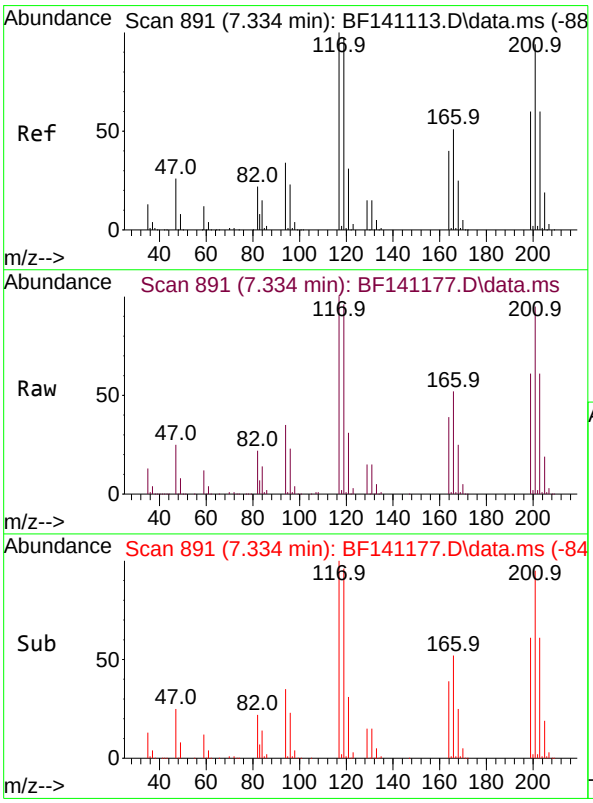
#17
2-Methylphenol
Concen: 37.654 ng
RT: 7.075 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 328264

Ion	Ratio	Lower	Upper
107	100		
108	112.3	90.1	135.1
77	45.7	36.6	55.0
79	45.8	36.6	54.8

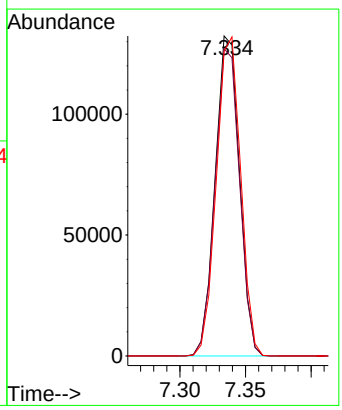


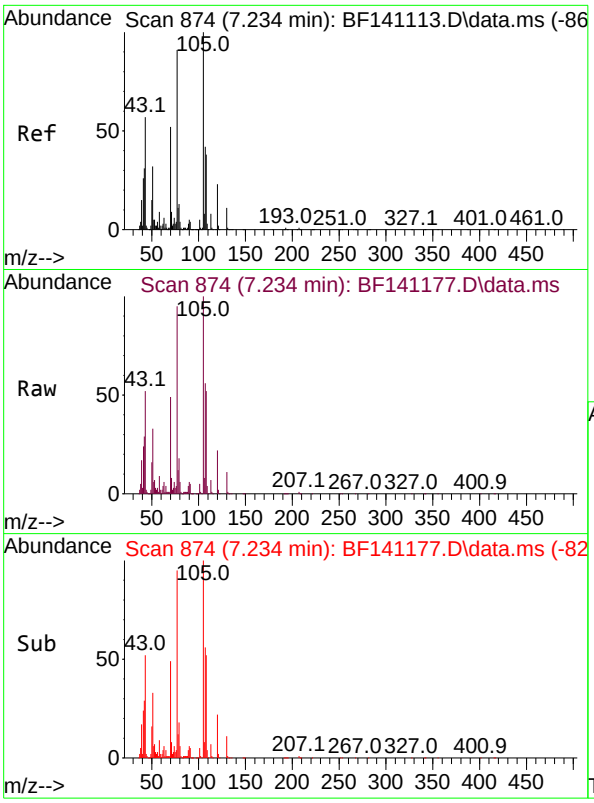


#18
Hexachloroethane
Concen: 38.946 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:117 Resp: 170928

Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.6	116.4
201	95.3	75.1	112.7



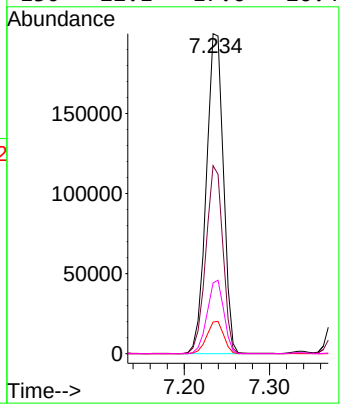


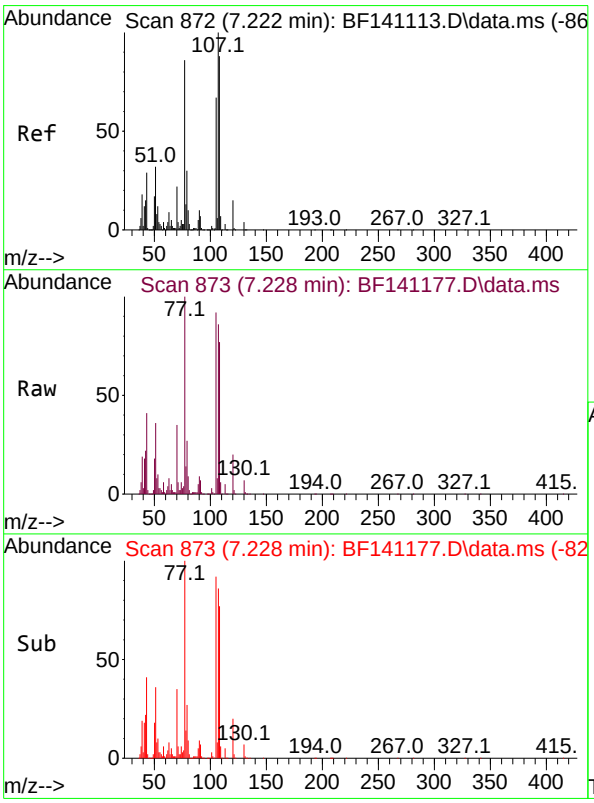
#19
n-Nitroso-di-n-propylamine
Concen: 37.085 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 278516

Ion	Ratio	Lower	Upper
70	100		
42	58.7	47.8	71.6
101	9.9	7.9	11.9
130	22.1	17.6	26.4

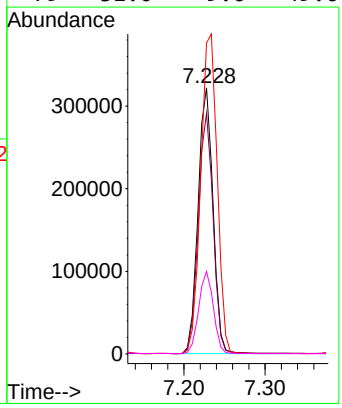


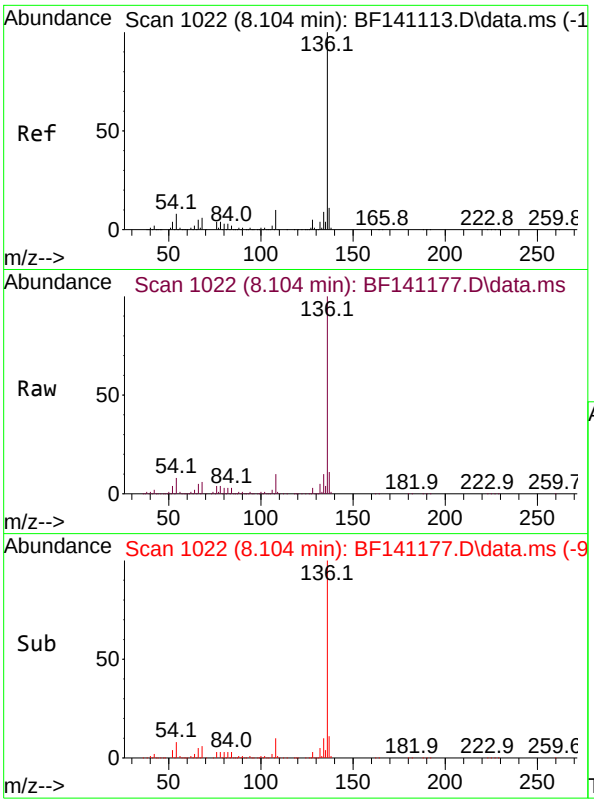


#20
3+4-Methylphenols
Concen: 37.434 ng
RT: 7.228 min Scan# 873
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:107 Resp: 411727

Ion	Ratio	Lower	Upper
107	100		
108	90.4	68.3	108.3
77	116.8	66.4	106.4#
79	31.0	9.6	49.6



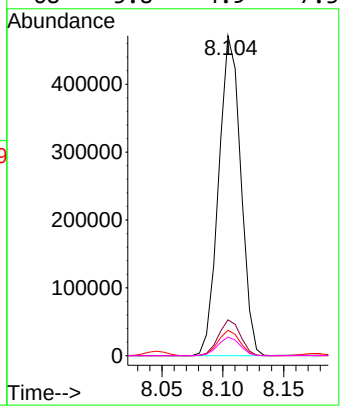


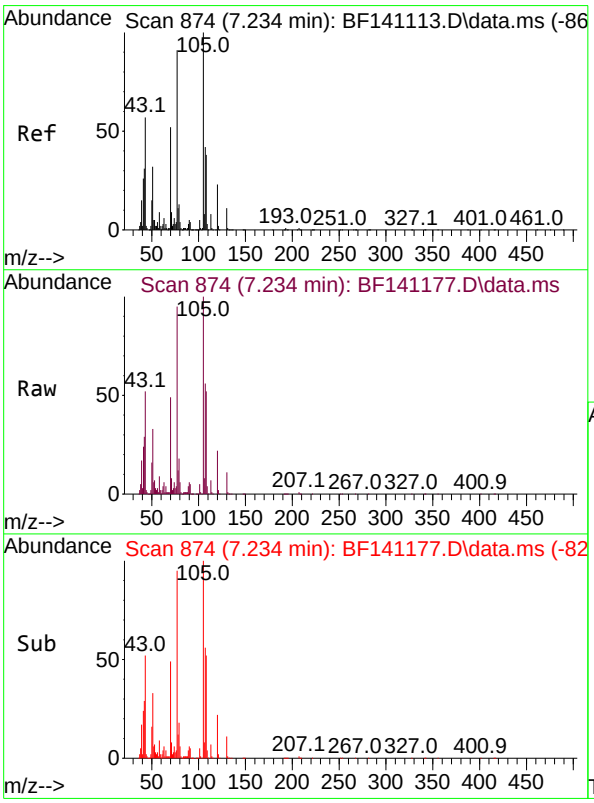
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 596867

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	7.9	6.3	9.5
68	5.8	4.9	7.3

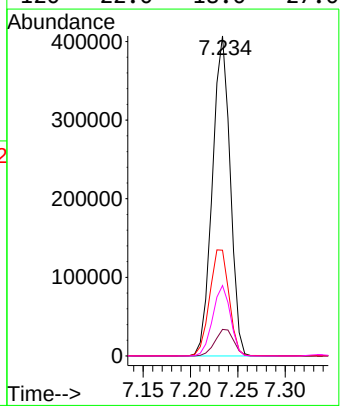


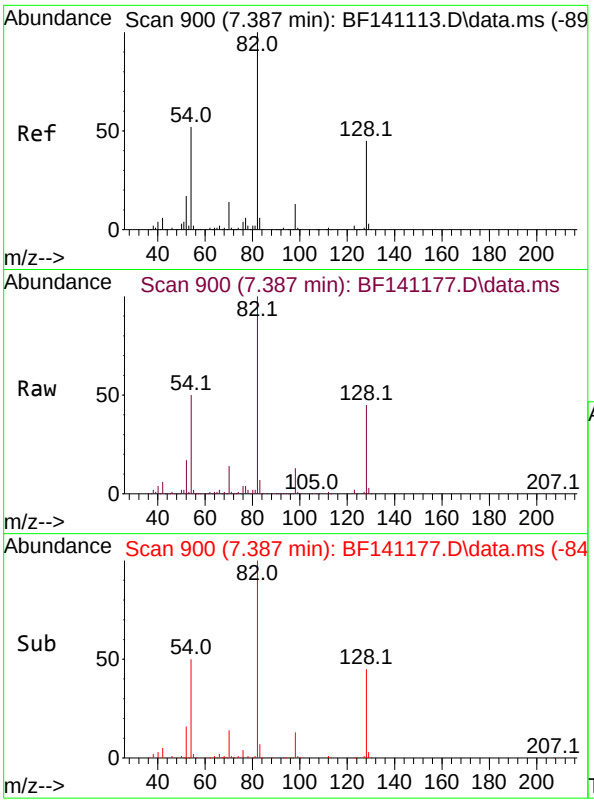


#22
Acetophenone
Concen: 37.585 ng
RT: 7.234 min Scan# 874
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:105 Resp: 533290

Ion	Ratio	Lower	Upper
105	100		
71	8.3	7.1	10.7
51	33.0	25.4	38.2
120	22.0	18.0	27.0



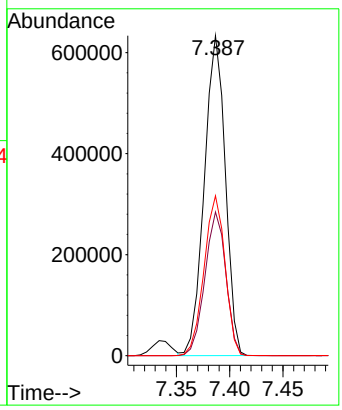


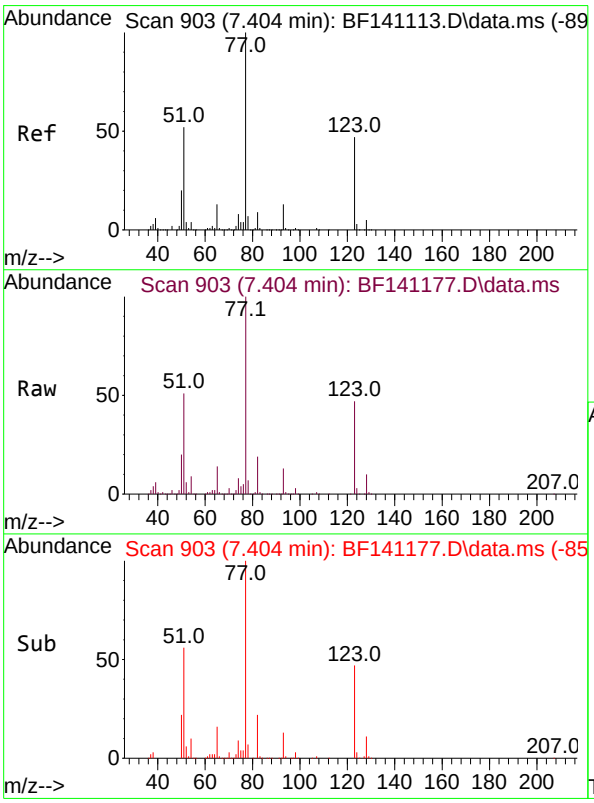
#23
Nitrobenzene-d5
Concen: 77.237 ng
RT: 7.387 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 869674

Ion	Ratio	Lower	Upper
82	100		
128	44.9	36.1	54.1
54	49.9	41.0	61.4

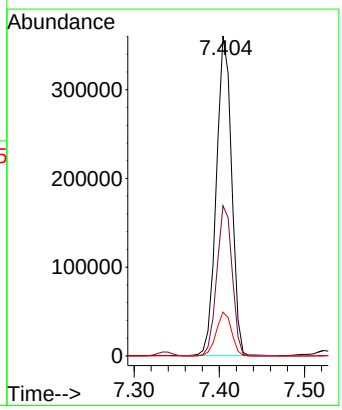


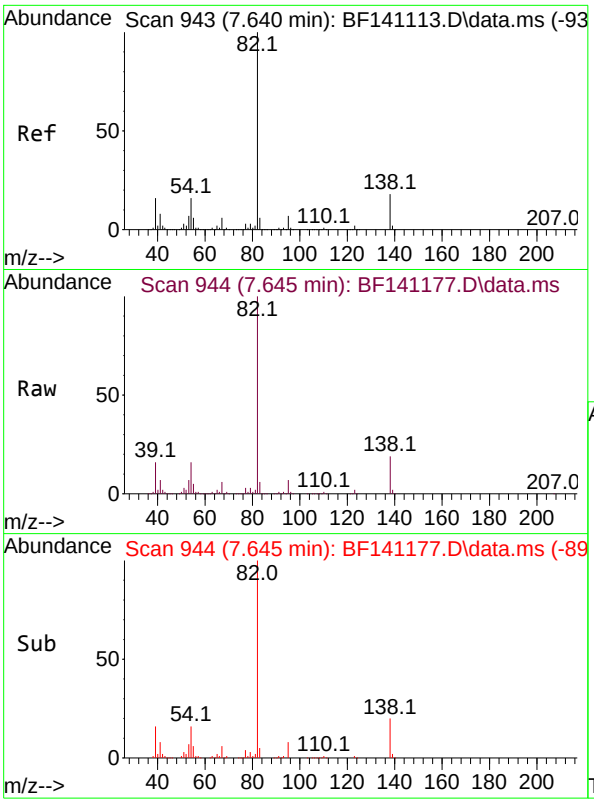


#24
Nitrobenzene
Concen: 38.187 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 77 Resp: 448135

Ion	Ratio	Lower	Upper
77	100		
123	47.0	37.7	56.5
65	13.7	10.6	16.0



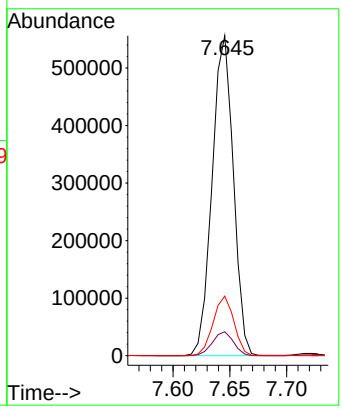


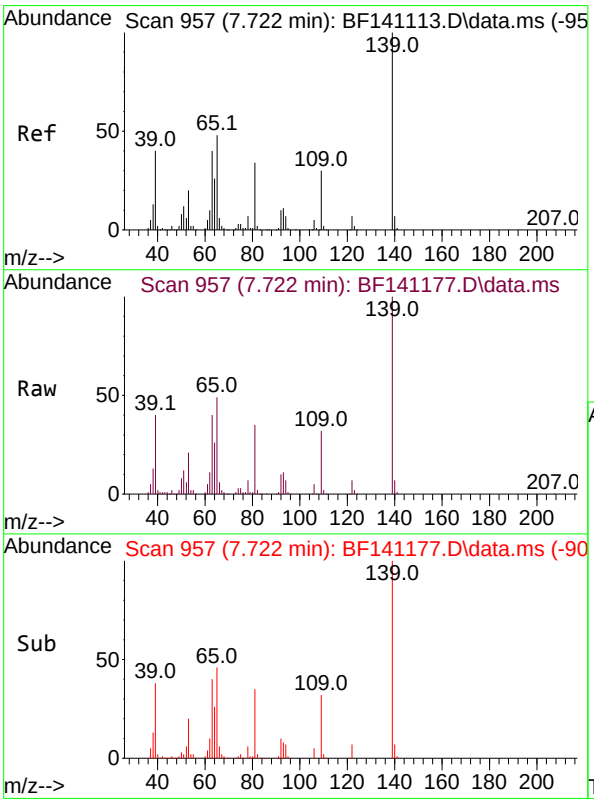
#25
Isophorone
Concen: 37.586 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 723242

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	18.6	14.2	21.2

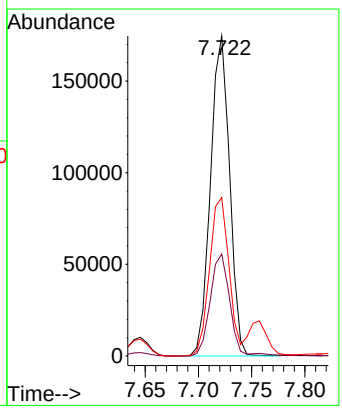


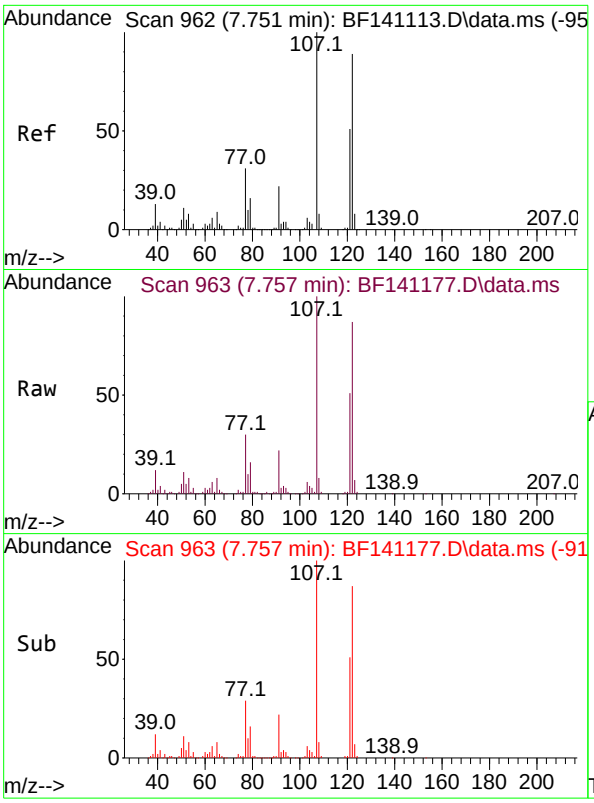


#26
2-Nitrophenol
Concen: 40.633 ng
RT: 7.722 min Scan# 957
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:139 Resp: 216906

Ion	Ratio	Lower	Upper
139	100		
109	31.9	23.8	35.6
65	49.5	38.5	57.7



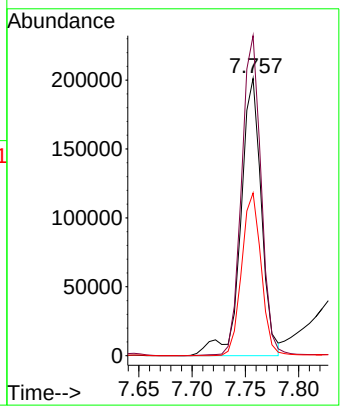


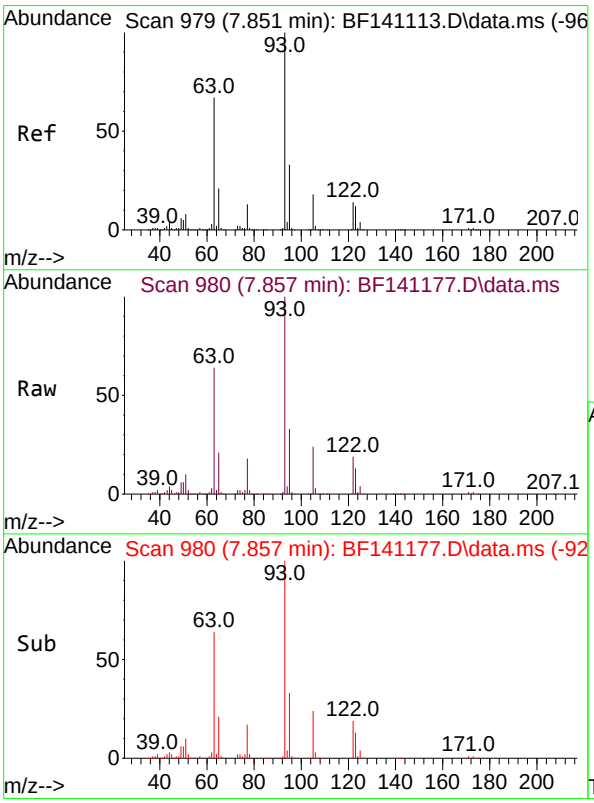
#27
2,4-Dimethylphenol
Concen: 37.716 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 271568

Ion	Ratio	Lower	Upper
122	100		
107	115.4	90.3	135.5
121	58.7	46.5	69.7

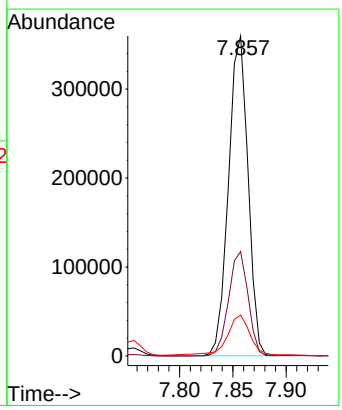


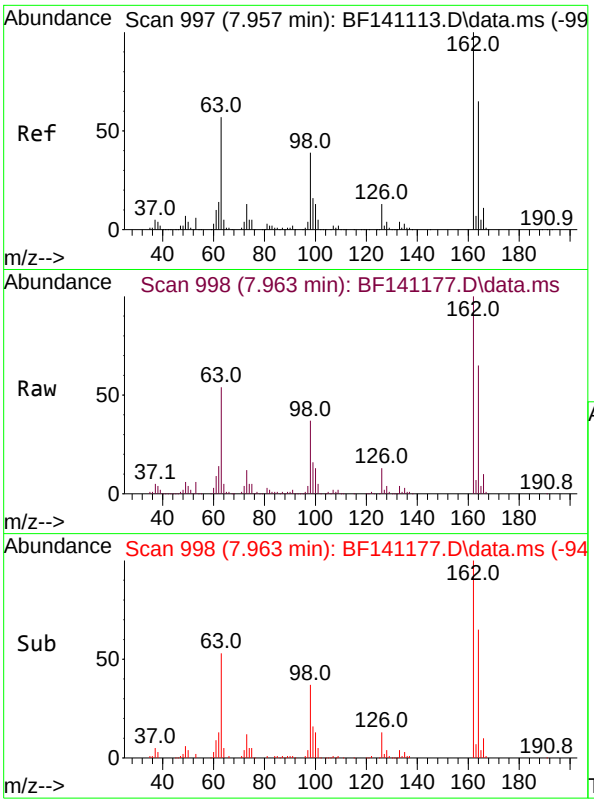


#28
bis(2-Chloroethoxy)methane
Concen: 37.902 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 93 Resp: 457717

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.2	39.4
123	12.8	10.1	15.1



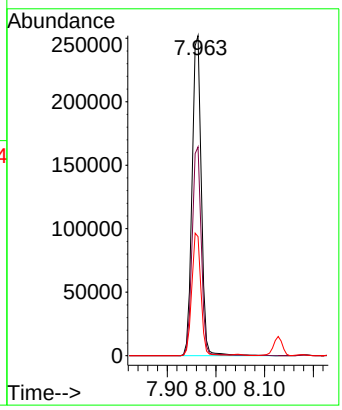


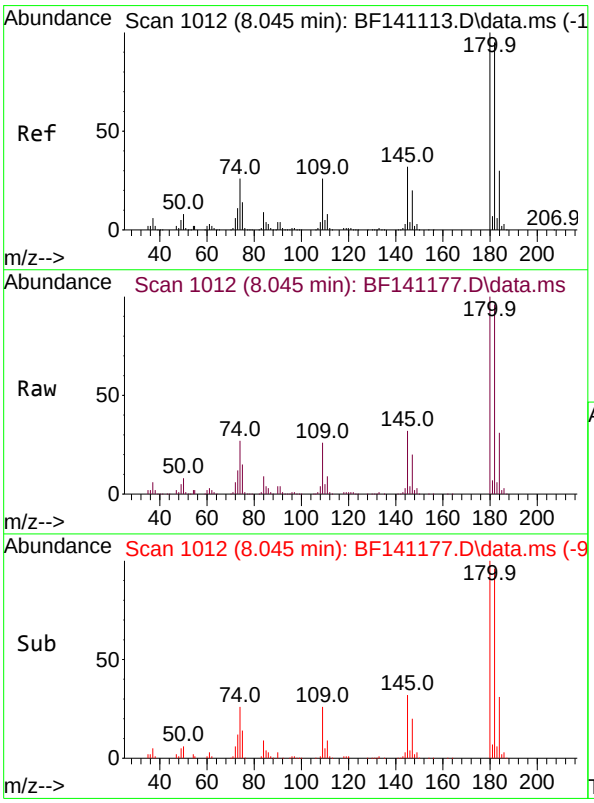
#29
2,4-Dichlorophenol
Concen: 38.956 ng
RT: 7.963 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 333142

Ion	Ratio	Lower	Upper
162	100		
164	65.2	44.5	84.5
98	37.2	18.5	58.5

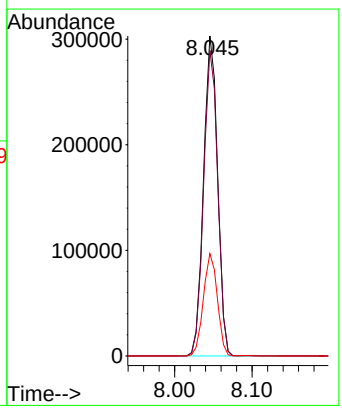


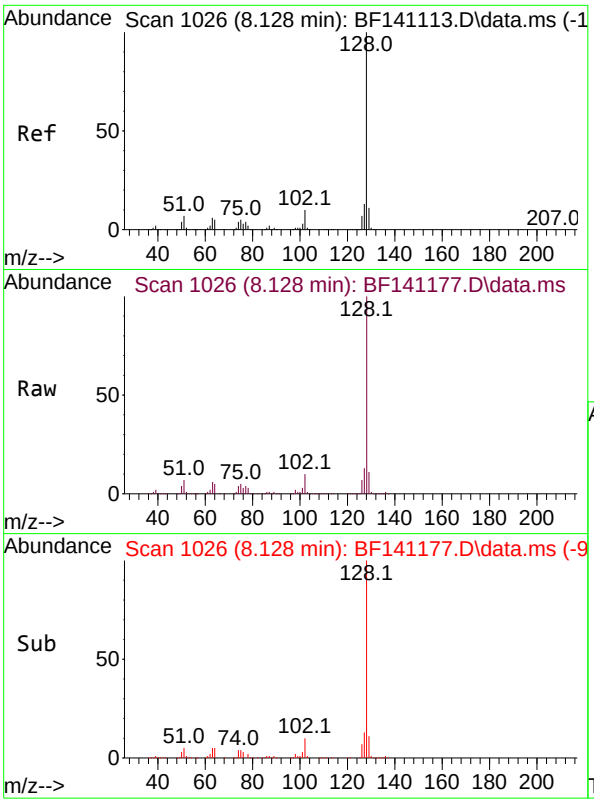


#30
1,2,4-Trichlorobenzene
Concen: 39.022 ng
RT: 8.045 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:180 Resp: 381430

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.2
145	32.0	25.3	37.9



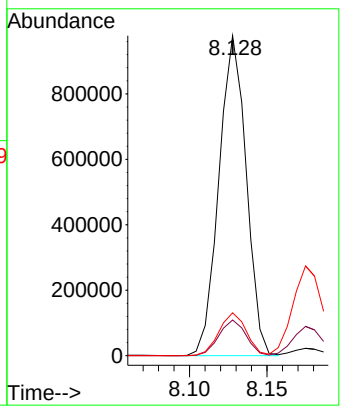


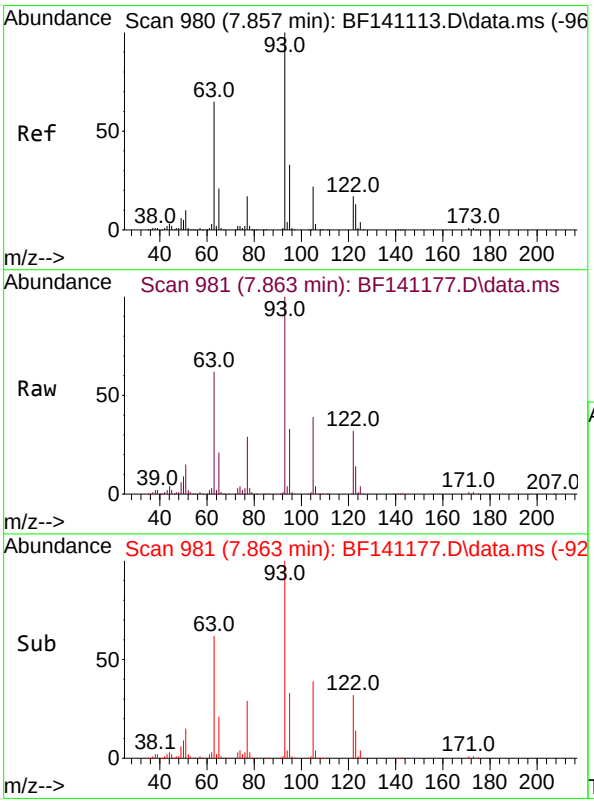
#31
Naphthalene
Concen: 38.067 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1198220

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.4	10.8	16.2

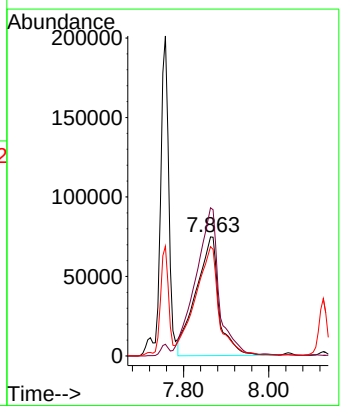


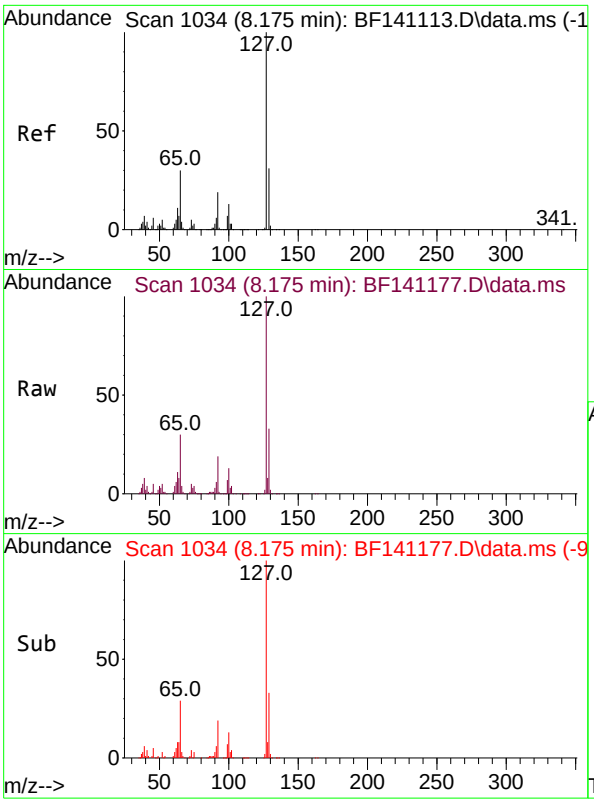


#32
Benzoic acid
Concen: 40.674 ng
RT: 7.863 min Scan# 981
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:122 Resp: 280944

Ion	Ratio	Lower	Upper
122	100		
105	124.5	105.5	145.5
77	91.8	75.1	115.1



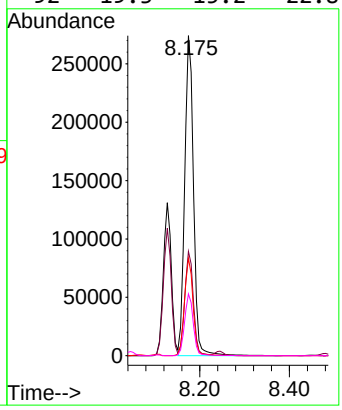


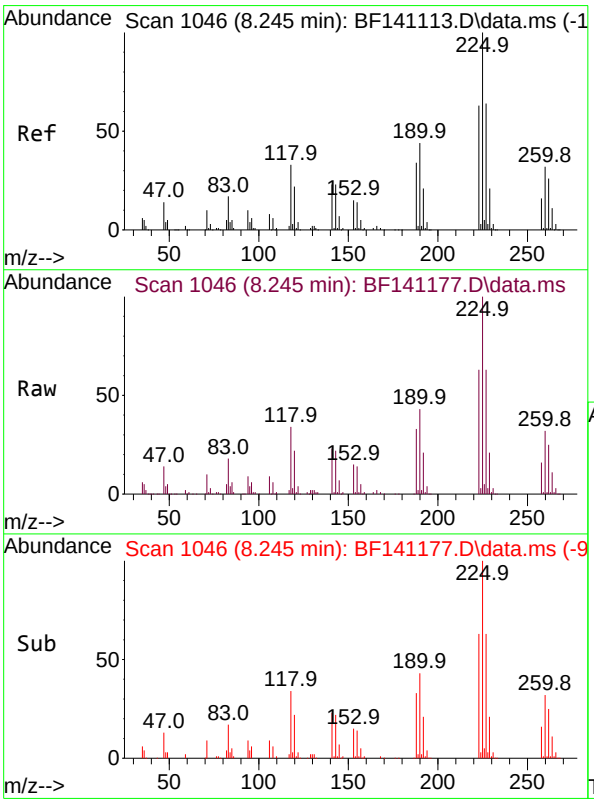
#33
4-Chloroaniline
Concen: 34.282 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 373182

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.9	38.9
65	30.4	23.8	35.8
92	19.3	15.2	22.8

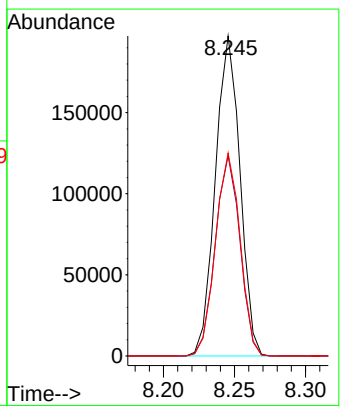


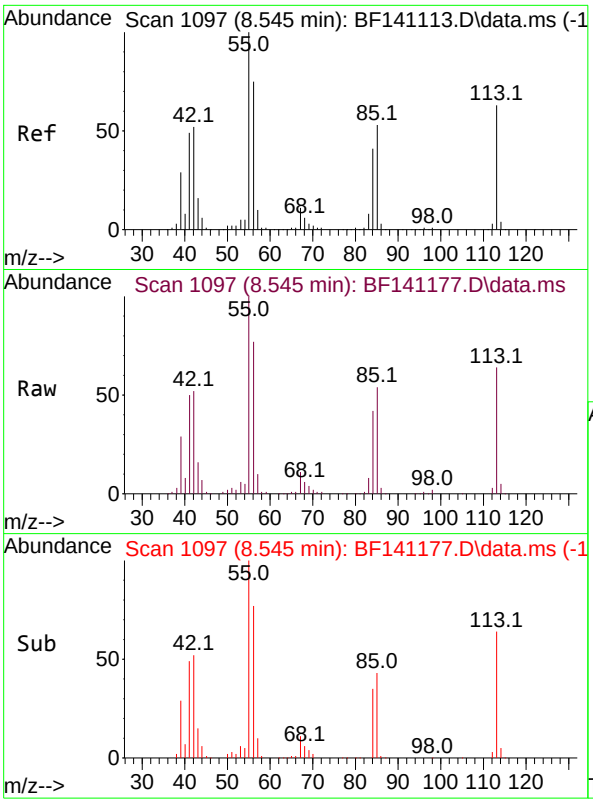


#34
Hexachlorobutadiene
Concen: 40.351 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:225 Resp: 237661

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.6	76.0
227	63.5	51.6	77.4



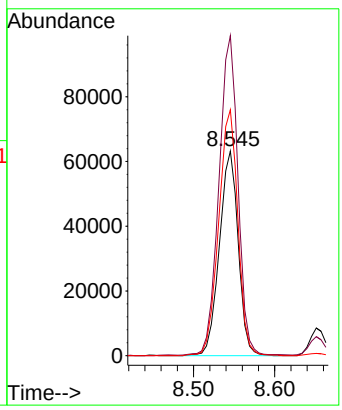


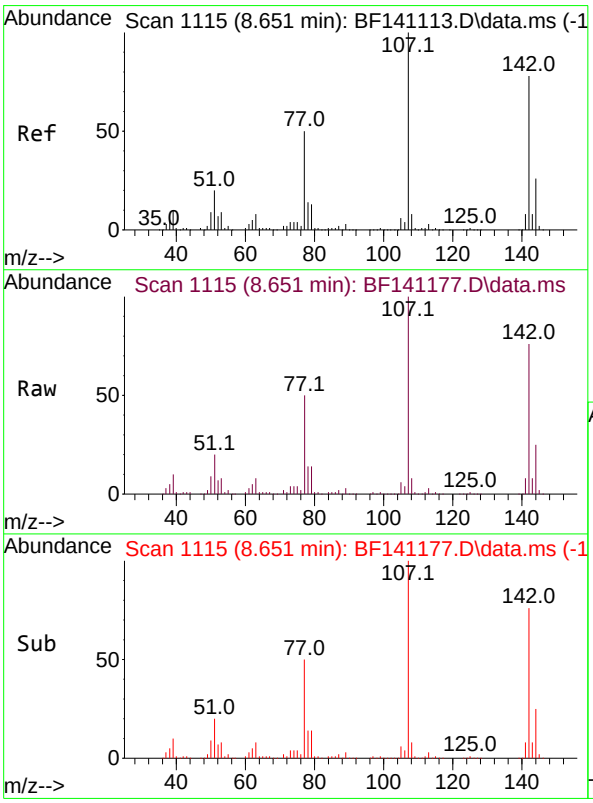
#35
Caprolactam
Concen: 36.395 ng
RT: 8.545 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 101897

Ion	Ratio	Lower	Upper
113	100		
55	156.3	139.7	179.7
56	120.2	99.4	139.4

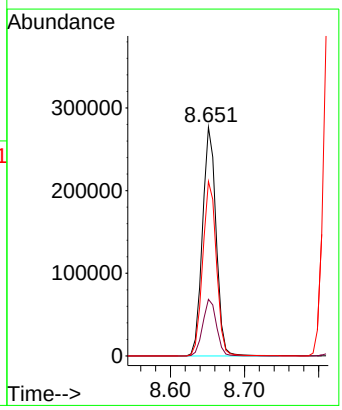


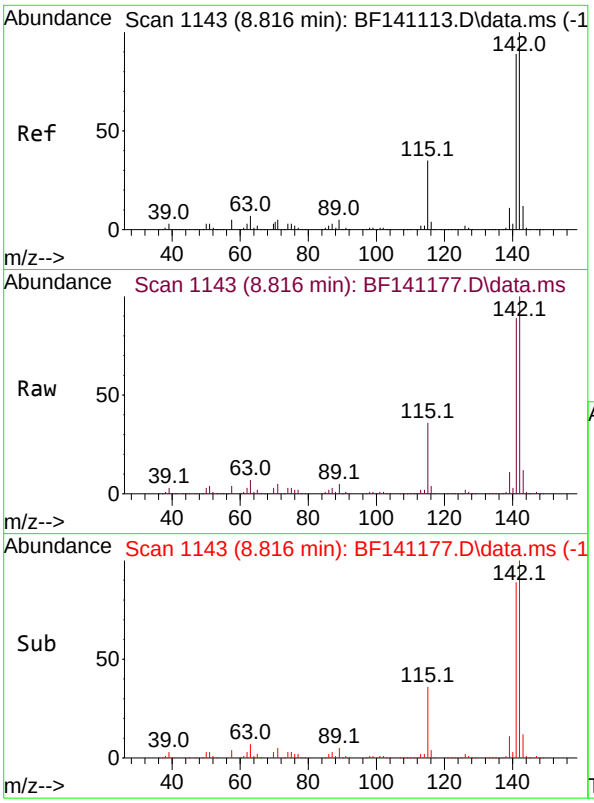


#36
4-Chloro-3-methylphenol
Concen: 37.823 ng
RT: 8.651 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:107 Resp: 353744

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.4	30.6
142	76.3	62.2	93.2



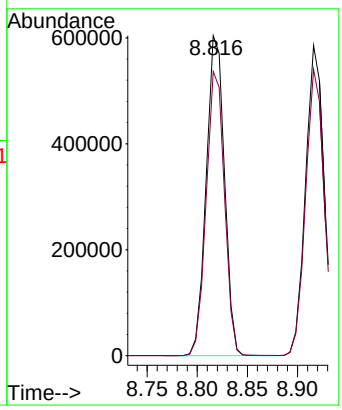


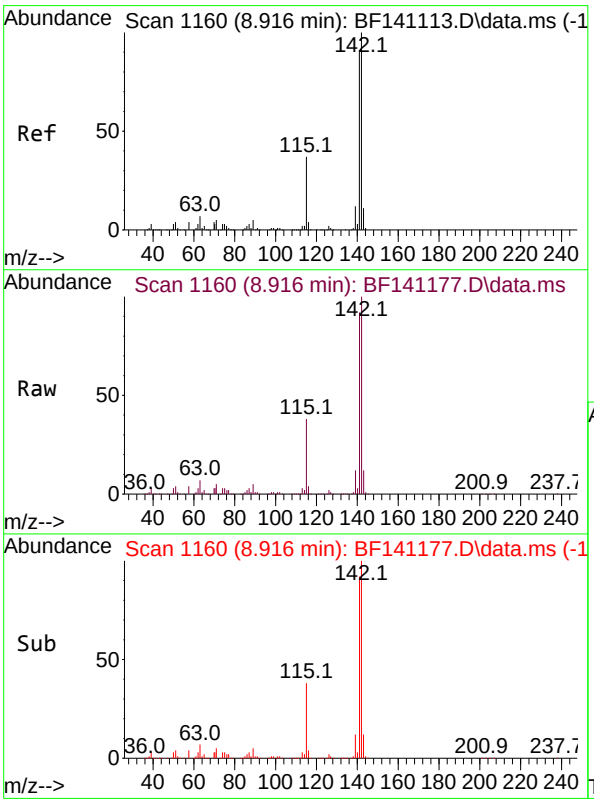
#37
2-Methylnaphthalene
Concen: 38.211 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 766427

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.3	106.9

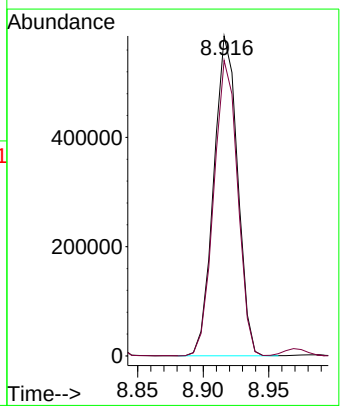


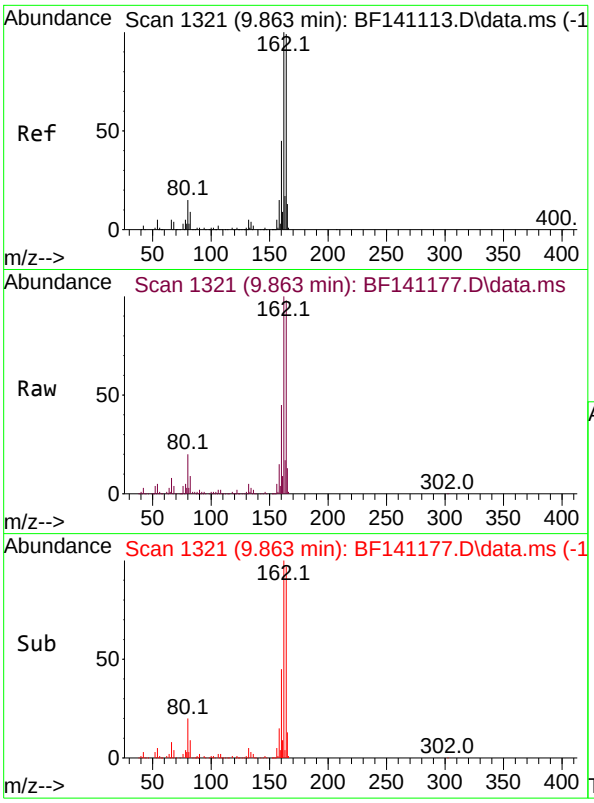


#38
1-Methylnaphthalene
Concen: 37.443 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:142 Resp: 740167

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



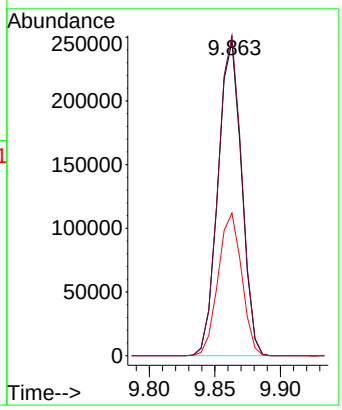


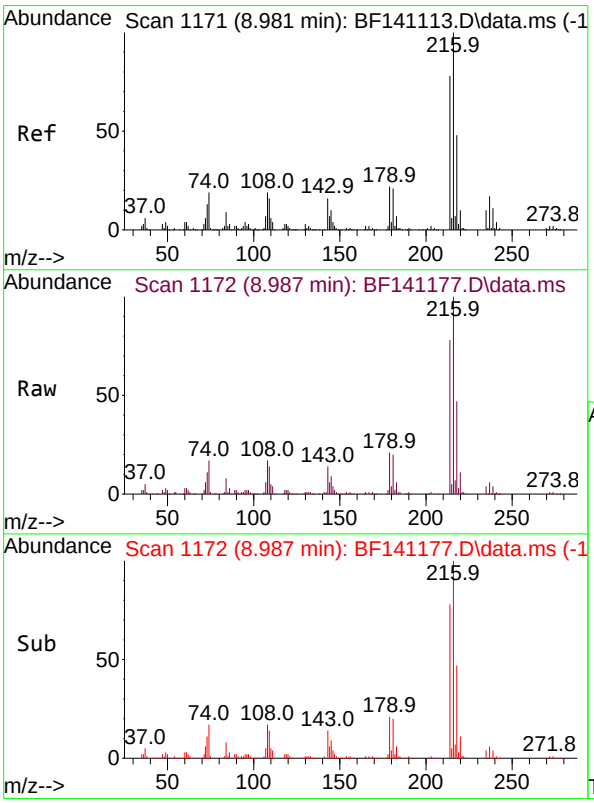
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 306781

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.4
160	45.4	36.1	54.1

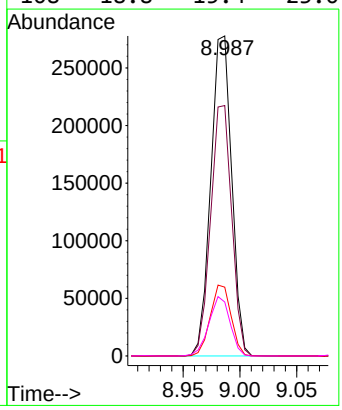


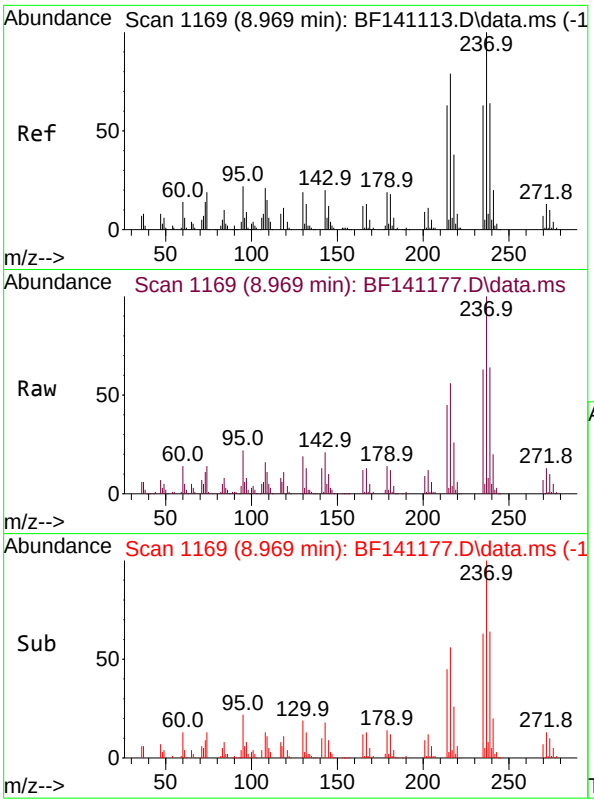


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.428 ng
RT: 8.987 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:216 Resp: 355979

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.6	94.0
179	22.0	17.7	26.5
108	18.8	15.4	23.0



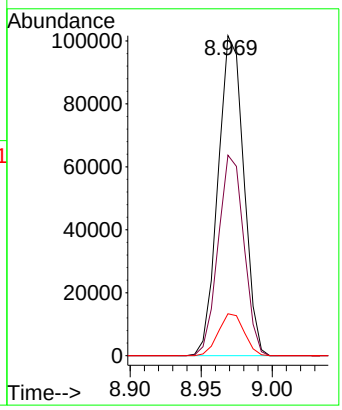


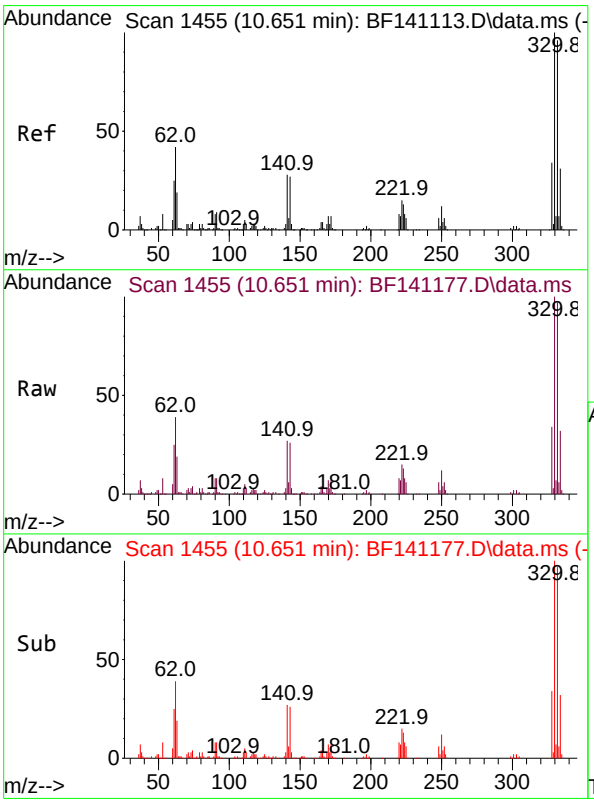
#41
Hexachlorocyclopentadiene
Concen: 44.331 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 127706

Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.0	83.0
272	13.1	0.0	33.0

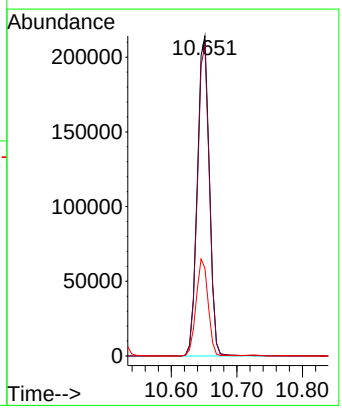


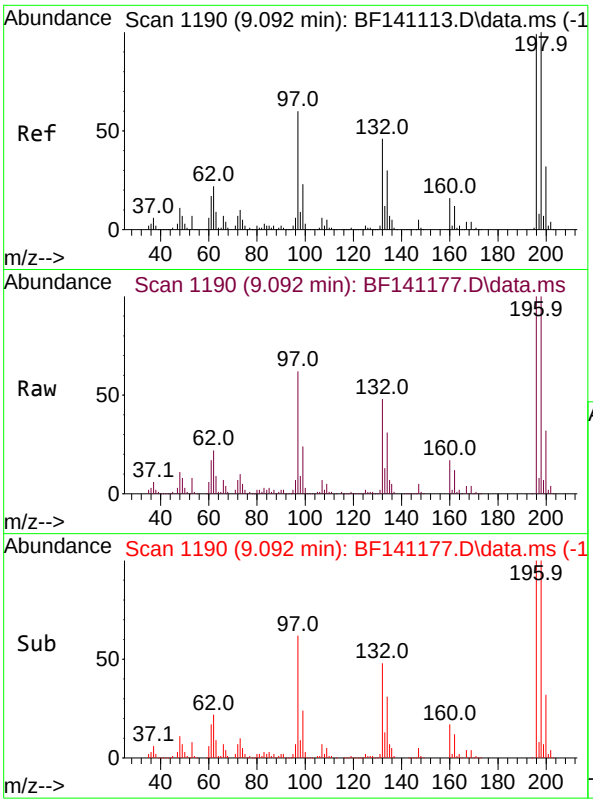


#42
2,4,6-Tribromophenol
Concen: 78.336 ng
RT: 10.651 min Scan# 1455
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:330 Resp: 273830

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.9	115.3
141	30.1	25.2	37.8



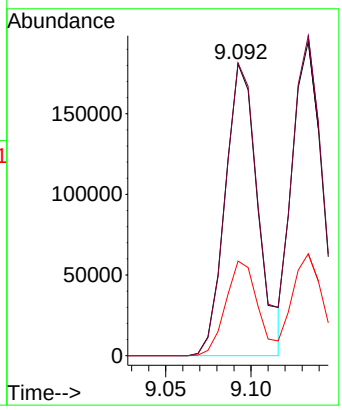


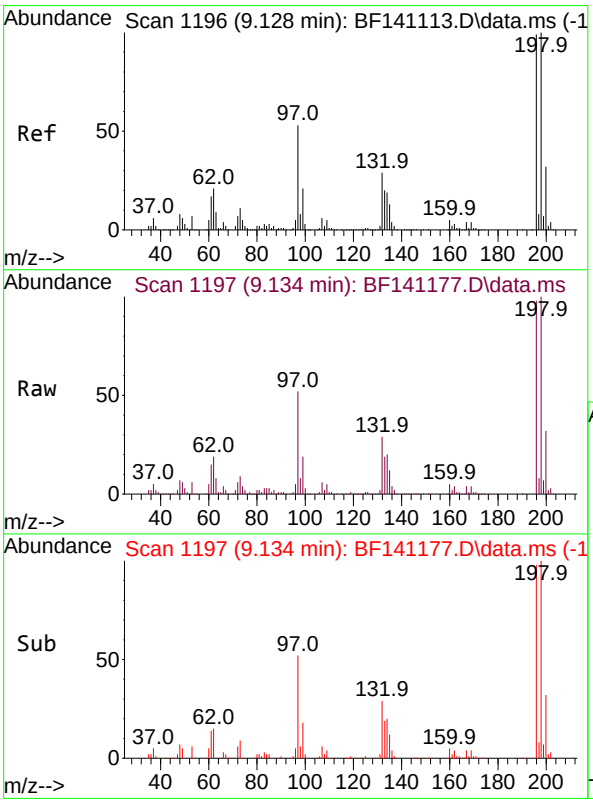
#43
2,4,6-Trichlorophenol
Concen: 40.545 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 240779

Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.8	121.2
200	32.4	25.7	38.5

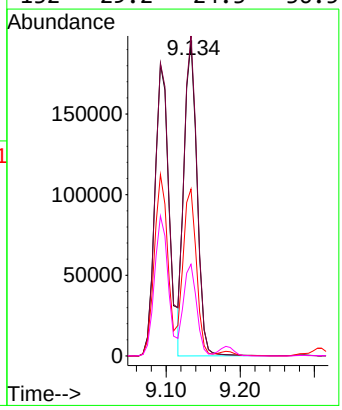


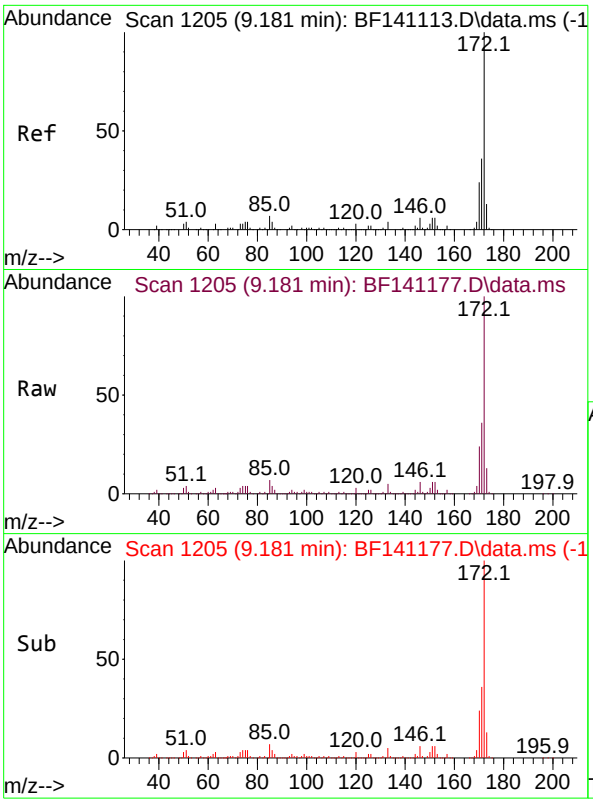


#44
2,4,5-Trichlorophenol
Concen: 38.100 ng
RT: 9.134 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:196 Resp: 238958

Ion	Ratio	Lower	Upper
196	100		
198	101.8	80.6	120.8
97	53.1	43.1	64.7
132	29.2	24.3	36.5



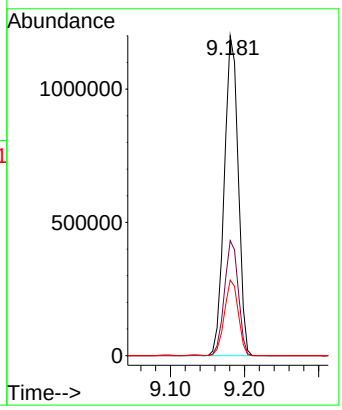


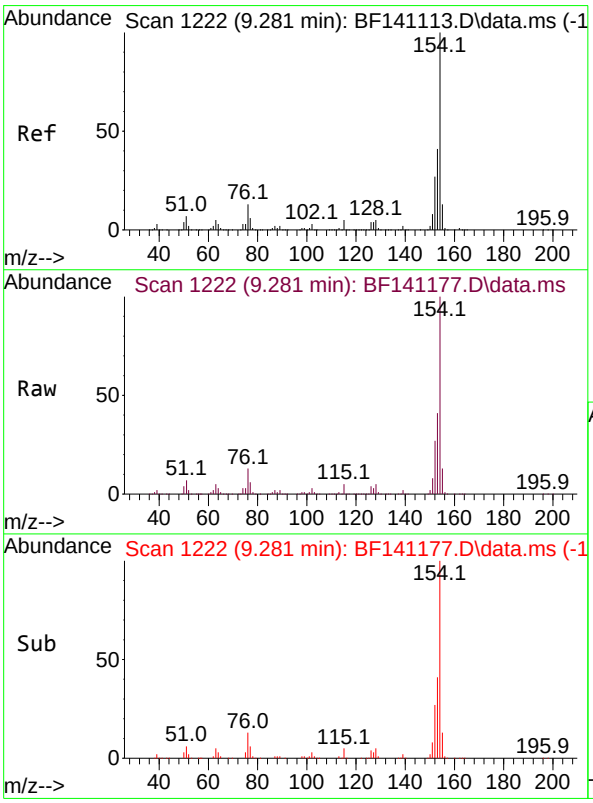
#45
2-Fluorobiphenyl
Concen: 78.008 ng
RT: 9.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 1567171

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.7	43.1
170	23.6	19.0	28.6

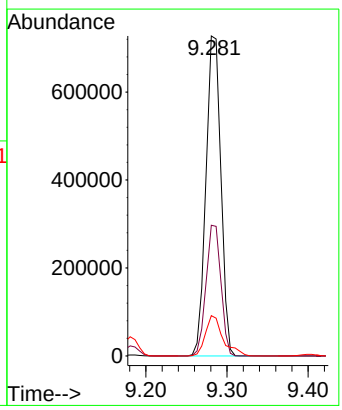


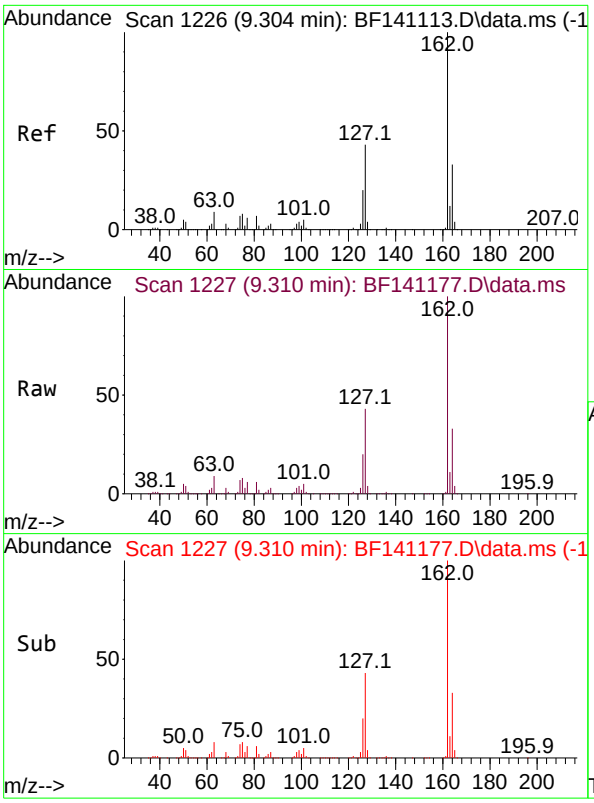


#46
1,1'-Biphenyl
Concen: 38.975 ng
RT: 9.281 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:154 Resp: 928568

Ion	Ratio	Lower	Upper
154	100		
153	40.9	20.7	60.7
76	12.6	0.0	33.1



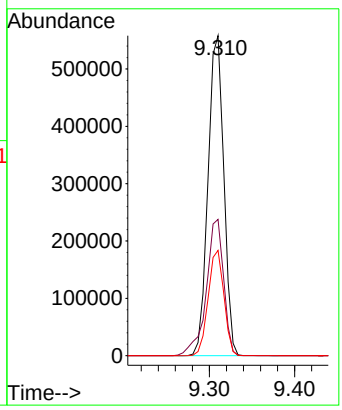


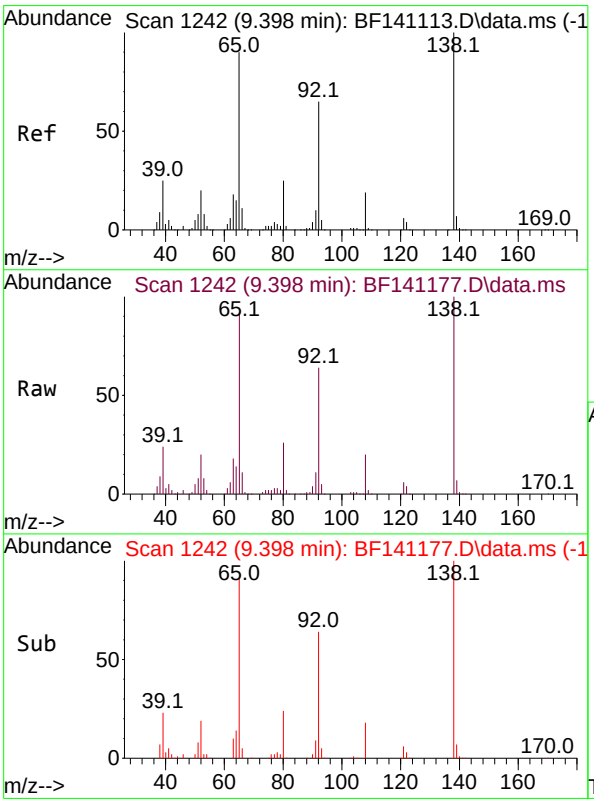
#47
2-Chloronaphthalene
Concen: 38.731 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 718713

Ion	Ratio	Lower	Upper
162	100		
127	42.6	34.6	51.8
164	32.9	26.5	39.7

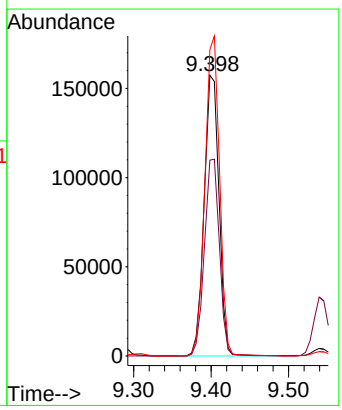


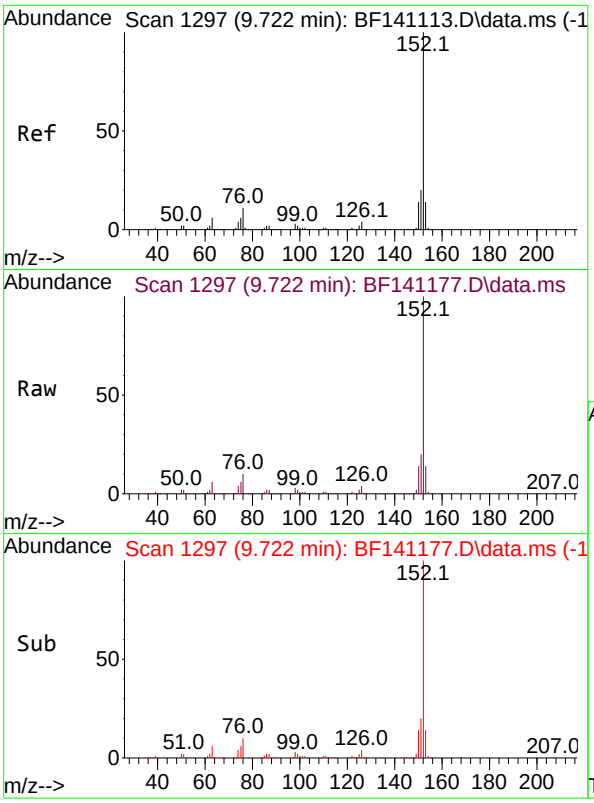


#48
2-Nitroaniline
Concen: 38.092 ng
RT: 9.398 min Scan# 1242
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion: 65 Resp: 209535

Ion	Ratio	Lower	Upper
65	100		
92	69.8	58.3	87.5
138	109.2	89.1	133.7



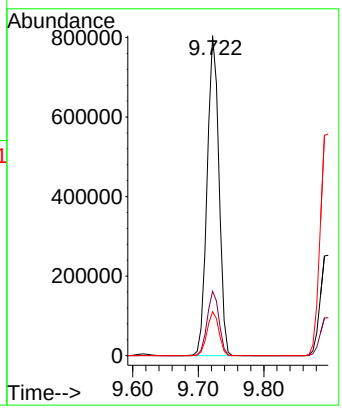


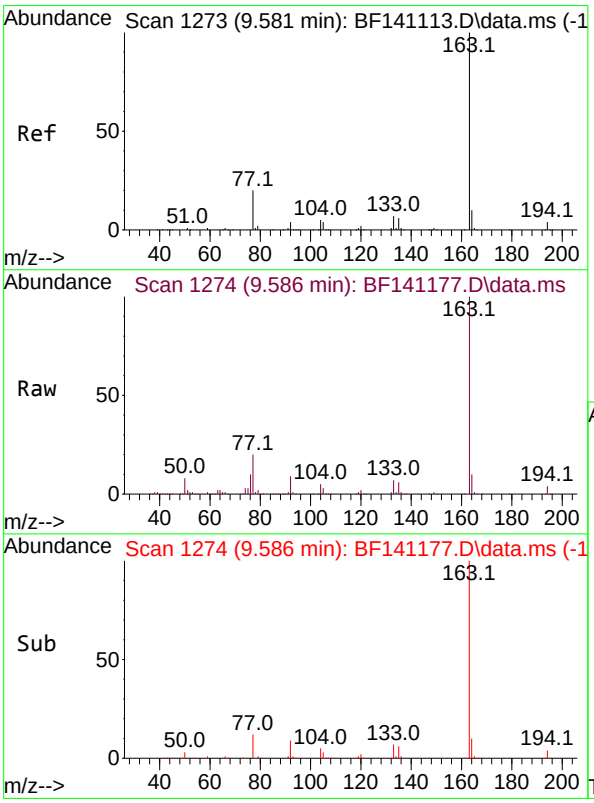
#49
Acenaphthylene
Concen: 38.028 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1008177

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.8	11.1	16.7

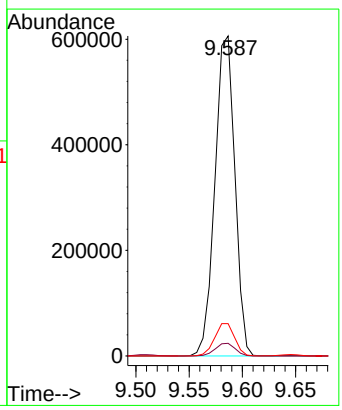


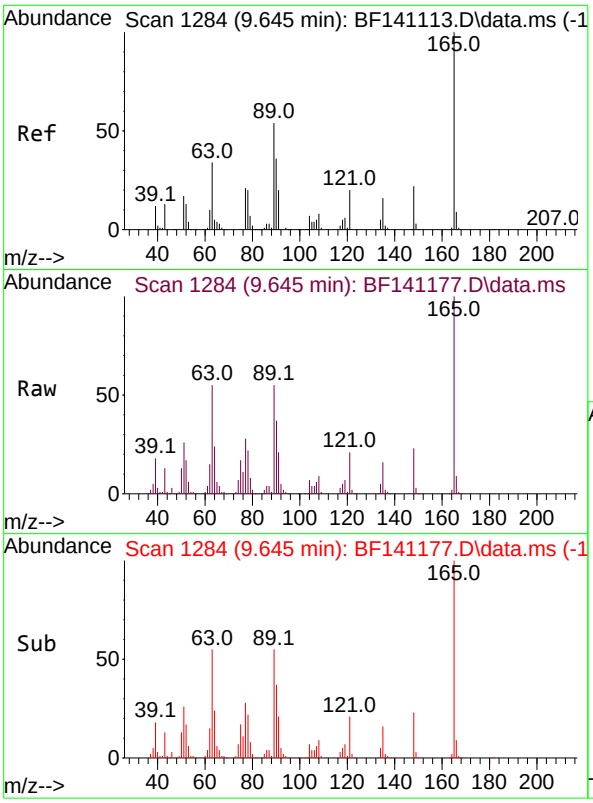


#50
Dimethylphthalate
Concen: 38.279 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:163 Resp: 788370

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.1	8.2	12.4



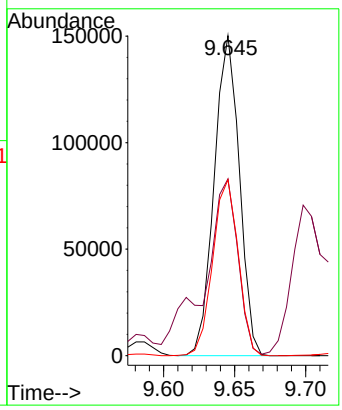


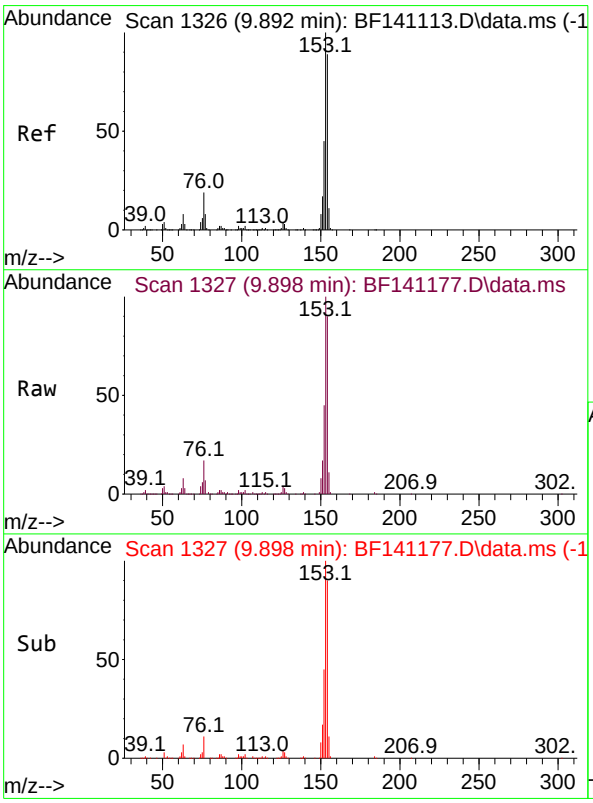
#51
2,6-Dinitrotoluene
Concen: 38.603 ng
RT: 9.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 184885

Ion	Ratio	Lower	Upper
165	100		
63	55.3	42.3	63.5
89	55.0	43.1	64.7

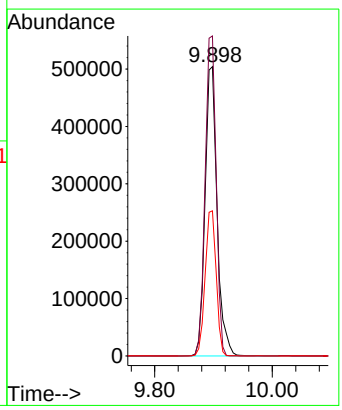


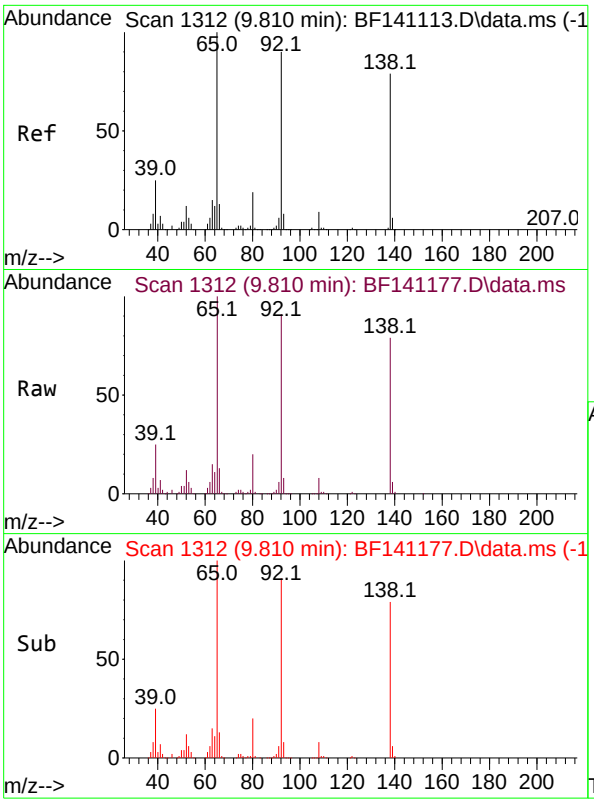


#52
Acenaphthene
Concen: 38.818 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:154 Resp: 719005

Ion	Ratio	Lower	Upper
154	100		
153	110.6	89.8	134.6
152	50.1	40.8	61.2



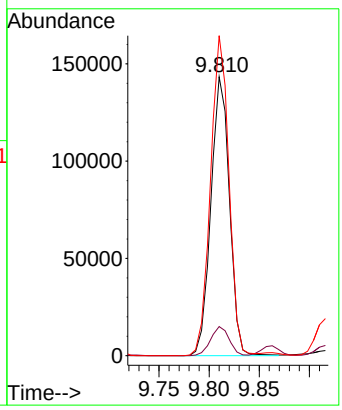


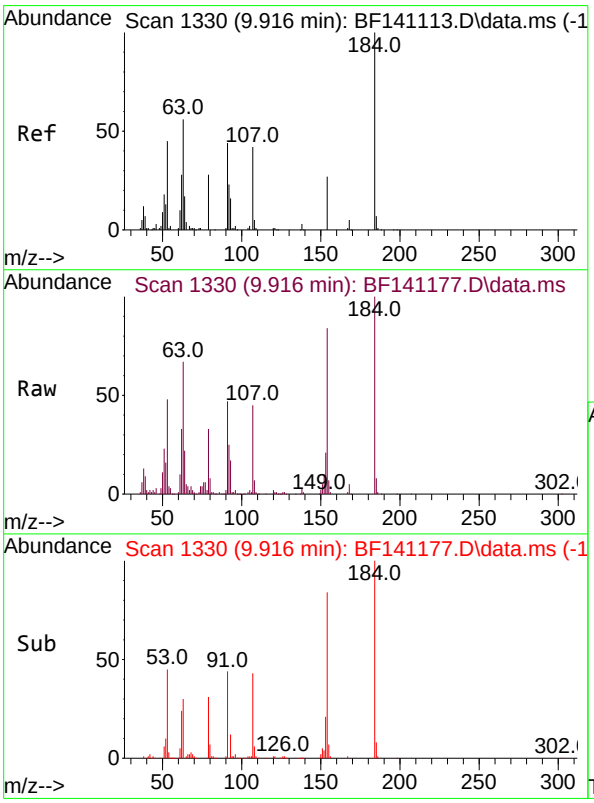
#53
3-Nitroaniline
Concen: 37.891 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 184415

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.8	13.2
92	114.7	91.3	136.9

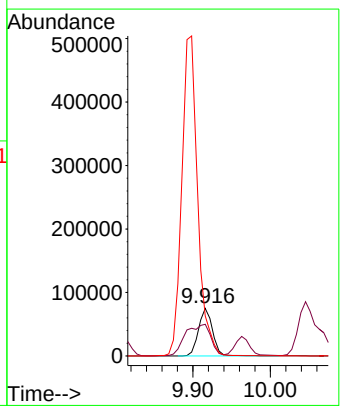


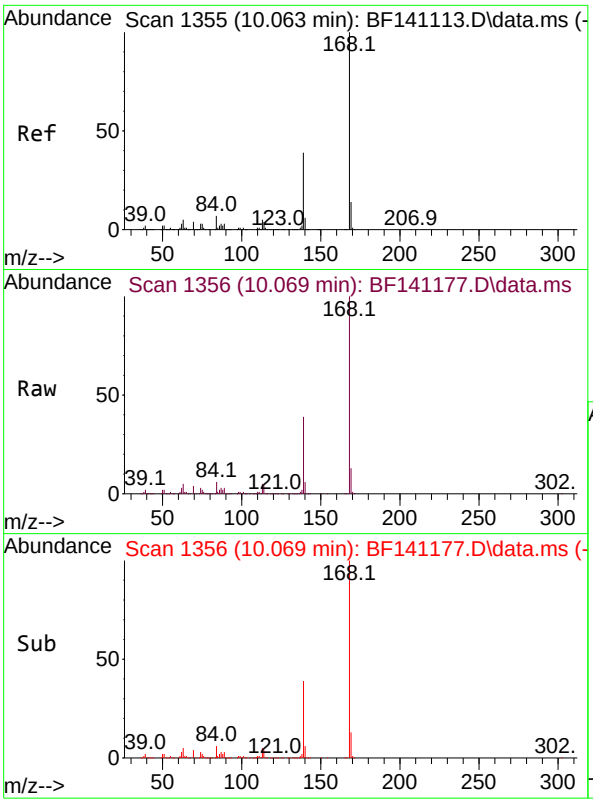


#54
2,4-Dinitrophenol
Concen: 41.509 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:184 Resp: 94494

Ion	Ratio	Lower	Upper
184	100		
63	66.6	48.7	73.1
154	84.2	57.1	85.7



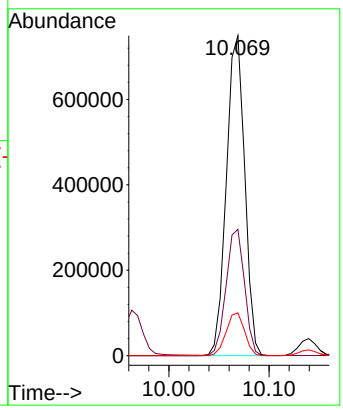


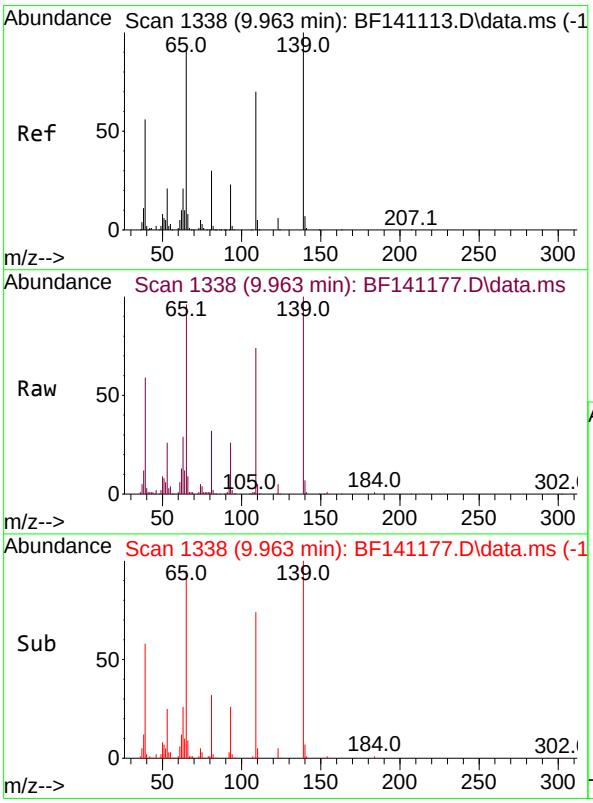
#55
Dibenzofuran
Concen: 37.820 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 952828

Ion	Ratio	Lower	Upper
168	100		
139	39.5	31.4	47.0
169	13.4	10.9	16.3

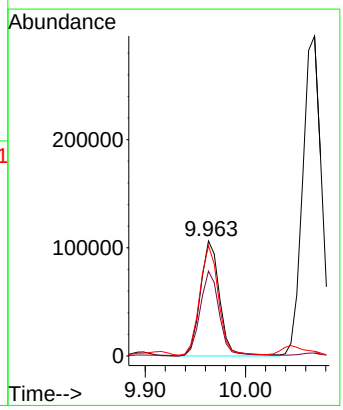


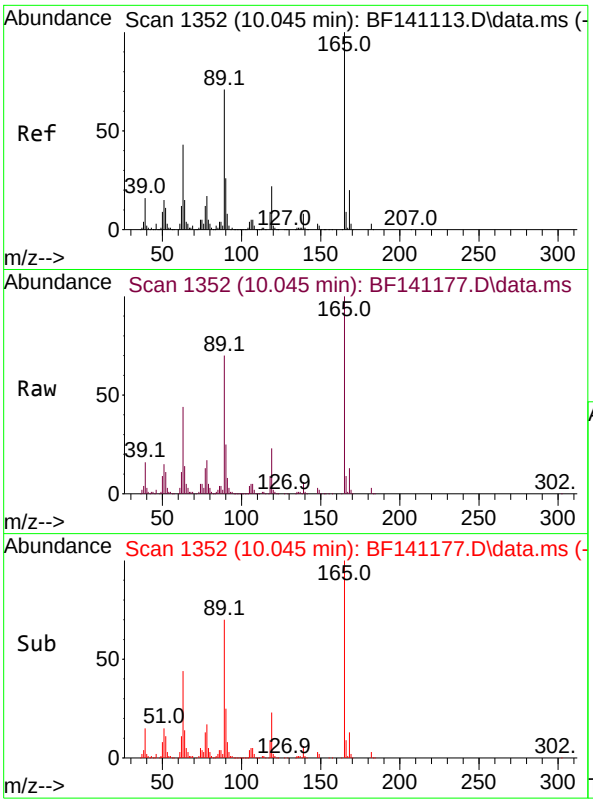


#56
4-Nitrophenol
Concen: 37.319 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:139 Resp: 142248

Ion	Ratio	Lower	Upper
139	100		
109	73.7	50.2	90.2
65	96.0	72.1	112.1



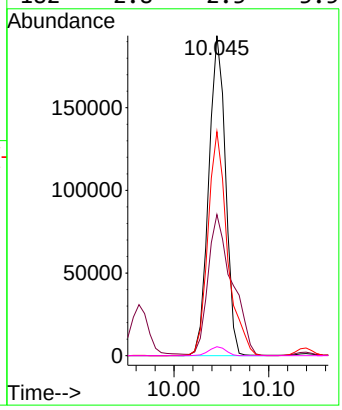


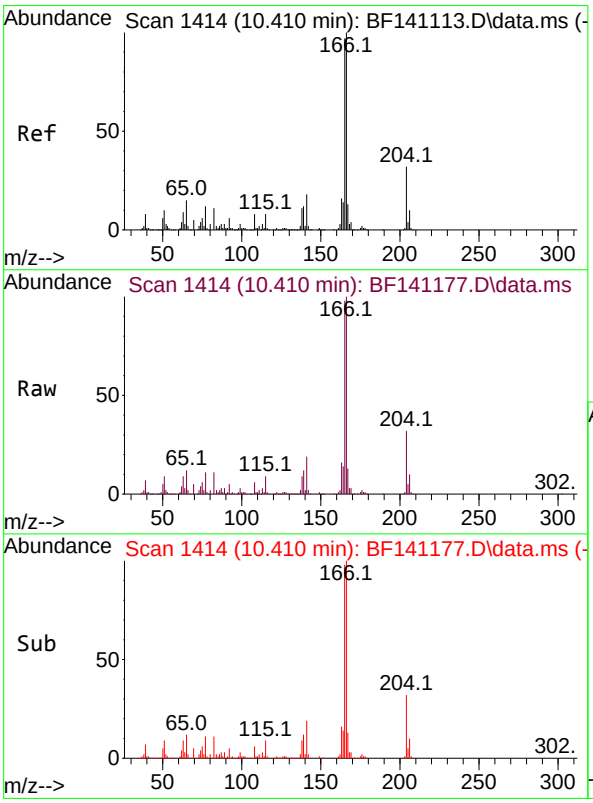
#57
2,4-Dinitrotoluene
Concen: 38.724 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 239012

Ion	Ratio	Lower	Upper
165	100		
63	44.1	35.0	52.4
89	70.0	56.7	85.1
182	2.8	2.3	3.5

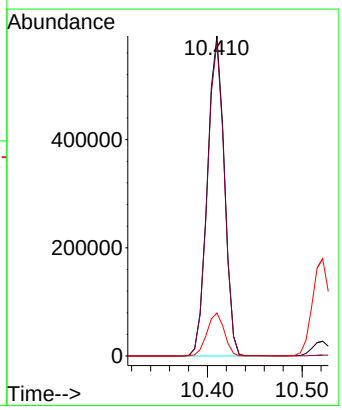


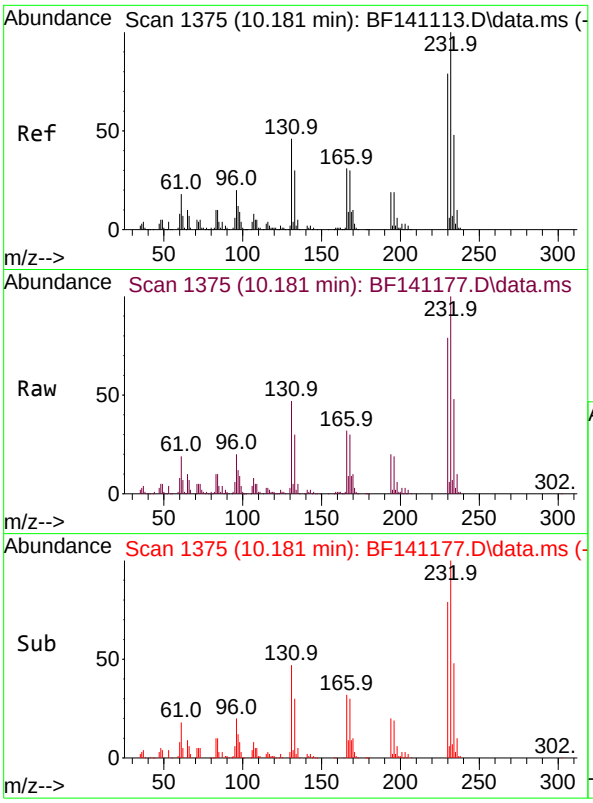


#58
Fluorene
Concen: 37.619 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:166 Resp: 736330

Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.5	10.8	16.2



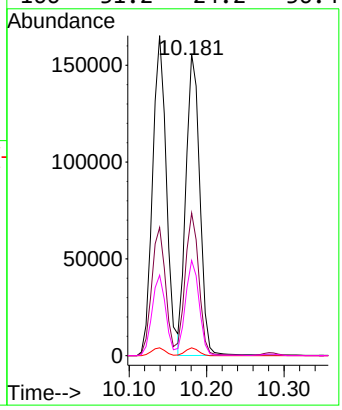


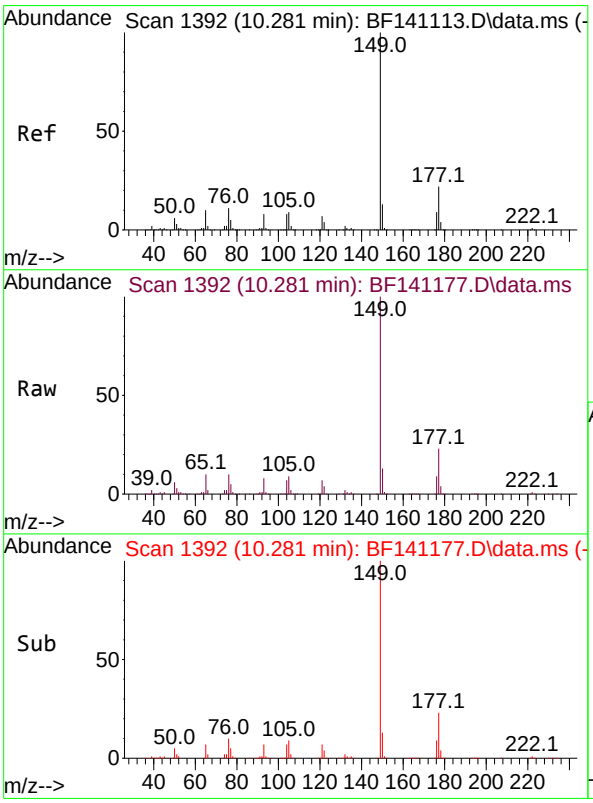
#59
2,3,4,6-Tetrachlorophenol
Concen: 37.093 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 193373

Ion	Ratio	Lower	Upper
232	100		
131	47.4	36.2	54.4
130	2.5	2.0	3.0
166	31.2	24.2	36.4

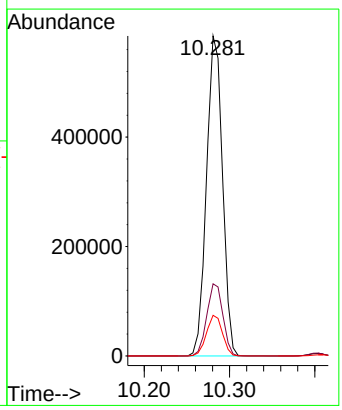


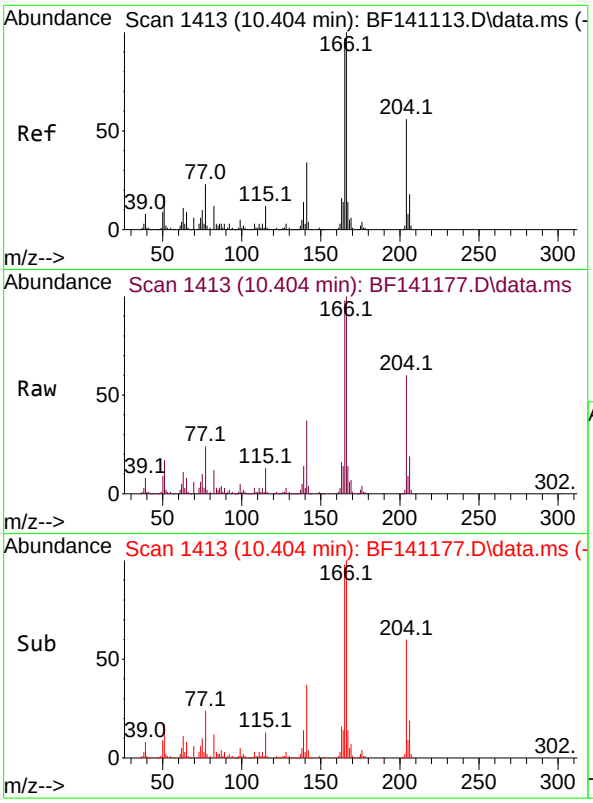


#60
Diethylphthalate
Concen: 37.910 ng
RT: 10.281 min Scan# 1392
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:149 Resp: 762235

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.9	26.9
150	12.7	10.2	15.2



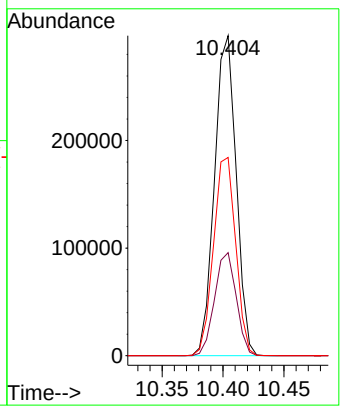


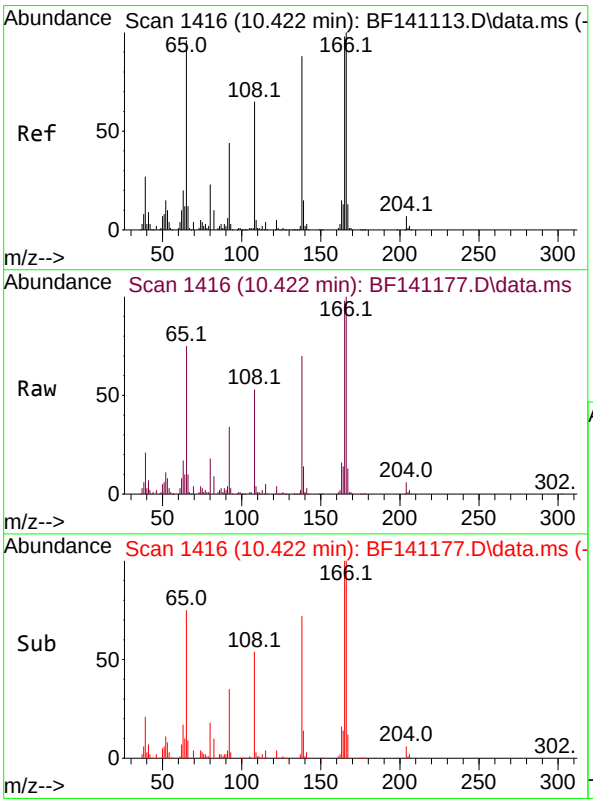
#61
4-Chlorophenyl-phenylether
Concen: 38.643 ng
RT: 10.404 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 368642

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.9	38.9
141	62.0	49.1	73.7

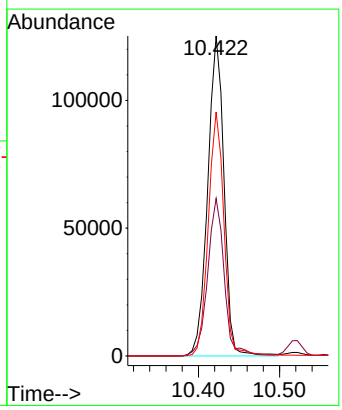


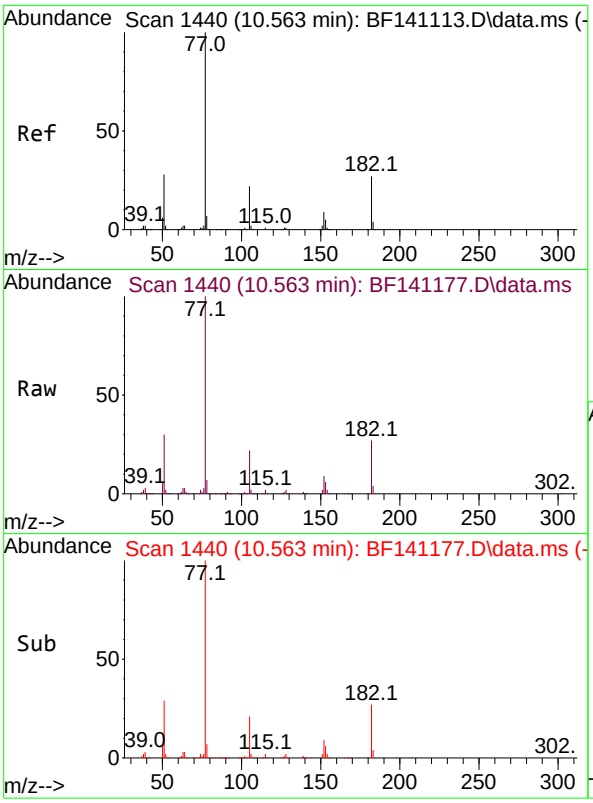


#62
4-Nitroaniline
Concen: 36.544 ng
RT: 10.422 min Scan# 1416
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:138 Resp: 174083

Ion	Ratio	Lower	Upper
138	100		
92	49.2	29.4	69.4
108	76.2	53.7	93.7



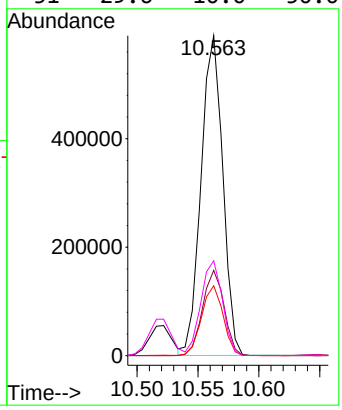


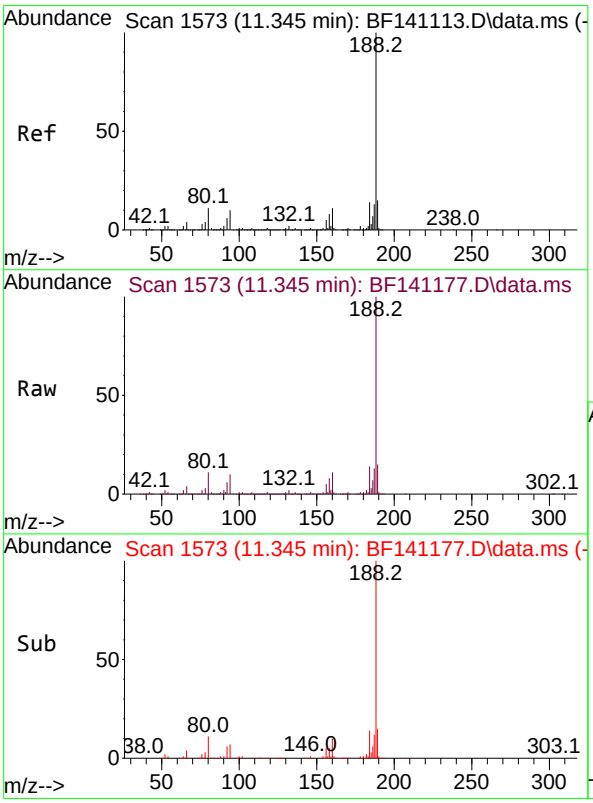
#63
Azobenzene
Concen: 36.811 ng
RT: 10.563 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 730307

Ion	Ratio	Lower	Upper
77	100		
182	26.7	6.1	46.1
105	21.8	2.1	42.1
51	29.6	10.0	50.0

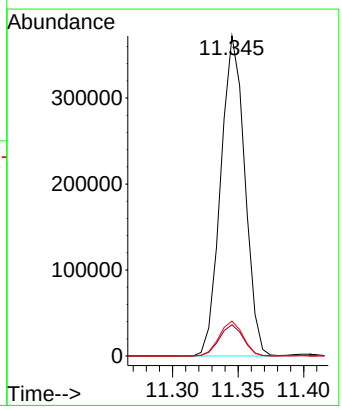


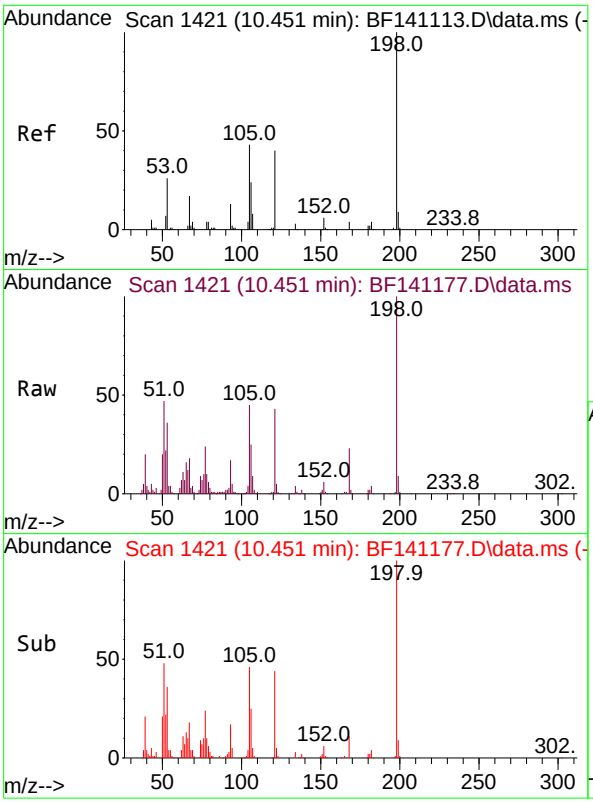


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:188 Resp: 475484

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.3	12.5
80	10.9	9.0	13.4



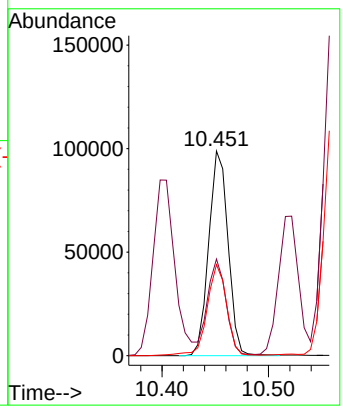


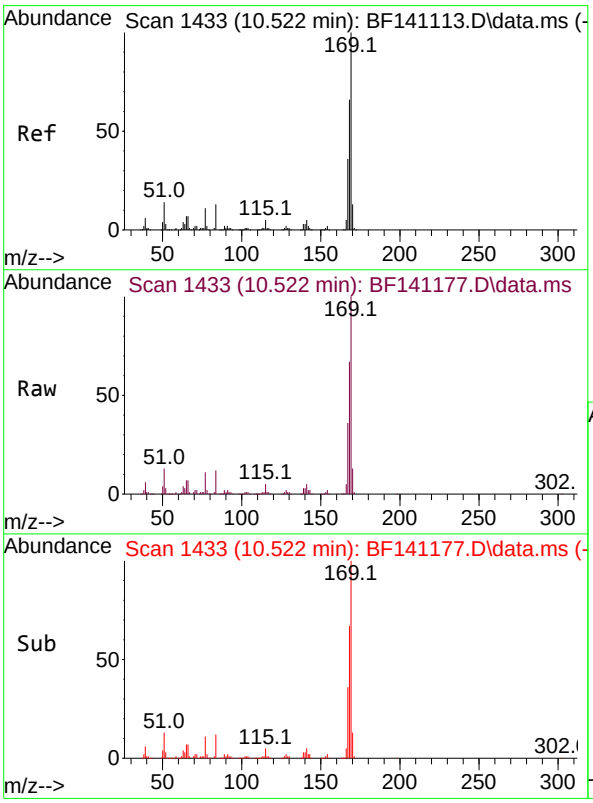
#65
4,6-Dinitro-2-methylphenol
Concen: 45.140 ng
RT: 10.451 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 124375

Ion	Ratio	Lower	Upper
198	100		
51	47.2	27.1	67.1
105	44.5	24.2	64.2

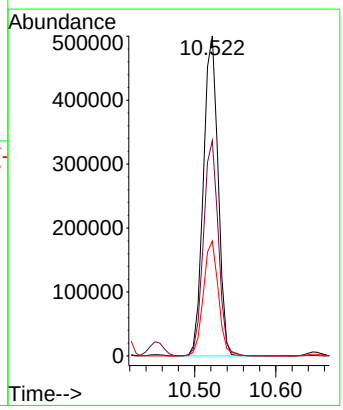


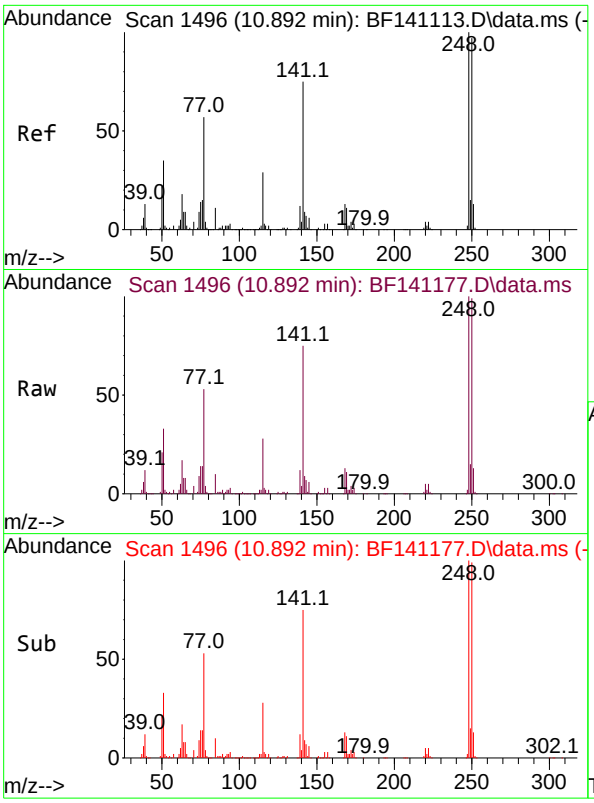


#66
n-Nitrosodiphenylamine
Concen: 40.942 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:169 Resp: 627905

Ion	Ratio	Lower	Upper
169	100		
168	67.3	52.5	78.7
167	36.0	28.9	43.3



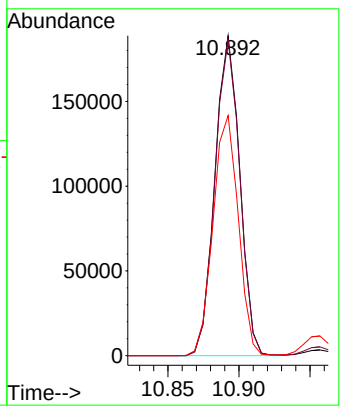


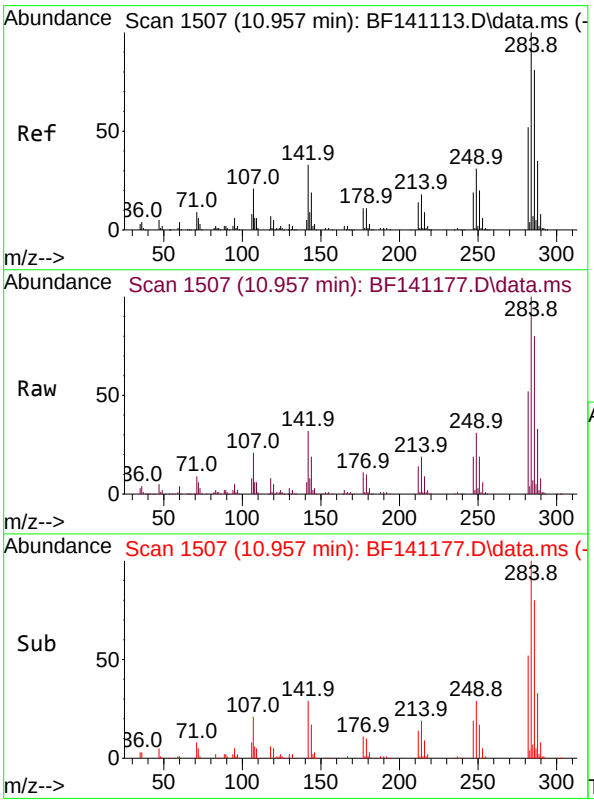
#67
4-Bromophenyl-phenylether
Concen: 42.040 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 230138

Ion	Ratio	Lower	Upper
248	100		
250	98.7	77.9	116.9
141	75.1	59.9	89.9

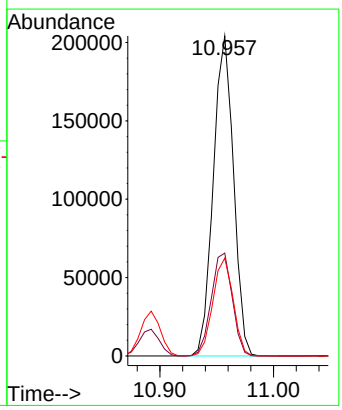


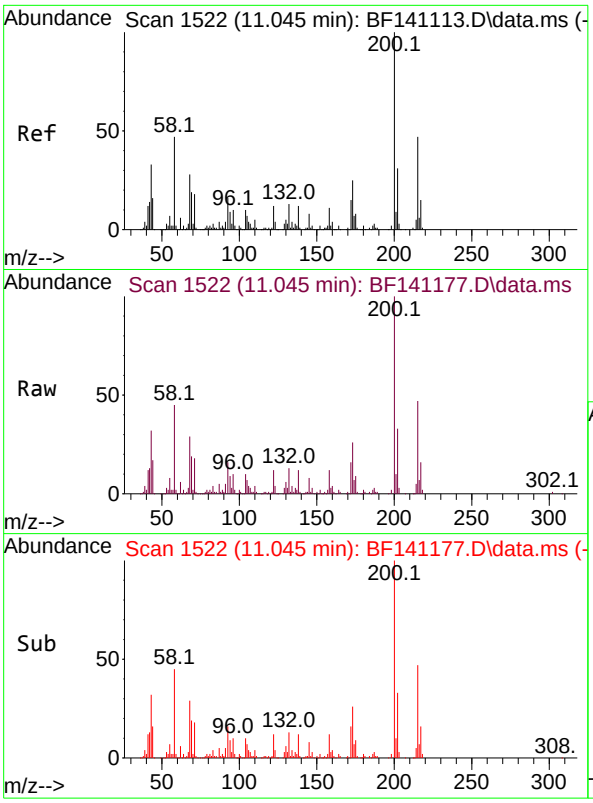


#68
Hexachlorobenzene
Concen: 41.461 ng
RT: 10.957 min Scan# 1507
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:284 Resp: 252658

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.3	39.5
249	30.5	24.9	37.3



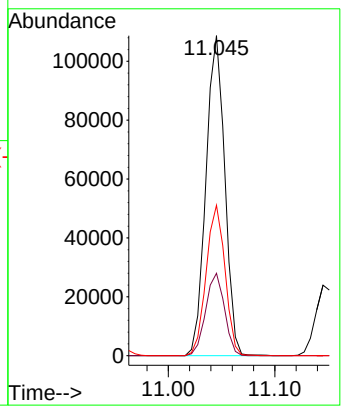


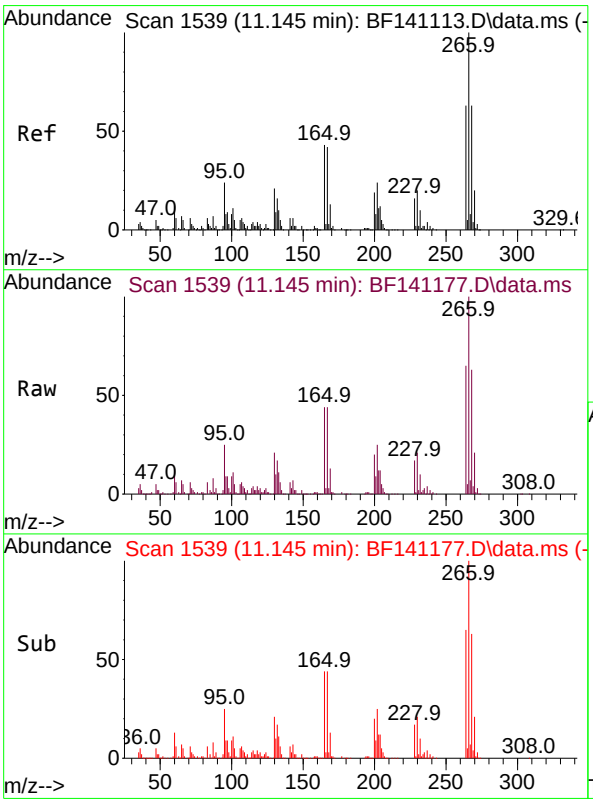
#69
Atrazine
Concen: 32.424 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 133894

Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.4	45.4
215	47.0	26.6	66.6

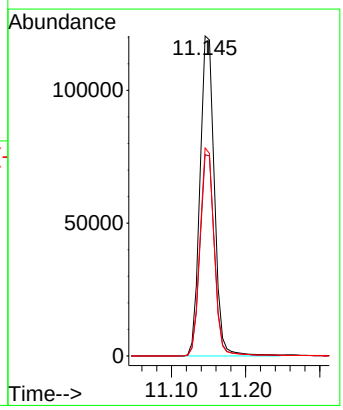


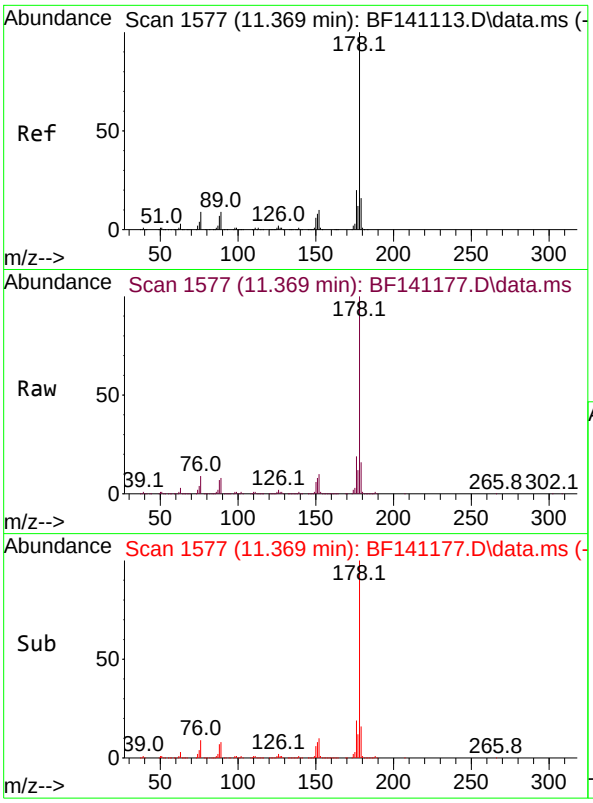


#70
Pentachlorophenol
Concen: 41.683 ng
RT: 11.145 min Scan# 1539
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:266 Resp: 162667

Ion	Ratio	Lower	Upper
266	100		
268	62.9	50.4	75.6
264	65.0	50.2	75.2



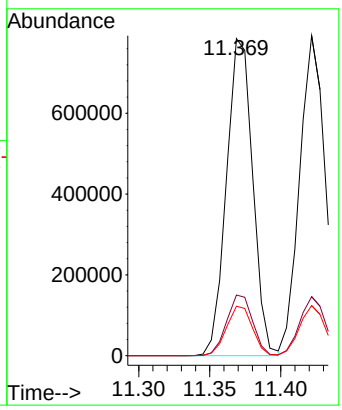


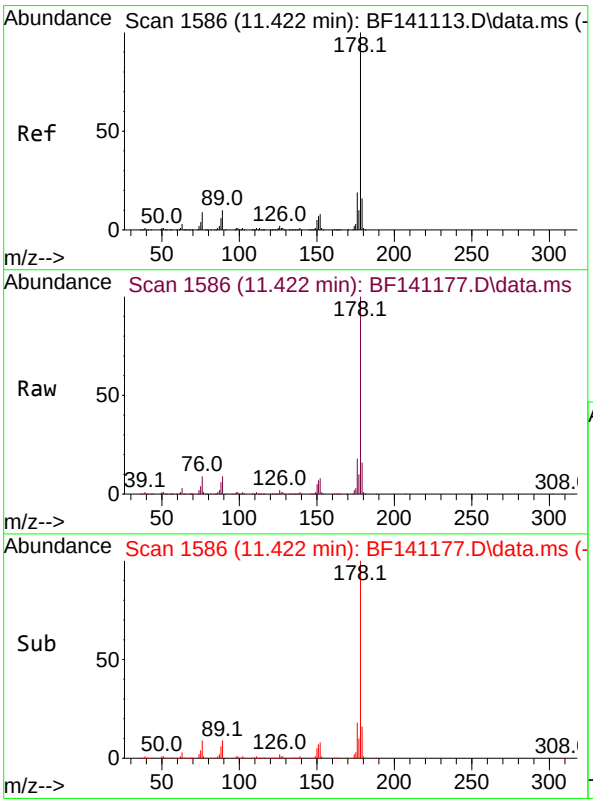
#71
Phenanthrene
Concen: 39.531 ng
RT: 11.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1009123

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.7	23.5
179	15.6	12.6	19.0

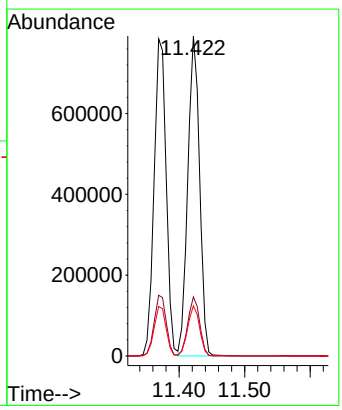


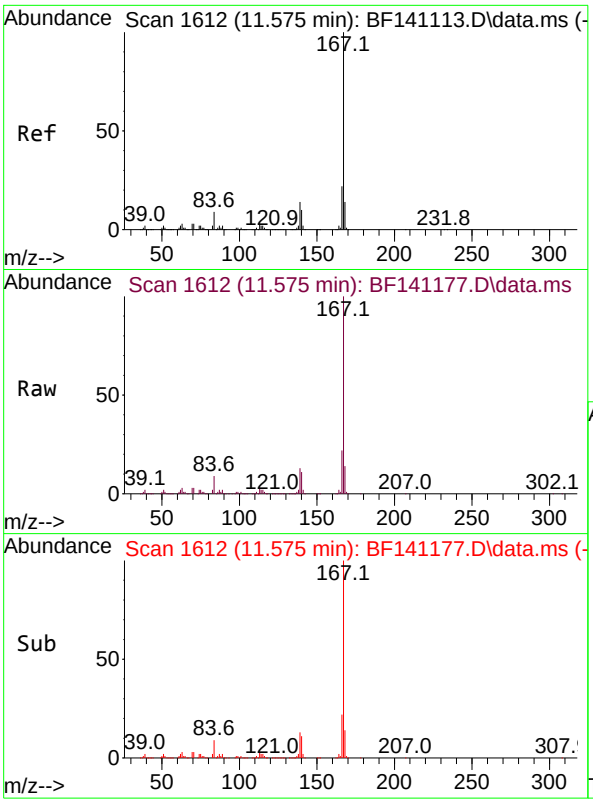


#72
Anthracene
Concen: 39.754 ng
RT: 11.422 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:178 Resp: 986753

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.9	22.3
179	15.7	12.6	19.0



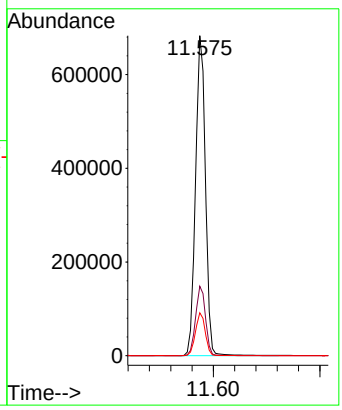


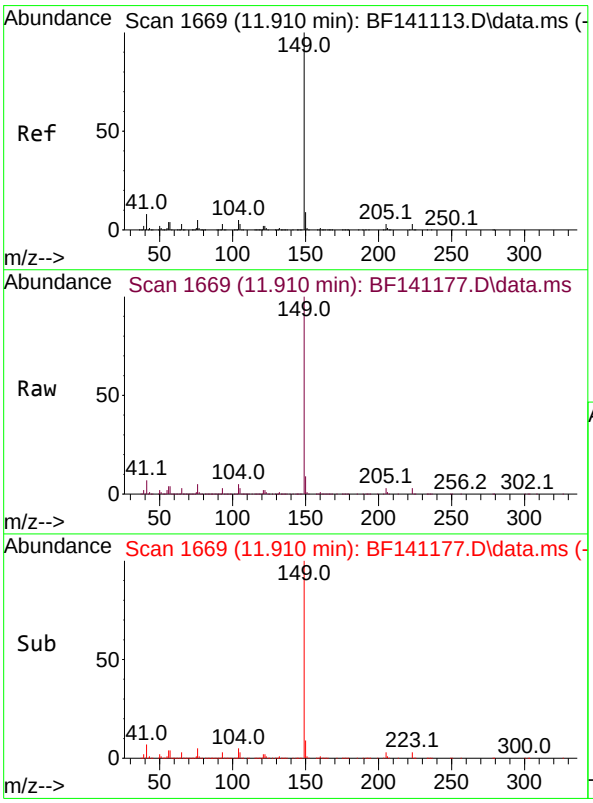
#73
Carbazole
Concen: 38.847 ng
RT: 11.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 884138

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.4	10.9	16.3

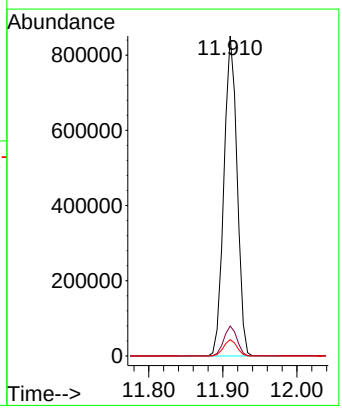


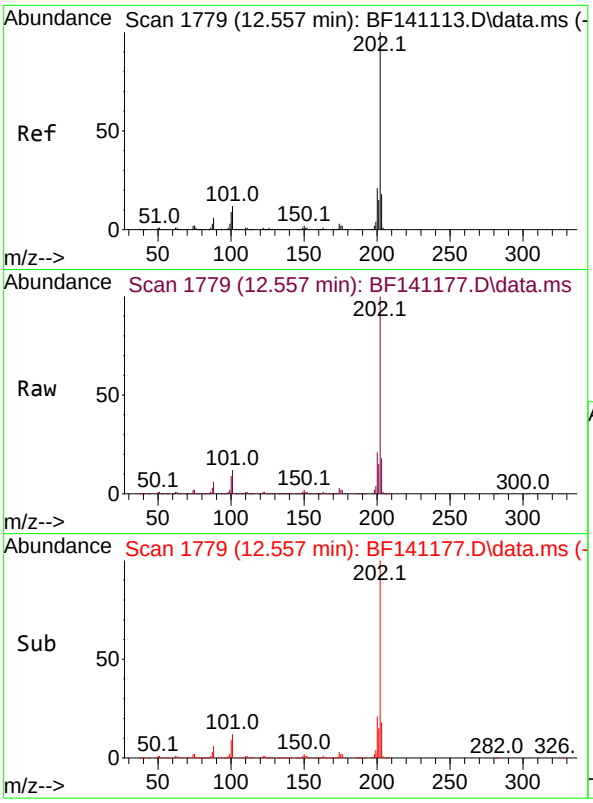


#74
Di-n-butylphthalate
Concen: 40.312 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:149 Resp: 1049973

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.1	4.2	6.2



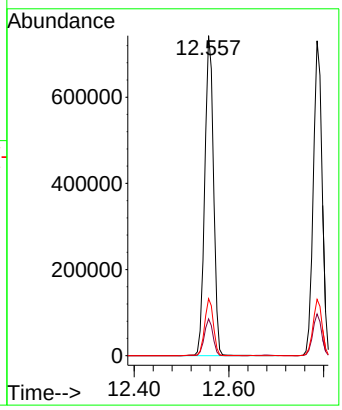


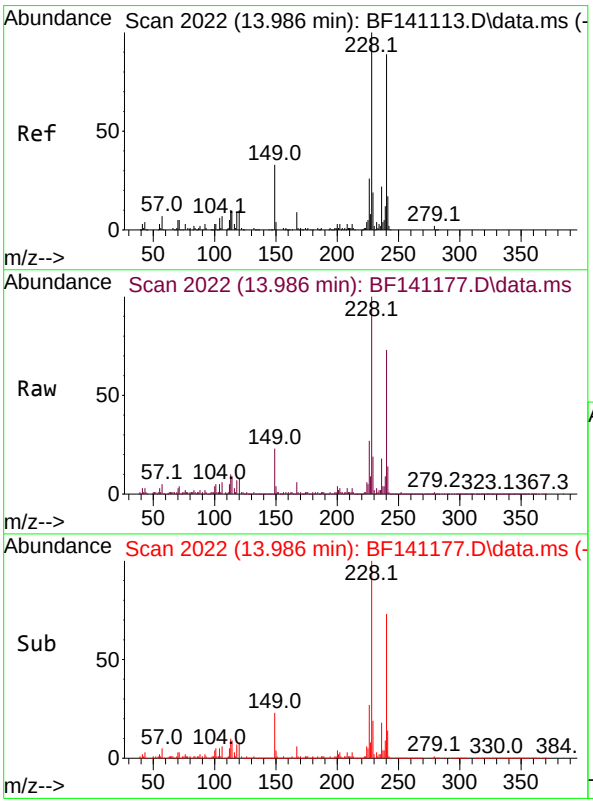
#75
Fluoranthene
Concen: 37.511 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 955547

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.3
203	17.8	0.0	37.7

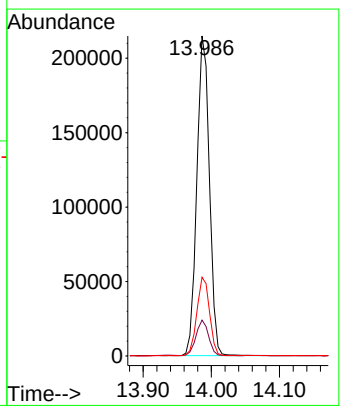


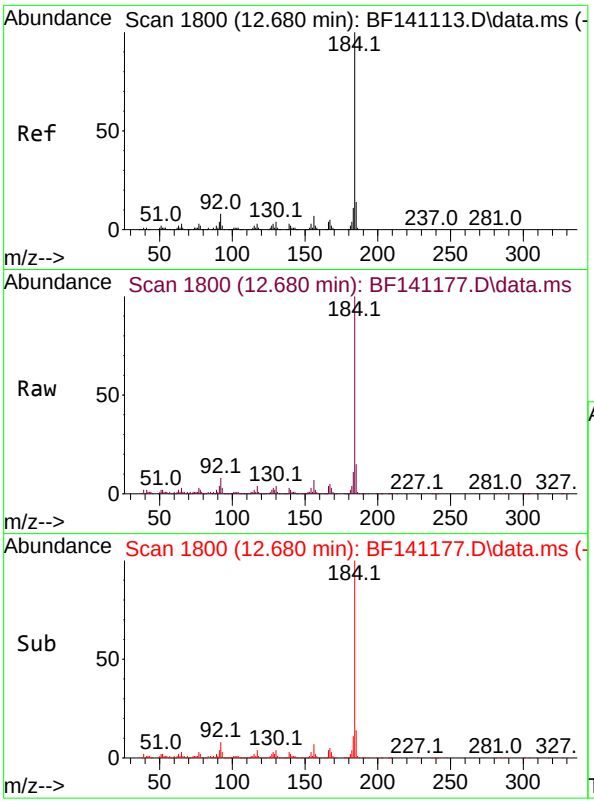


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:240 Resp: 274637

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.1	13.7
236	24.6	19.8	29.6



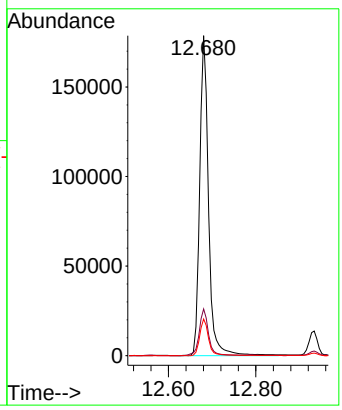


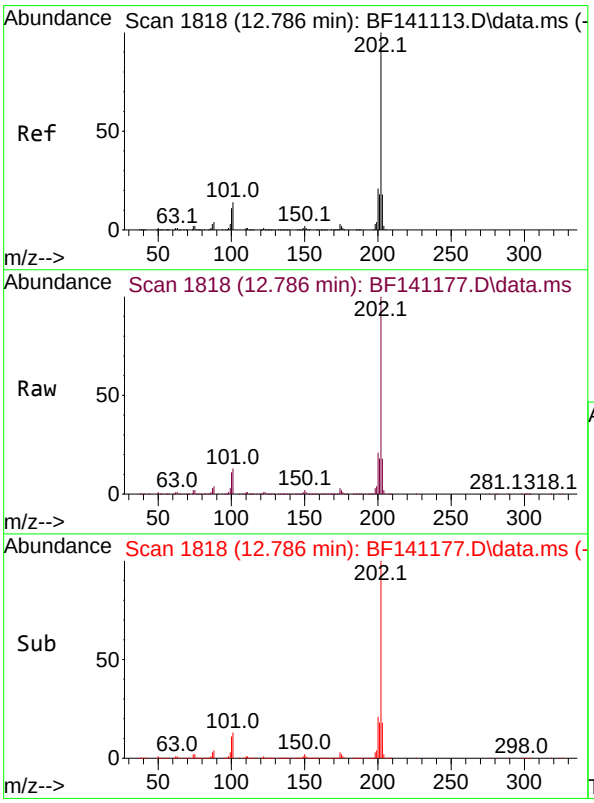
#77
Benzidine
Concen: 49.233 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 250742

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.4	17.0
183	11.5	9.2	13.8

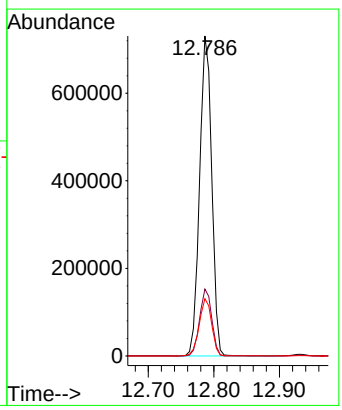


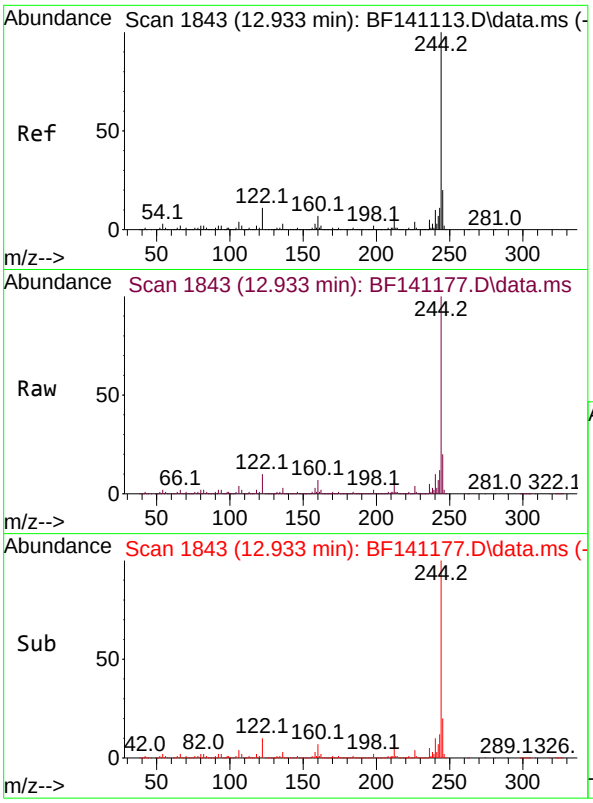


#78
Pyrene
Concen: 35.920 ng
RT: 12.786 min Scan# 1818
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:202 Resp: 942221

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.9	14.3	21.5



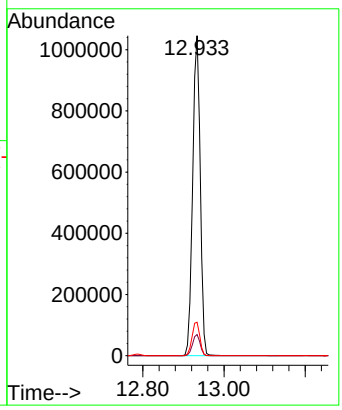


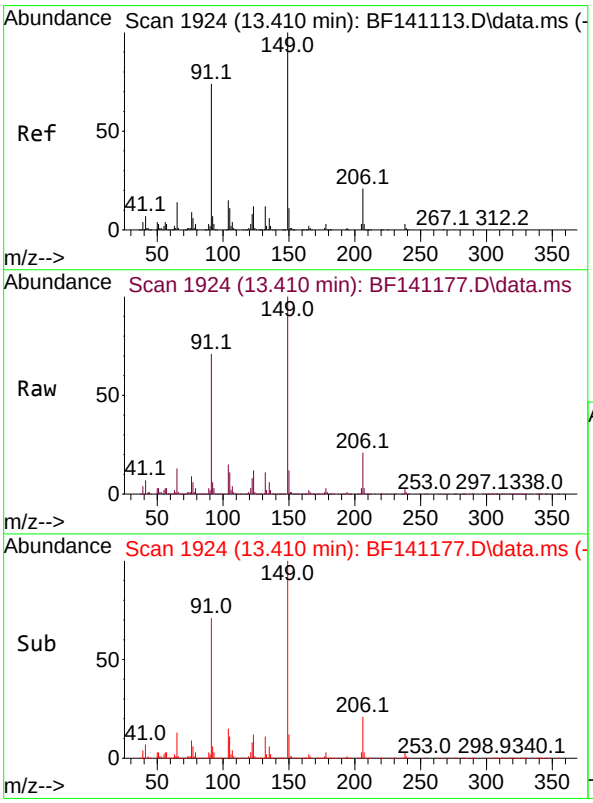
#79
Terphenyl-d14
Concen: 73.438 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 1356978

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	10.5	8.8	13.2

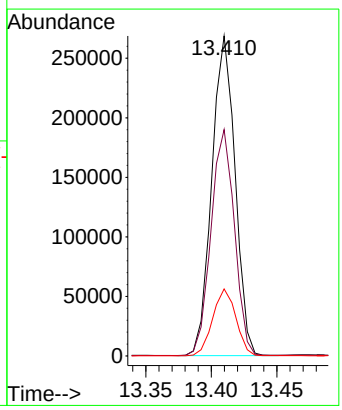


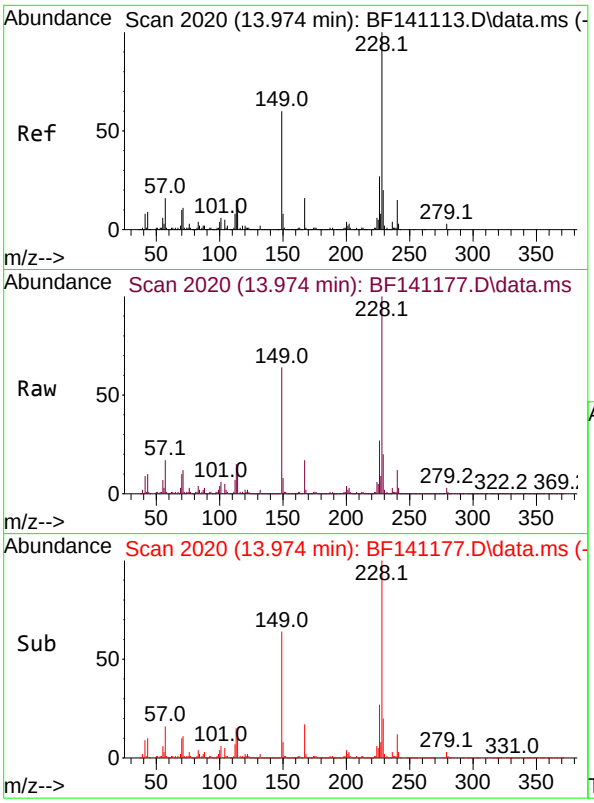


#80
Butylbenzylphthalate
Concen: 37.832 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:149 Resp: 330866

Ion	Ratio	Lower	Upper
149	100		
91	70.8	59.0	88.6
206	20.9	16.5	24.7



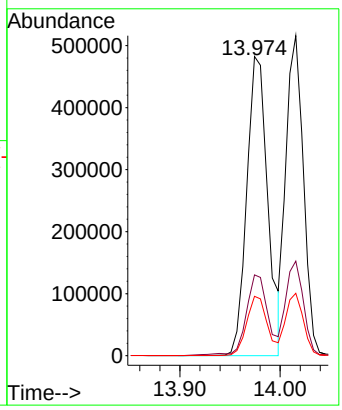


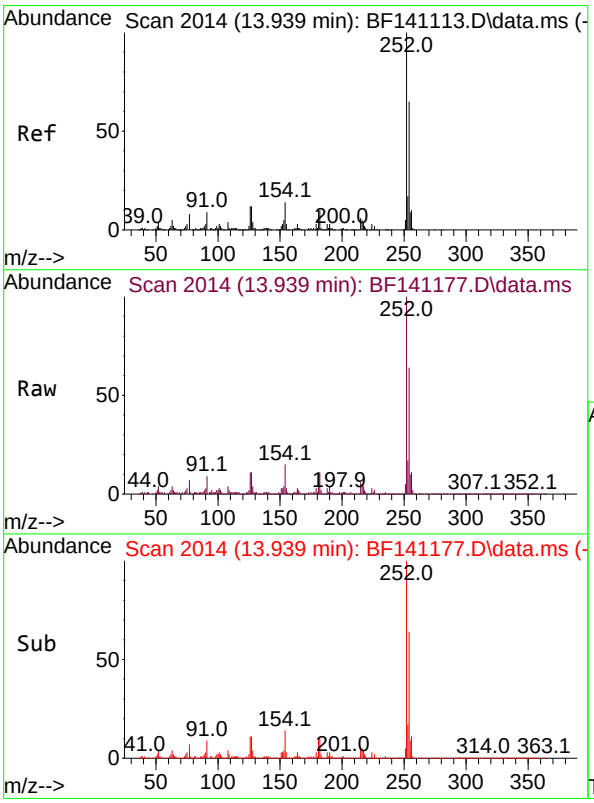
#81
Benzo(a)anthracene
Concen: 37.640 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 703511

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	19.9	15.7	23.5

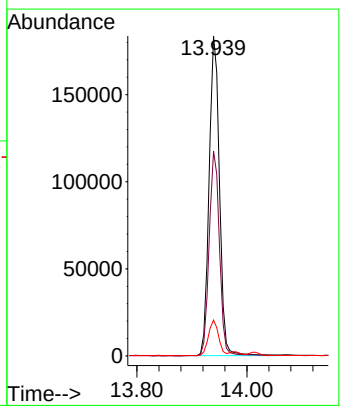


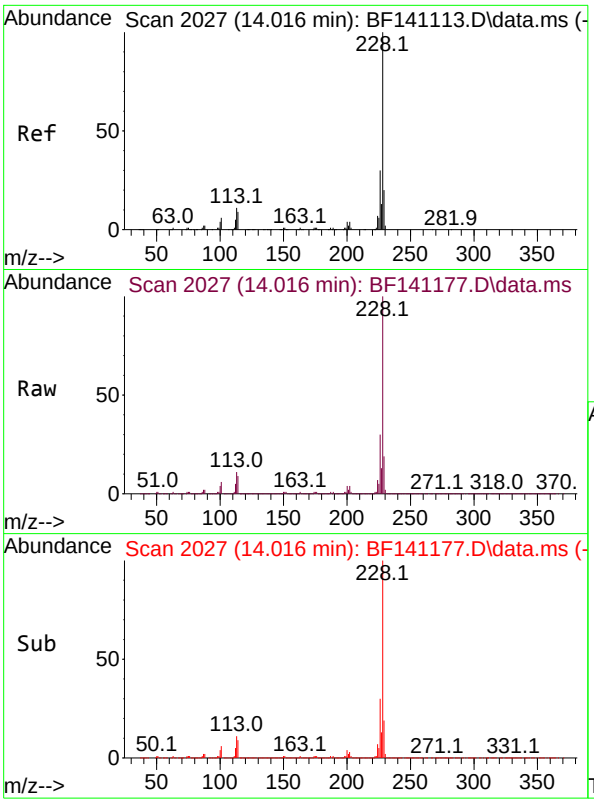


#82
3,3'-Dichlorobenzidine
Concen: 40.302 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:252 Resp: 239857

Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.0	78.0
126	11.2	9.4	14.0



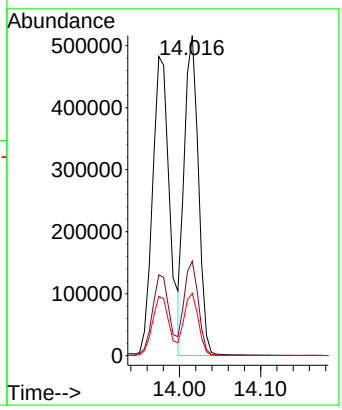


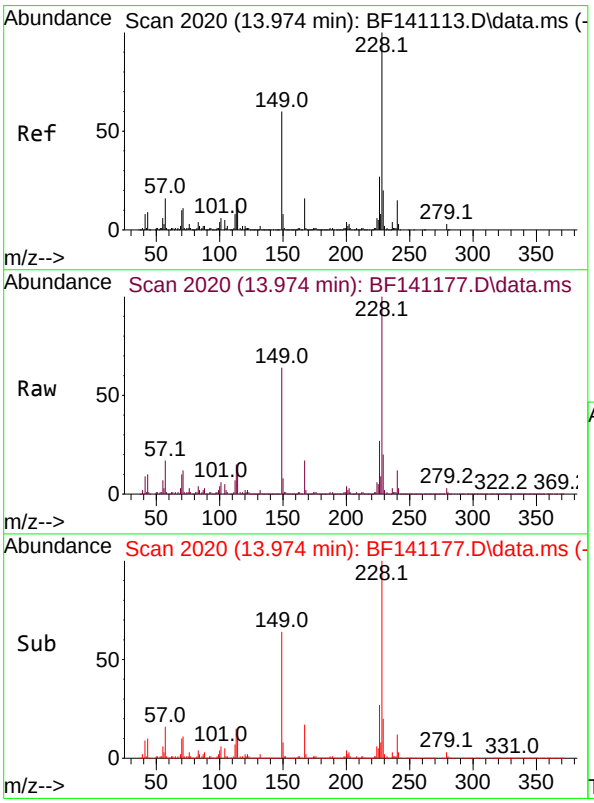
#83
Chrysene
Concen: 35.829 ng
RT: 14.016 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 626608

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.8	35.8
229	19.5	15.8	23.8

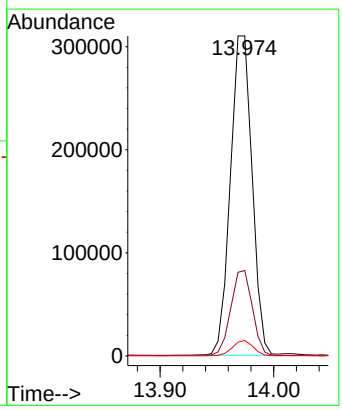


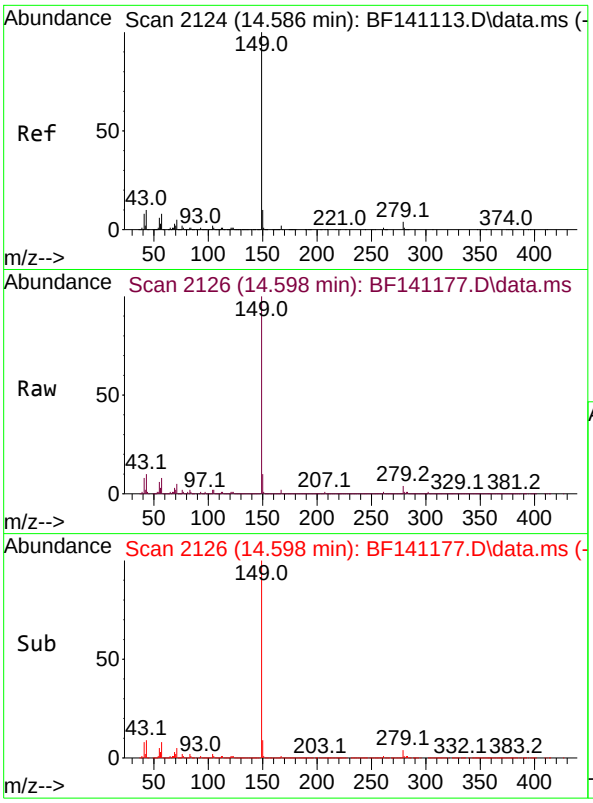


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.265 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:149 Resp: 412028

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.2
279	4.8	3.4	5.2



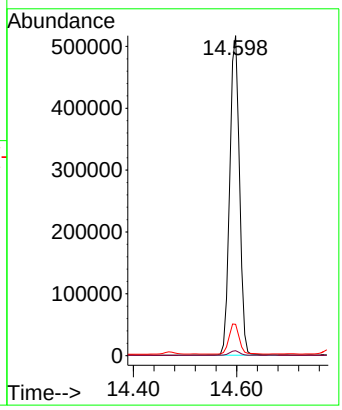


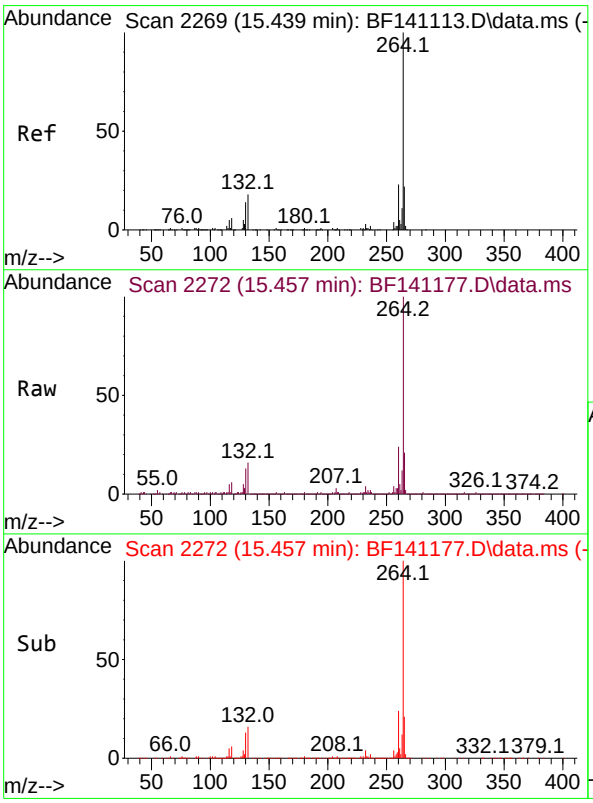
#85
Di-n-octyl phthalate
Concen: 42.747 ng
RT: 14.598 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 677367

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.0	8.4	12.6

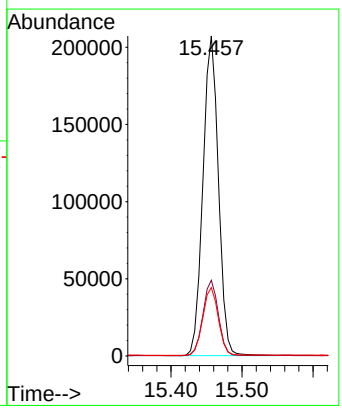


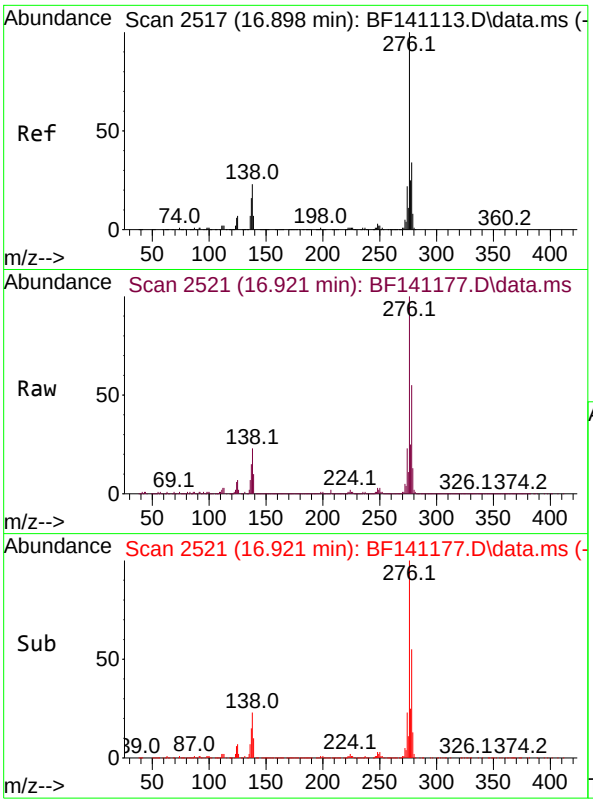


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.018 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:264 Resp: 314579

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.4	17.4	26.0



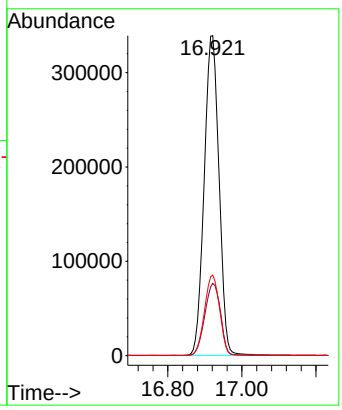


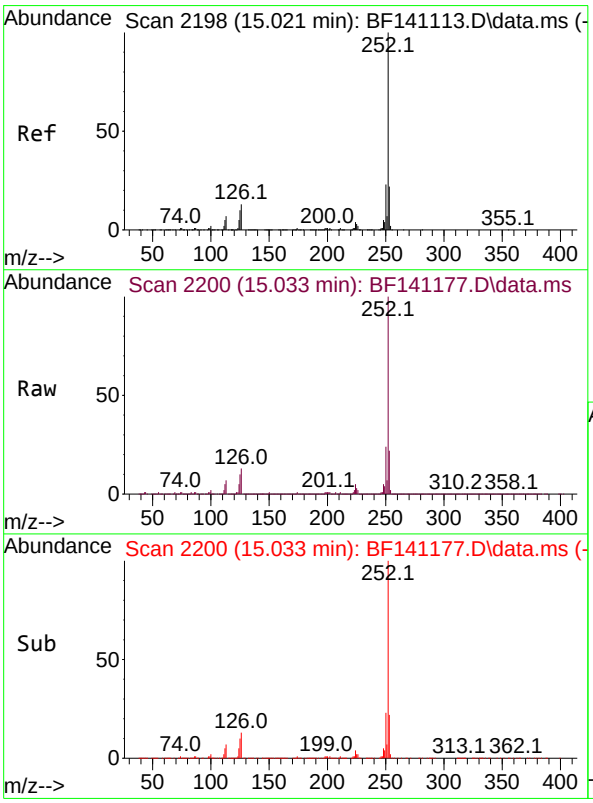
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.868 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 941894

Ion	Ratio	Lower	Upper
276	100		
138	23.9	20.7	31.1
277	25.6	20.6	30.8

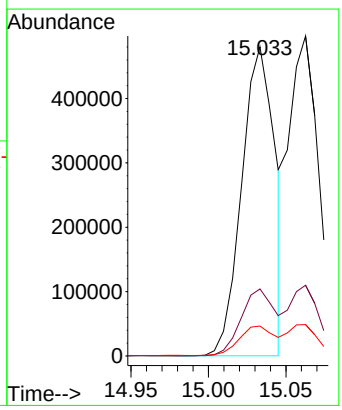


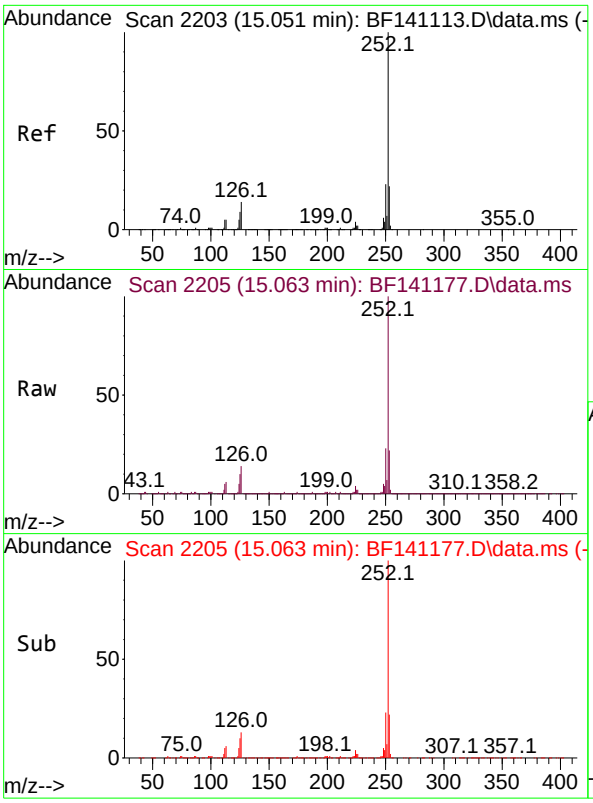


#88
Benzo(b)fluoranthene
Concen: 35.156 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.012 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:252 Resp: 713140

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	9.7	8.1	12.1



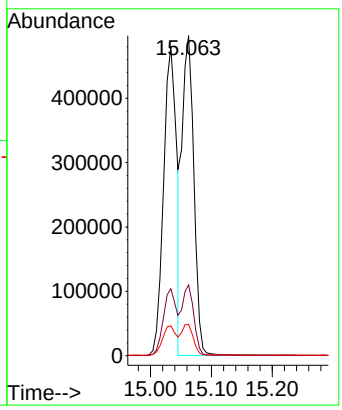


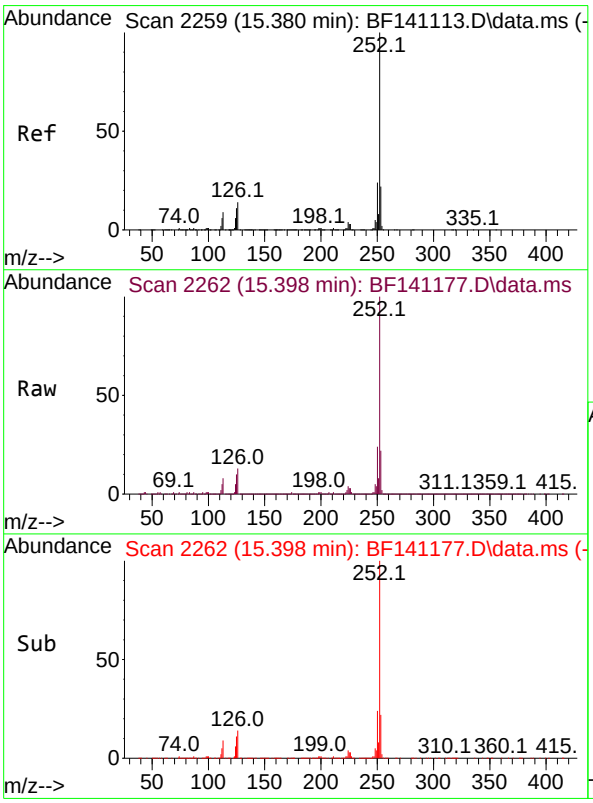
#89
Benzo(k)fluoranthene
Concen: 39.154 ng
RT: 15.063 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 671197

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	9.8	7.9	11.9

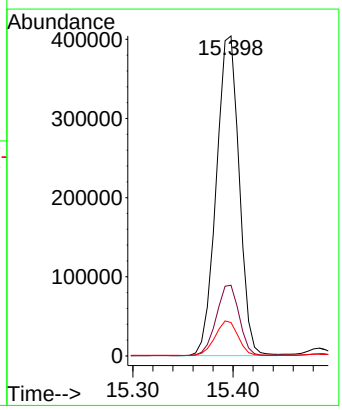


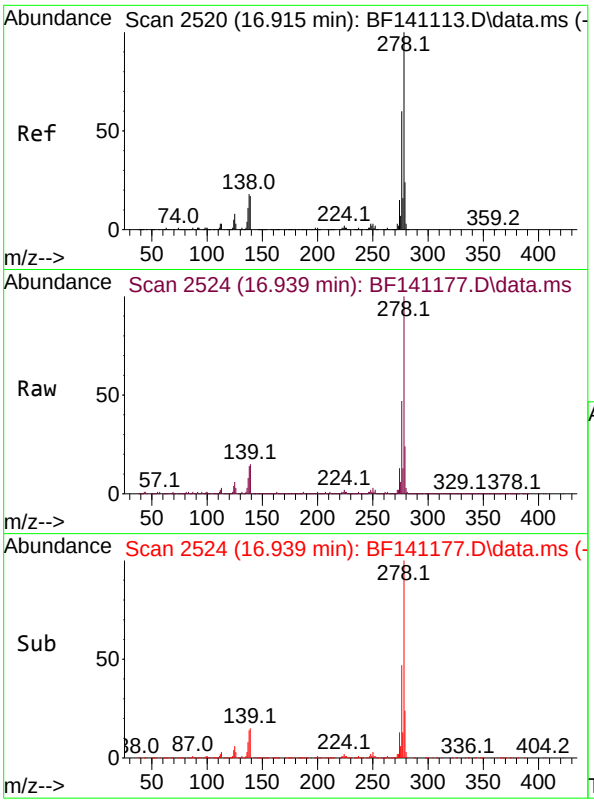


#90
Benzo(a)pyrene
Concen: 38.211 ng
RT: 15.398 min Scan# 2262
Delta R.T. 0.018 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:252 Resp: 639515

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.4	9.1	13.7



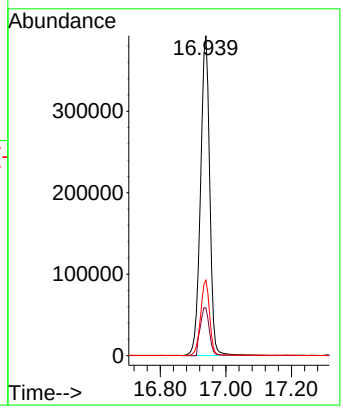


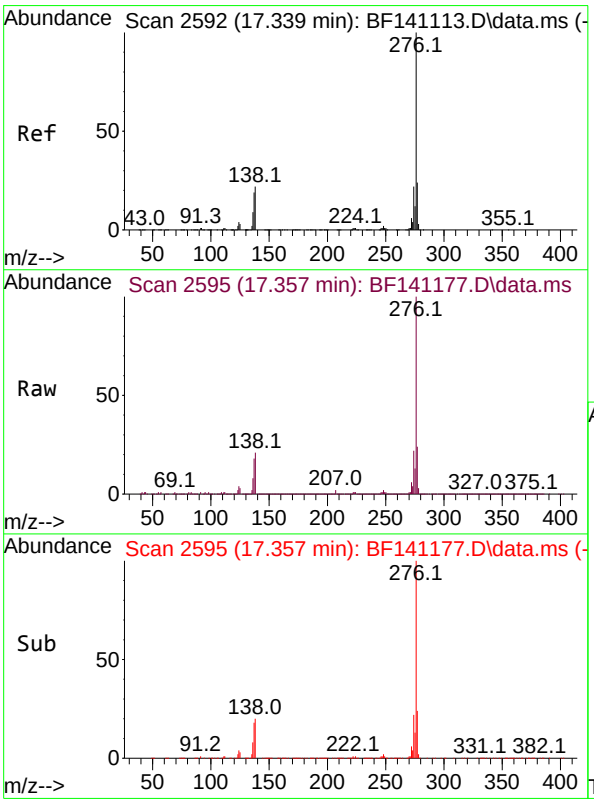
#91
Dibenzo(a,h)anthracene
Concen: 41.249 ng
RT: 16.939 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 768910

Ion	Ratio	Lower	Upper
278	100		
139	14.9	13.8	20.6
279	23.6	19.1	28.7

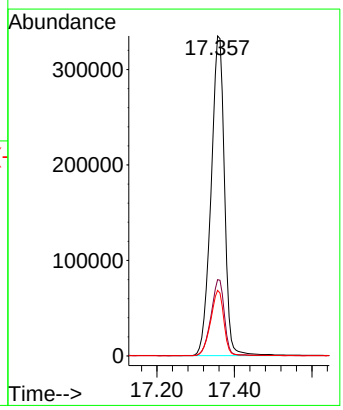




#92
Benzo(g,h,i)perylene
Concen: 41.379 ng
RT: 17.357 min Scan# 2595
Delta R.T. 0.018 min
Lab File: BF141177.D
Acq: 15 Jan 2025 17:10

Tgt Ion:276 Resp: 802295

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	20.5	17.4	26.2



Sample Results: **BF141177.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	87	0.00
2		1,4-Dioxane	0.577	0.509	11.8	79	-0.01
3		Pyridine	1.414	1.263	10.7	81	-0.01
4		n-Nitrosodimethylamine	0.691	0.623	9.8	80	-0.01
5	S	2-Fluorophenol	1.295	1.226	5.3	86	0.00
6		Aniline	1.456	1.279	12.2	78	0.00
7	S	Phenol-d6	1.640	1.520	7.3	84	0.00
8		2-Chlorophenol	1.389	1.328	4.4	86	0.00
9		Benzaldehyde	0.966	0.898	7.0	92	0.00
10	C	Phenol	1.756	1.619	7.8	83	0.00
11		bis(2-Chloroethyl)ether	1.308	1.235	5.6	86	0.00
12		1,3-Dichlorobenzene	1.549	1.492	3.7	88	0.00
13	C	1,4-Dichlorobenzene	1.561	1.490	4.5	87	0.00
14		1,2-Dichlorobenzene	1.456	1.395	4.2	88	0.00
15		Benzyl Alcohol	1.184	1.138	3.9	85	0.00
16		2,2'-oxybis(1-Chloropropane	1.826	1.658	9.2	82	0.00
17		2-Methylphenol	1.121	1.056	5.8	84	0.00
18		Hexachloroethane	0.565	0.550	2.7	87	0.00
19	P	n-Nitroso-di-n-propylamine	0.966	0.896	7.2	86	0.00
20		3+4-Methylphenols	1.415	1.324	6.4	84	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	86	0.00
22		Acetophenone	0.475	0.447	5.9	86	0.00
23	S	Nitrobenzene-d5	0.377	0.364	3.4	86	0.00
24		Nitrobenzene	0.393	0.375	4.6	85	0.00
25		Isophorone	0.645	0.606	6.0	84	0.00
26	C	2-Nitrophenol	0.179	0.182	-1.7	87	0.00
27		2,4-Dimethylphenol	0.241	0.227	5.8	83	0.00
28		bis(2-Chloroethoxy)methane	0.405	0.383	5.4	85	0.00
29	C	2,4-Dichlorophenol	0.287	0.279	2.8	86	0.00
30		1,2,4-Trichlorobenzene	0.328	0.320	2.4	88	0.00
31		Naphthalene	1.055	1.004	4.8	86	0.00
32		Benzoic acid	0.231	0.235	-1.7	85	0.00
33		4-Chloroaniline	0.365	0.313	14.2	78	0.00
34	C	Hexachlorobutadiene	0.197	0.199	-1.0	91	0.00
35		Caprolactam	0.094	0.085	9.6	81	0.00
36	C	4-Chloro-3-methylphenol	0.313	0.296	5.4	84	0.00
37		2-Methylnaphthalene	0.672	0.642	4.5	86	0.00
38		1-Methylnaphthalene	0.662	0.620	6.3	85	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	84	0.00
40		1,2,4,5-Tetrachlorobenzene	0.574	0.580	-1.0	88	0.00
41	P	Hexachlorocyclopentadiene	0.188	0.208	-10.6	88	0.00
42	S	2,4,6-Tribromophenol	0.228	0.223	2.2	86	0.00
43	C	2,4,6-Trichlorophenol	0.387	0.392	-1.3	87	0.00
44		2,4,5-Trichlorophenol	0.409	0.389	4.9	82	0.00
45	S	2-Fluorobiphenyl	1.310	1.277	2.5	88	0.00
46		1,1'-Biphenyl	1.553	1.513	2.6	86	0.00
47		2-Chloronaphthalene	1.210	1.171	3.2	85	0.00

Sample Results: **BF141177.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	0.359	0.342	4.7	82	0.00
49		Acenaphthylene	1.728	1.643	4.9	83	0.00
50		Dimethylphthalate	1.343	1.285	4.3	83	0.00
51		2,6-Dinitrotoluene	0.312	0.301	3.5	81	0.00
52	C	Acenaphthene	1.208	1.172	3.0	85	0.00
53		3-Nitroaniline	0.317	0.301	5.0	80	0.00
54	P	2,4-Dinitrophenol	0.148	0.154	-4.1	84	0.00
55		Dibenzofuran	1.642	1.553	5.4	83	0.00
56	P	4-Nitrophenol	0.248	0.232	6.5	78	0.00
57		2,4-Dinitrotoluene	0.402	0.390	3.0	83	0.00
58		Fluorene	1.276	1.200	6.0	85	0.00
59		2,3,4,6-Tetrachlorophenol	0.340	0.315	7.4	80	0.00
60		Diethylphthalate	1.311	1.242	5.3	84	0.00
61		4-Chlorophenyl-phenylether	0.622	0.601	3.4	85	0.00
62		4-Nitroaniline	0.311	0.284	8.7	80	0.00
63		Azobenzene	1.293	1.190	8.0	81	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
65		4,6-Dinitro-2-methylphenol	0.116	0.131	-12.9	82	0.00
66	c	n-Nitrosodiphenylamine	0.645	0.660	-2.3	82	0.00
67		4-Bromophenyl-phenylether	0.230	0.242	-5.2	84	0.00
68		Hexachlorobenzene	0.256	0.266	-3.9	83	0.00
69		Atrazine	0.174	0.141	19.0	81	0.00
70	C	Pentachlorophenol	0.164	0.171	-4.3	80	0.00
71		Phenanthrene	1.074	1.061	1.2	80	0.00
72		Anthracene	1.044	1.038	0.6	80	0.00
73		Carbazole	0.957	0.930	2.8	79	0.00
74		Di-n-butylphthalate	1.096	1.104	-0.7	82	0.00
75	C	Fluoranthene	1.071	1.005	6.2	78	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	84	0.00
77		Benzidine	0.371	0.456	-22.9	93	0.00
78		Pyrene	1.910	1.715	10.2	78	0.00
79	S	Terphenyl-d14	1.346	1.235	8.2	81	0.00
80		Butylbenzylphthalate	0.637	0.602	5.5	82	0.00
81		Benzo(a)anthracene	1.361	1.281	5.9	86	0.00
82		3,3'-Dichlorobenzidine	0.433	0.437	-0.9	87	0.00
83		Chrysene	1.274	1.141	10.4	79	0.00
84		Bis(2-ethylhexyl)phthalate	0.764	0.750	1.8	86	0.00
85	c	Di-n-octyl phthalate	1.154	1.233	-6.8	90	0.01
86	I	Perylene-d12	1.000	1.000	0.0	88	0.02
87		Indeno(1,2,3-cd)pyrene	1.465	1.497	-2.2	90	0.02
88		Benzo(b)fluoranthene	1.290	1.133	12.2	83	0.01
89		Benzo(k)fluoranthene	1.090	1.067	2.1	90	0.01
90	C	Benzo(a)pyrene	1.064	1.016	4.5	86	0.02
91		Dibenzo(a,h)anthracene	1.185	1.222	-3.1	90	0.02
92		Benzo(g,h,i)perylene	1.233	1.275	-3.4	89	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF141177.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	87	0.00
2		1,4-Dioxane	40.000	35.304	11.7	79	-0.01
3		Pyridine	40.000	35.738	10.7	81	-0.01
4		n-Nitrosodimethylamine	40.000	36.028	9.9	80	-0.01
5	S	2-Fluorophenol	80.000	75.781	5.3	86	0.00
6		Aniline	40.000	35.149	12.1	78	0.00
7	S	Phenol-d6	80.000	74.129	7.3	84	0.00
8		2-Chlorophenol	40.000	38.237	4.4	86	0.00
9		Benzaldehyde	40.000	37.175	7.1	92	0.00
10	C	Phenol	40.000	36.888	7.8	83	0.00
11		bis(2-Chloroethyl)ether	40.000	37.765	5.6	86	0.00
12		1,3-Dichlorobenzene	40.000	38.517	3.7	88	0.00
13	C	1,4-Dichlorobenzene	40.000	38.186	4.5	87	0.00
14		1,2-Dichlorobenzene	40.000	38.310	4.2	88	0.00
15		Benzyl Alcohol	40.000	38.426	3.9	85	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.324	9.2	82	0.00
17		2-Methylphenol	40.000	37.654	5.9	84	0.00
18		Hexachloroethane	40.000	38.946	2.6	87	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.085	7.3	86	0.00
20		3+4-Methylphenols	40.000	37.434	6.4	84	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	86	0.00
22		Acetophenone	40.000	37.585	6.0	86	0.00
23	S	Nitrobenzene-d5	80.000	77.237	3.5	86	0.00
24		Nitrobenzene	40.000	38.187	4.5	85	0.00
25		Isophorone	40.000	37.586	6.0	84	0.00
26	C	2-Nitrophenol	40.000	40.633	-1.6	87	0.00
27		2,4-Dimethylphenol	40.000	37.716	5.7	83	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.902	5.2	85	0.00
29	C	2,4-Dichlorophenol	40.000	38.956	2.6	86	0.00
30		1,2,4-Trichlorobenzene	40.000	39.022	2.4	88	0.00
31		Naphthalene	40.000	38.067	4.8	86	0.00
32		Benzoic acid	40.000	40.674	-1.7	85	0.00
33		4-Chloroaniline	40.000	34.282	14.3	78	0.00
34	C	Hexachlorobutadiene	40.000	40.351	-0.9	91	0.00
35		Caprolactam	40.000	36.395	9.0	81	0.00
36	C	4-Chloro-3-methylphenol	40.000	37.823	5.4	84	0.00
37		2-Methylnaphthalene	40.000	38.211	4.5	86	0.00
38		1-Methylnaphthalene	40.000	37.443	6.4	85	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	84	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.428	-1.1	88	0.00
41	P	Hexachlorocyclopentadiene	40.000	44.331	-10.8	88	0.00
42	S	2,4,6-Tribromophenol	80.000	78.336	2.1	86	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.545	-1.4	87	0.00
44		2,4,5-Trichlorophenol	40.000	38.100	4.7	82	0.00
45	S	2-Fluorobiphenyl	80.000	78.008	2.5	88	0.00
46		1,1'-Biphenyl	40.000	38.975	2.6	86	0.00
47		2-Chloronaphthalene	40.000	38.731	3.2	85	0.00

Sample Results: **BF141177.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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	38.092	4.8	82	0.00
49		Acenaphthylene	40.000	38.028	4.9	83	0.00
50		Dimethylphthalate	40.000	38.279	4.3	83	0.00
51		2,6-Dinitrotoluene	40.000	38.603	3.5	81	0.00
52	C	Acenaphthene	40.000	38.818	3.0	85	0.00
53		3-Nitroaniline	40.000	37.891	5.3	80	0.00
54	P	2,4-Dinitrophenol	40.000	41.509	-3.8	84	0.00
55		Dibenzofuran	40.000	37.820	5.4	83	0.00
56	P	4-Nitrophenol	40.000	37.319	6.7	78	0.00
57		2,4-Dinitrotoluene	40.000	38.724	3.2	83	0.00
58		Fluorene	40.000	37.619	6.0	85	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	37.093	7.3	80	0.00
60		Diethylphthalate	40.000	37.910	5.2	84	0.00
61		4-Chlorophenyl-phenylether	40.000	38.643	3.4	85	0.00
62		4-Nitroaniline	40.000	36.544	8.6	80	0.00
63		Azobenzene	40.000	36.811	8.0	81	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	81	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.140	-12.9	82	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.942	-2.4	82	0.00
67		4-Bromophenyl-phenylether	40.000	42.040	-5.1	84	0.00
68		Hexachlorobenzene	40.000	41.461	-3.7	83	0.00
69		Atrazine	40.000	32.424	18.9	81	0.00
70	C	Pentachlorophenol	40.000	41.683	-4.2	80	0.00
71		Phenanthrene	40.000	39.531	1.2	80	0.00
72		Anthracene	40.000	39.754	0.6	80	0.00
73		Carbazole	40.000	38.847	2.9	79	0.00
74		Di-n-butylphthalate	40.000	40.312	-0.8	82	0.00
75	C	Fluoranthene	40.000	37.511	6.2	78	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	84	0.00
77		Benzidine	40.000	49.233	-23.1	93	0.00
78		Pyrene	40.000	35.920	10.2	78	0.00
79	S	Terphenyl-d14	80.000	73.438	8.2	81	0.00
80		Butylbenzylphthalate	40.000	37.832	5.4	82	0.00
81		Benzo(a)anthracene	40.000	37.640	5.9	86	0.00
82		3,3'-Dichlorobenzidine	40.000	40.302	-0.8	87	0.00
83		Chrysene	40.000	35.829	10.4	79	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.265	1.8	86	0.00
85	c	Di-n-octyl phthalate	40.000	42.747	-6.9	90	0.01
86	I	Perylene-d12	20.000	20.000	0.0	88	0.02
87		Indeno(1,2,3-cd)pyrene	40.000	40.868	-2.2	90	0.02
88		Benzo(b)fluoranthene	40.000	35.156	12.1	83	0.01
89		Benzo(k)fluoranthene	40.000	39.154	2.1	90	0.01
90	C	Benzo(a)pyrene	40.000	38.211	4.5	86	0.02
91		Dibenzo(a,h)anthracene	40.000	41.249	-3.1	90	0.02
92		Benzo(g,h,i)perylene	40.000	41.379	-3.4	89	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141177.D
Acq On : 15 Jan 2025 17:10
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 15 17:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 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 = 0

QC SAMPLE DATA

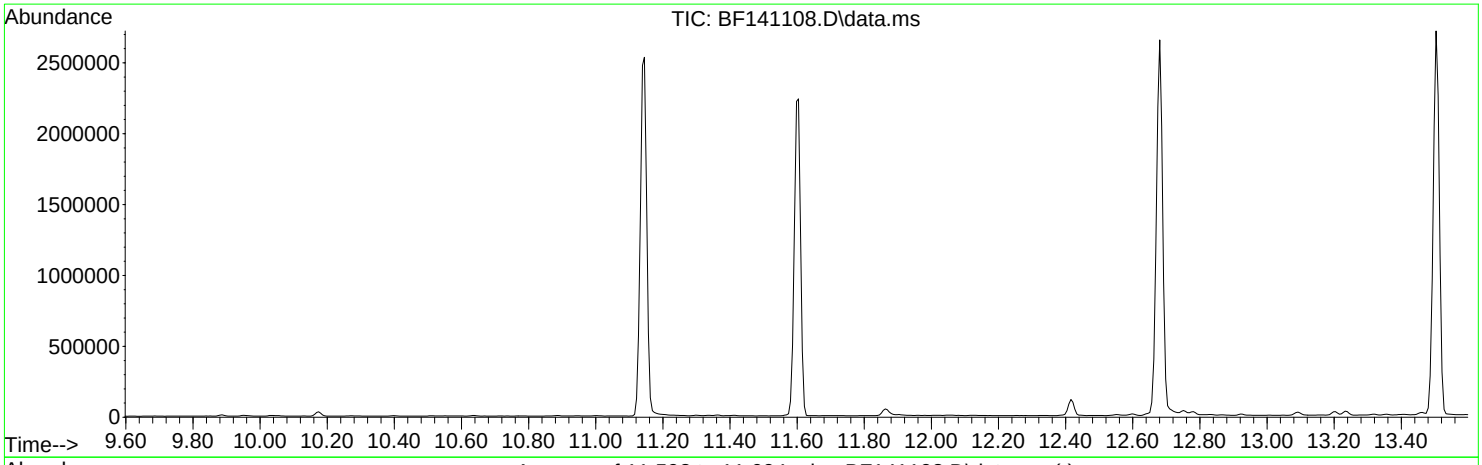
Sample Results: **BF141108.D**

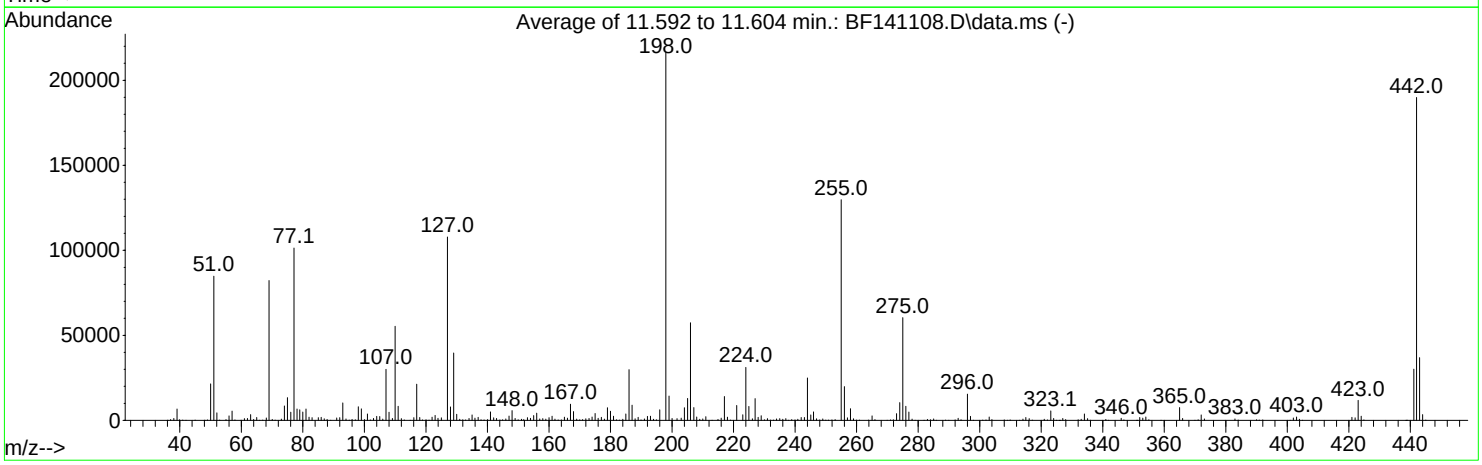
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141108.D
Acq On : 10 Jan 2025 11:32
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 10 22:54:19 2025





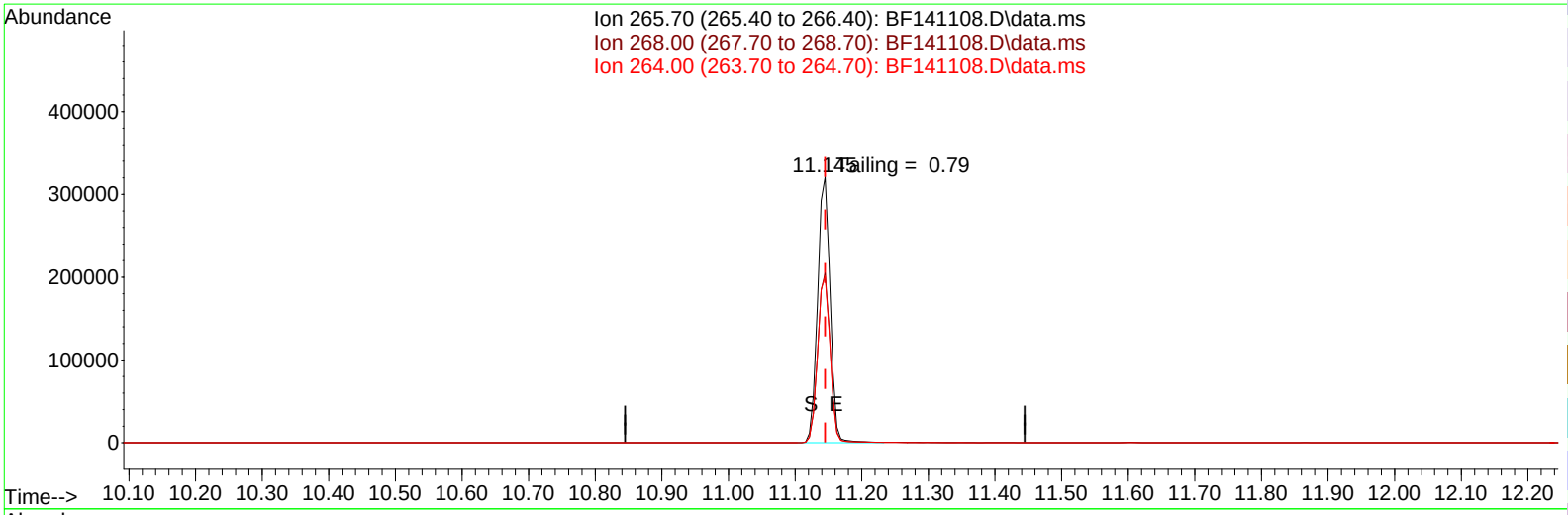
AutoFind: Scans 1615, 1616, 1617; Background Corrected with Scan 1609

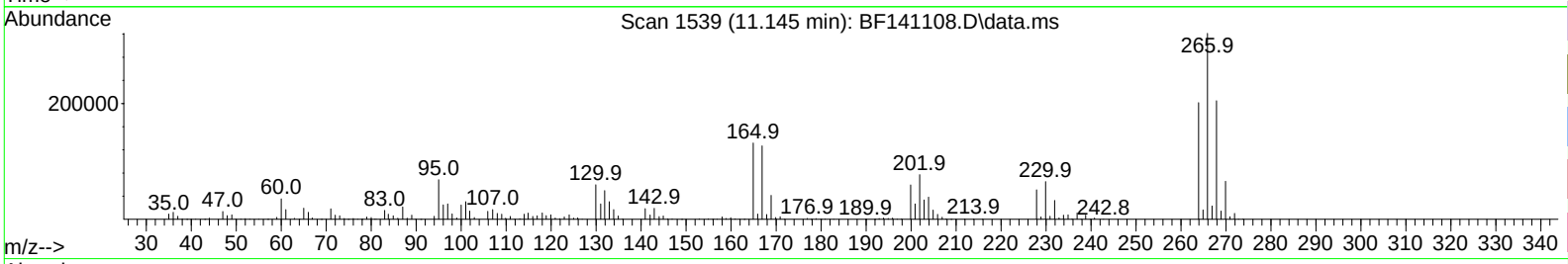
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.2	84750	PASS
68	69	0.00	2	1.8	1445	PASS
69	198	0.00	100	38.0	82278	PASS
70	69	0.00	2	0.7	551	PASS
127	198	10	80	49.8	107843	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	216341	PASS
199	198	5	9	6.6	14307	PASS
275	198	10	60	27.9	60421	PASS
365	198	1	100	3.5	7523	PASS
441	198	0.01	100	13.9	30123	PASS
442	442	50	100	100.0	189923	PASS
443	442	15	24	19.4	36936	PASS

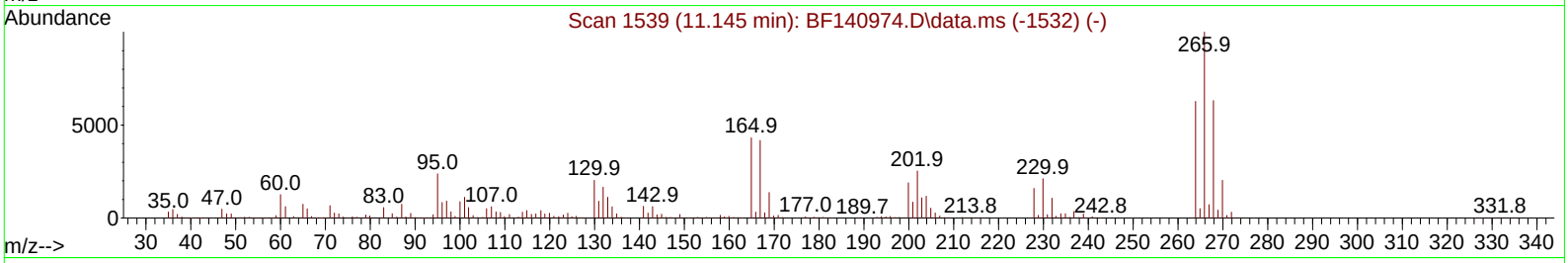
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141108.D
Acq On : 10 Jan 2025 11:32
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 10 12:08:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 12:07:52 2025
Response via : Initial Calibration







TIC: BF141108.D\data.ms

(70) Pentachlorophenol (C)

11.145min (+ 0.000) 27837.42 ng

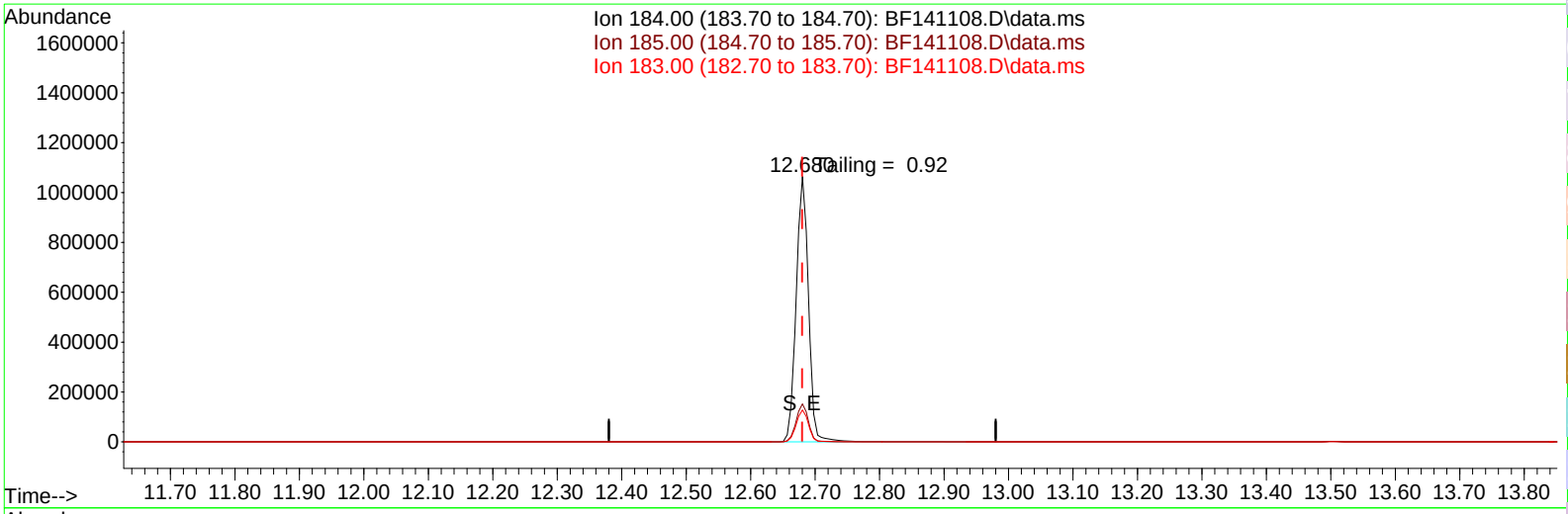
response 420211

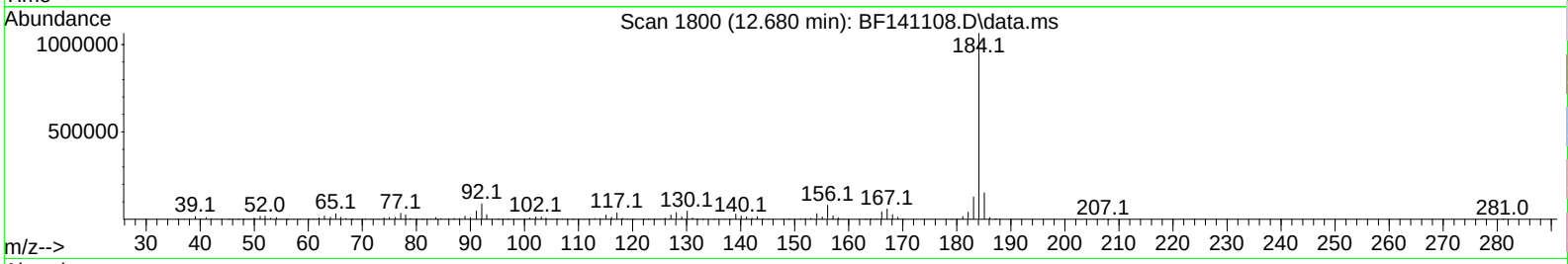
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	63.79
264.00	62.80	62.71
0.00	0.00	0.00

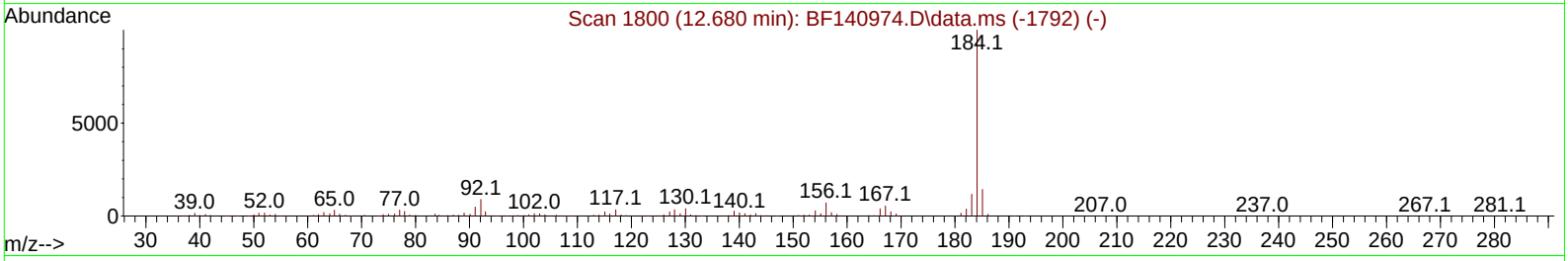
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141108.D
Acq On : 10 Jan 2025 11:32
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 10 12:08:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 12:07:52 2025
Response via : Initial Calibration







TIC: BF141108.D\data.ms

(77) Benzidine

12.680min (-0.000) 47053.75 ng

response 1415080

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.30	14.35
183.00	11.70	12.05
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

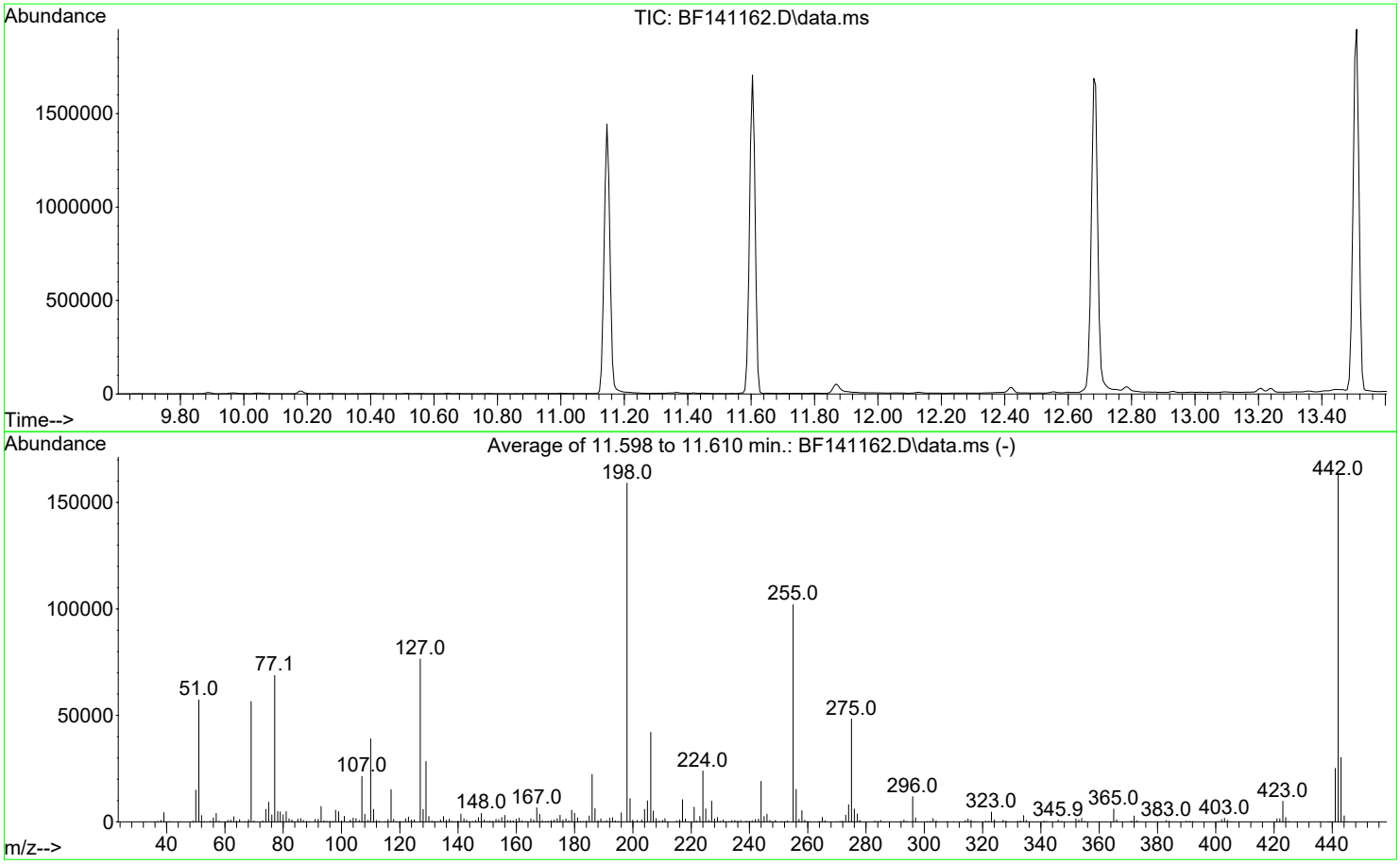
Date	Instrument Name	DFTPP Data File
1/10/2025	BNA_F	BF141108.D
Compound Name	**Response**	**Retention Time**
DDT	677363	13.504
DDD	13521	13.204
DDE	752	12.869
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
14273	691636	2.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141162.D
Acq On : 15 Jan 2025 09:08
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-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jan 10 22:54:19 2025



AutoFind: Scans 1616, 1617, 1618; Background Corrected with Scan 1610

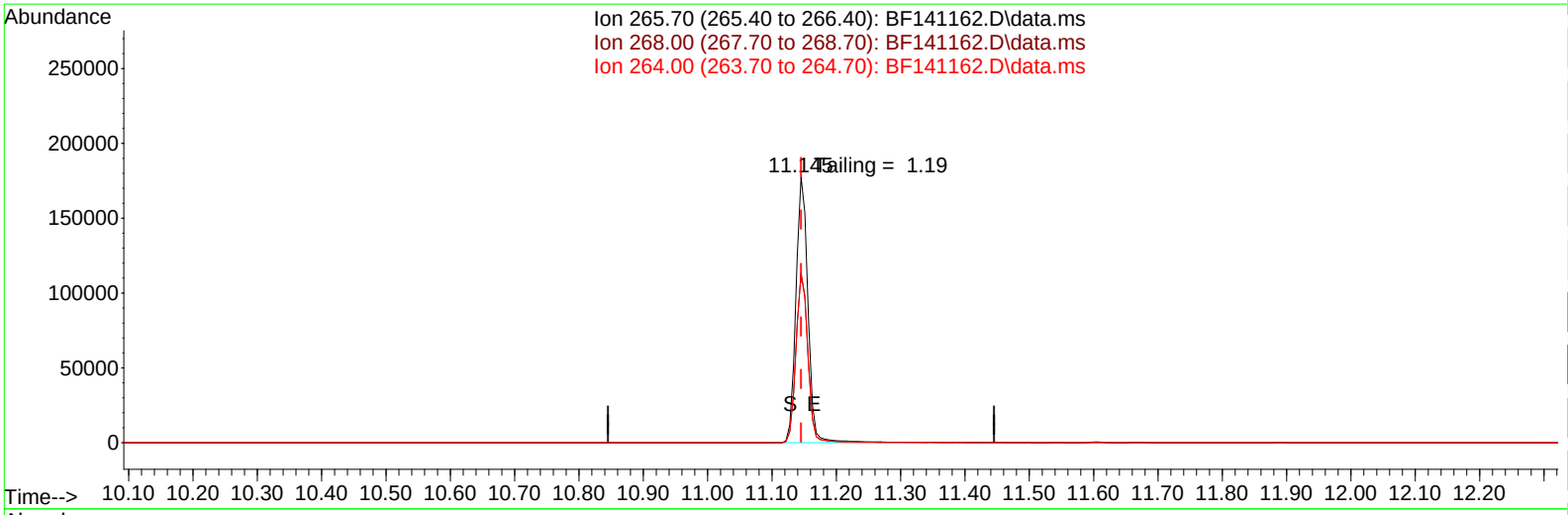
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	57307	PASS
68	69	0.00	2	1.9	1055	PASS
69	198	0.00	100	35.5	56501	PASS
70	69	0.00	2	0.8	449	PASS
127	198	10	80	48.1	76515	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	159104	PASS
199	198	5	9	6.9	10934	PASS
275	198	10	60	30.4	48325	PASS
365	198	1	100	3.8	6020	PASS
441	198	0.01	100	15.8	25096	PASS
442	442	50	100	100.0	163141	PASS
443	442	15	24	18.5	30253	PASS

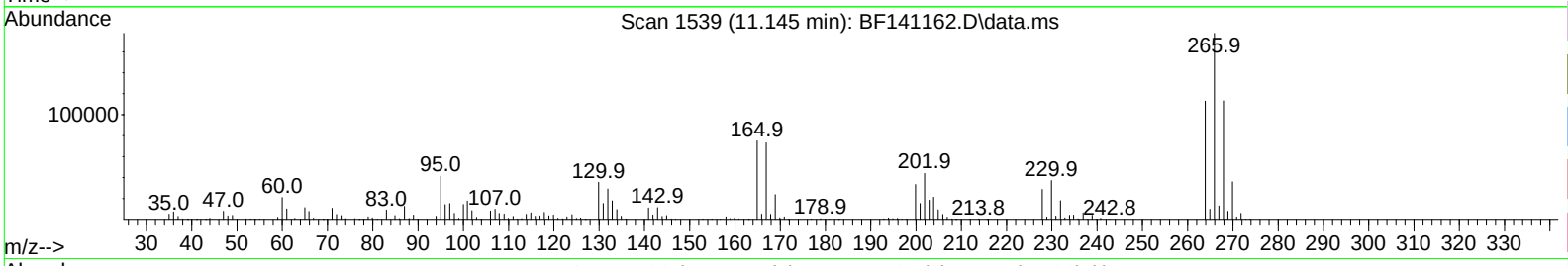
Sample Results: **BF141162.D**

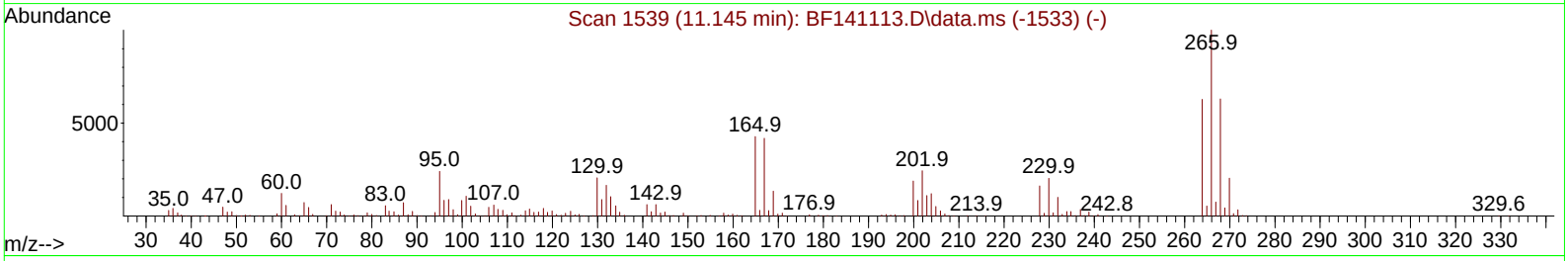
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141162.D
Acq On : 15 Jan 2025 09:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 15 10:11:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration







TIC: BF141162.D\data.ms

(70) Pentachlorophenol (C)

11.145min (+ 0.000) 17848.17 ng

response 232184

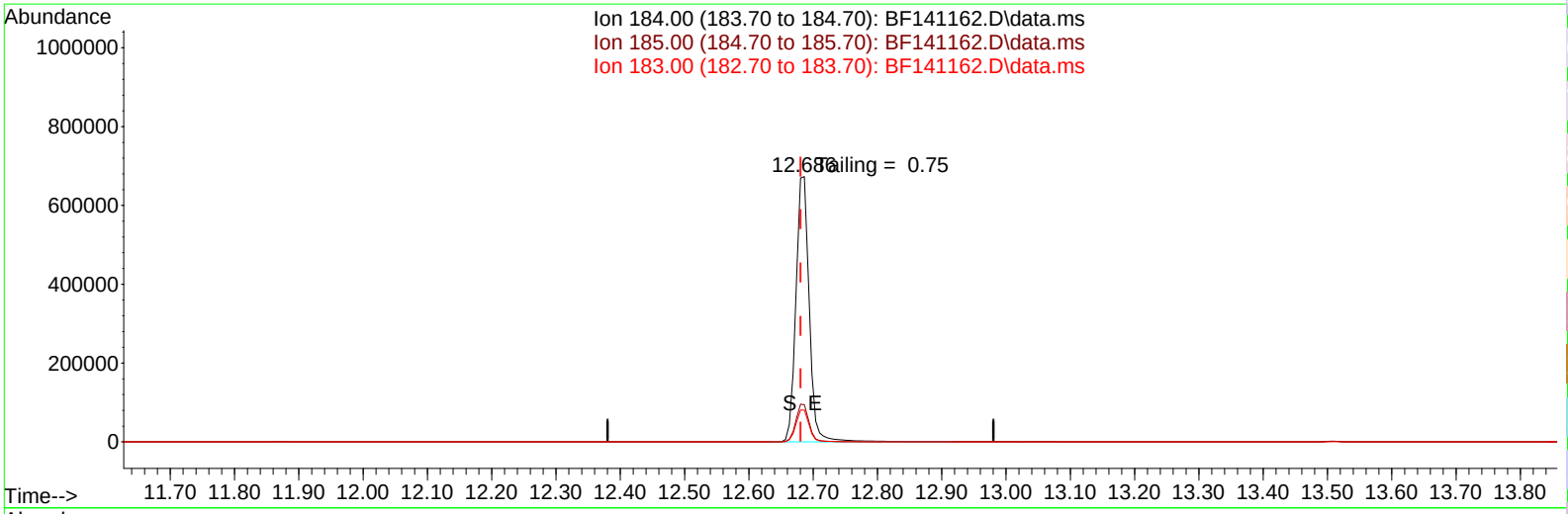
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.00	63.76
264.00	62.70	63.59
0.00	0.00	0.00

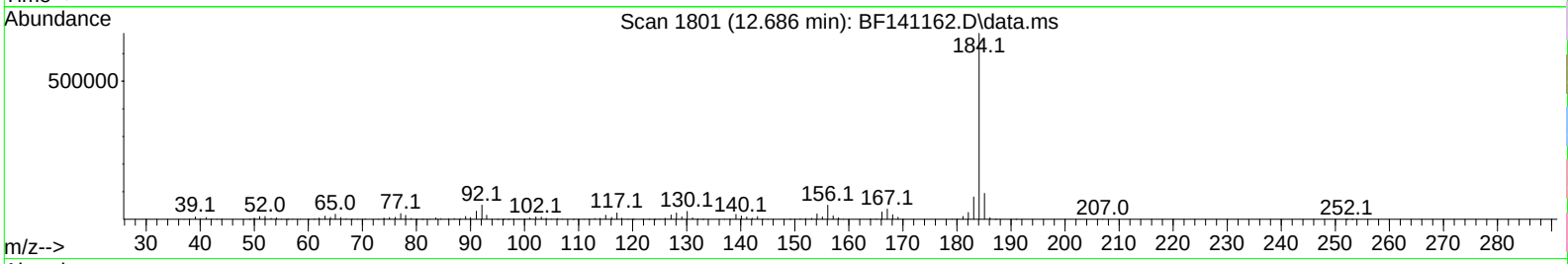
Sample Results: **BF141162.D**

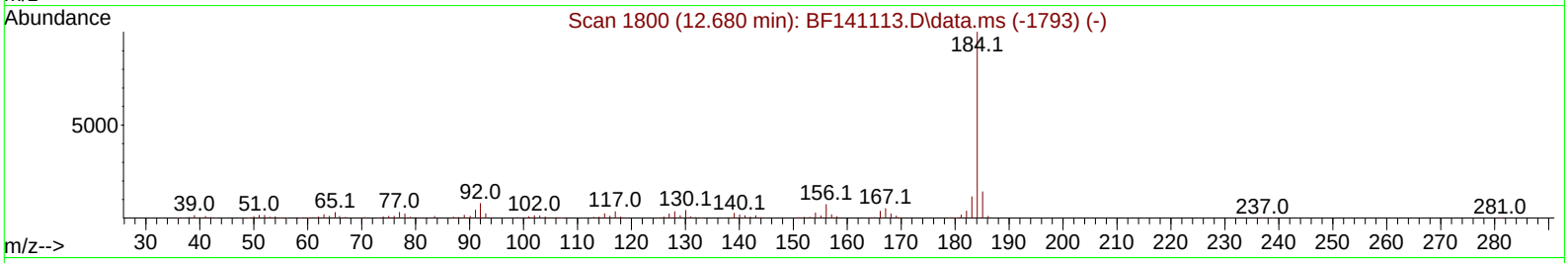
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141162.D
Acq On : 15 Jan 2025 09:08
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 15 10:11:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration







TIC: BF141162.D\data.ms

(77) Benzidine

12.686min (+ 0.006) 34812.04 ng

response 973516

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.20	14.00
183.00	11.50	12.01
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/15/2025	BNA_F	BF141162.D
Compound Name	**Response**	**Retention Time**
DDT	495212	13.51
DDD	10841	13.21
DDE	490	12.875
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
11331	506543	2.24

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166035BL	SDG No.:	Q1069
Lab Sample ID:	PB166035BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 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
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	270	U	180	270	330	ug/Kg
108-95-2	Phenol	130	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	130	U	83.4	130	170	ug/Kg
95-48-7	2-Methylphenol	130	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	130	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	270	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	79.9	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	130	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	130	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	130	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	130	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	75.4	130	170	ug/Kg
91-20-3	Naphthalene	130	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	130	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	83.2	130	170	ug/Kg
105-60-2	Caprolactam	270	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	71.3	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	73.9	130	170	ug/Kg
92-52-4	1,1-Biphenyl	130	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	130	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	130	U	81.6	130	170	ug/Kg

Raw Data: **BF141169.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166035BL	SDG No.:	Q1069
Lab Sample ID:	PB166035BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 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
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	130	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	130	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	130	U	81.0	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	270	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	130	U	84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	130	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	130	U	80.0	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	130	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	130	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	270	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	130	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	130	U	91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	270	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	130	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	130	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	130	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	130	U	81.6	130	170	ug/Kg
129-00-0	Pyrene	130	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	270	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	130	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	270	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	U	81.0	130	170	ug/Kg

Raw Data: **BF141169.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166035BL	SDG No.:	Q1069
Lab Sample ID:	PB166035BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 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
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	78.0	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	80.0	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	130	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	74.6	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	137		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	136		34 - 127		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.4		37 - 122		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.6		44 - 115		98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	153		39 - 132		102%	SPK: 150
1718-51-0	Terphenyl-d14	82.6		54 - 127		83%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.816				
1146-65-2	Naphthalene-d8	539000	8.098				
15067-26-2	Acenaphthene-d10	277000	9.857				
1517-22-2	Phenanthrene-d10	476000	11.339				
1719-03-5	Chrysene-d12	382000	13.98				
1520-96-3	Perylene-d12	303000	15.439				
TENTATIVE IDENTIFIED COMPOUNDS							
004744-10-9	Propane, 1,1-dimethoxy-	110	J			2.23	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	100	A			5.05	ug/Kg

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	
Client Sample ID:	PB166035BL			SDG No.:	Q1069
Lab Sample ID:	PB166035BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.03	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
BF141169.D	1	01/13/25 08:54	01/15/25 12:11	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)

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\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Quant Time: Jan 15 12:36:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

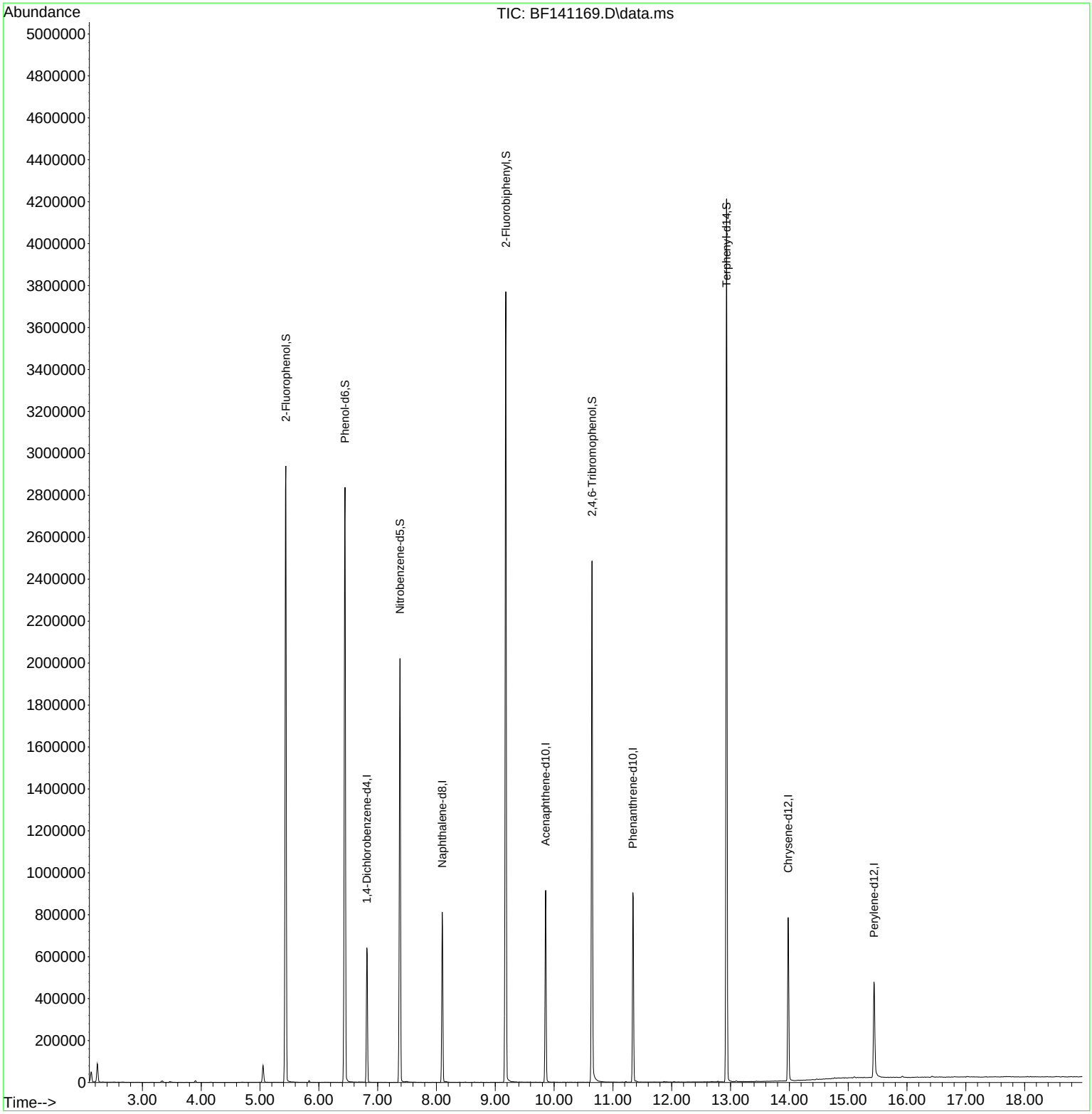
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.816	152	136764	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	539364	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	276861	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	476305	20.000	ng	0.00
76) Chrysene-d12	13.980	240	381699	20.000	ng	0.00
86) Perylene-d12	15.439	264	303475	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	1215399	137.284	ng	0.01
7) Phenol-d6	6.445	99	1520117	135.550	ng	0.00
23) Nitrobenzene-d5	7.381	82	981325	96.444	ng	0.00
42) 2,4,6-Tribromophenol	10.645	330	482388	152.913	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	1769689	97.608	ng	0.00
79) Terphenyl-d14	12.933	244	2122117	82.634	ng	0.00
Target Compounds						Qvalue

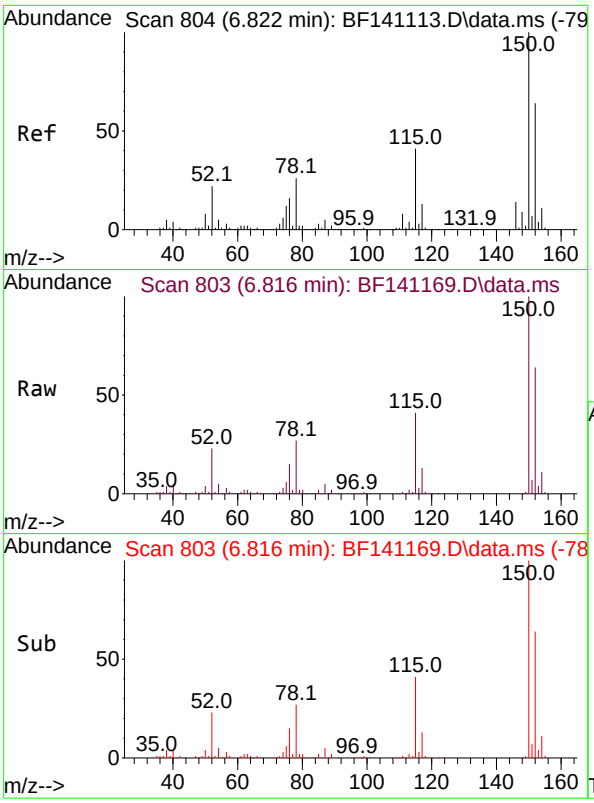
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Quant Time: Jan 15 12:36:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



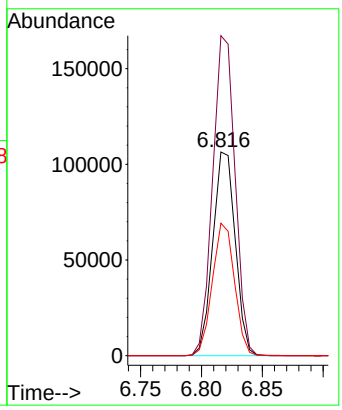


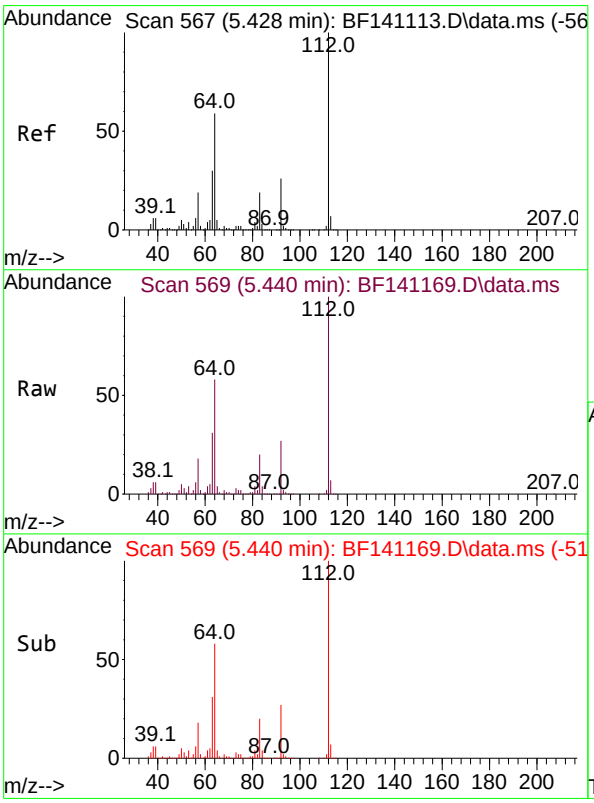
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Tgt Ion:152 Resp: 136764

Ion	Ratio	Lower	Upper
152	100		
150	157.2	125.8	188.8
115	65.1	51.4	77.2

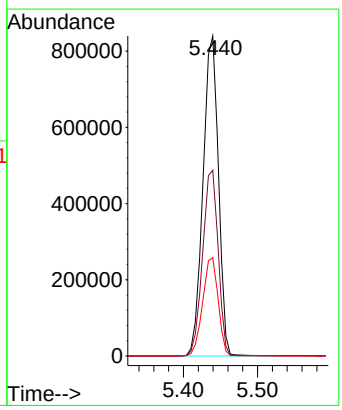


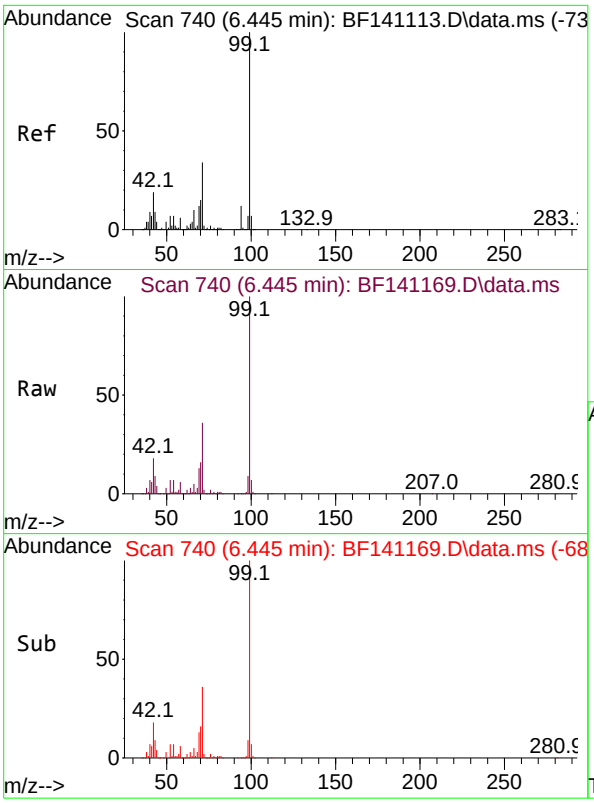


#5
2-Fluorophenol
Concen: 137.284 ng
RT: 5.440 min Scan# 569
Delta R.T. 0.012 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Tgt Ion:112 Resp: 1215399

Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.3	70.9
63	30.7	24.2	36.2



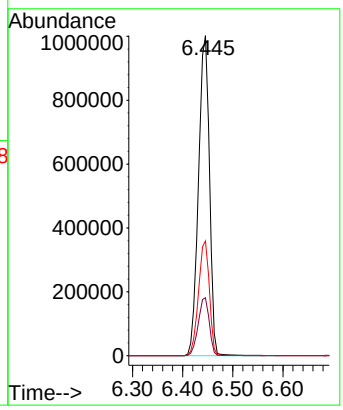


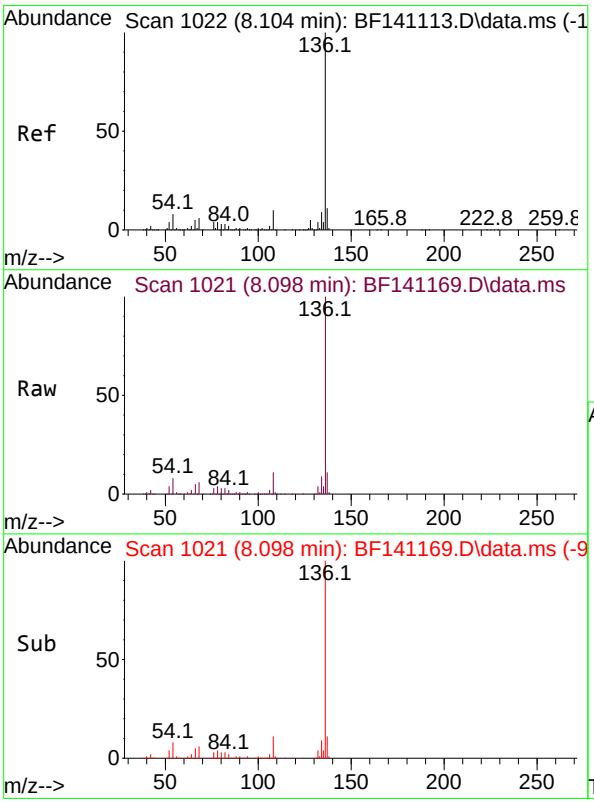
#7
Phenol-d6
Concen: 135.550 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Tgt Ion: 99 Resp: 1520117

Ion	Ratio	Lower	Upper
99	100		
42	18.1	15.0	22.4
71	35.9	27.6	41.4

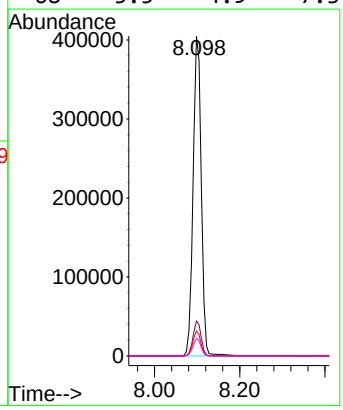


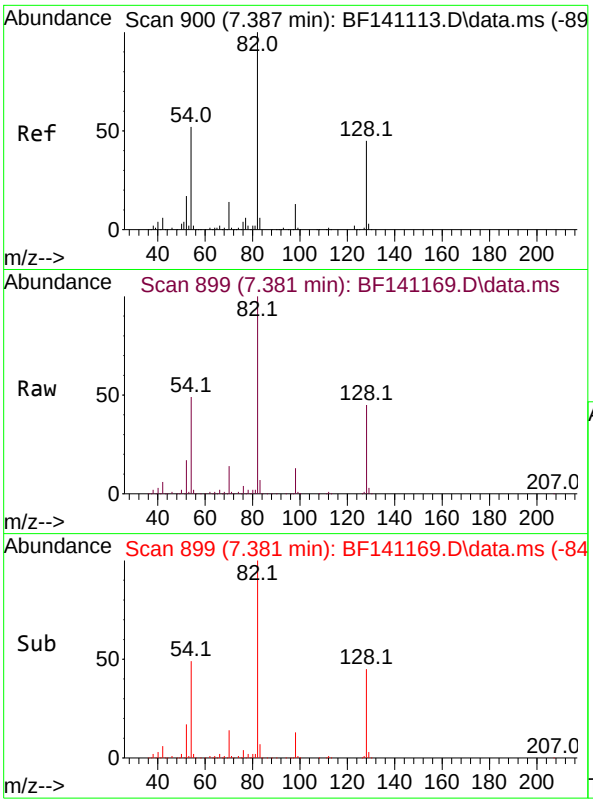


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Tgt Ion:136 Resp: 539364

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.7	6.3	9.5
68	5.5	4.9	7.3



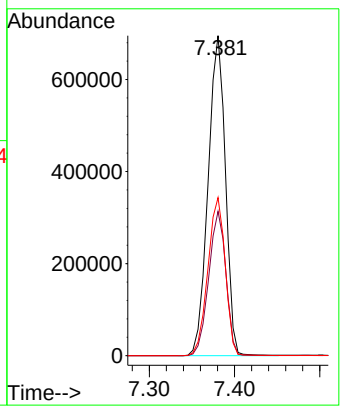


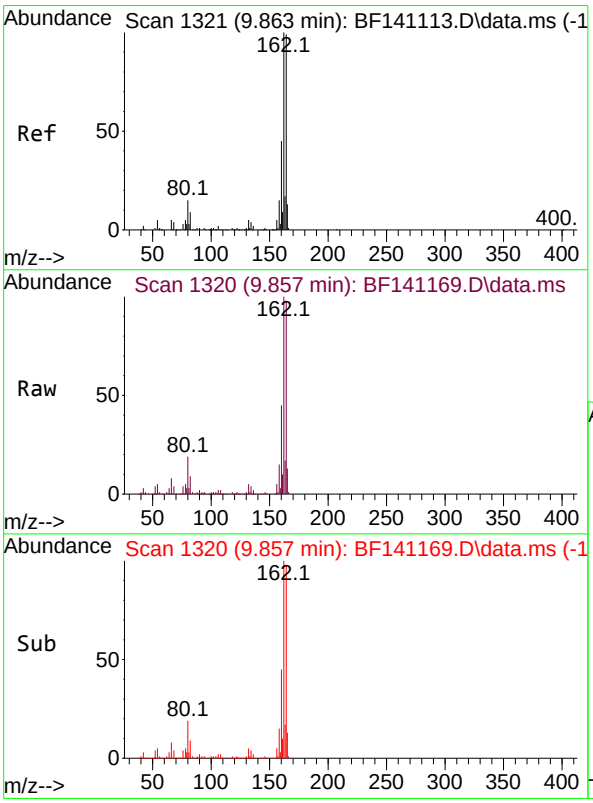
#23
Nitrobenzene-d5
Concen: 96.444 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Tgt Ion: 82 Resp: 981325

Ion	Ratio	Lower	Upper
82	100		
128	45.1	36.1	54.1
54	49.4	41.0	61.4

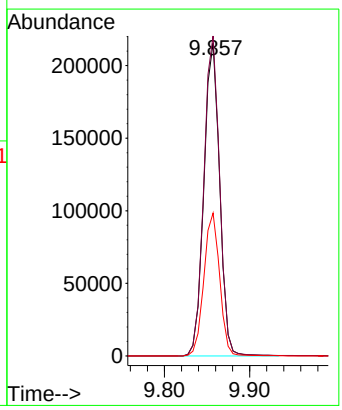


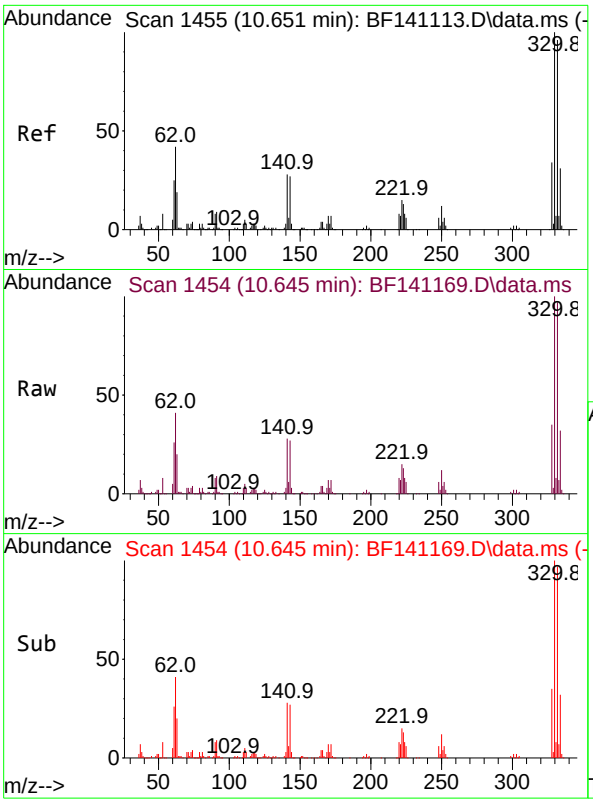


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Tgt Ion:164 Resp: 276861

Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.0	121.4
160	45.7	36.1	54.1



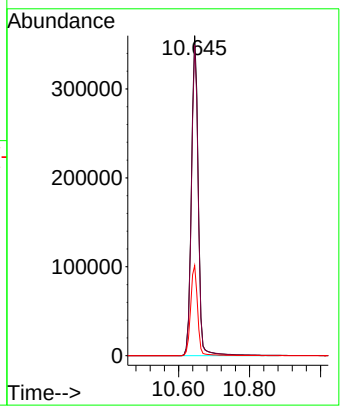


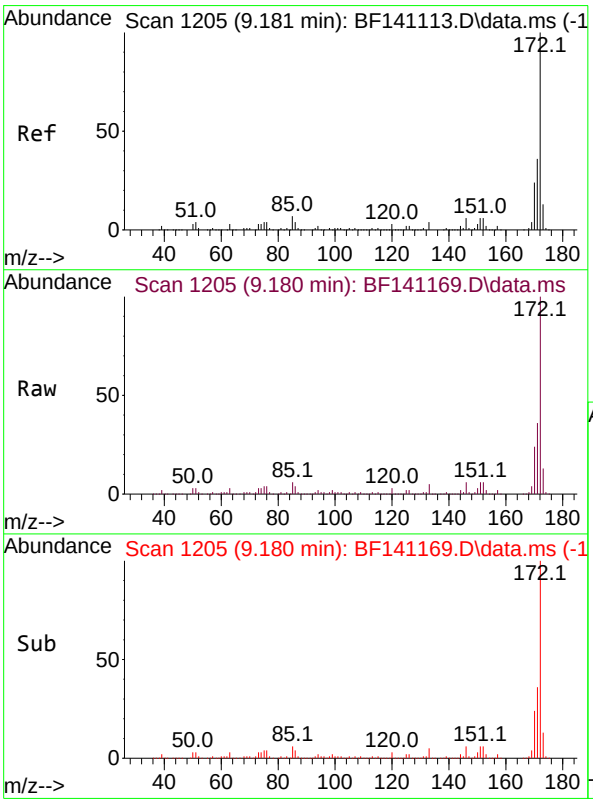
#42
2,4,6-Tribromophenol
Concen: 152.913 ng
RT: 10.645 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Tgt Ion:330 Resp: 482388

Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.9	115.3
141	28.7	25.2	37.8

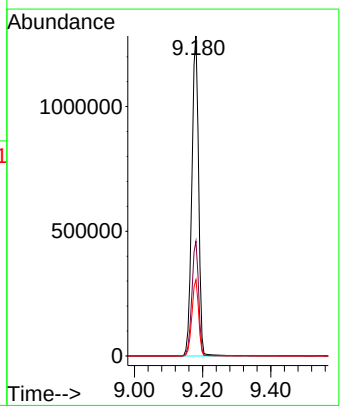


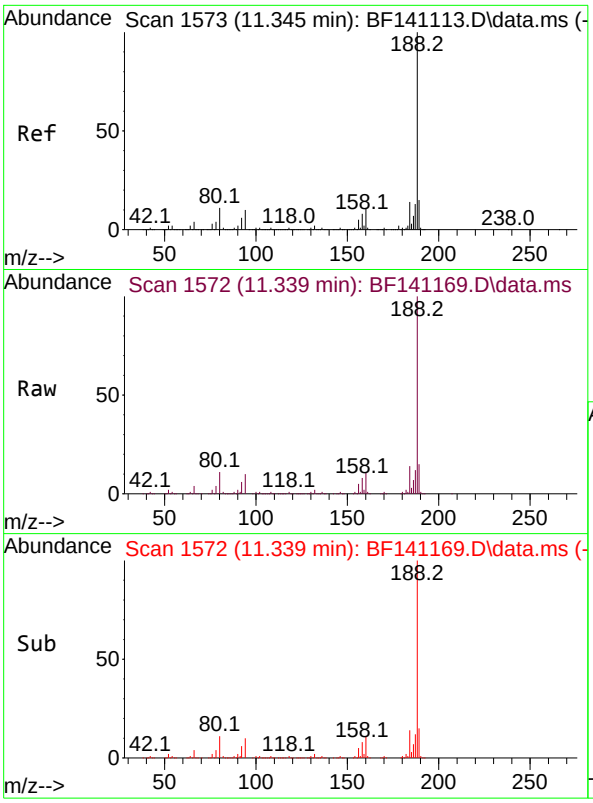


#45
2-Fluorobiphenyl
Concen: 97.608 ng
RT: 9.180 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Tgt Ion:172 Resp: 1769689

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.7	43.1
170	23.8	19.0	28.6



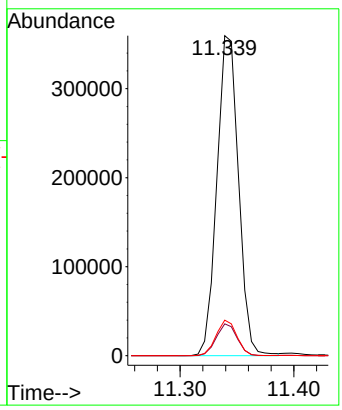


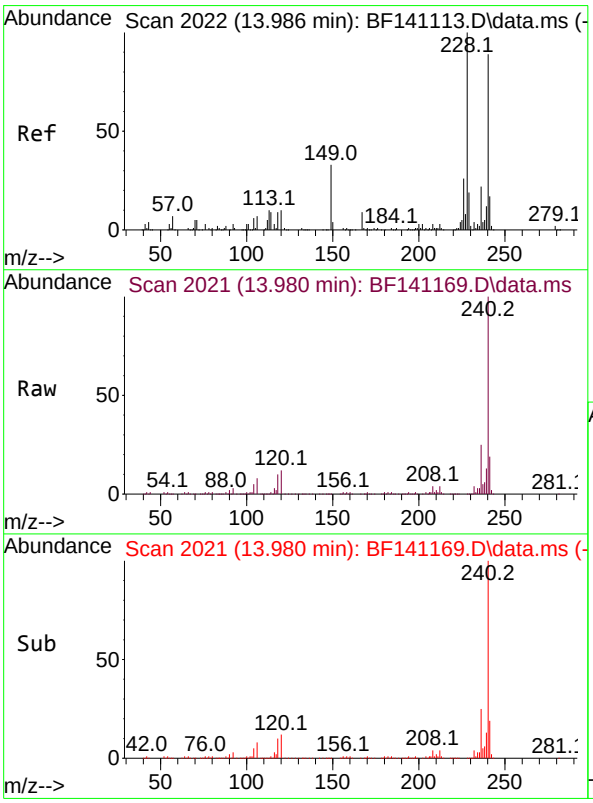
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Tgt Ion:188 Resp: 476305

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.3	12.5
80	11.1	9.0	13.4

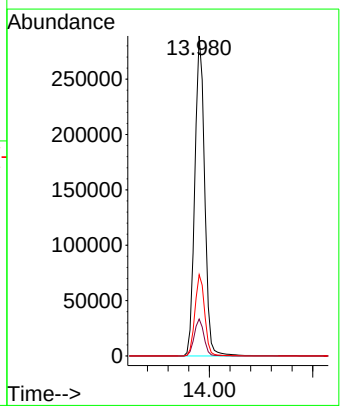


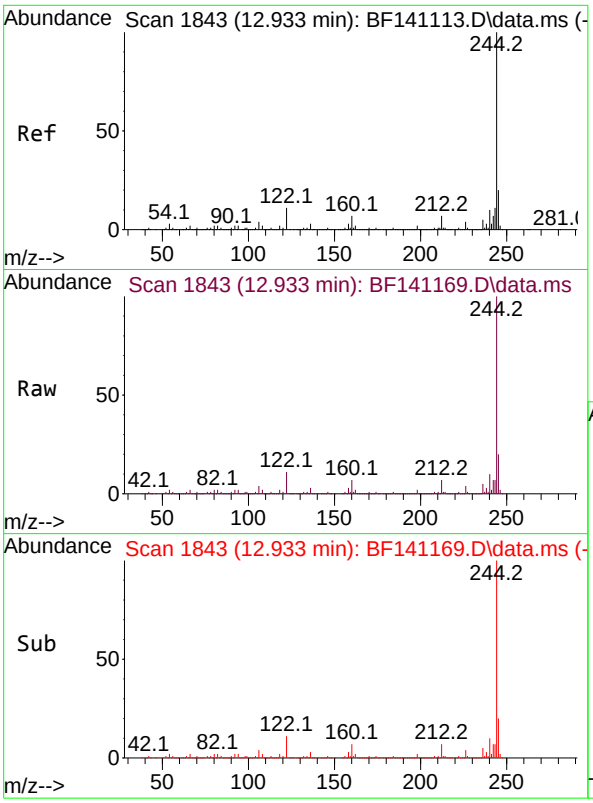


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Tgt Ion:240 Resp: 381699

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.1	13.7
236	25.4	19.8	29.6



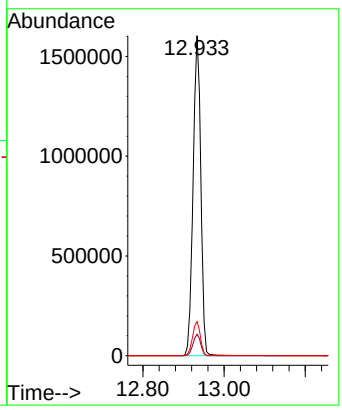


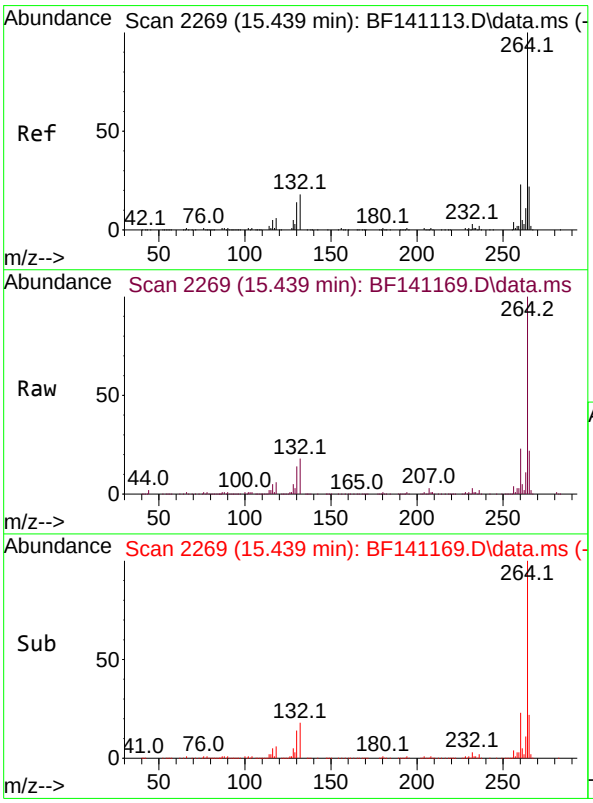
#79
Terphenyl-d14
Concen: 82.634 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Tgt Ion:244 Resp: 2122117

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	10.7	8.8	13.2

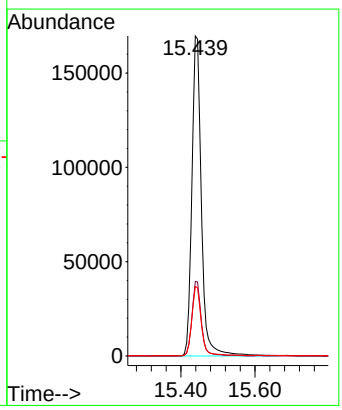




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF141169.D
Acq: 15 Jan 2025 12:11

Tgt Ion:264 Resp: 303475

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.7	17.4	26.0



Sample Results: **BF141169.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BL

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-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141169.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.128	3	6	13	rVB	48110	74147	1.34%	0.233%
2	2.234	14	24	31	rVB	86883	137279	2.48%	0.432%
3	5.051	496	503	510	rBV	80207	127756	2.31%	0.402%
4	5.440	562	569	574	rBV	2938638	4252690	76.85%	13.368%
5	6.445	732	740	745	rBV	2837238	4276632	77.29%	13.444%
6	6.816	798	803	809	rBV	640566	811206	14.66%	2.550%
7	7.381	892	899	904	rBV	2021409	2844816	51.41%	8.943%
8	8.098	1015	1021	1027	rBV	812104	1063375	19.22%	3.343%
9	9.180	1198	1205	1210	rBV	3770024	5142662	92.94%	16.166%
10	9.857	1314	1320	1337	rBV	915350	1180798	21.34%	3.712%
11	10.645	1448	1454	1482	rBV	2484994	3354611	60.62%	10.545%
12	11.339	1567	1572	1579	rBV	903538	1187948	21.47%	3.734%
13	12.933	1837	1843	1848	rBV	4210802	5533457	100.00%	17.394%
14	13.980	2016	2021	2033	rBV	779121	1023560	18.50%	3.218%
15	15.439	2263	2269	2291	rBV	455216	800639	14.47%	2.517%

Sum of corrected areas: 31811576

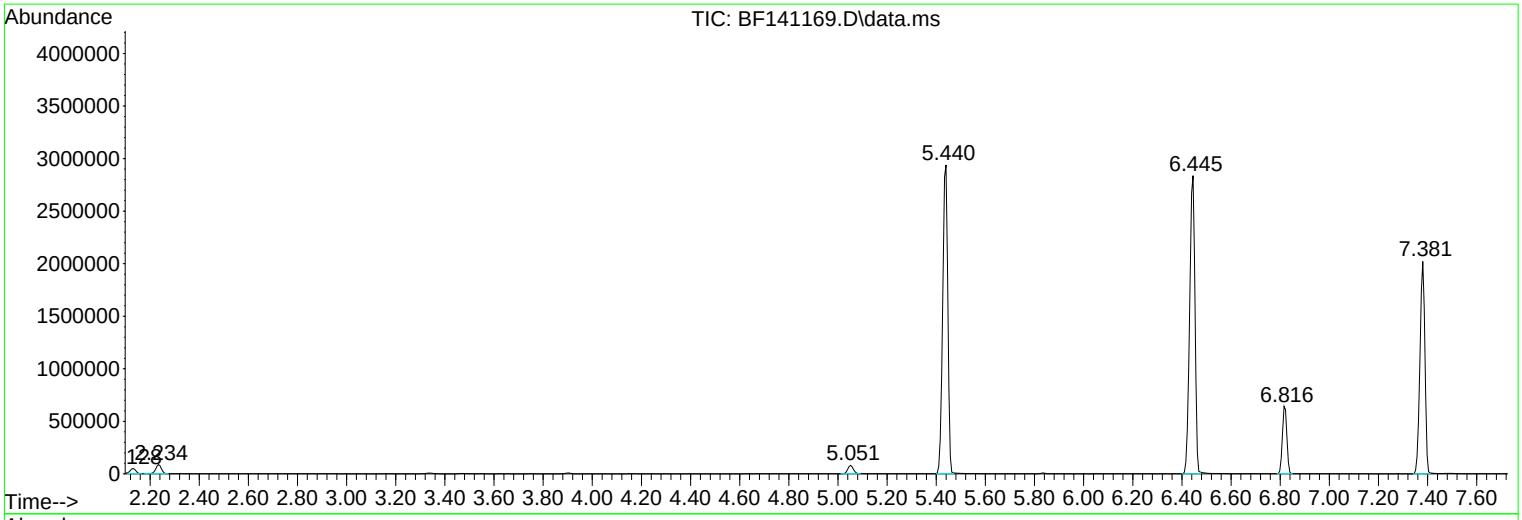
Sample Results: **BF141169.D**

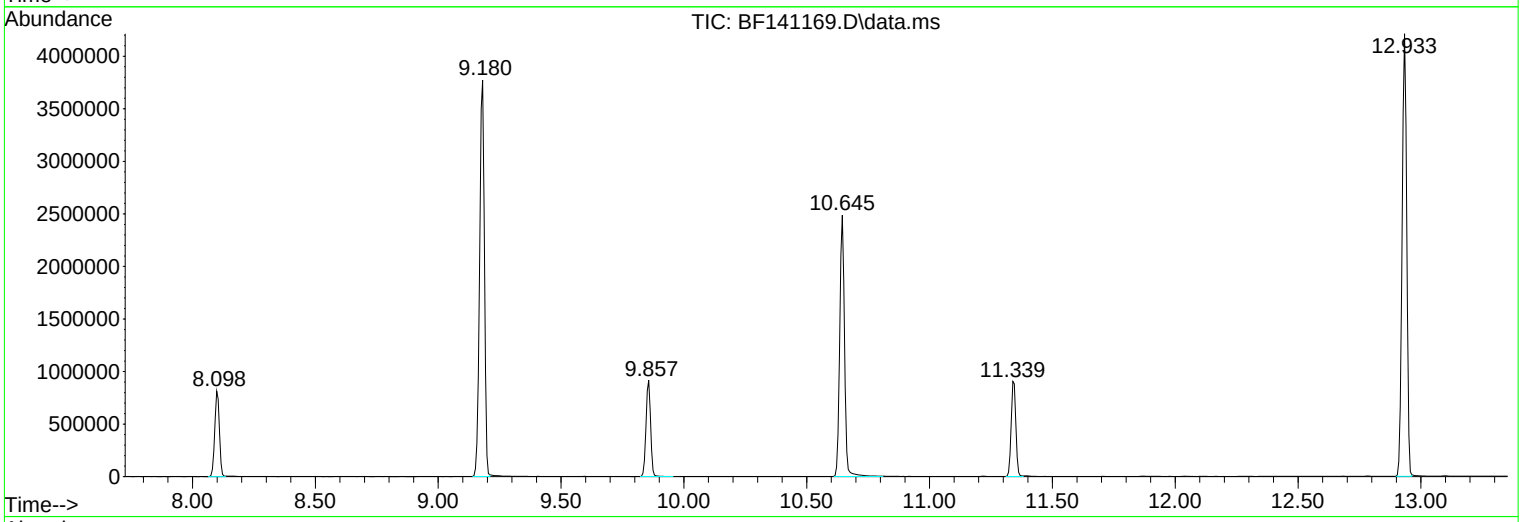
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

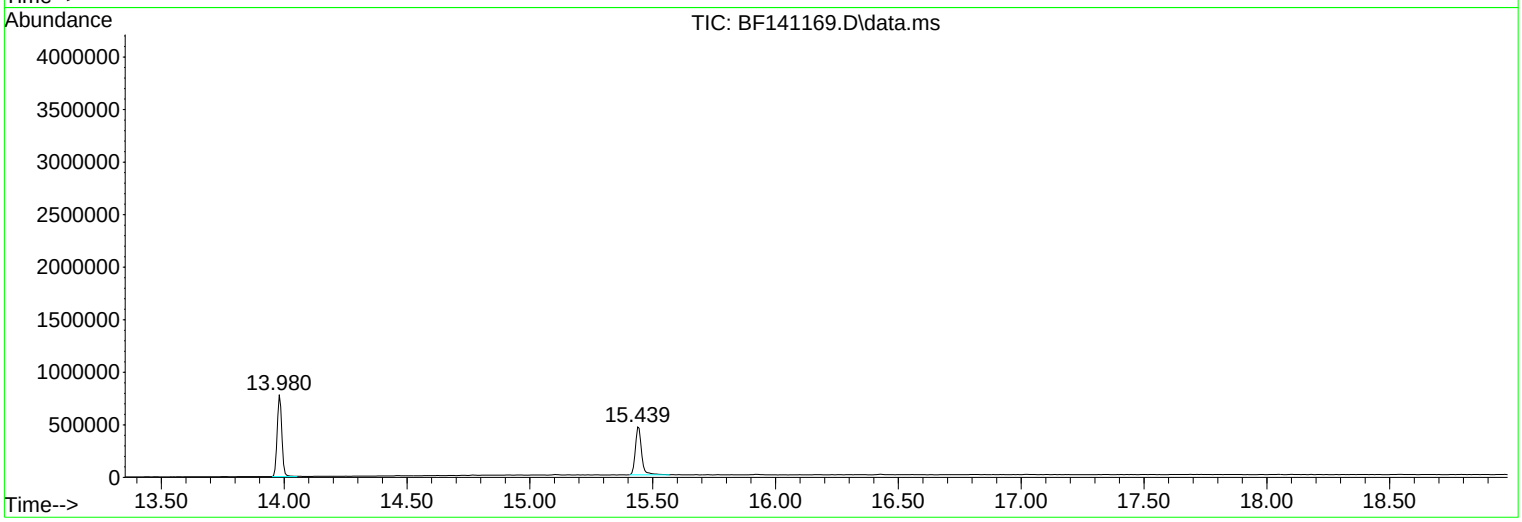
Instrument :
BNA_F
ClientSampleId :
PB166035BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.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\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

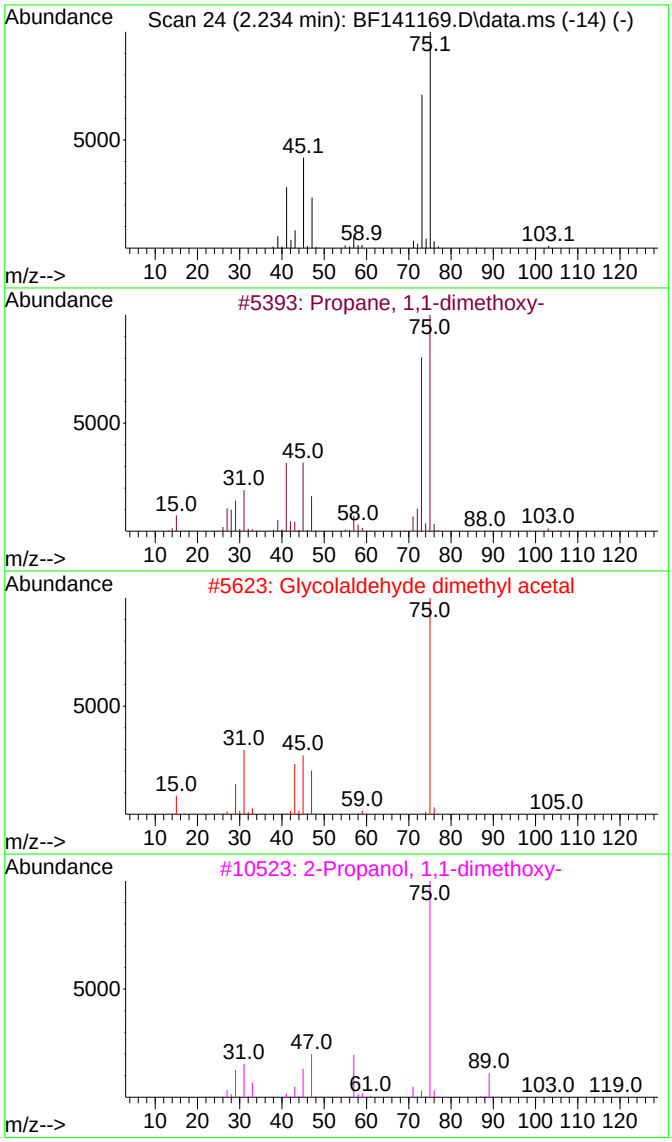
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

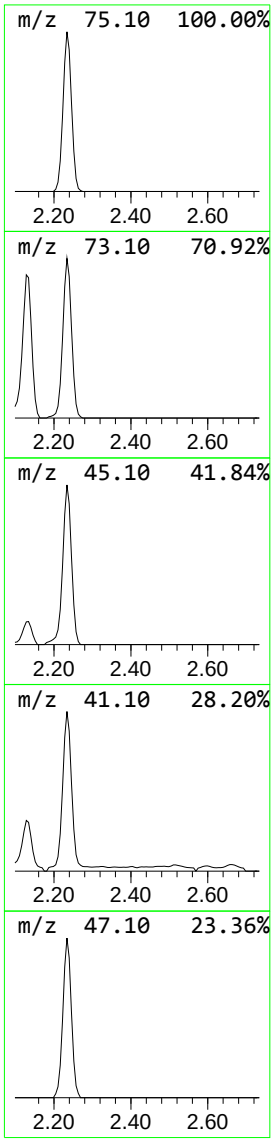
****

Peak Number 1 Propane, 1,1-dimethoxy- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.234	3.38 ng	137279	1,4-Dichlorobenzene-d4	6.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	64
2	Glycolaldehyde dimethyl acetal	106	C4H10O3	030934-97-5	45
3	2-Propanol, 1,1-dimethoxy-	120	C5H12O3	042919-42-6	36
4	Methane, trimethoxy-	106	C4H10O3	000149-73-5	33
5	Aminoacetaldehyde dimethyl acetal	105	C4H11NO2	022483-09-6	33





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BL

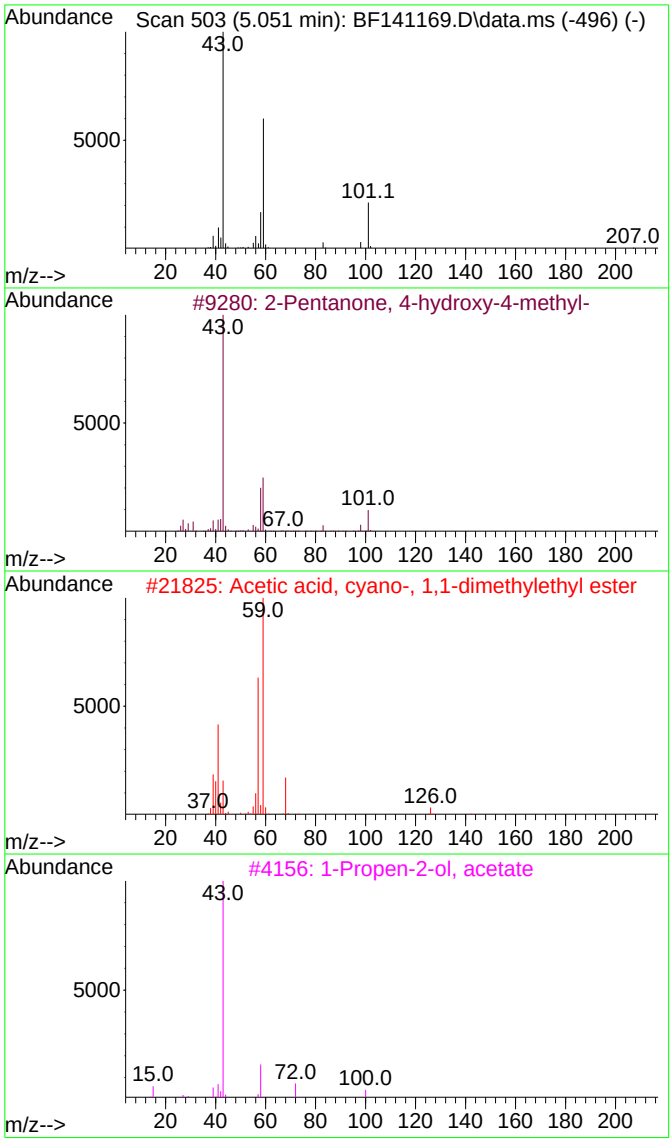
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

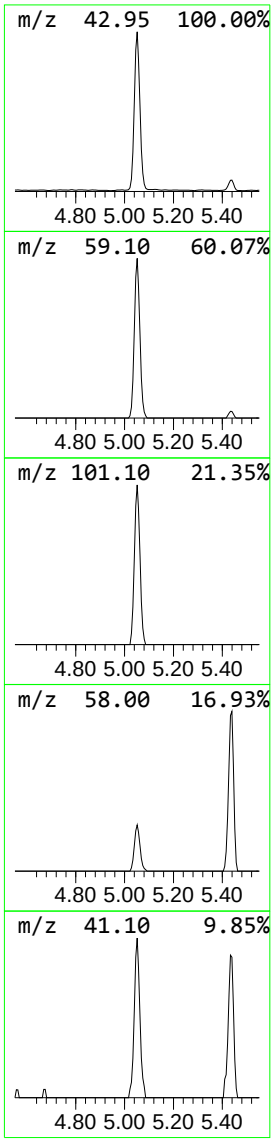
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.051	3.15 ng	127756	1,4-Dichlorobenzene-d4	6.816

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Acetone	58	C3H6O	000067-64-1	10
5	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141169.D
Acq On : 15 Jan 2025 12:11
Operator : RC/JU
Sample : PB166035BL
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Propane, 1,1-di...	2.234	3.4	ng	137279	1	6.816	811206	20.0
2-Pentanone, 4-...	5.051	3.1	ng	127756	1	6.816	811206	20.0

Raw Data: **BF141171.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166061BL	SDG No.:	Q1069
Lab Sample ID:	PB166061BL	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
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	270	U	180	270	330	ug/Kg
108-95-2	Phenol	130	U	82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	130	U	83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	130	U	83.4	130	170	ug/Kg
95-48-7	2-Methylphenol	130	U	80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	130	U	90.8	130	170	ug/Kg
98-86-2	Acetophenone	130	U	86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	270	U	79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	79.9	U	40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	130	U	82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	130	U	90.7	130	170	ug/Kg
78-59-1	Isophorone	130	U	84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	130	U	94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	130	U	93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	130	U	85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	75.4	130	170	ug/Kg
91-20-3	Naphthalene	130	U	82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	130	U	82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	130	U	83.2	130	170	ug/Kg
105-60-2	Caprolactam	270	U	86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	130	U	82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	U	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	74.0	130	170	ug/Kg
92-52-4	1,1-Biphenyl	130	U	87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	130	U	83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	130	U	94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	130	U	81.6	130	170	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166061BL	SDG No.:	Q1069
Lab Sample ID:	PB166061BL	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
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	130	U	86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	130	U	83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	130	U	89.1	130	170	ug/Kg
83-32-9	Acenaphthene	130	U	81.0	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	270	U	120	270	330	ug/Kg
132-64-9	Dibenzofuran	130	U	84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	130	U	86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	130	U	80.0	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	130	U	85.5	130	170	ug/Kg
86-73-7	Fluorene	130	U	85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	130	U	110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	270	U	120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	130	U	81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	130	U	84.9	130	170	ug/Kg
1912-24-9	Atrazine	130	U	91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	270	U	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	130	U	83.9	130	170	ug/Kg
120-12-7	Anthracene	130	U	84.3	130	170	ug/Kg
86-74-8	Carbazole	130	U	80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	130	U	84.2	130	170	ug/Kg
206-44-0	Fluoranthene	130	U	81.6	130	170	ug/Kg
129-00-0	Pyrene	130	U	82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	130	U	96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	270	U	98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	130	U	80.6	130	170	ug/Kg
218-01-9	Chrysene	130	U	79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	130	U	90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	270	U	110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	U	81.0	130	170	ug/Kg

Raw Data: **BF141171.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166061BL	SDG No.:	Q1069
Lab Sample ID:	PB166061BL	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
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	130	U	82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	78.0	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	130	U	81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	130	U	80.0	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	130	U	86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	130	U	110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	74.7	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	138		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	135		34 - 127		90%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.3		37 - 122		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.1		44 - 115		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	148		39 - 132		99%	SPK: 150
1718-51-0	Terphenyl-d14	82.0		54 - 127		82%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.822				
1146-65-2	Naphthalene-d8	549000	8.098				
15067-26-2	Acenaphthene-d10	287000	9.857				
1517-22-2	Phenanthrene-d10	485000	11.345				
1719-03-5	Chrysene-d12	392000	13.98				
1520-96-3	Perylene-d12	313000	15.451				
TENTATIVE IDENTIFIED COMPOUNDS							
004744-10-9	Propane, 1,1-dimethoxy-	110	J			2.23	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	100	A			5.05	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	
Client Sample ID:	PB166061BL			SDG No.:	Q1069
Lab Sample ID:	PB166061BL			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
BF141171.D	1	01/15/25 09:15	01/15/25 13:12	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)

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\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Quant Time: Jan 15 13:43:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

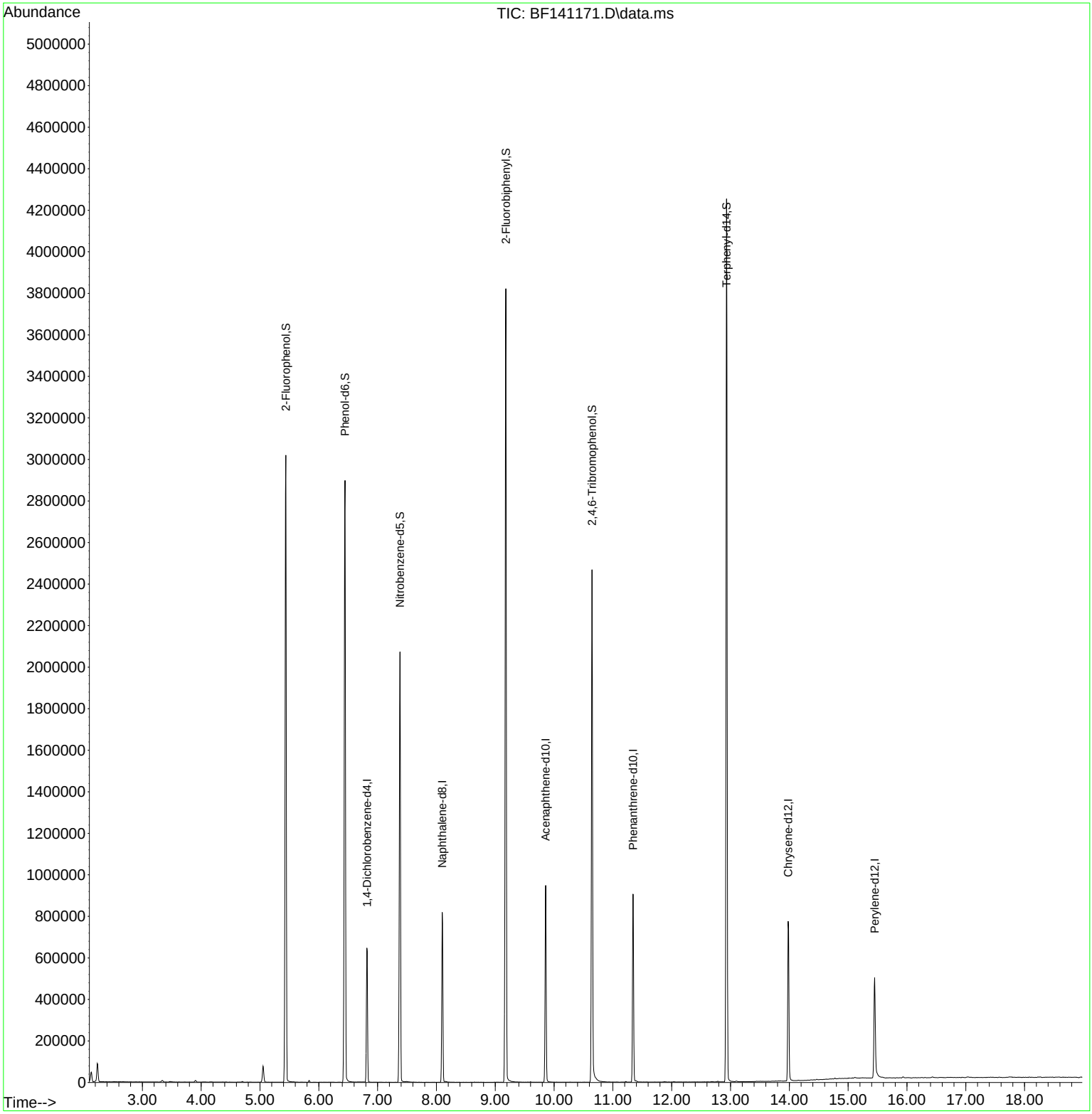
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	139696	20.000	ng	0.00
21) Naphthalene-d8	8.098	136	549482	20.000	ng	0.00
39) Acenaphthene-d10	9.857	164	287376	20.000	ng	0.00
64) Phenanthrene-d10	11.345	188	484833	20.000	ng	0.00
76) Chrysene-d12	13.980	240	391933	20.000	ng	0.00
86) Perylene-d12	15.451	264	312524	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	1249298	138.151	ng	0.01
7) Phenol-d6	6.446	99	1551005	135.402	ng	0.00
23) Nitrobenzene-d5	7.381	82	997879	96.265	ng	0.00
42) 2,4,6-Tribromophenol	10.645	330	486085	148.447	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	1807597	96.051	ng	0.00
79) Terphenyl-d14	12.933	244	2162494	82.007	ng	0.00
Target Compounds						Qvalue

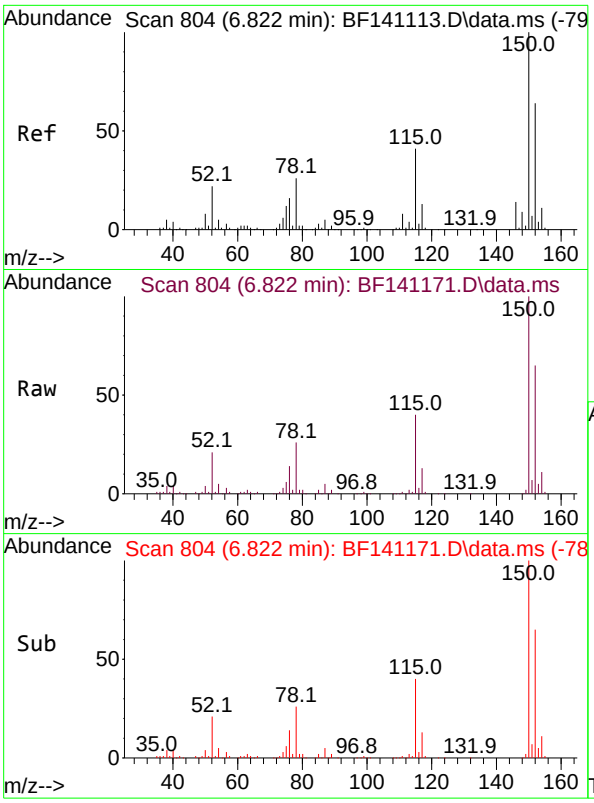
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Quant Time: Jan 15 13:43:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



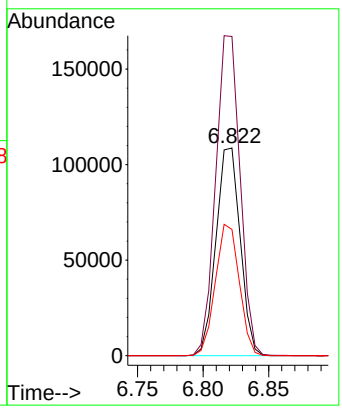


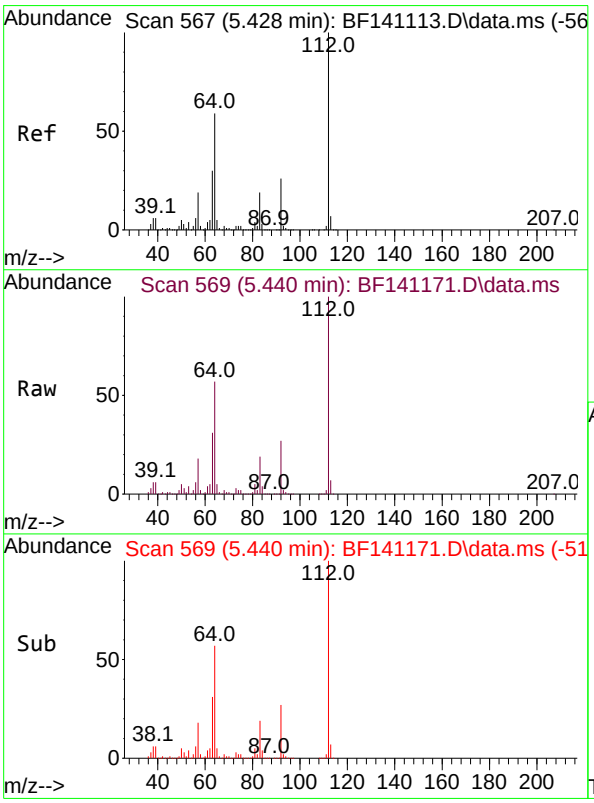
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Tgt Ion:152 Resp: 139696

Ion	Ratio	Lower	Upper
152	100		
150	153.7	125.8	188.8
115	60.8	51.4	77.2

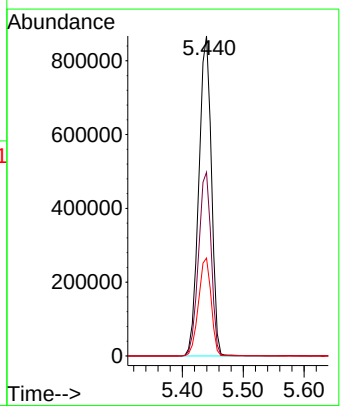


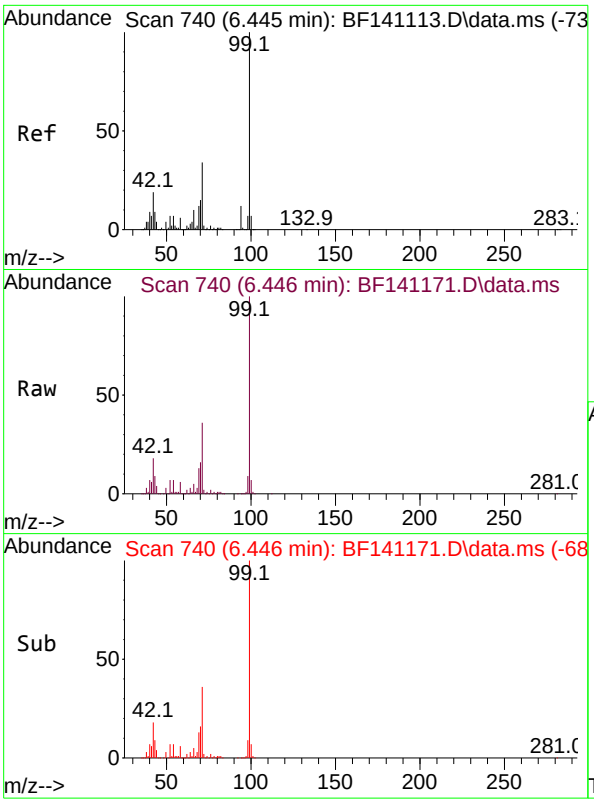


#5
2-Fluorophenol
Concen: 138.151 ng
RT: 5.440 min Scan# 569
Delta R.T. 0.012 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Tgt Ion:112 Resp: 1249298

Ion	Ratio	Lower	Upper
112	100		
64	57.4	47.3	70.9
63	30.6	24.2	36.2



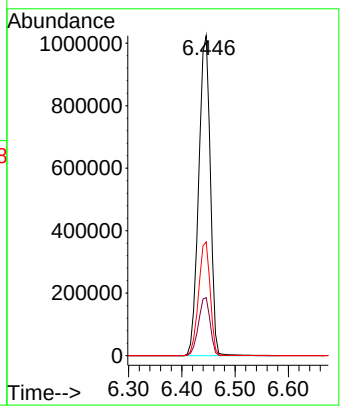


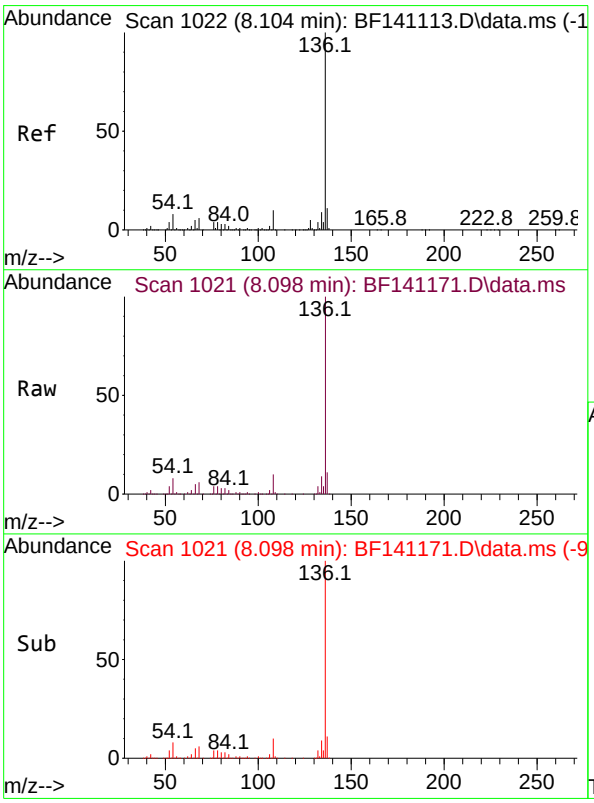
#7
Phenol-d6
Concen: 135.402 ng
RT: 6.446 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Tgt Ion: 99 Resp: 1551005

Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.0	22.4
71	35.6	27.6	41.4

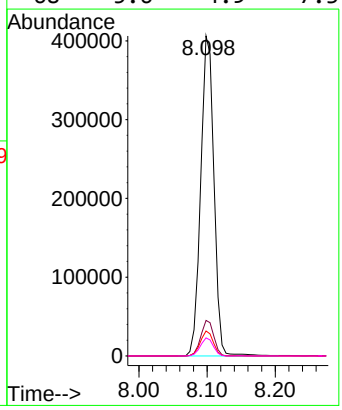


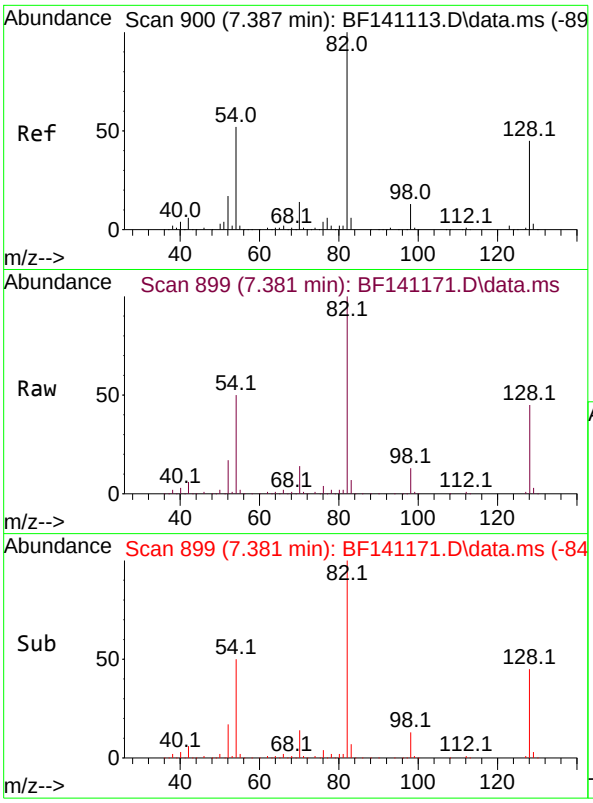


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.098 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Tgt Ion:136 Resp: 549482

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	7.8	6.3	9.5
68	5.6	4.9	7.3



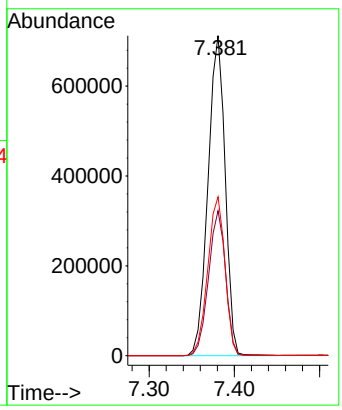


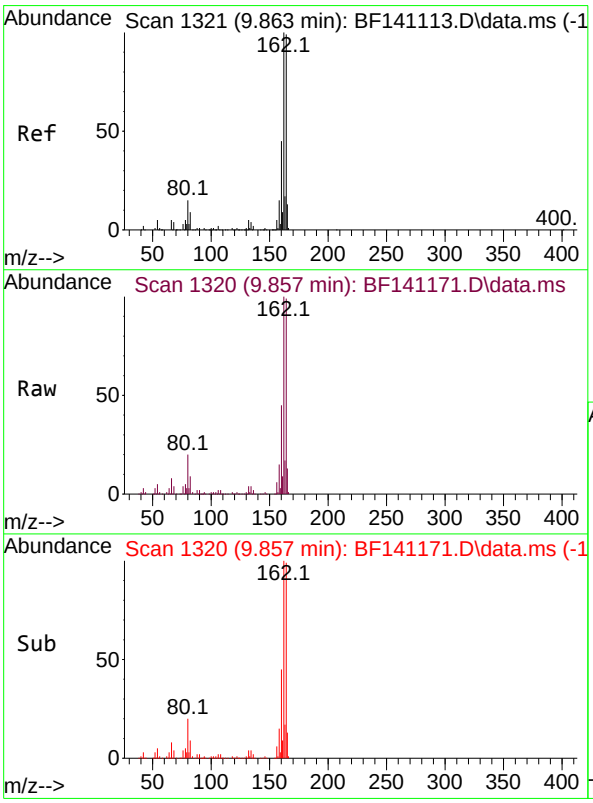
#23
Nitrobenzene-d5
Concen: 96.265 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Tgt Ion: 82 Resp: 997879

Ion	Ratio	Lower	Upper
82	100		
128	45.3	36.1	54.1
54	49.7	41.0	61.4

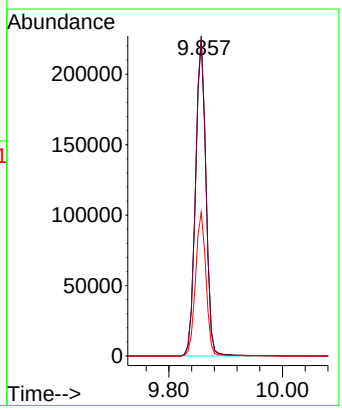


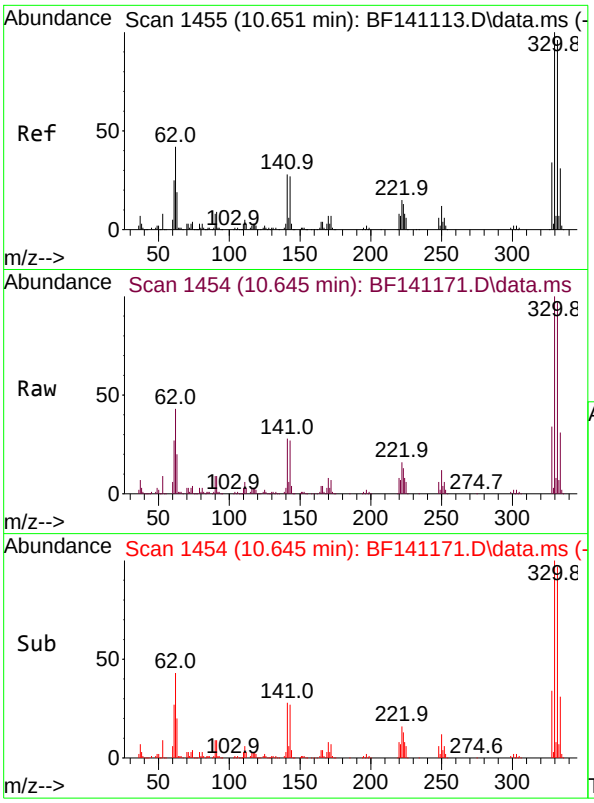


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Tgt Ion:164 Resp: 287376

Ion	Ratio	Lower	Upper
164	100		
162	101.4	81.0	121.4
160	45.5	36.1	54.1



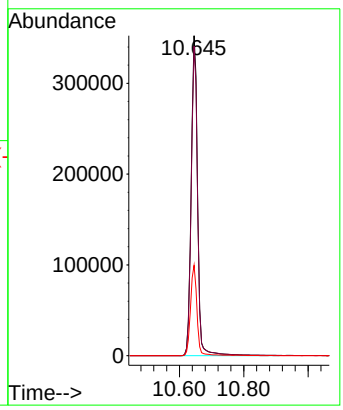


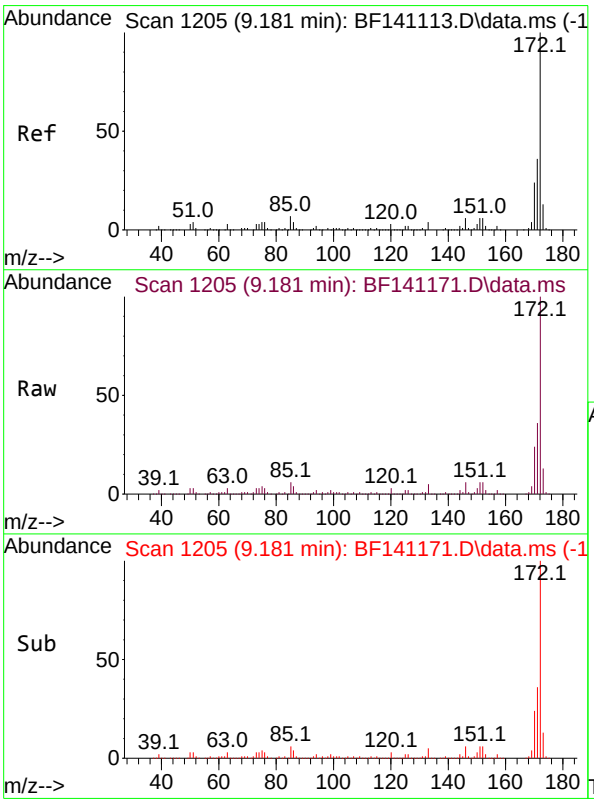
#42
2,4,6-Tribromophenol
Concen: 148.447 ng
RT: 10.645 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Tgt Ion:330 Resp: 486085

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	28.4	25.2	37.8

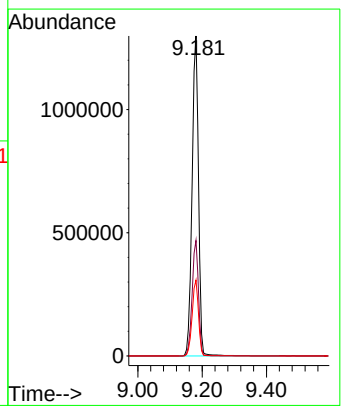


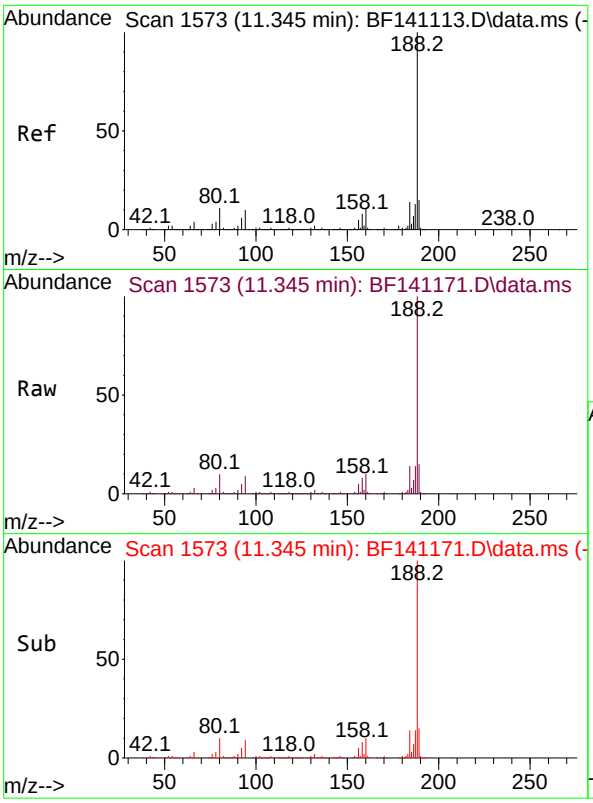


#45
2-Fluorobiphenyl
Concen: 96.051 ng
RT: 9.181 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Tgt Ion:172 Resp: 1807597

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.7	19.0	28.6



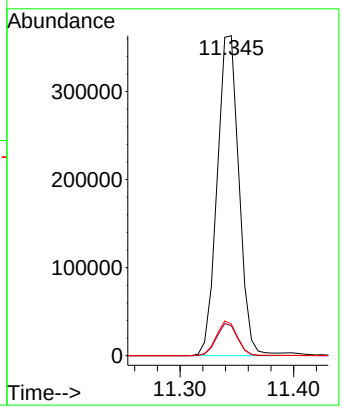


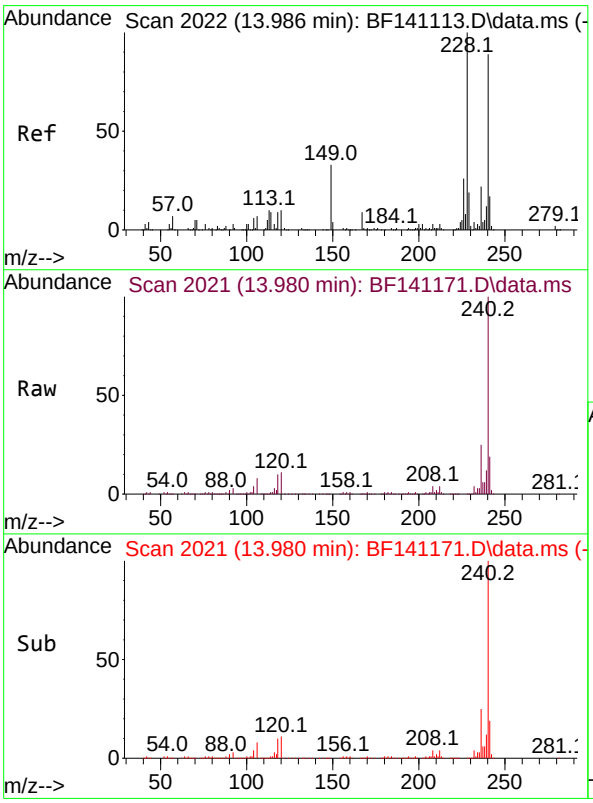
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Tgt Ion:188 Resp: 484833

Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.3	12.5
80	9.9	9.0	13.4

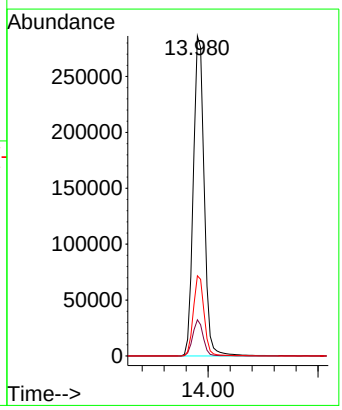


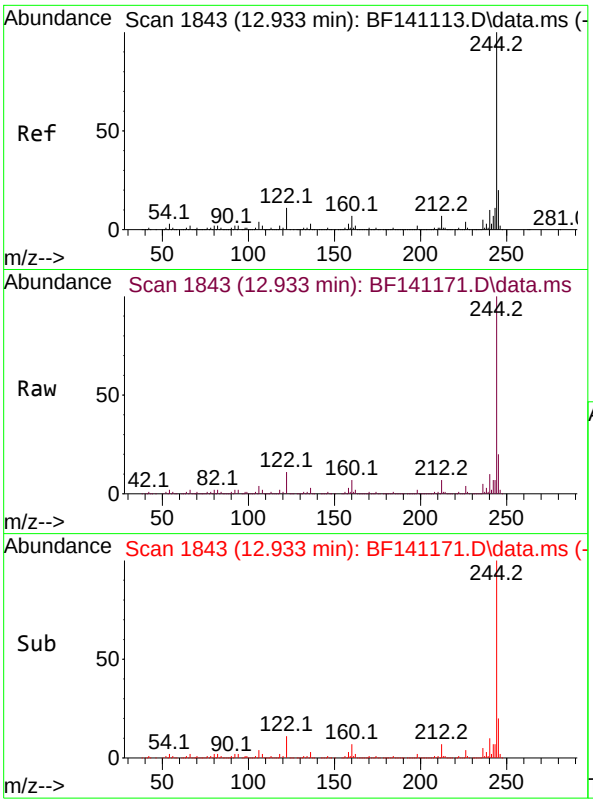


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Tgt Ion:240 Resp: 391933

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.1	13.7
236	25.0	19.8	29.6



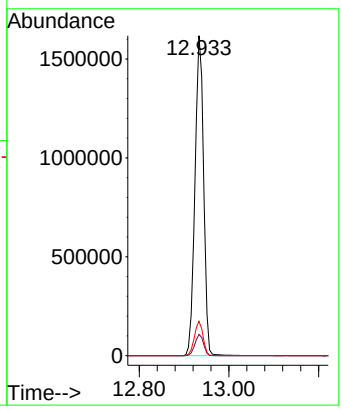


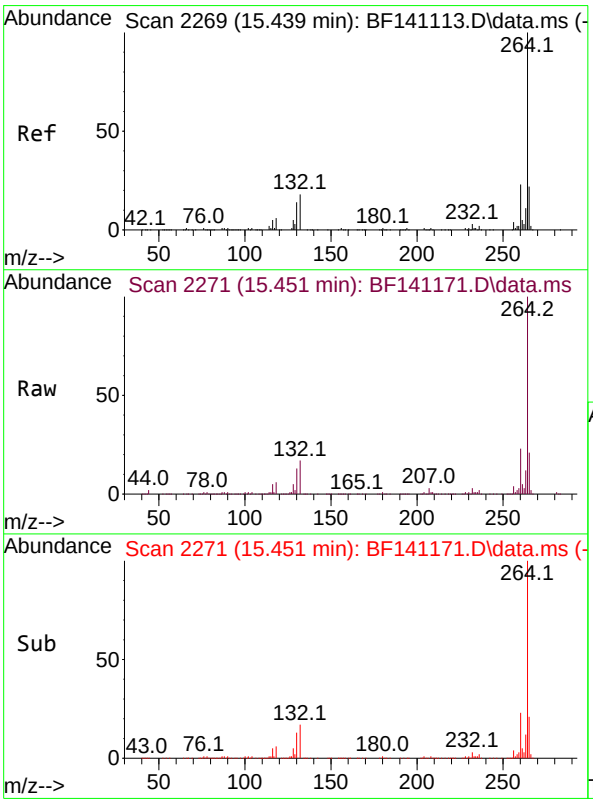
#79
Terphenyl-d14
Concen: 82.007 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Tgt Ion:244 Resp: 2162494

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	10.7	8.8	13.2

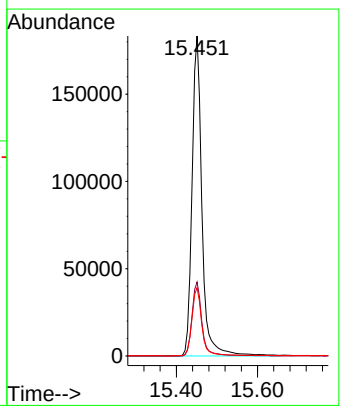




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141171.D
Acq: 15 Jan 2025 13:12

Tgt Ion:264 Resp: 312524

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.3	17.4	26.0



Sample Results: **BF141171.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BL

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-BF011025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141171.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.134	3	7	13	rVB	46007	72325	1.29%	0.223%
2	2.234	14	24	31	rBV	87532	140956	2.50%	0.435%
3	5.051	493	503	510	rBV	76985	129588	2.30%	0.400%
4	5.440	562	569	574	rBV	3019285	4341134	77.14%	13.384%
5	6.446	732	740	745	rBV	2897707	4358591	77.46%	13.438%
6	6.816	798	803	809	rBV	645672	824989	14.66%	2.543%
7	7.381	892	899	904	rBV	2072600	2897354	51.49%	8.933%
8	8.098	1015	1021	1027	rBV	818145	1088162	19.34%	3.355%
9	9.181	1197	1205	1210	rBV	3821673	5245602	93.22%	16.173%
10	9.857	1313	1320	1338	rBV	947777	1217700	21.64%	3.754%
11	10.645	1447	1454	1493	rBV	2468141	3418908	60.76%	10.541%
12	11.339	1567	1572	1579	rBV	904024	1203486	21.39%	3.710%
13	12.933	1837	1843	1848	rBV	4251913	5627247	100.00%	17.349%
14	13.980	2016	2021	2031	rBV	768882	1039636	18.48%	3.205%
15	15.451	2264	2271	2291	rBV	484020	829600	14.74%	2.558%

Sum of corrected areas: 32435278

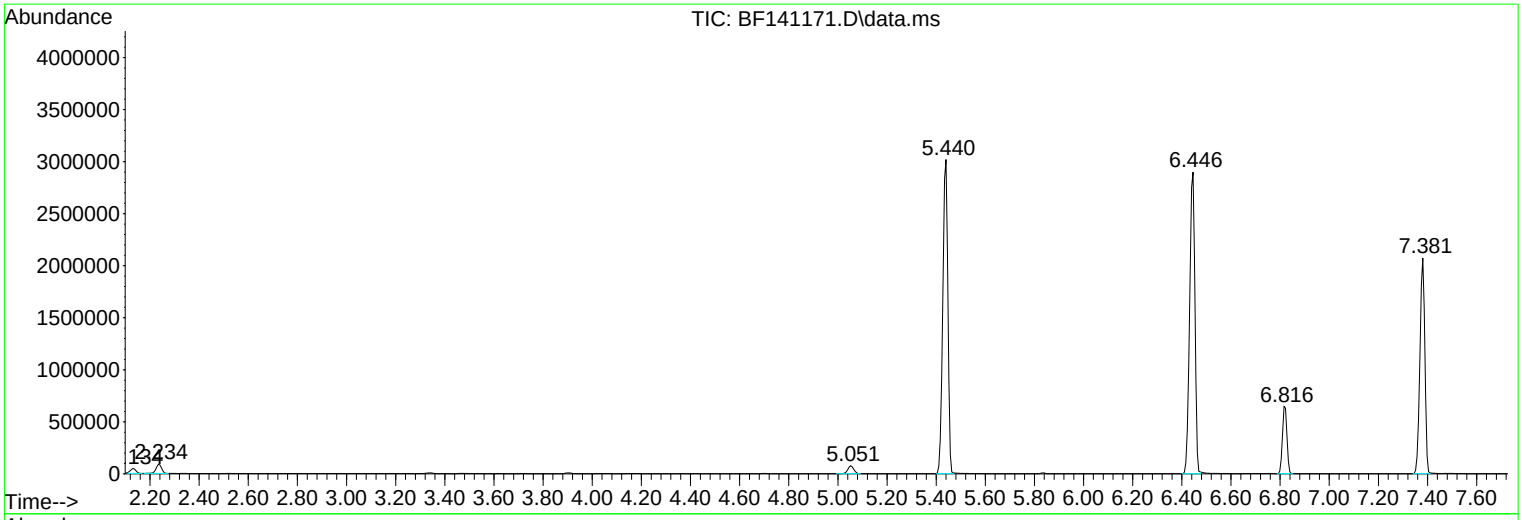
Sample Results: **BF141171.D**

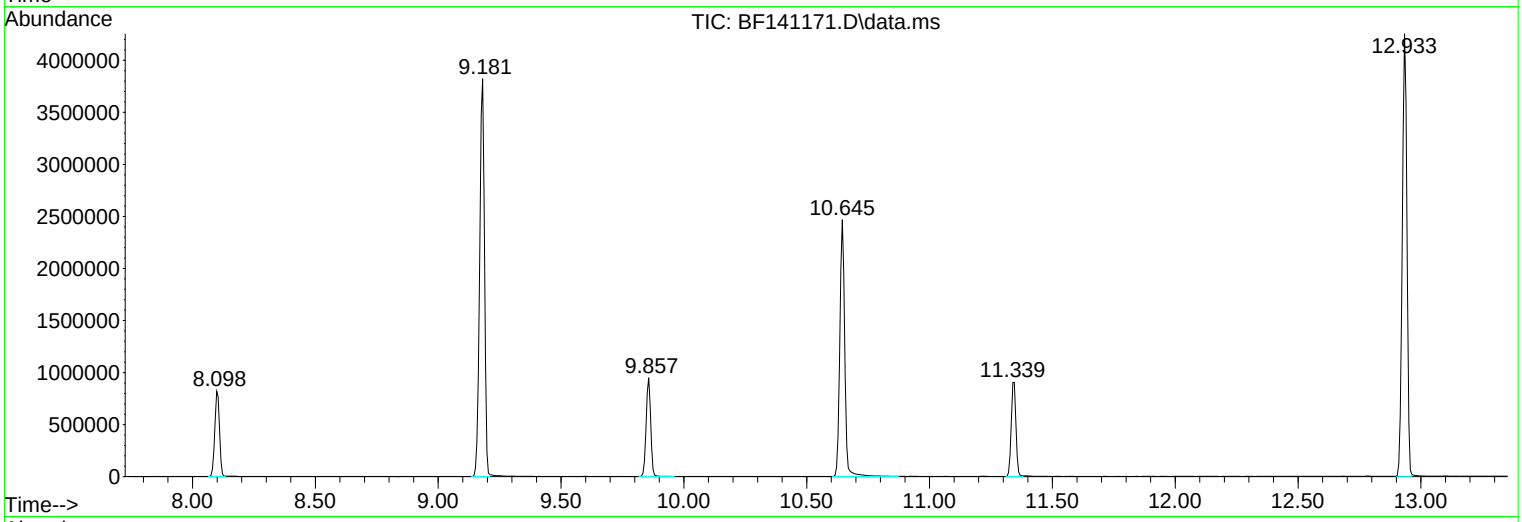
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

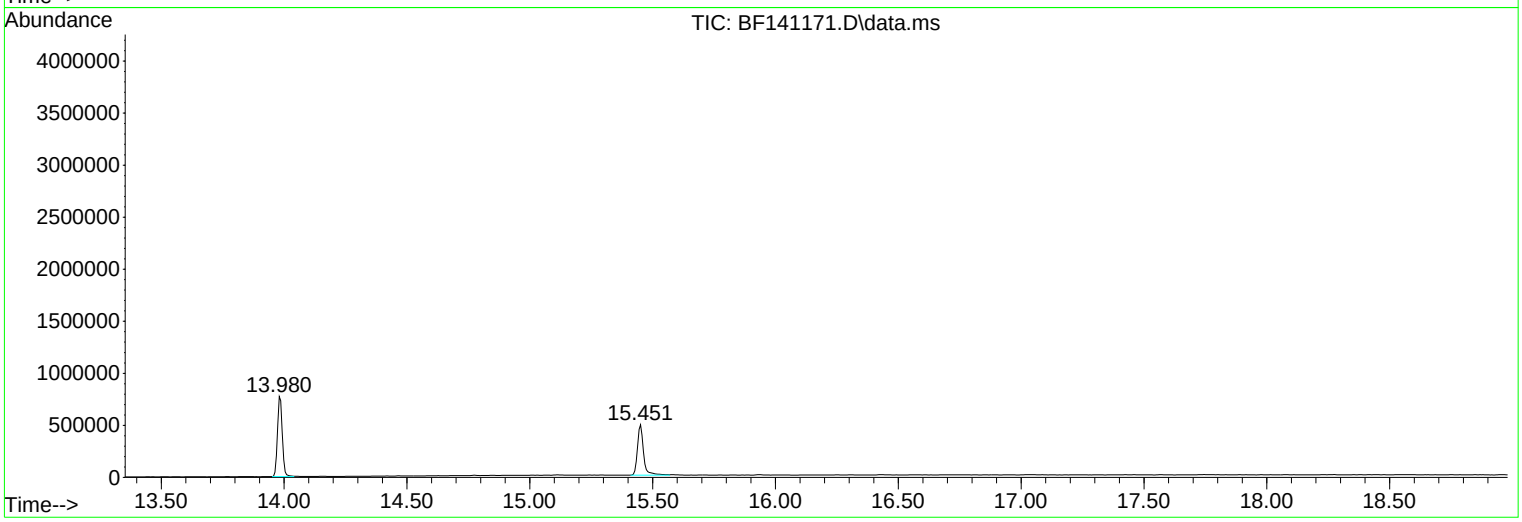
Instrument :
BNA_F
ClientSampleId :
PB166061BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.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\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

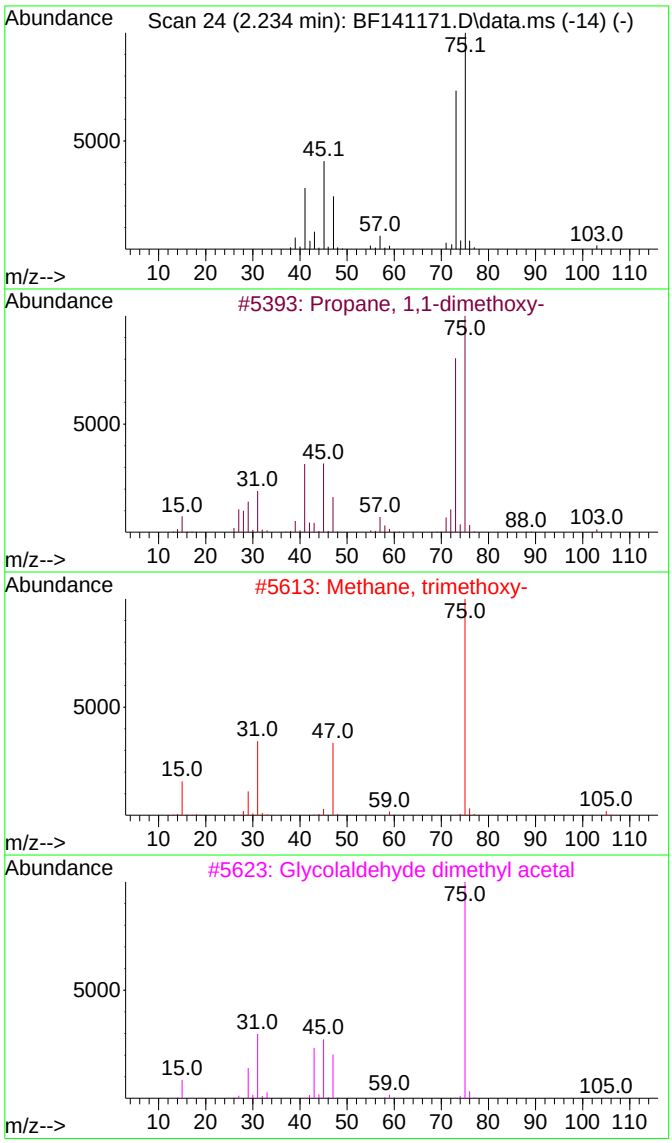
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

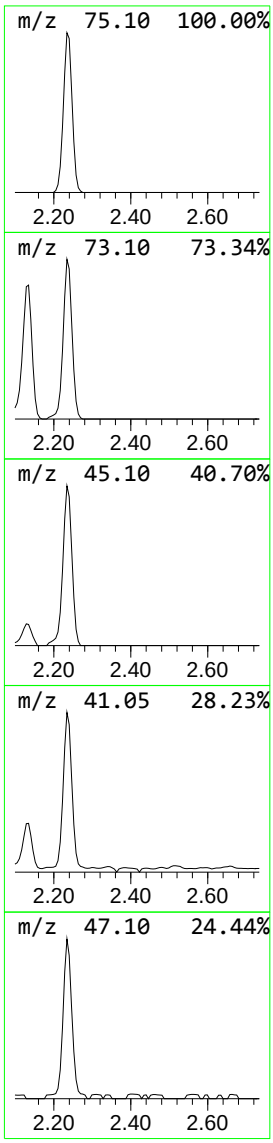
****

Peak Number 1 Propane, 1,1-dimethoxy- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.234	3.42 ng	140956	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	64
2	Methane, trimethoxy-	106	C4H10O3	000149-73-5	38
3	Glycolaldehyde dimethyl acetal	106	C4H10O3	030934-97-5	36
4	Aminoacetaldehyde dimethyl acetal	105	C4H11NO2	022483-09-6	33
5	Acetic acid, dimethoxy-, methyl ...	134	C5H10O4	000089-91-8	28





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BL

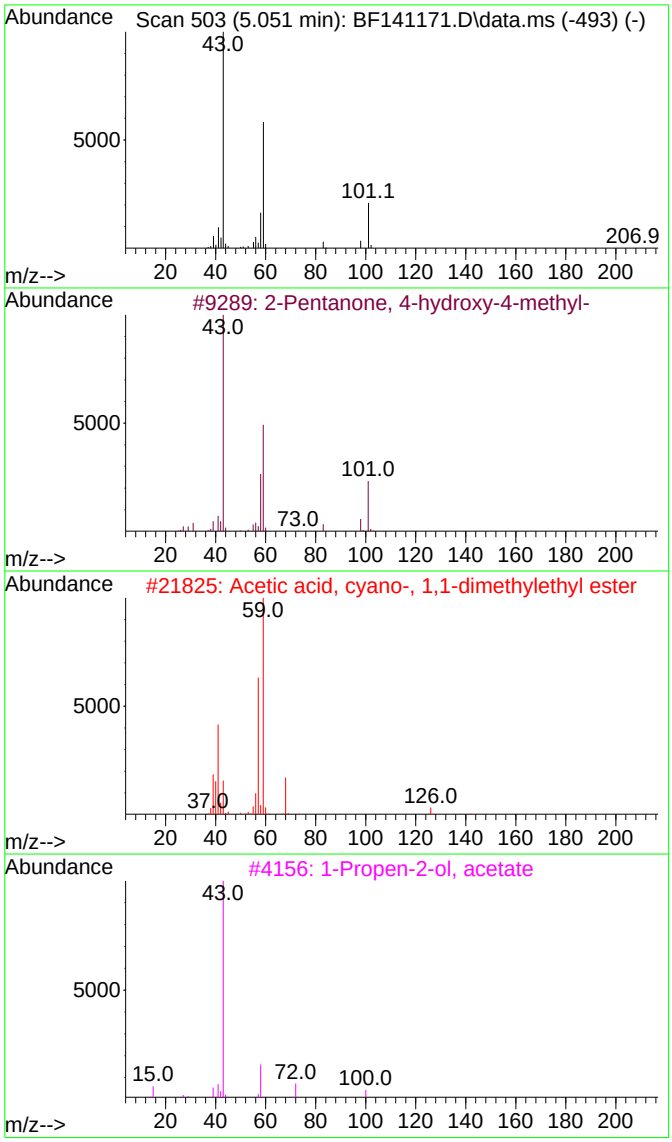
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

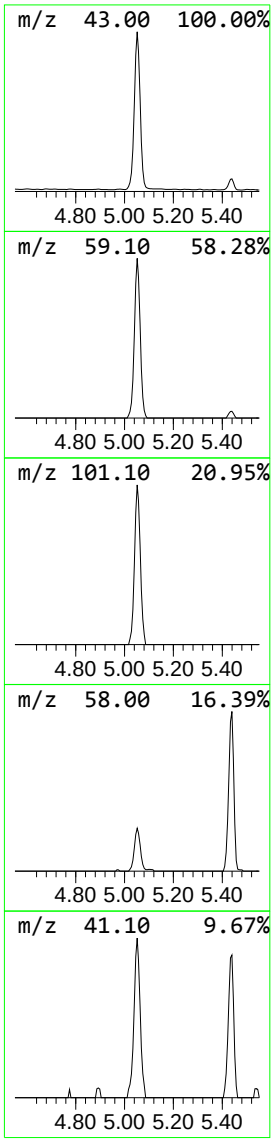
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.051	3.14 ng	129588	1,4-Dichlorobenzene-d4	6.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	17
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141171.D
Acq On : 15 Jan 2025 13:12
Operator : RC/JU
Sample : PB166061BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Propane, 1,1-di...	2.234	3.4	ng	140956	1	6.822	824989	20.0
2-Pentanone, 4-...	5.051	3.1	ng	129588	1	6.822	824989	20.0

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166035BS	SDG No.:	Q1069
Lab Sample ID:	PB166035BS	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
BF141165.D	1	01/13/25 08:54	01/15/25 10:26	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	280	J	180	270	330	ug/Kg
108-95-2	Phenol	1500		82.8	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	130	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.4	130	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	130	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	130	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.7	130	170	ug/Kg
78-59-1	Isophorone	1500		84.5	130	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.1	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.7	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.4	130	170	ug/Kg
91-20-3	Naphthalene	1500		82.5	130	170	ug/Kg
106-47-8	4-Chloroaniline	740		82.5	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		83.2	130	170	ug/Kg
105-60-2	Caprolactam	1500		86.7	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		77.4	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1500		82.4	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5900	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.2	130	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	130	170	ug/Kg
131-11-3	Dimethylphthalate	1500		81.6	130	170	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166035BS	SDG No.:	Q1069
Lab Sample ID:	PB166035BS	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
BF141165.D	1	01/13/25 08:54	01/15/25 10:26	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1500		83.1	130	170	ug/Kg
99-09-2	3-Nitroaniline	940		89.1	130	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3600	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	3400	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		86.1	130	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		85.5	130	170	ug/Kg
86-73-7	Fluorene	1500		85.4	130	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		84.9	130	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	130	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.2	270	330	ug/Kg
85-01-8	Phenanthrene	1600		83.9	130	170	ug/Kg
120-12-7	Anthracene	1700		84.3	130	170	ug/Kg
86-74-8	Carbazole	1700		80.2	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1600		84.2	130	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	130	170	ug/Kg
129-00-0	Pyrene	1500		82.9	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1600		96.7	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	130	170	ug/Kg
218-01-9	Chrysene	1500		79.4	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		90.9	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81.0	130	170	ug/Kg

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166035BS	SDG No.:	Q1069
Lab Sample ID:	PB166035BS	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
BF141165.D	1	01/13/25 08:54	01/15/25 10:26	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		82.5	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		92.9	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1500		78.0	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		80.0	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	130	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1600		74.7	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	128		35 - 115		85%	SPK: 150
13127-88-3	Phenol-d6	127		34 - 127		85%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.7		37 - 122		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.5		44 - 115		89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	147		39 - 132		98%	SPK: 150
1718-51-0	Terphenyl-d14	88.7		54 - 127		89%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	142000	6.822				
1146-65-2	Naphthalene-d8	559000	8.104				
15067-26-2	Acenaphthene-d10	296000	9.863				
1517-22-2	Phenanthrene-d10	516000	11.345				
1719-03-5	Chrysene-d12	346000	13.986				
1520-96-3	Perylene-d12	300000	15.445				

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\BF011525\
Data File : BF141165.D
Acq On : 15 Jan 2025 10:26
Operator : RC/JU
Sample : PB166035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Quant Time: Jan 15 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	141578	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	559409	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	296383	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	515619	20.000	ng		0.00
76) Chrysene-d12	13.986	240	346259	20.000	ng		0.00
86) Perylene-d12	15.445	264	300143	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.440	112	1172779	127.966	ng		0.01
7) Phenol-d6	6.451	99	1474065	126.975	ng		0.00
23) Nitrobenzene-d5	7.387	82	936087	88.702	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	495813	146.817	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1718604	88.547	ng		0.00
79) Terphenyl-d14	12.933	244	2066373	88.698	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	160491	39.324	ng		99
3) Pyridine	3.381	79	403464	40.314	ng		97
4) n-Nitrosodimethylamine	3.328	42	219085	44.770	ng		99
6) Aniline	6.481	93	412595	40.030	ng		95
8) 2-Chlorophenol	6.604	128	462455	47.032	ng		97
9) Benzaldehyde	6.369	77	57336	8.386	ng		98
10) Phenol	6.463	94	559240	45.001	ng		94
11) bis(2-Chloroethyl)ether	6.557	93	420510	45.405	ng		97
12) 1,3-Dichlorobenzene	6.763	146	482405	43.989	ng		99
13) 1,4-Dichlorobenzene	6.840	146	488566	44.210	ng		99
14) 1,2-Dichlorobenzene	6.993	146	468309	45.430	ng		98
15) Benzyl Alcohol	6.963	79	398751	47.562	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.093	45	565830	43.782	ng		96
17) 2-Methylphenol	7.075	107	367457	46.289	ng		99
18) Hexachloroethane	7.334	117	181232	45.349	ng		96
19) n-Nitroso-di-n-propyla...	7.234	70	305153	44.623	ng		99
20) 3+4-Methylphenols	7.222	107	453804	45.312	ng		92
22) Acetophenone	7.228	105	598908	45.036	ng	#	94
24) Nitrobenzene	7.404	77	472430	42.953	ng		99
25) Isophorone	7.645	82	826977	45.854	ng		98
26) 2-Nitrophenol	7.716	139	240239	48.018	ng		96
27) 2,4-Dimethylphenol	7.757	122	371757	55.087	ng		100
28) bis(2-Chloroethoxy)met...	7.851	93	500129	44.187	ng		100
29) 2,4-Dichlorophenol	7.957	162	374851	46.769	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	394294	43.039	ng		99
31) Naphthalene	8.128	128	1315926	44.606	ng		100
32) Benzoic acid	7.869	122	284542	43.954	ng		99
33) 4-Chloroaniline	8.169	127	225845	22.136	ng		99
34) Hexachlorobutadiene	8.245	225	241357	43.722	ng		100
35) Caprolactam	8.540	113	122001m	46.493	ng		
36) 4-Chloro-3-methylphenol	8.651	107	410698	46.854	ng		97
37) 2-Methylnaphthalene	8.816	142	857406	45.609	ng		99
38) 1-Methylnaphthalene	8.916	142	789241	42.599	ng		99
40) 1,2,4,5-Tetrachloroben...	8.987	216	389876	45.831	ng		99
41) Hexachlorocyclopentadiene	8.969	237	496501	178.397	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	276357	48.169	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141165.D
Acq On : 15 Jan 2025 10:26
Operator : RC/JU
Sample : PB166035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Quant Time: Jan 15 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

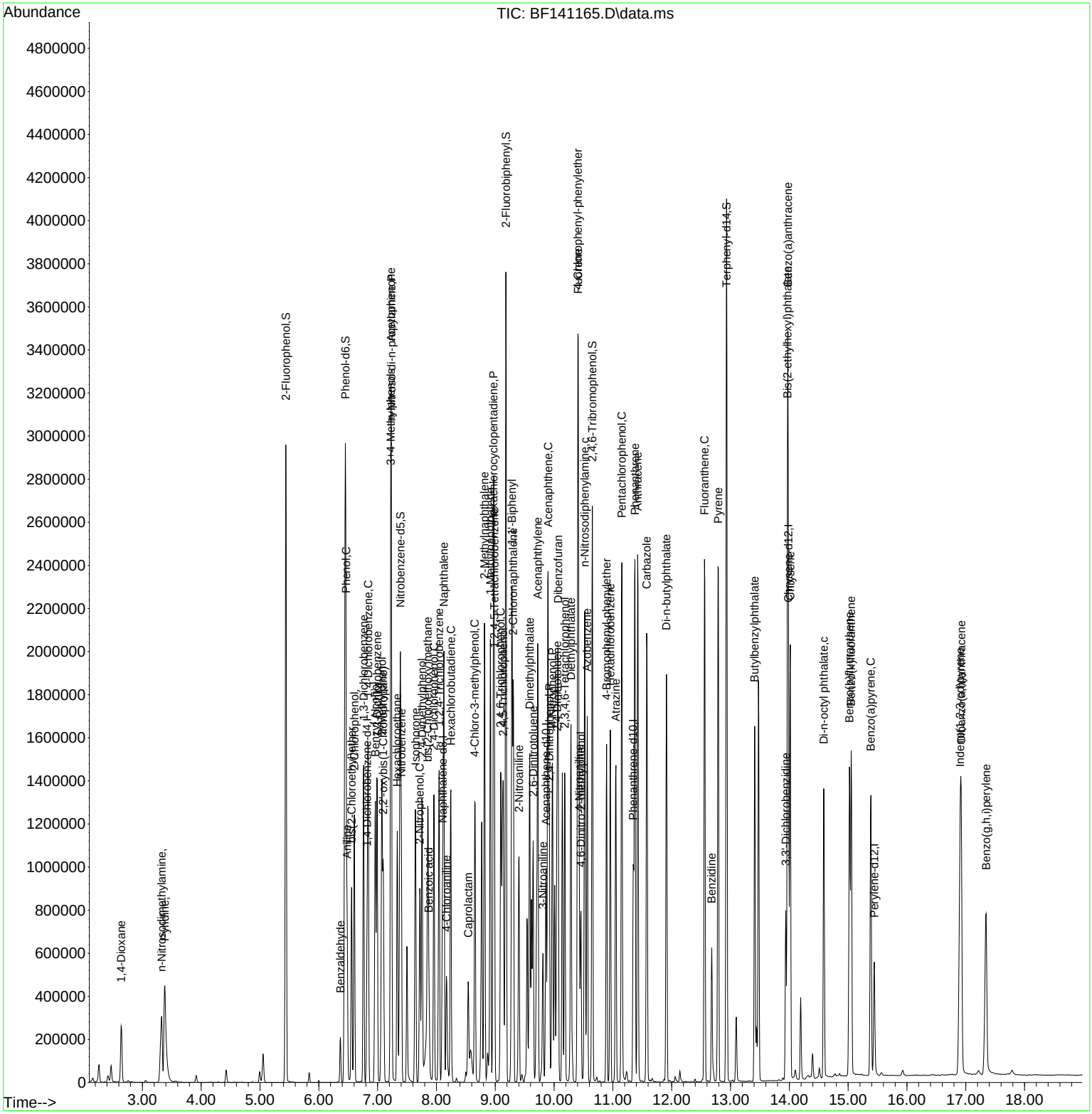
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.134	196	272593	44.988	ng	99
46) 1,1'-Biphenyl	9.281	154	1040938	45.225	ng	99
47) 2-Chloronaphthalene	9.304	162	794541	44.320	ng	100
48) 2-Nitroaniline	9.404	65	254121	47.818	ng	98
49) Acenaphthylene	9.722	152	1247717	48.714	ng	99
50) Dimethylphthalate	9.586	163	919633	46.219	ng	100
51) 2,6-Dinitrotoluene	9.645	165	208657	45.095	ng	98
52) Acenaphthene	9.898	154	923120	51.587	ng	100
53) 3-Nitroaniline	9.810	138	132071	28.088	ng	99
54) 2,4-Dinitrophenol	9.922	184	235763	107.198	ng	95
55) Dibenzofuran	10.069	168	1124811	46.212	ng	99
56) 4-Nitrophenol	9.975	139	371142	100.786	ng	98
57) 2,4-Dinitrotoluene	10.051	165	294883	49.452	ng	98
58) Fluorene	10.410	166	875091	46.277	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.181	232	247930	49.226	ng	99
60) Diethylphthalate	10.286	149	881421	45.376	ng	100
61) 4-Chlorophenyl-phenyle...	10.404	204	416366	45.177	ng	99
62) 4-Nitroaniline	10.428	138	223312	48.524	ng	99
63) Azobenzene	10.563	77	869933	45.387	ng	99
65) 4,6-Dinitro-2-methylph...	10.457	198	158478	53.041	ng	96
66) n-Nitrosodiphenylamine	10.522	169	771997	46.419	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	269230	45.353	ng	98
68) Hexachlorobenzene	10.957	284	309514	46.838	ng	99
69) Atrazine	11.051	200	265941	59.388	ng	99
70) Pentachlorophenol	11.151	266	404666	95.622	ng	100
71) Phenanthrene	11.375	178	1332947	48.152	ng	99
72) Anthracene	11.422	178	1367788	50.816	ng	100
73) Carbazole	11.575	167	1223450	49.571	ng	100
74) Di-n-butylphthalate	11.910	149	1338545	47.390	ng	100
75) Fluoranthene	12.557	202	1419075	51.371	ng	99
77) Benzidine	12.680	184	337816	52.610	ng	99
78) Pyrene	12.792	202	1442231	43.609	ng	99
80) Butylbenzylphthalate	13.410	149	523212	47.451	ng	99
81) Benzo(a)anthracene	13.974	228	1103435	46.825	ng	99
82) 3,3'-Dichlorobenzidine	13.939	252	232976	31.049	ng	100
83) Chrysene	14.016	228	960710	43.571	ng	99
84) Bis(2-ethylhexyl)phtha...	13.969	149	618547	46.753	ng	99
85) Di-n-octyl phthalate	14.586	149	881680	44.131	ng	98
87) Indeno(1,2,3-cd)pyrene	16.904	276	1004718	45.691	ng	98
88) Benzo(b)fluoranthene	15.021	252	949809	49.075	ng	99
89) Benzo(k)fluoranthene	15.051	252	768181	46.966	ng	100
90) Benzo(a)pyrene	15.386	252	807216	50.551	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	806473	45.345	ng	98
92) Benzo(g,h,i)perylene	17.345	276	761728	41.176	ng	99

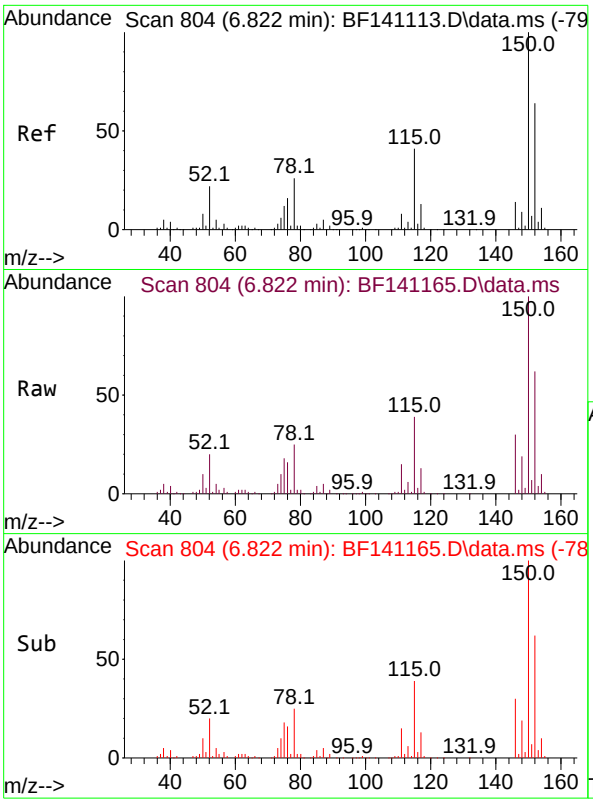
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141165.D
Acq On : 15 Jan 2025 10:26
Operator : RC/JU
Sample : PB166035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Quant Time: Jan 15 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



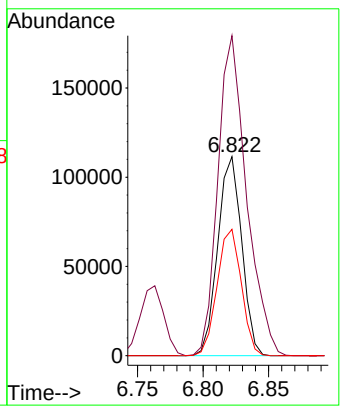


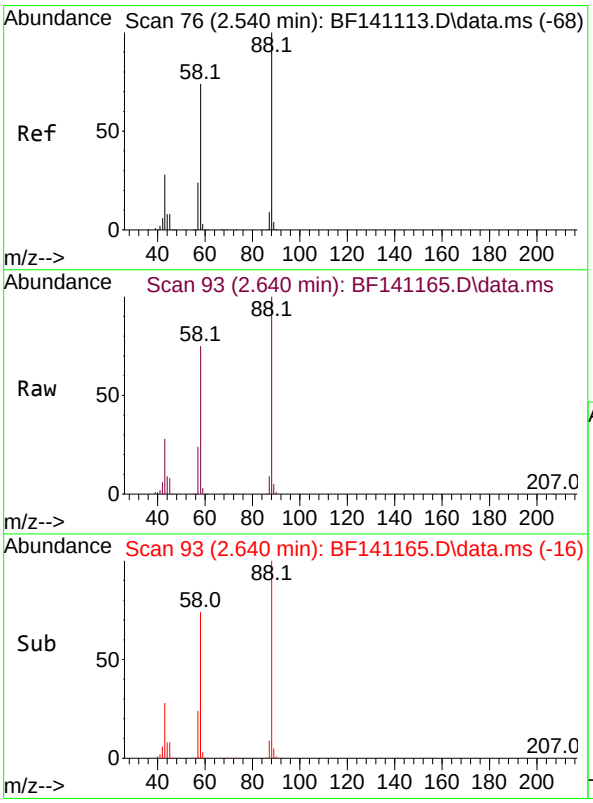
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:152 Resp: 141578

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.8	188.8
115	63.5	51.4	77.2

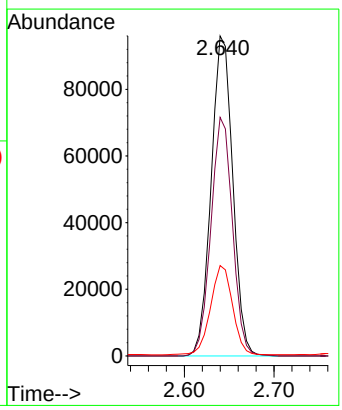


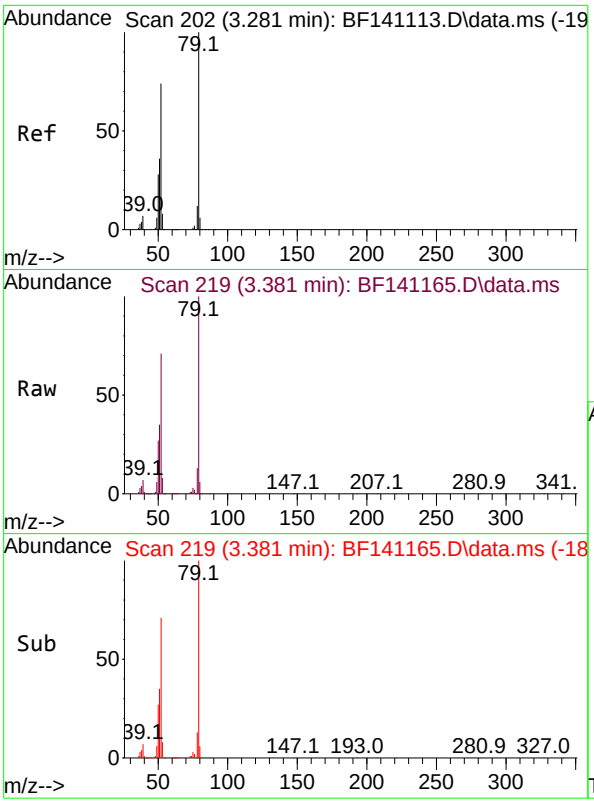


#2
1,4-Dioxane
Concen: 39.324 ng
RT: 2.640 min Scan# 93
Delta R.T. 0.100 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 88 Resp: 160491

Ion	Ratio	Lower	Upper
88	100		
58	74.3	60.1	90.1
43	28.5	23.1	34.7



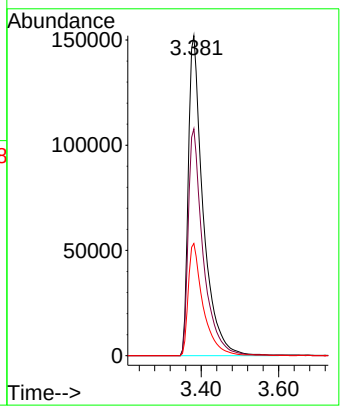


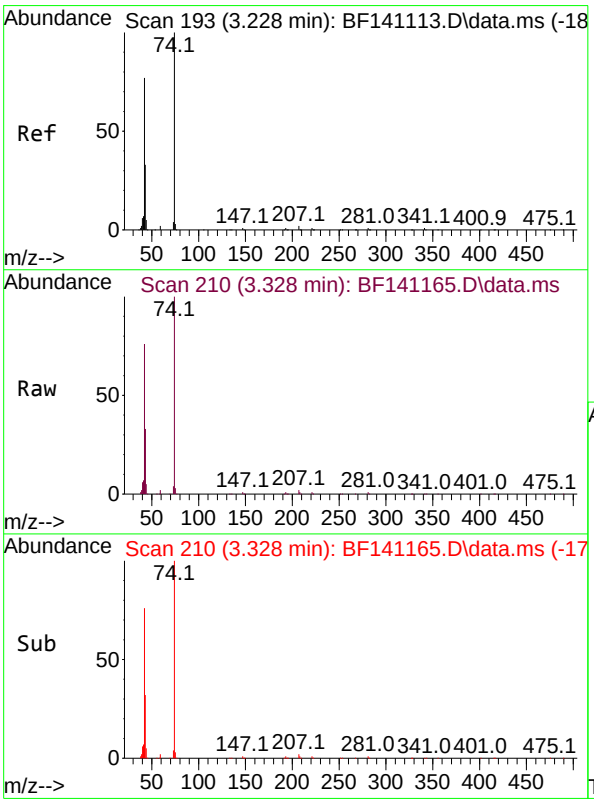
#3
Pyridine
Concen: 40.314 ng
RT: 3.381 min Scan# 21
Delta R.T. 0.100 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 79 Resp: 403464

Ion	Ratio	Lower	Upper
79	100		
52	70.9	58.9	88.3
51	35.0	29.1	43.7

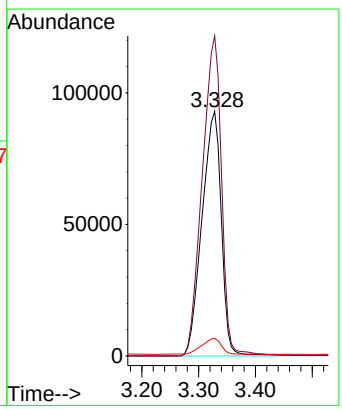


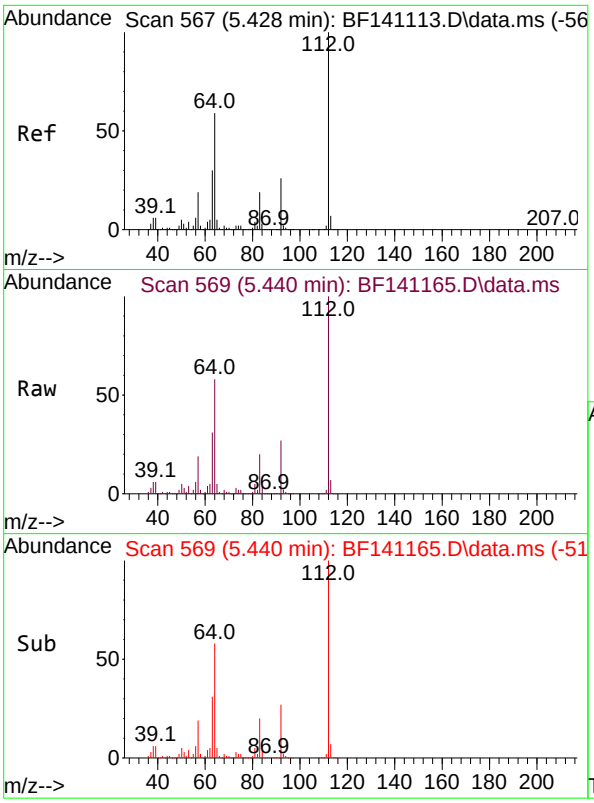


#4
n-Nitrosodimethylamine
Concen: 44.770 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.100 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 42 Resp: 219085

Ion	Ratio	Lower	Upper
42	100		
74	130.9	103.8	155.6
44	7.2	5.3	7.9



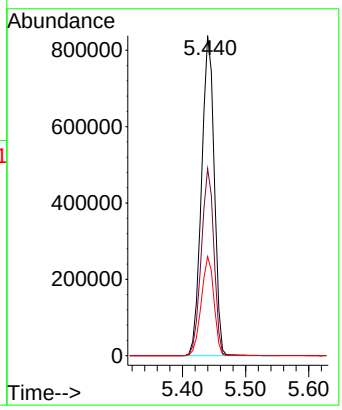


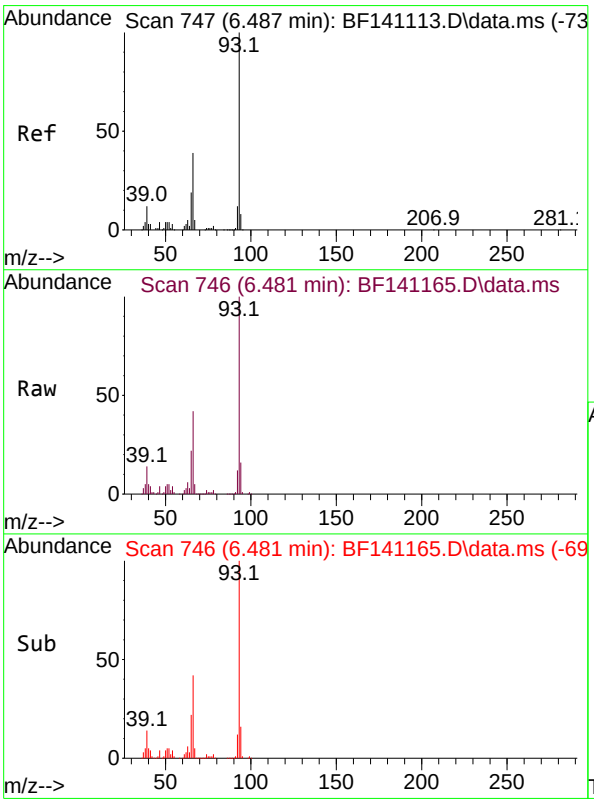
#5
2-Fluorophenol
Concen: 127.966 ng
RT: 5.440 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:112 Resp: 1172779

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.3	70.9
63	31.0	24.2	36.2

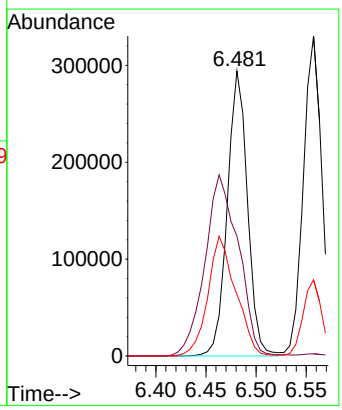


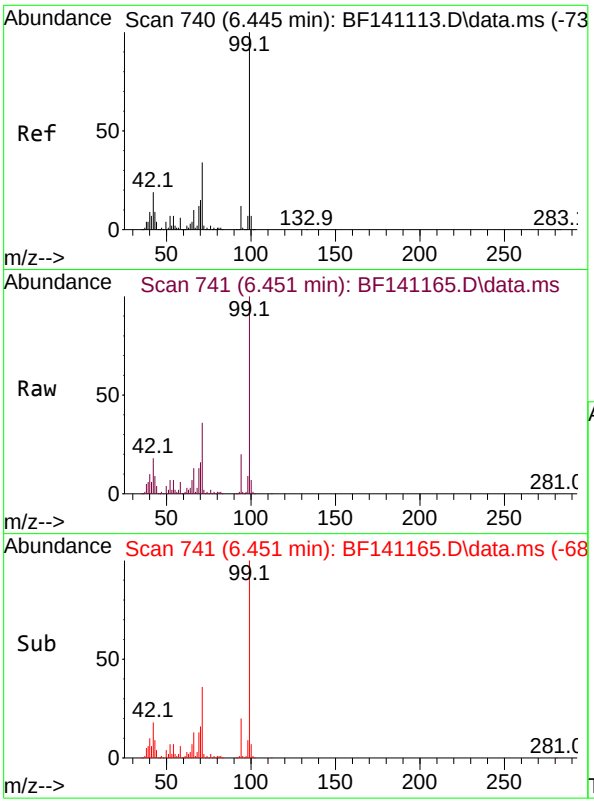


#6
Aniline
Concen: 40.030 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 93 Resp: 412595

Ion	Ratio	Lower	Upper
93	100		
66	42.1	31.5	47.3
65	21.6	15.3	22.9



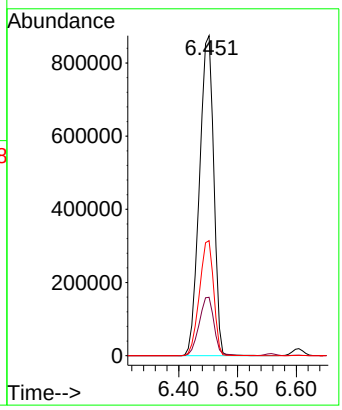


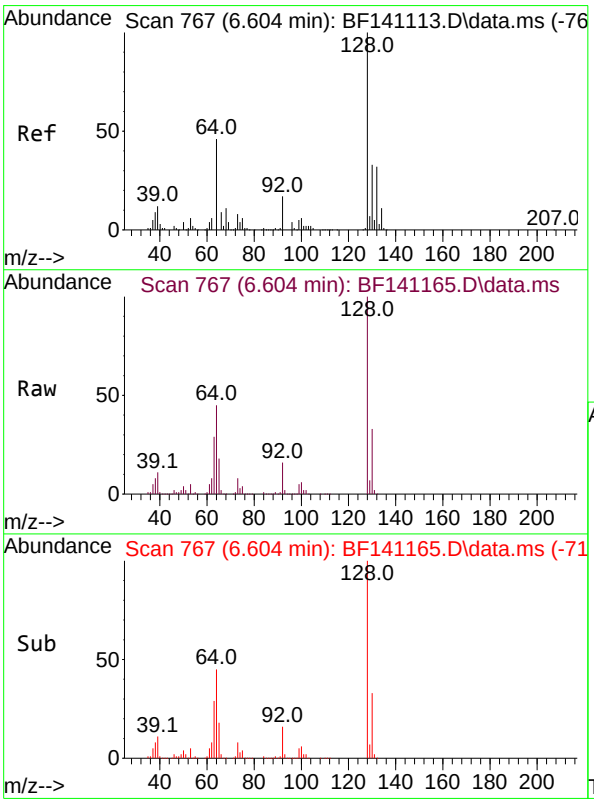
#7
Phenol-d6
Concen: 126.975 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 99 Resp: 1474065

Ion	Ratio	Lower	Upper
99	100		
42	18.3	15.0	22.4
71	36.0	27.6	41.4

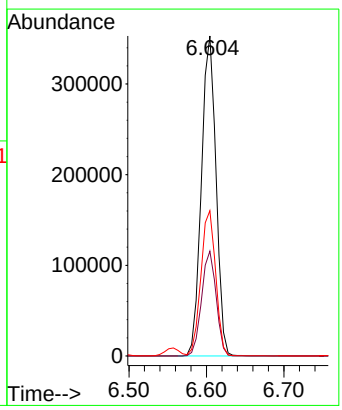


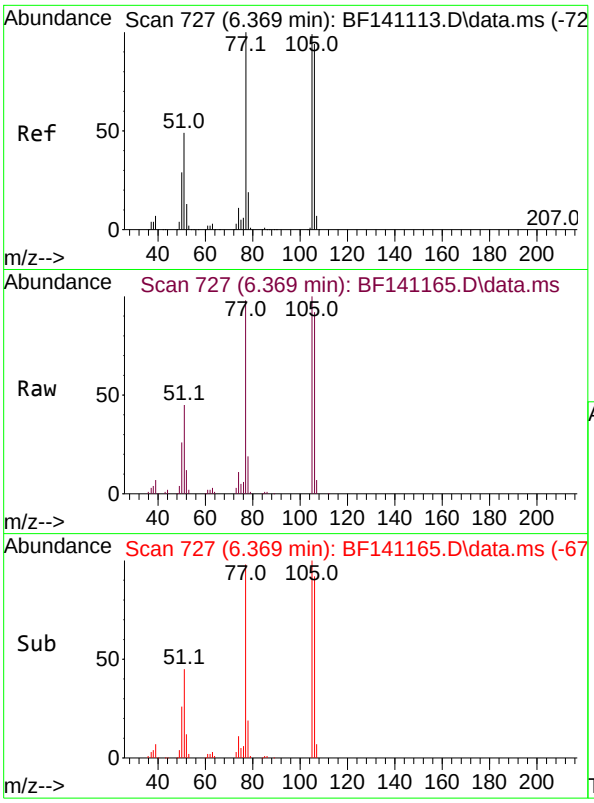


#8
2-Chlorophenol
Concen: 47.032 ng
RT: 6.604 min Scan# 767
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:128 Resp: 462455

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.5	52.5
64	45.4	28.3	68.3



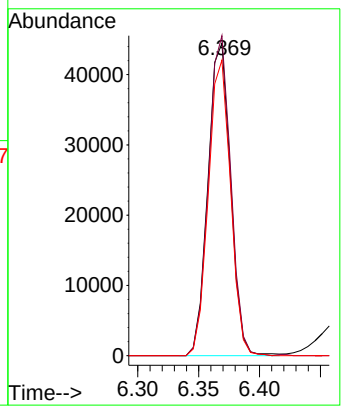


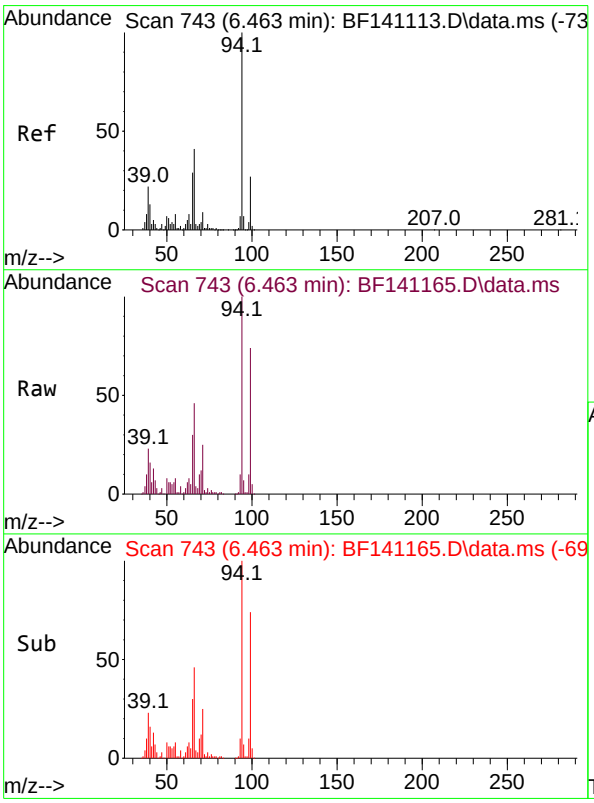
#9
Benzaldehyde
Concen: 8.386 ng
RT: 6.369 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 77 Resp: 57336

Ion	Ratio	Lower	Upper
77	100		
105	102.4	78.9	118.9
106	94.6	73.6	113.6

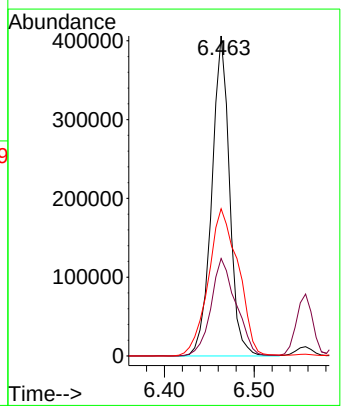


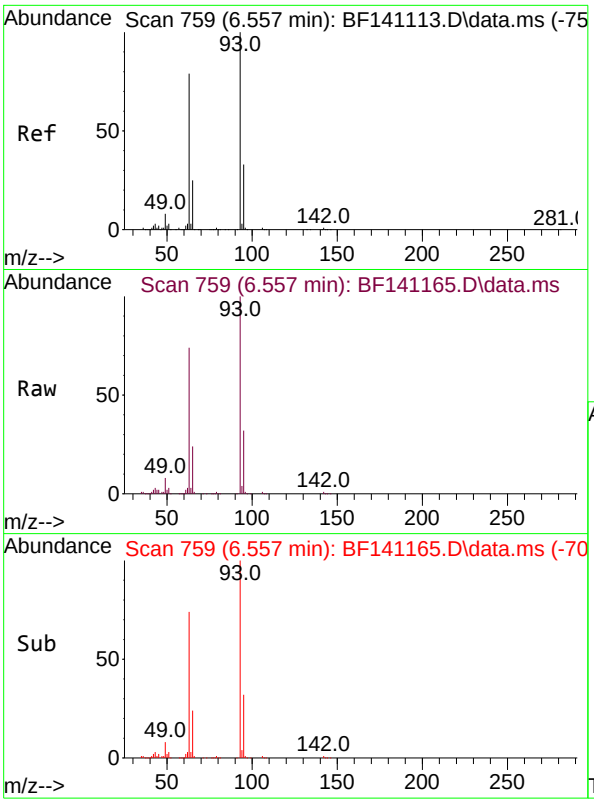


#10
Phenol
Concen: 45.001 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 94 Resp: 559240

Ion	Ratio	Lower	Upper
94	100		
65	30.4	8.9	48.9
66	46.0	21.2	61.2



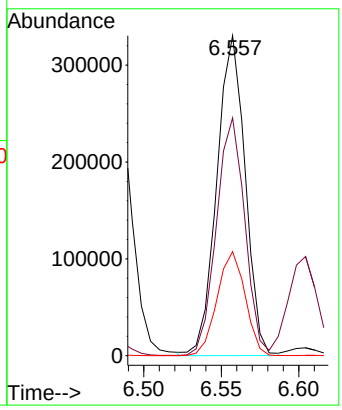


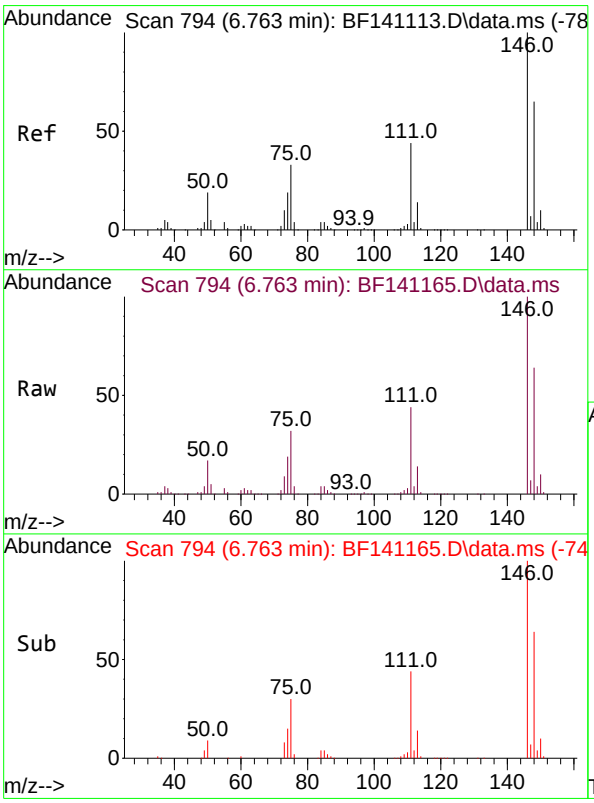
#11
bis(2-Chloroethyl)ether
Concen: 45.405 ng
RT: 6.557 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 93 Resp: 420510

Ion	Ratio	Lower	Upper
93	100		
63	74.3	58.0	98.0
95	32.5	12.5	52.5

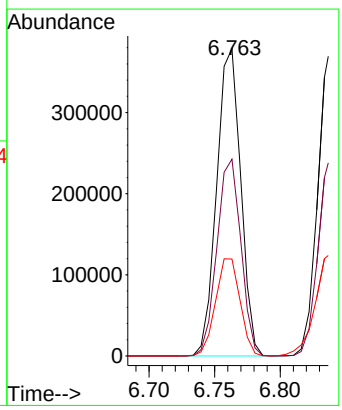


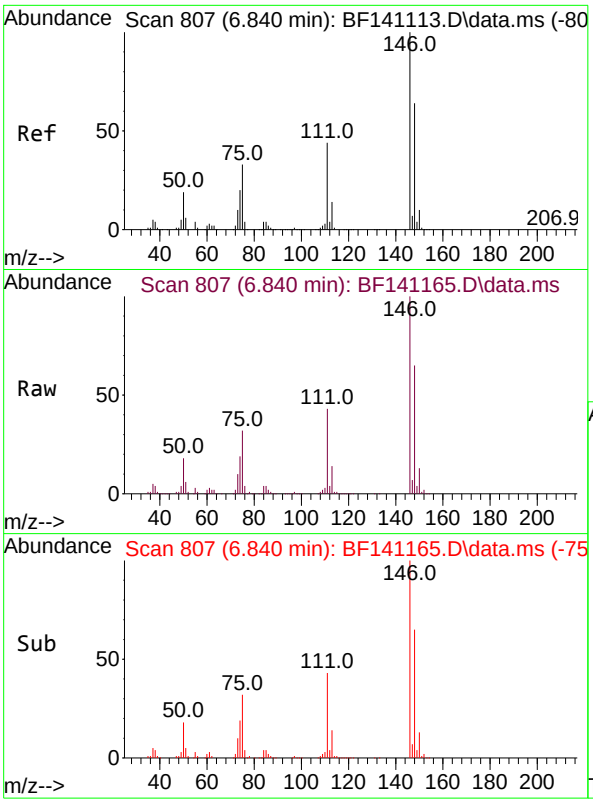


#12
1,3-Dichlorobenzene
Concen: 43.989 ng
RT: 6.763 min Scan# 794
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:146 Resp: 482405

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
75	31.6	26.2	39.2



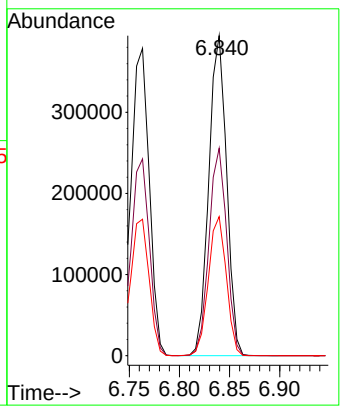


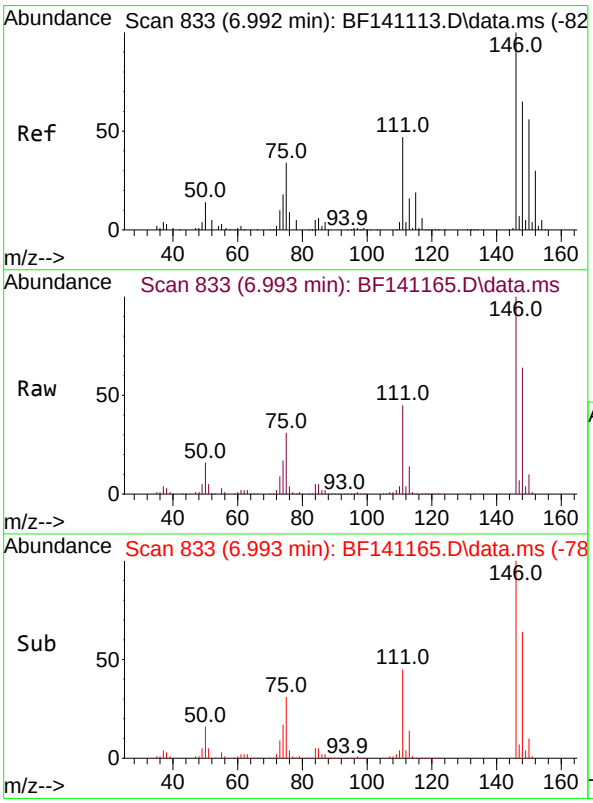
#13
1,4-Dichlorobenzene
Concen: 44.210 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:146 Resp: 488566

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.0	76.6
111	43.5	34.9	52.3

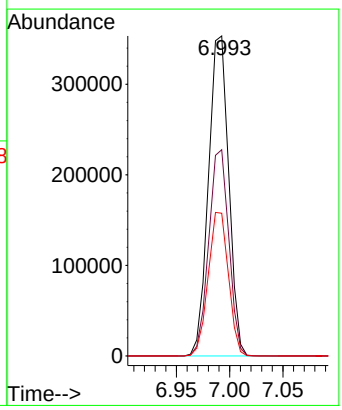


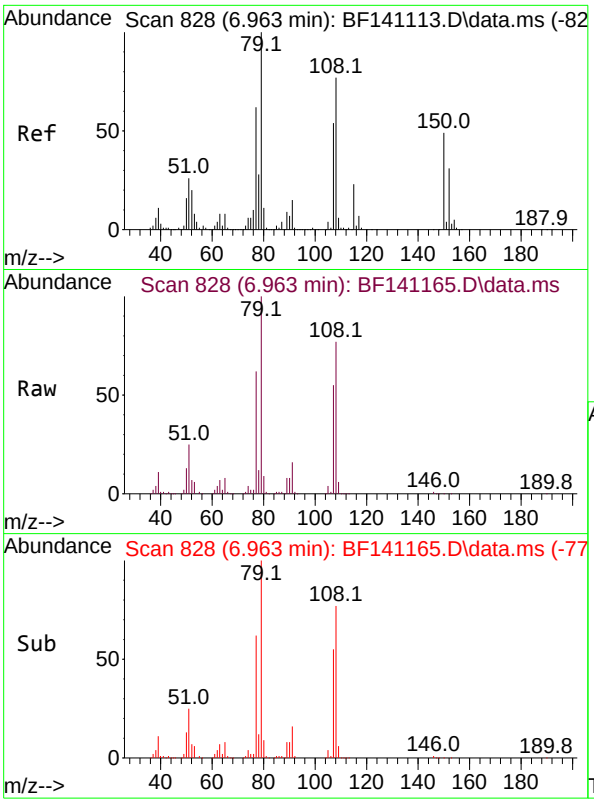


#14
1,2-Dichlorobenzene
Concen: 45.430 ng
RT: 6.993 min Scan# 833
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:146 Resp: 468309

Ion	Ratio	Lower	Upper
146	100		
148	64.5	52.2	78.4
111	44.6	37.5	56.3



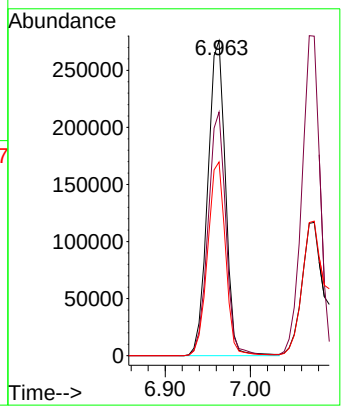


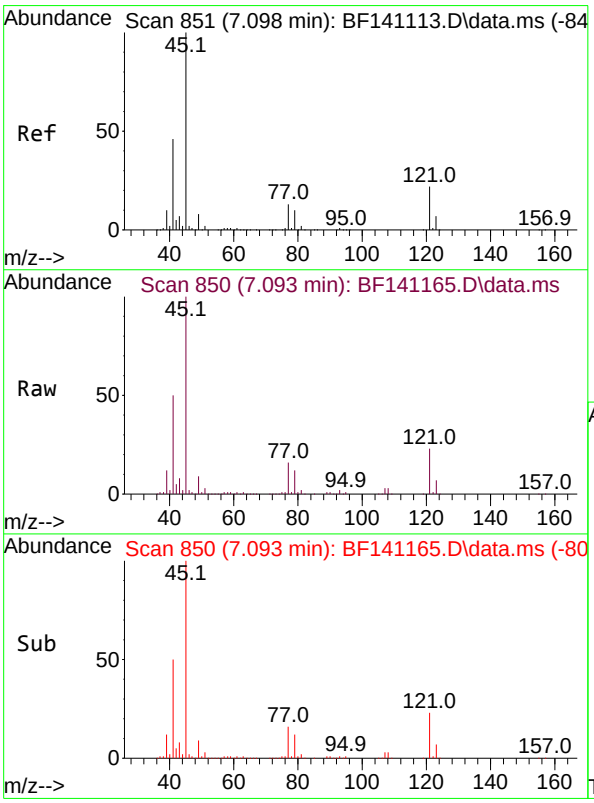
#15
Benzyl Alcohol
Concen: 47.562 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 79 Resp: 398751

Ion	Ratio	Lower	Upper
79	100		
108	77.4	61.4	92.0
77	61.6	49.8	74.6

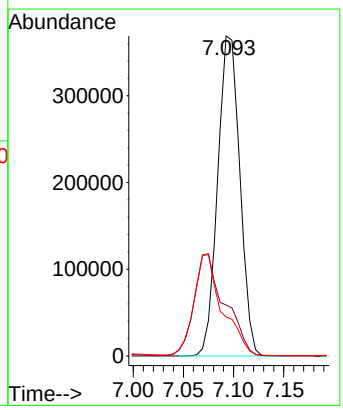


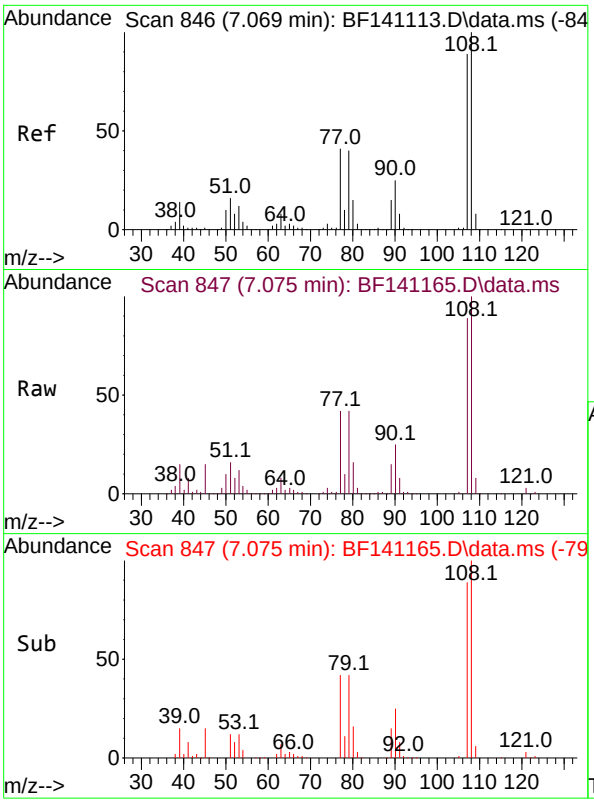


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.782 ng
RT: 7.093 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 45 Resp: 565830

Ion	Ratio	Lower	Upper
45	100		
77	15.9	0.0	34.1
79	12.2	0.0	31.0



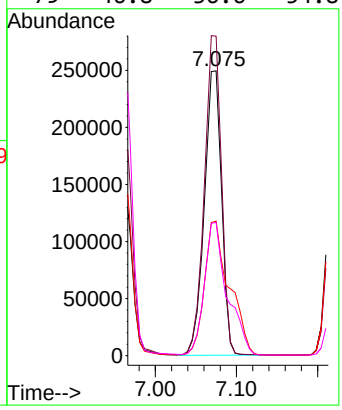


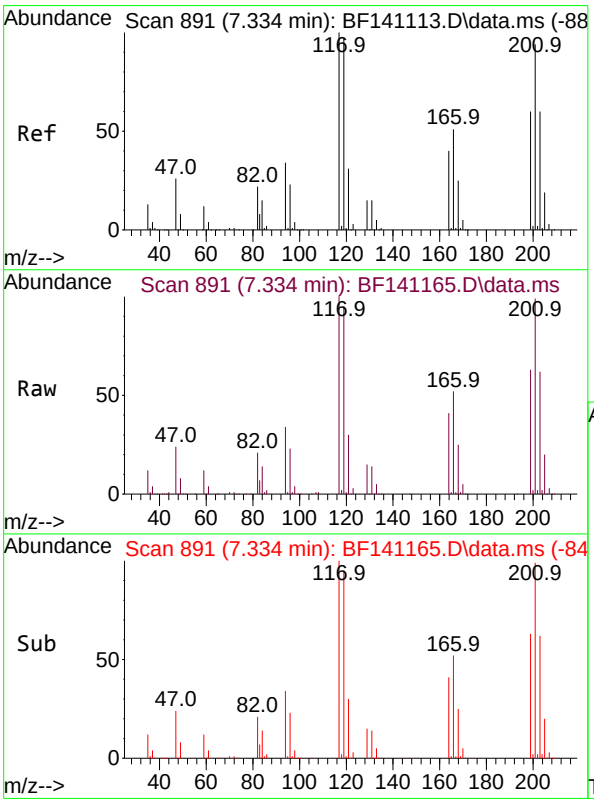
#17
2-Methylphenol
Concen: 46.289 ng
RT: 7.075 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:107 Resp: 367457

Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.1	135.1
77	47.2	36.6	55.0
79	46.8	36.6	54.8

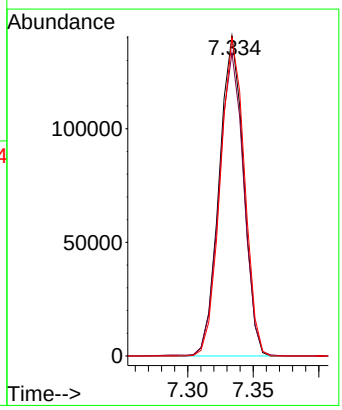


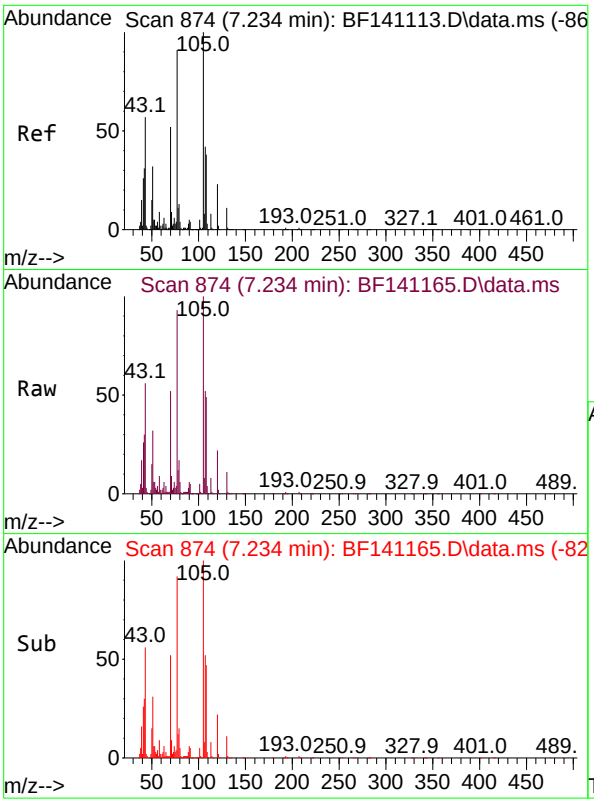


#18
Hexachloroethane
Concen: 45.349 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:117 Resp: 181232

Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.6	116.4
201	99.4	75.1	112.7



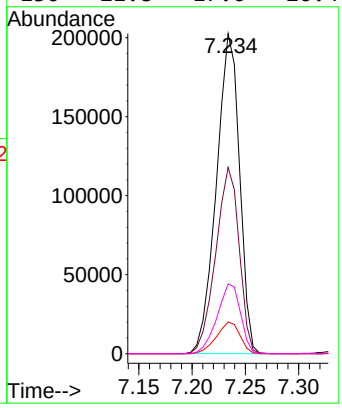


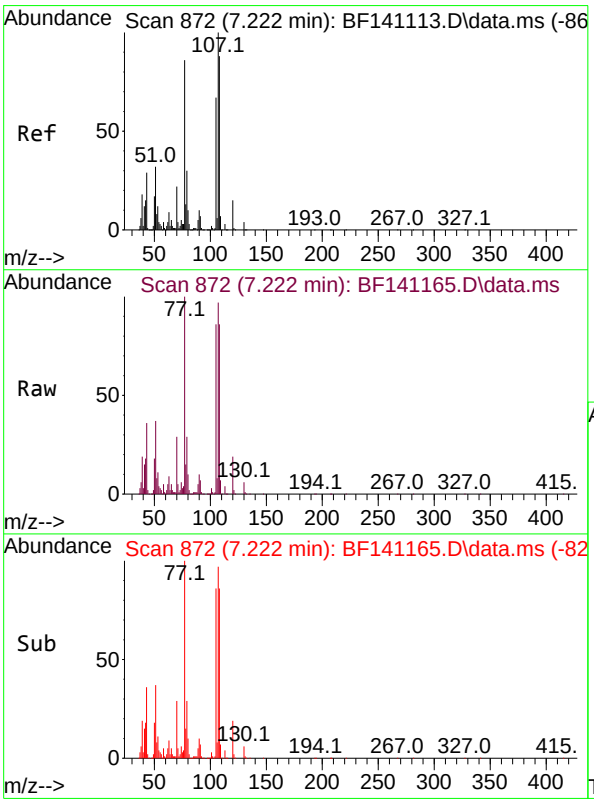
#19
n-Nitroso-di-n-propylamine
Concen: 44.623 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 70 Resp: 305153

Ion	Ratio	Lower	Upper
70	100		
42	58.2	47.8	71.6
101	9.9	7.9	11.9
130	21.8	17.6	26.4

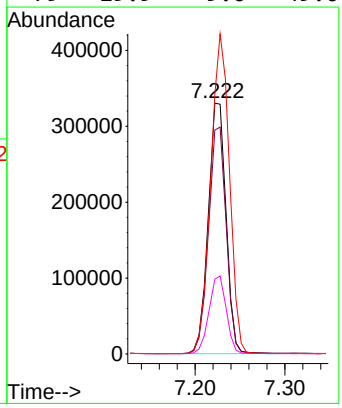


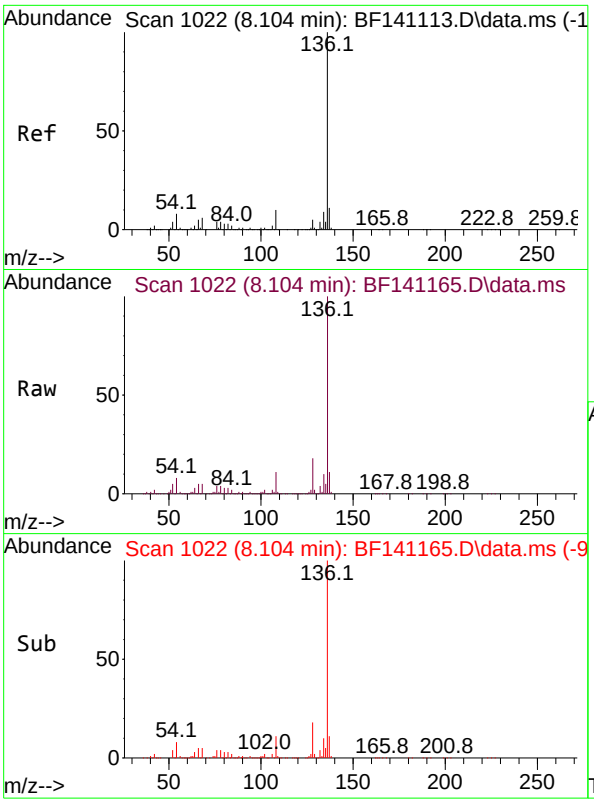


#20
3+4-Methylphenols
Concen: 45.312 ng
RT: 7.222 min Scan# 872
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:107 Resp: 453804

Ion	Ratio	Lower	Upper
107	100		
108	89.2	68.3	108.3
77	103.3	66.4	106.4
79	29.9	9.6	49.6



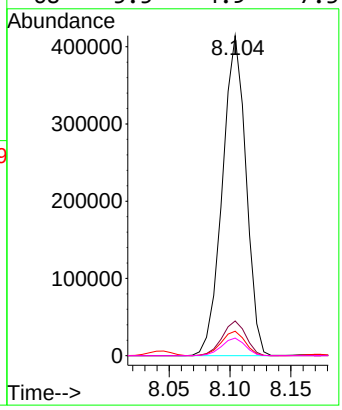


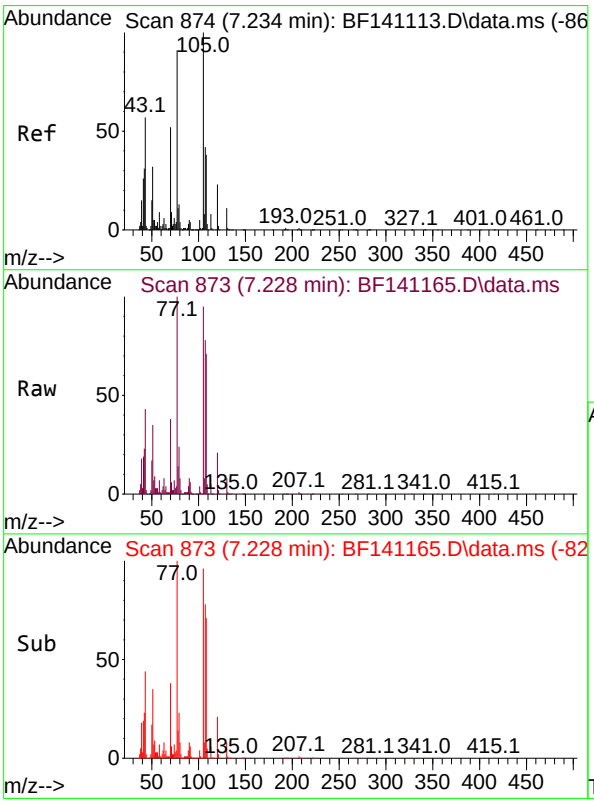
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:136 Resp: 559409

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.7	6.3	9.5
68	5.5	4.9	7.3

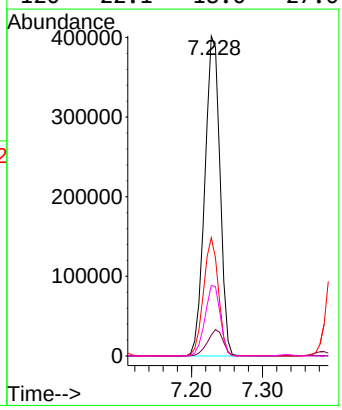


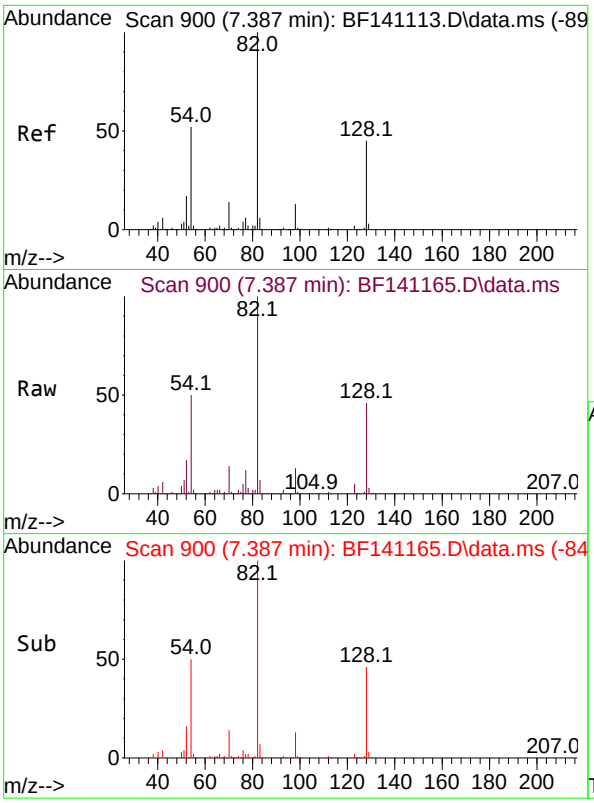


#22
Acetophenone
Concen: 45.036 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:105 Resp: 598908

Ion	Ratio	Lower	Upper
105	100		
71	6.6	7.1	10.7#
51	37.0	25.4	38.2
120	22.1	18.0	27.0



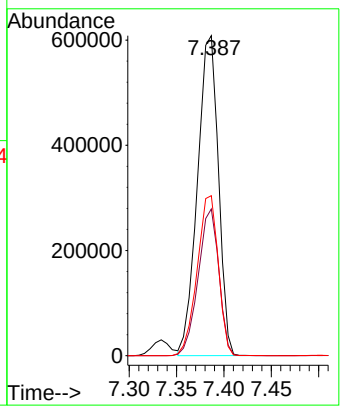


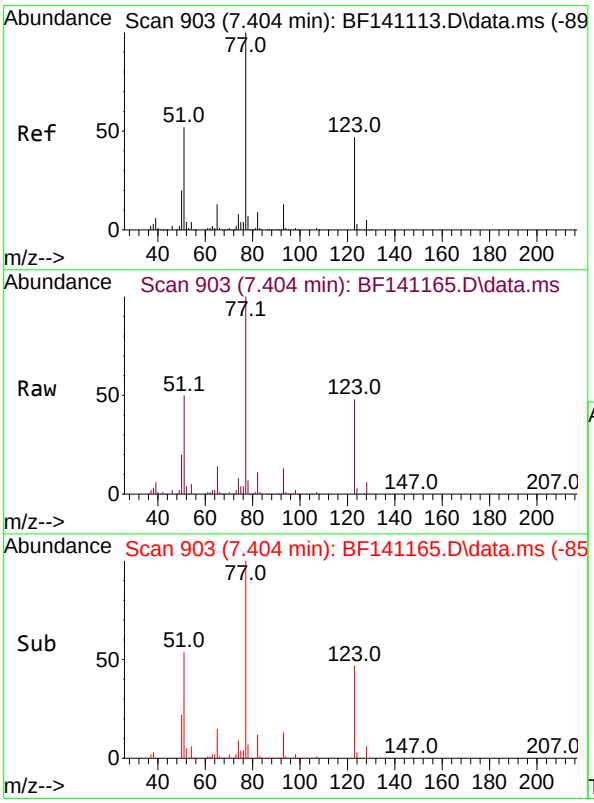
#23
Nitrobenzene-d5
Concen: 88.702 ng
RT: 7.387 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 82 Resp: 936087

Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.1	54.1
54	50.0	41.0	61.4

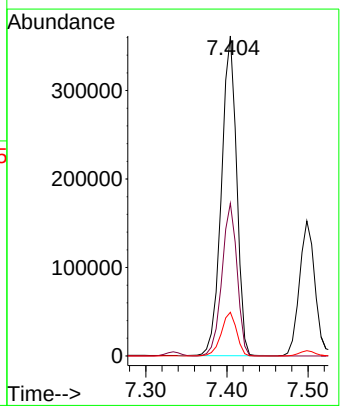


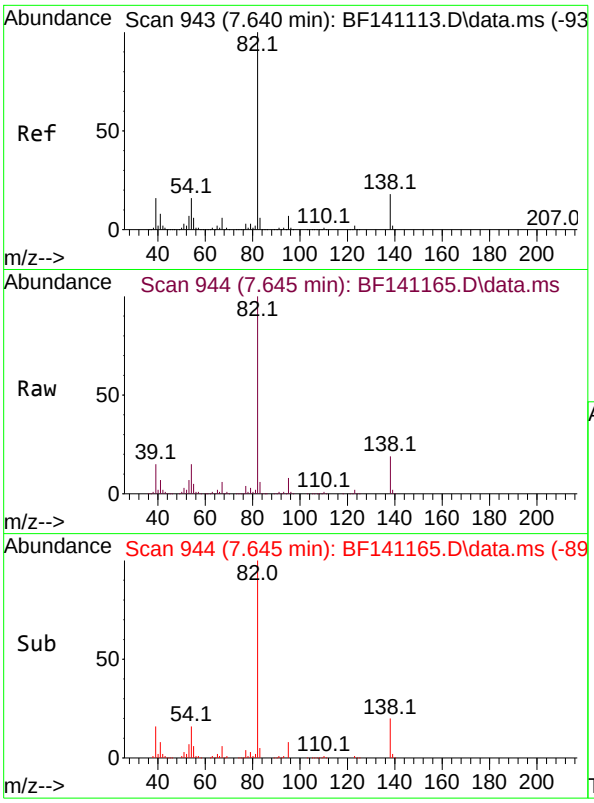


#24
Nitrobenzene
Concen: 42.953 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 77 Resp: 472430

Ion	Ratio	Lower	Upper
77	100		
123	47.7	37.7	56.5
65	13.7	10.6	16.0



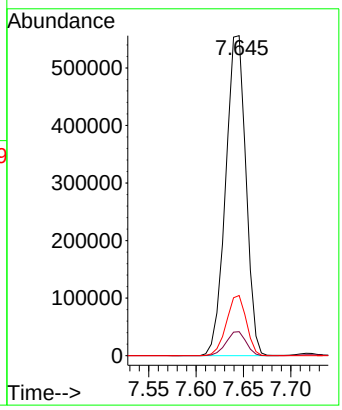


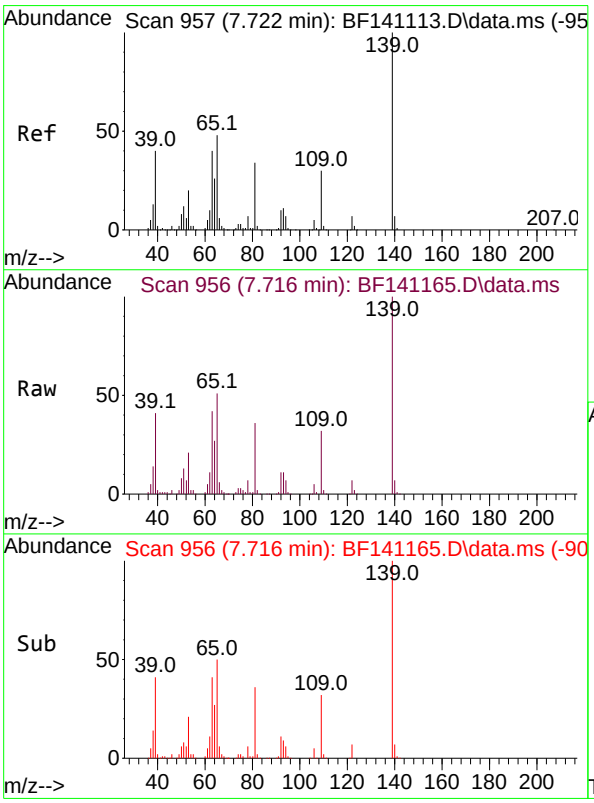
#25
Isophorone
Concen: 45.854 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 82 Resp: 826977

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	18.8	14.2	21.2

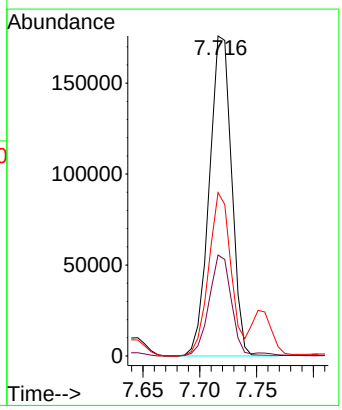


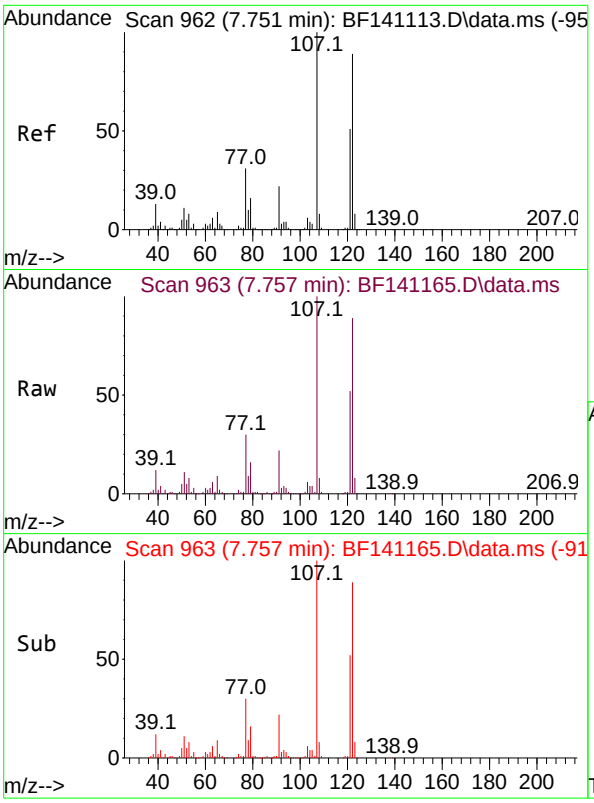


#26
2-Nitrophenol
Concen: 48.018 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:139 Resp: 240239

Ion	Ratio	Lower	Upper
139	100		
109	31.6	23.8	35.6
65	51.1	38.5	57.7



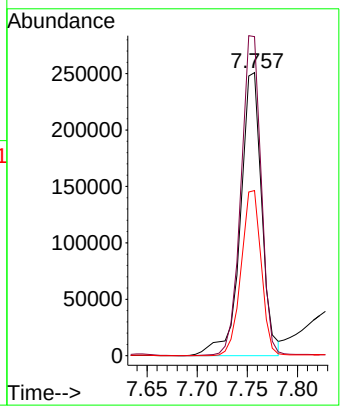


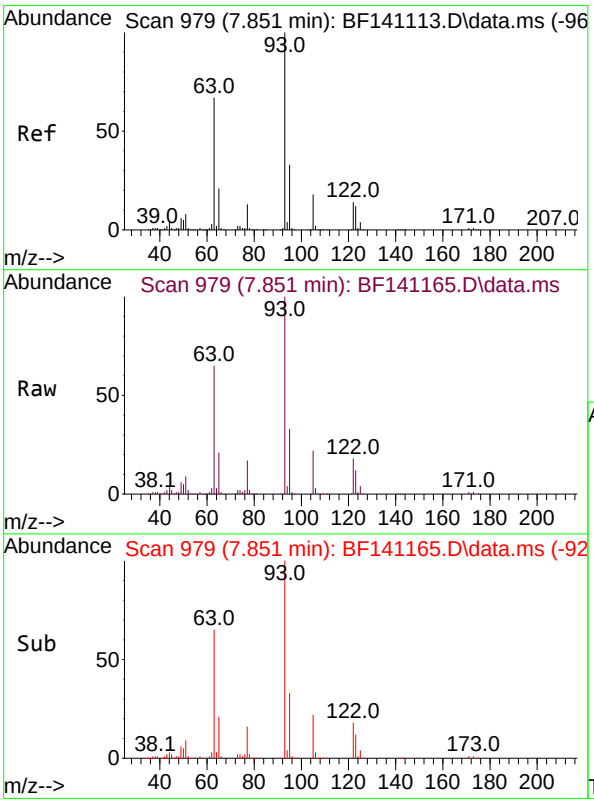
#27
2,4-Dimethylphenol
Concen: 55.087 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:122 Resp: 371757

Ion	Ratio	Lower	Upper
122	100		
107	112.7	90.3	135.5
121	58.3	46.5	69.7

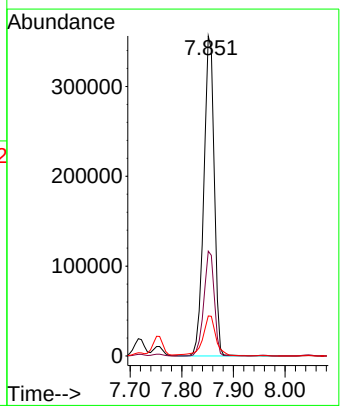


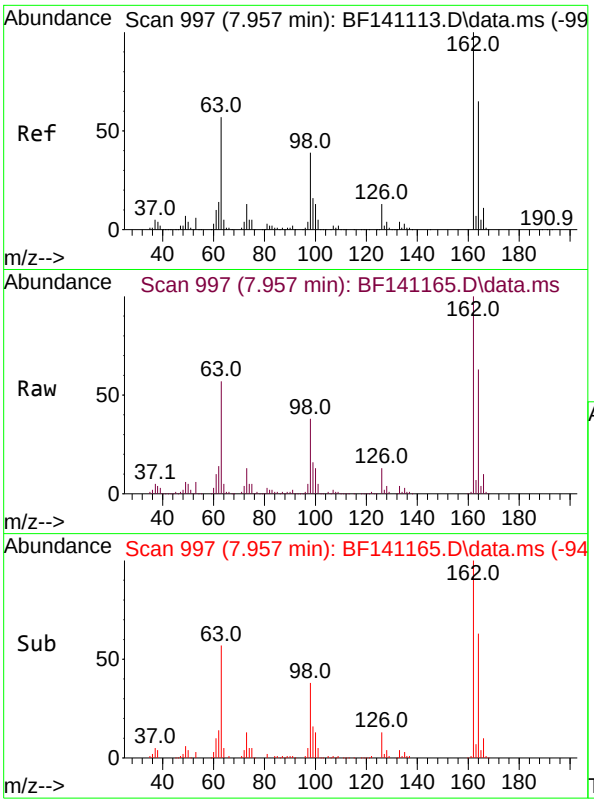


#28
bis(2-Chloroethoxy)methane
Concen: 44.187 ng
RT: 7.851 min Scan# 979
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 93 Resp: 500129

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.4
123	12.5	10.1	15.1



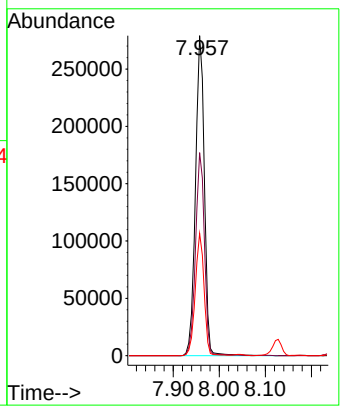


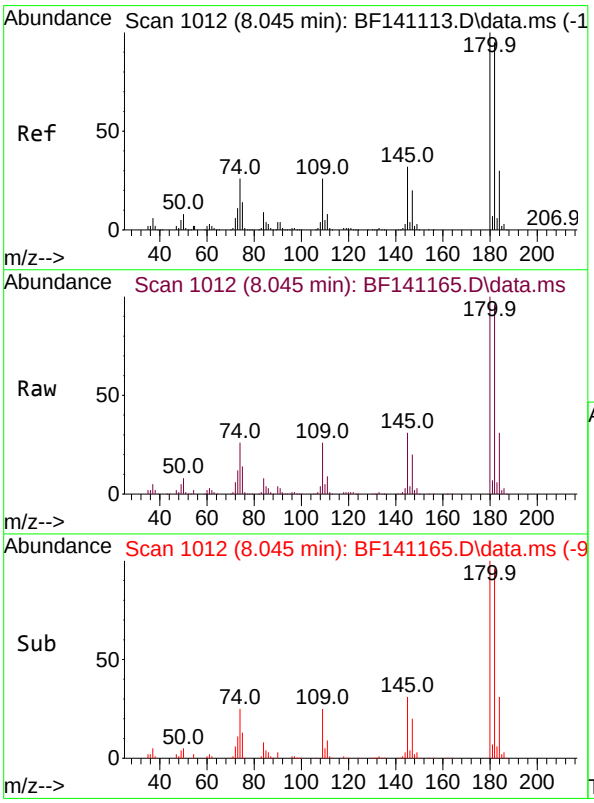
#29
2,4-Dichlorophenol
Concen: 46.769 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:162 Resp: 374851

Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.5	84.5
98	38.2	18.5	58.5

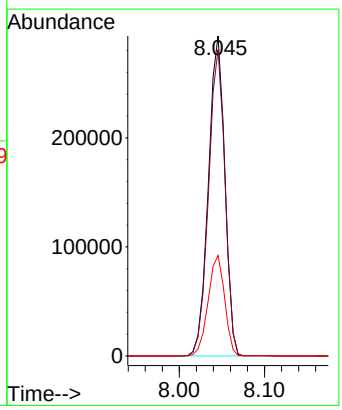


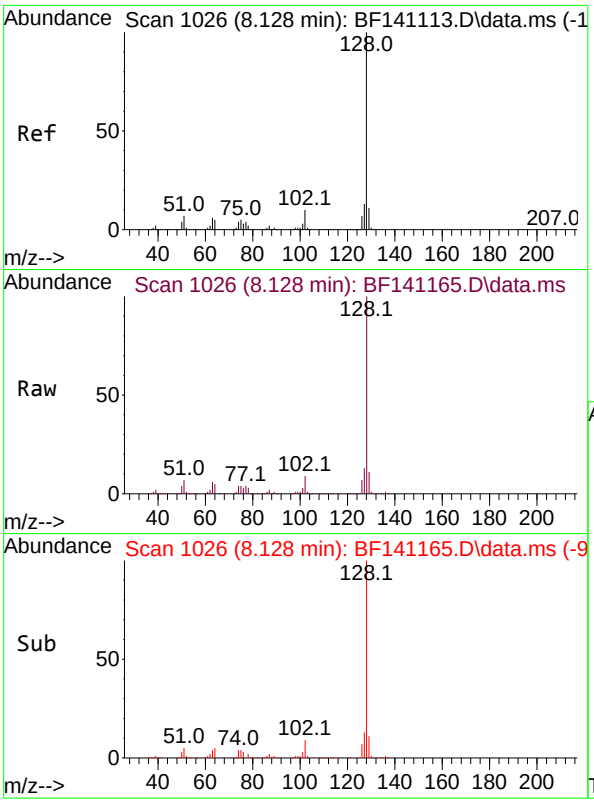


#30
1,2,4-Trichlorobenzene
Concen: 43.039 ng
RT: 8.045 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:180 Resp: 394294

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.2	114.2
145	31.4	25.3	37.9



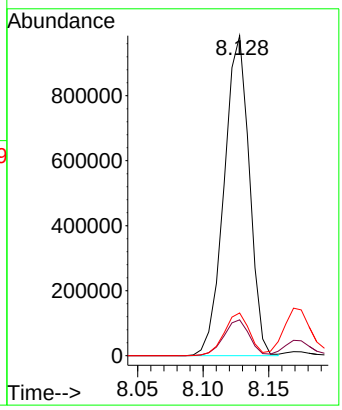


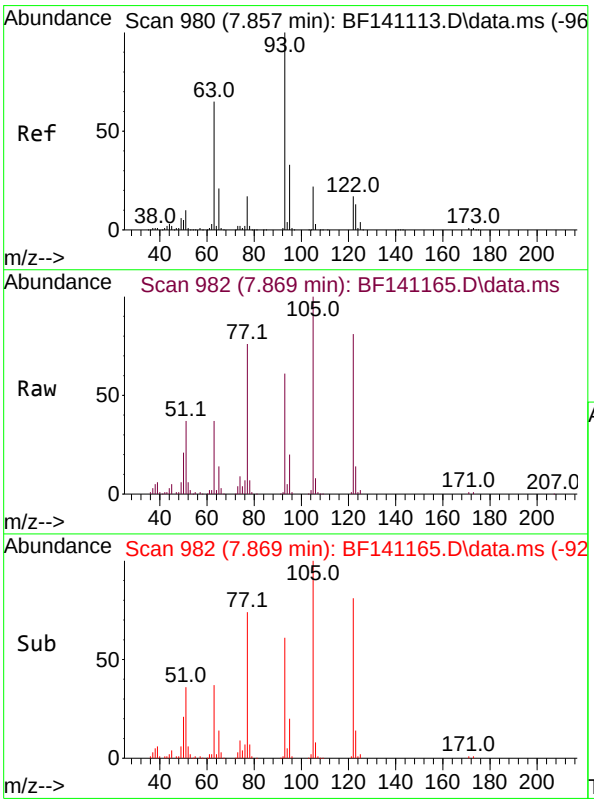
#31
Naphthalene
Concen: 44.606 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:128 Resp: 1315926

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.4	10.8	16.2

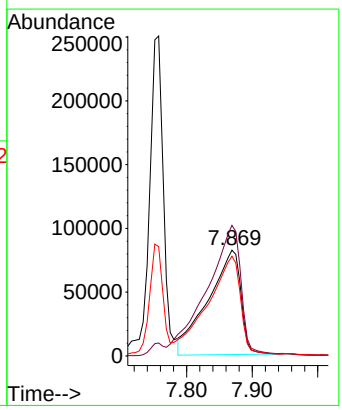


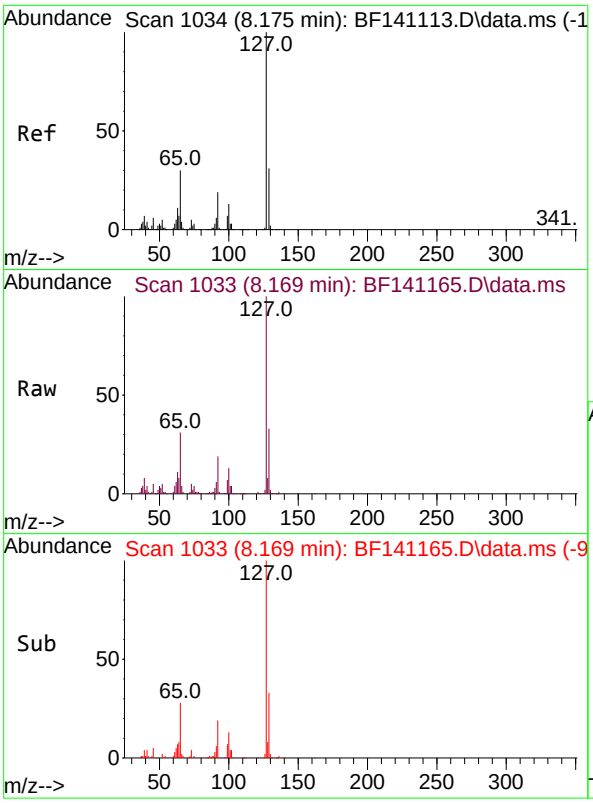


#32
Benzoic acid
Concen: 43.954 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:122 Resp: 284542

Ion	Ratio	Lower	Upper
122	100		
105	123.5	105.5	145.5
77	94.3	75.1	115.1



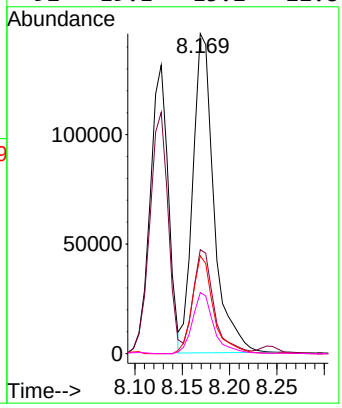


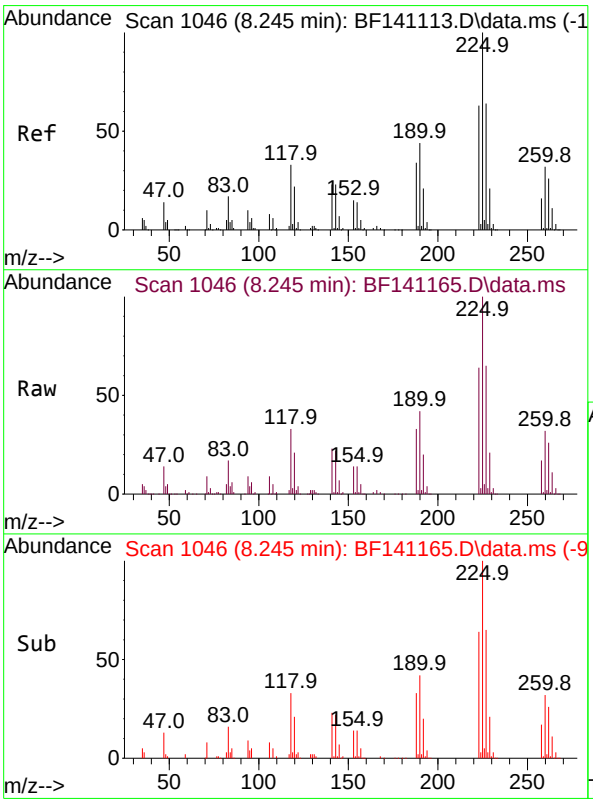
#33
4-Chloroaniline
Concen: 22.136 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:127 Resp: 225845

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	30.6	23.8	35.8
92	19.1	15.2	22.8

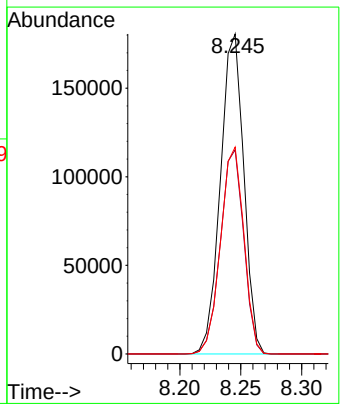


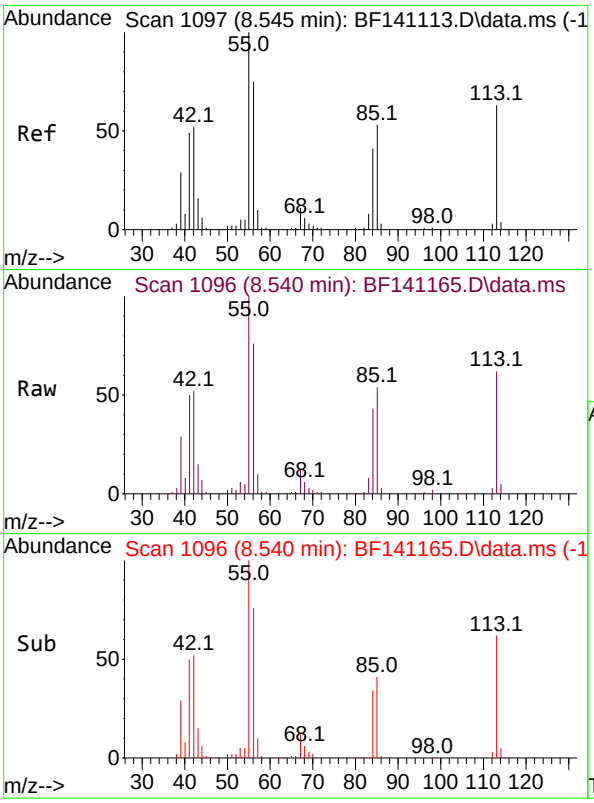


#34
Hexachlorobutadiene
Concen: 43.722 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:225 Resp: 241357

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	76.0
227	64.6	51.6	77.4



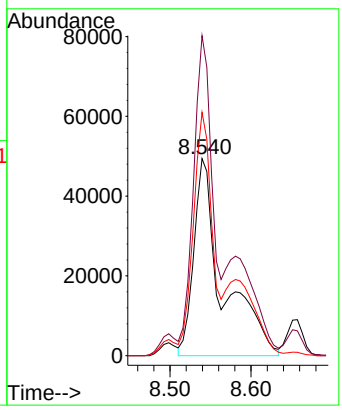


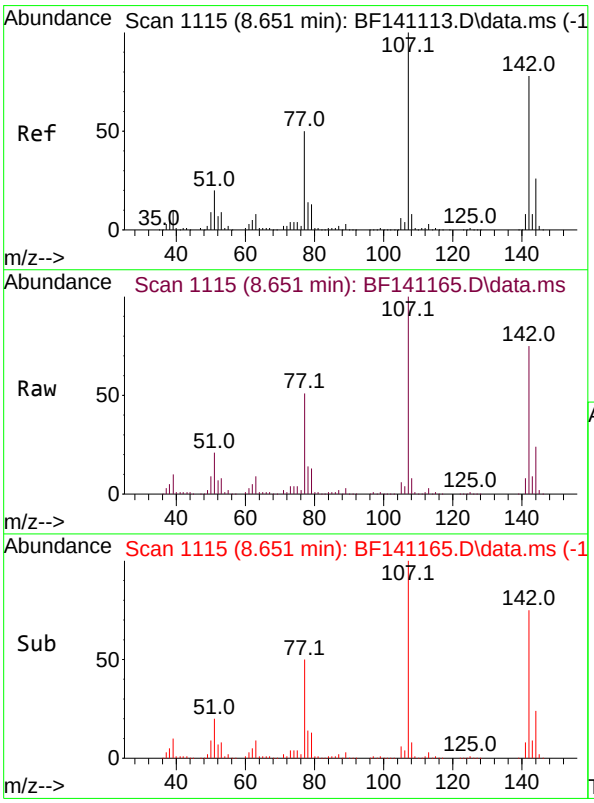
#35
Caprolactam
Concen: 46.493 ng m
RT: 8.540 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:113 Resp: 122001

Ion	Ratio	Lower	Upper
113	100		
55	162.4	139.7	179.7
56	123.5	99.4	139.4

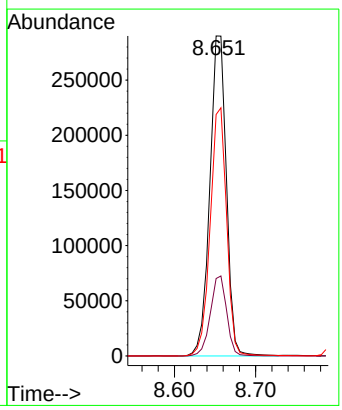


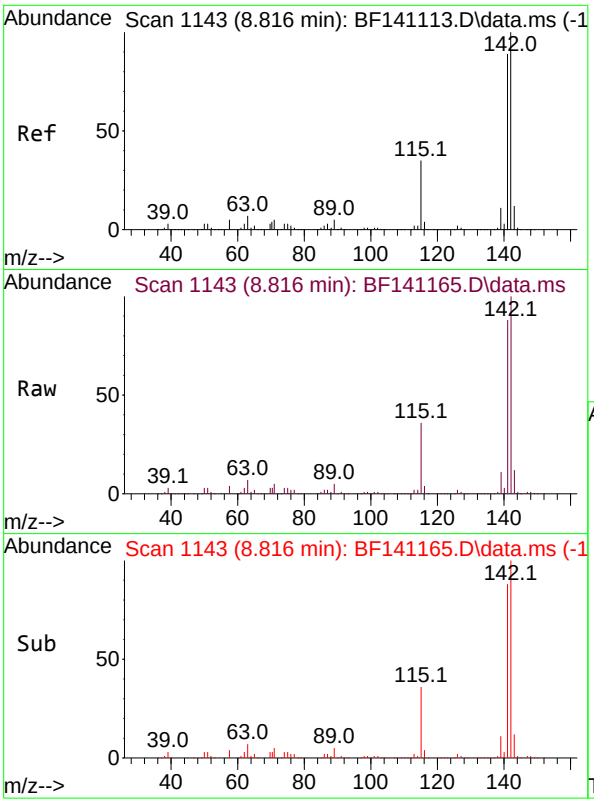


#36
4-Chloro-3-methylphenol
Concen: 46.854 ng
RT: 8.651 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:107 Resp: 410698

Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.4	30.6
142	75.5	62.2	93.2



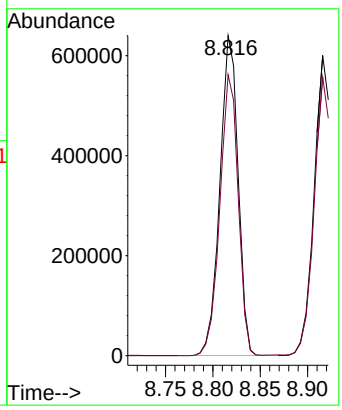


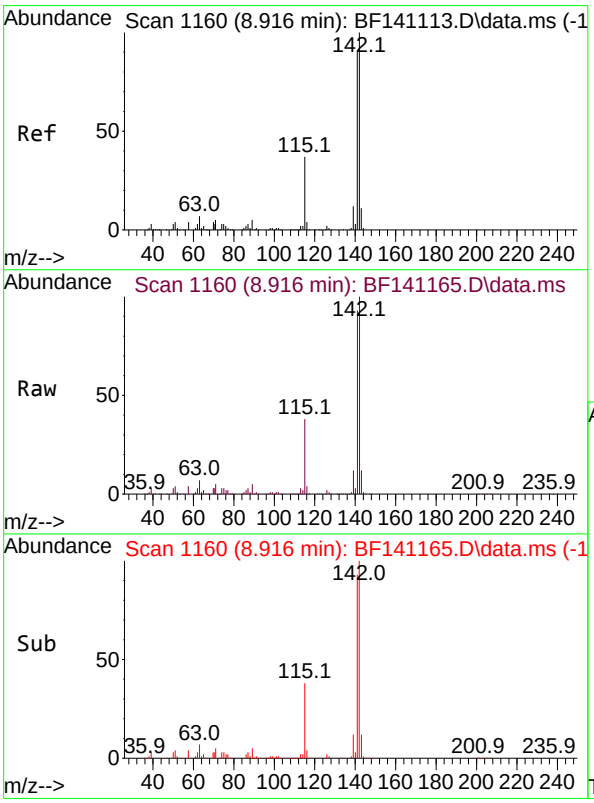
#37
2-Methylnaphthalene
Concen: 45.609 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:142 Resp: 857406

Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.3	106.9

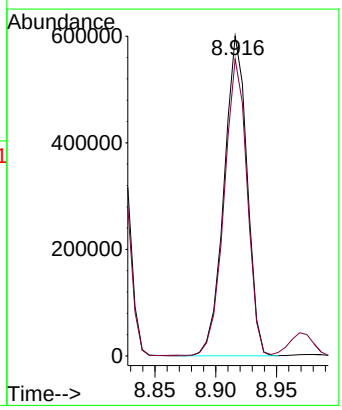


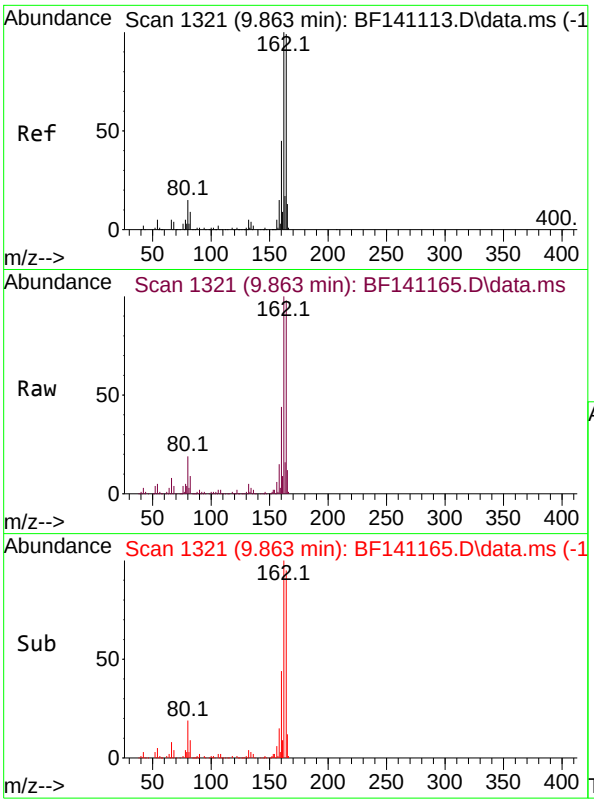


#38
1-Methylnaphthalene
Concen: 42.599 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:142 Resp: 789241

Ion	Ratio	Lower	Upper
142	100		
141	92.8	73.1	109.7



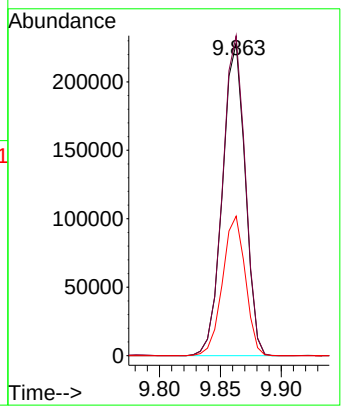


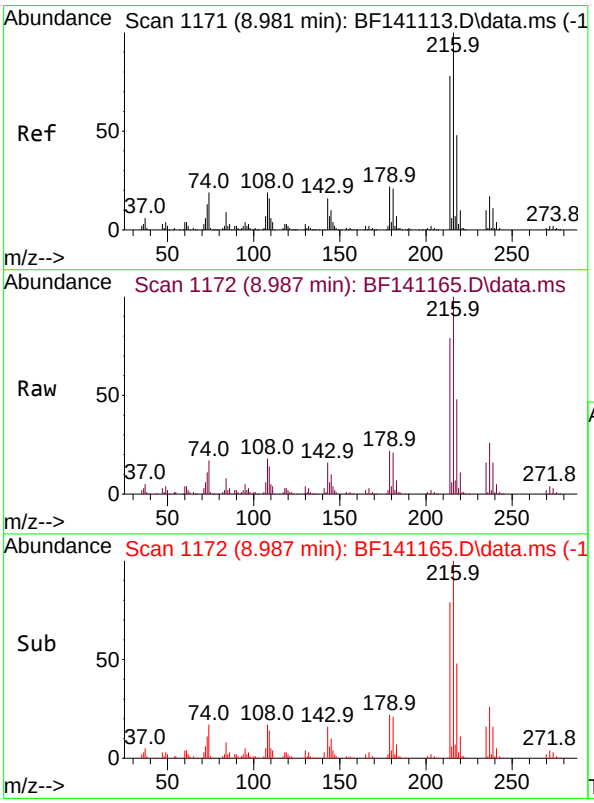
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:164 Resp: 296383

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.0	121.4
160	44.7	36.1	54.1

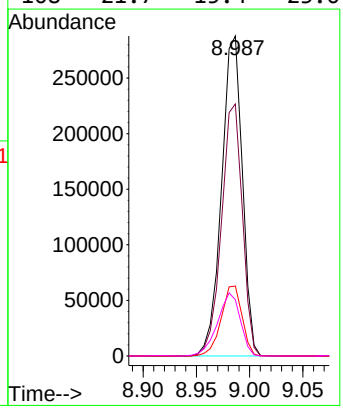


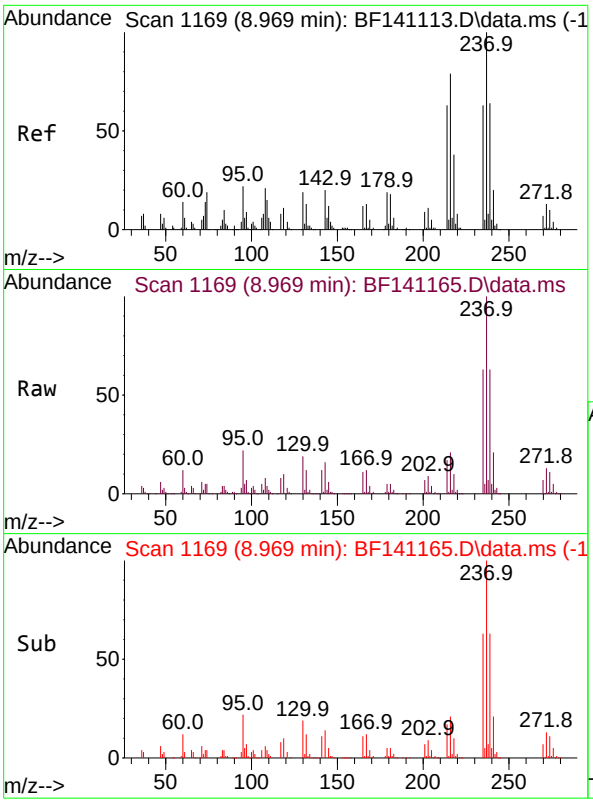


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.831 ng
RT: 8.987 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:216 Resp: 389876

Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.6	94.0
179	22.1	17.7	26.5
108	21.7	15.4	23.0



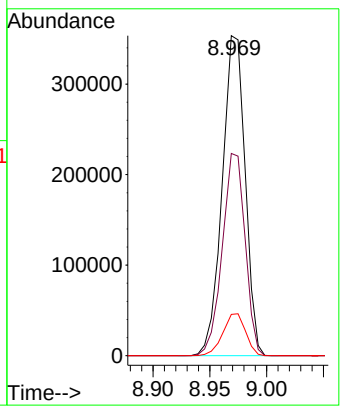


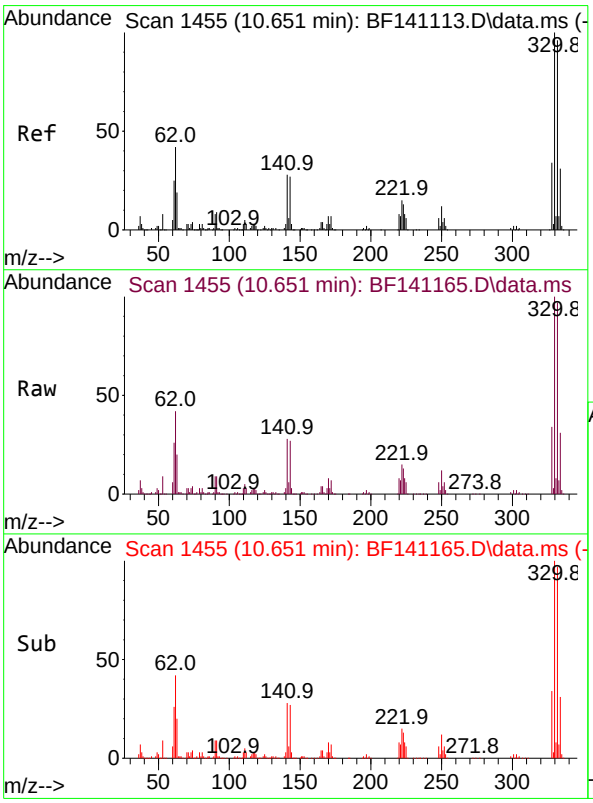
#41
Hexachlorocyclopentadiene
Concen: 178.397 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:237 Resp: 496501

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.0	83.0
272	12.9	0.0	33.0

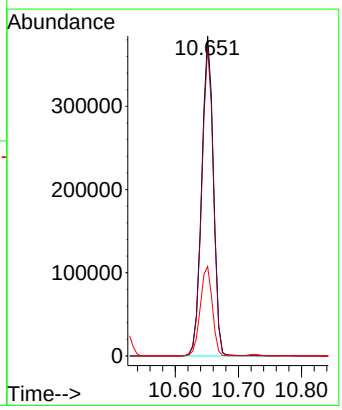


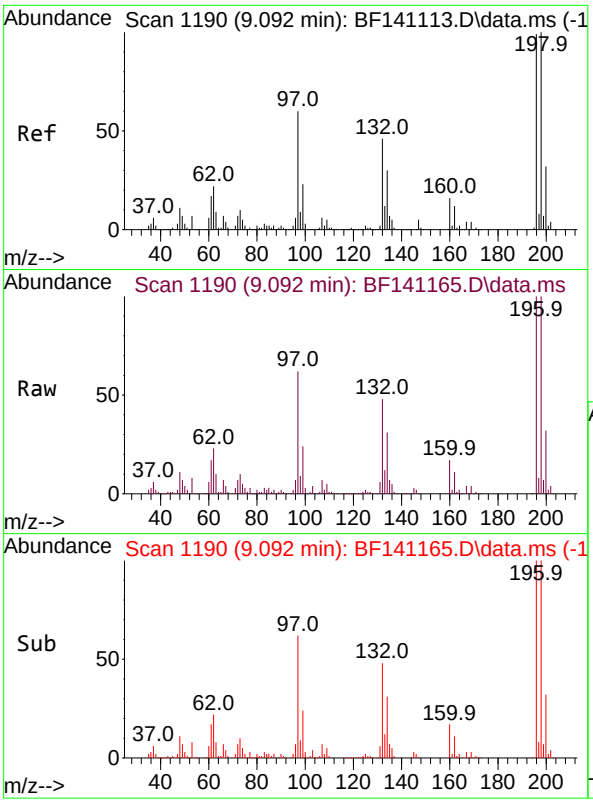


#42
2,4,6-Tribromophenol
Concen: 146.817 ng
RT: 10.651 min Scan# 1455
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:330 Resp: 495813

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	28.7	25.2	37.8



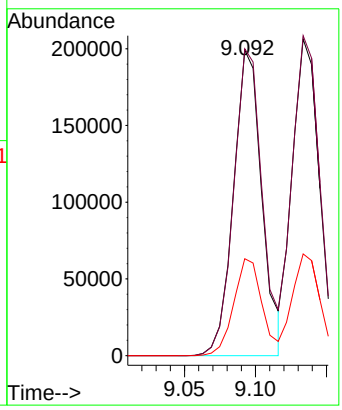


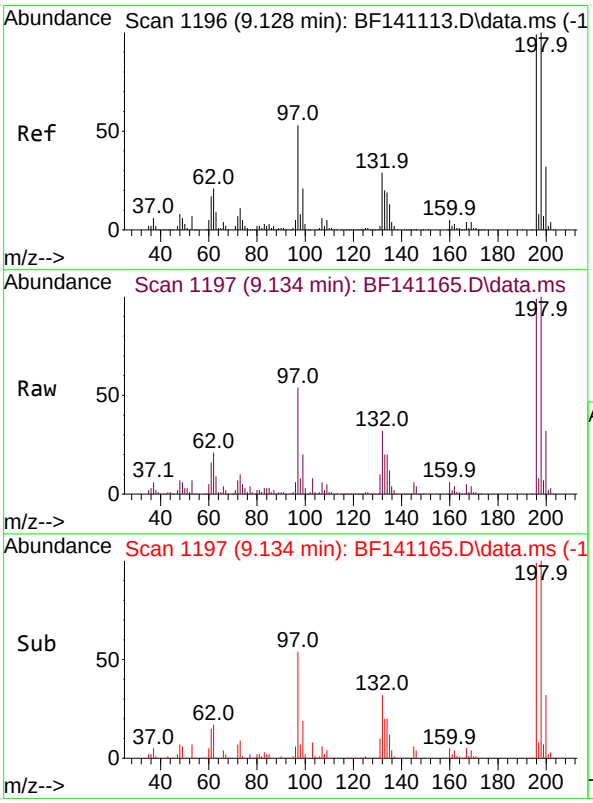
#43
2,4,6-Trichlorophenol
Concen: 48.169 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:196 Resp: 276357

Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.8	121.2
200	31.8	25.7	38.5

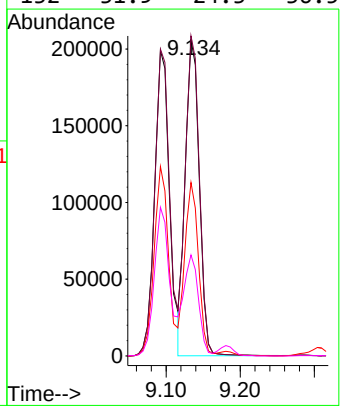


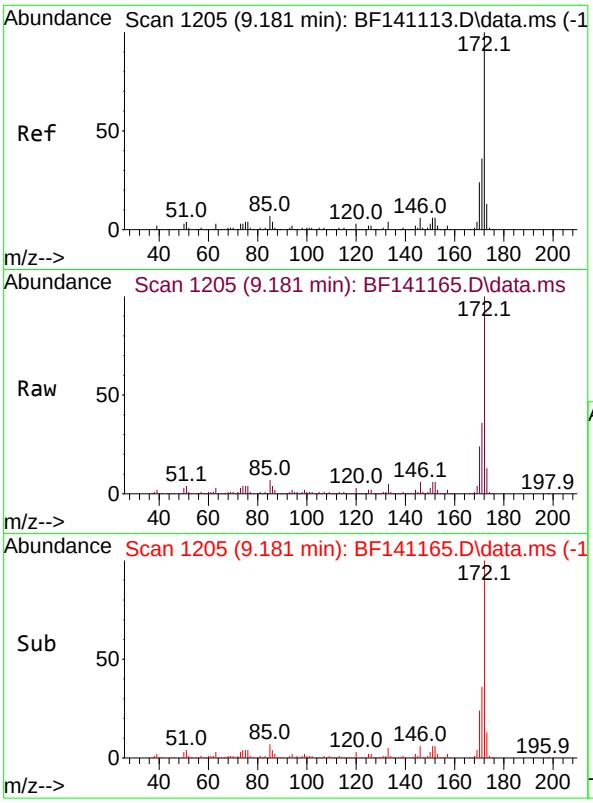


#44
2,4,5-Trichlorophenol
Concen: 44.988 ng
RT: 9.134 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:196 Resp: 272593

Ion	Ratio	Lower	Upper
196	100		
198	101.1	80.6	120.8
97	54.8	43.1	64.7
132	31.9	24.3	36.5



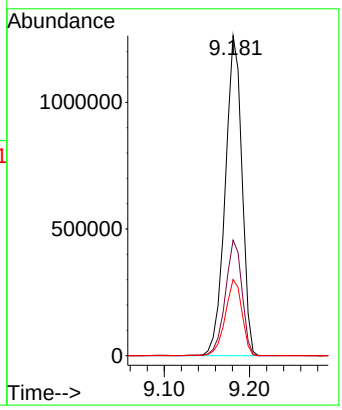


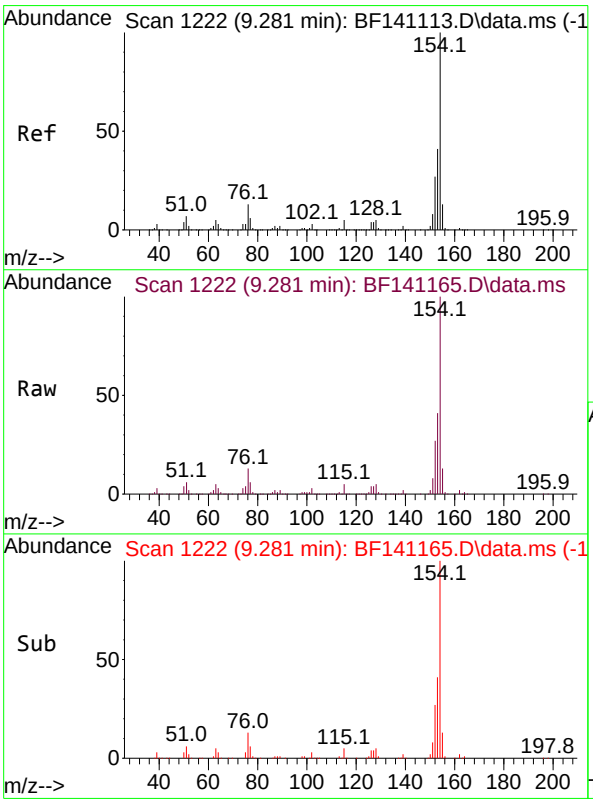
#45
2-Fluorobiphenyl
Concen: 88.547 ng
RT: 9.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:172 Resp: 1718604

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.8	19.0	28.6

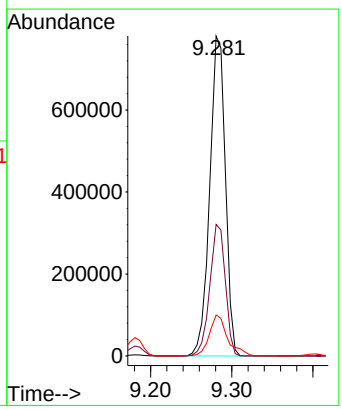


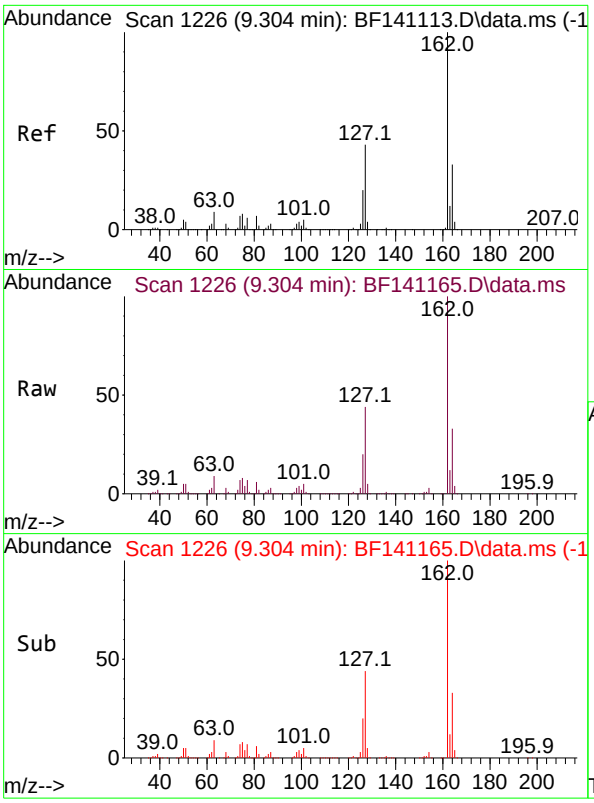


#46
1,1'-Biphenyl
Concen: 45.225 ng
RT: 9.281 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:154 Resp: 1040938

Ion	Ratio	Lower	Upper
154	100		
153	41.1	20.7	60.7
76	12.8	0.0	33.1



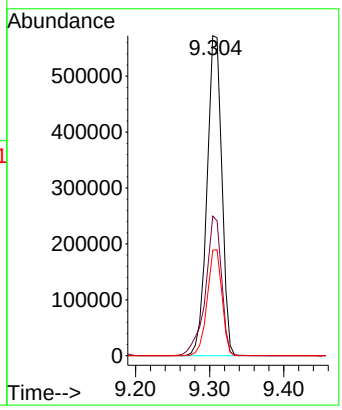


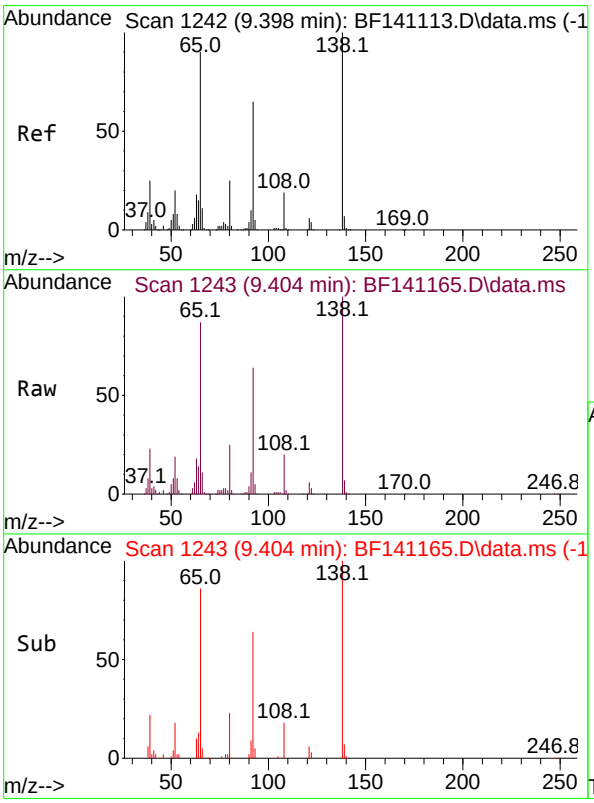
#47
2-Chloronaphthalene
Concen: 44.320 ng
RT: 9.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:162 Resp: 794541

Ion	Ratio	Lower	Upper
162	100		
127	43.6	34.6	51.8
164	33.0	26.5	39.7

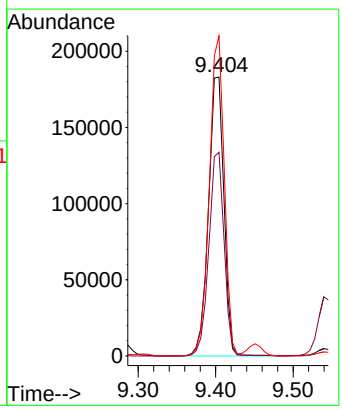


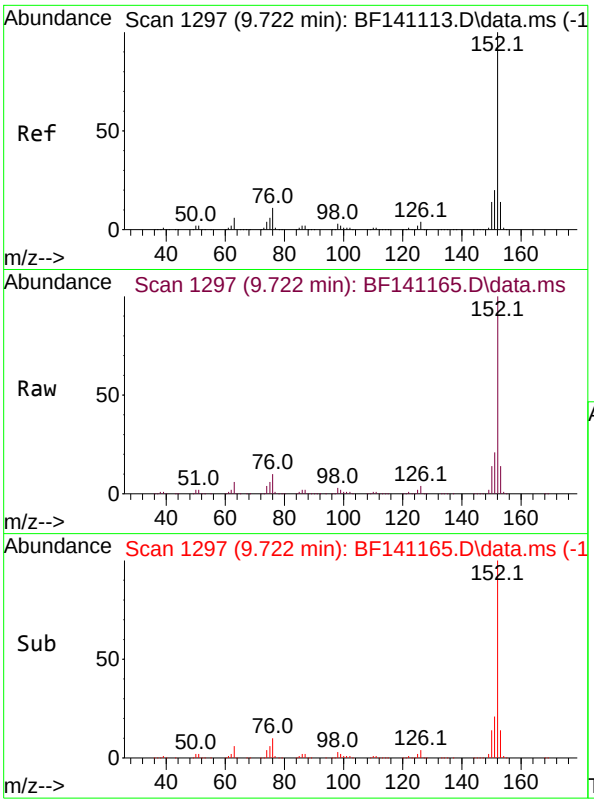


#48
2-Nitroaniline
Concen: 47.818 ng
RT: 9.404 min Scan# 1243
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 65 Resp: 254121

Ion	Ratio	Lower	Upper
65	100		
92	73.0	58.3	87.5
138	114.7	89.1	133.7



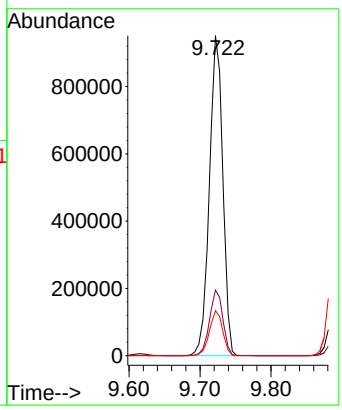


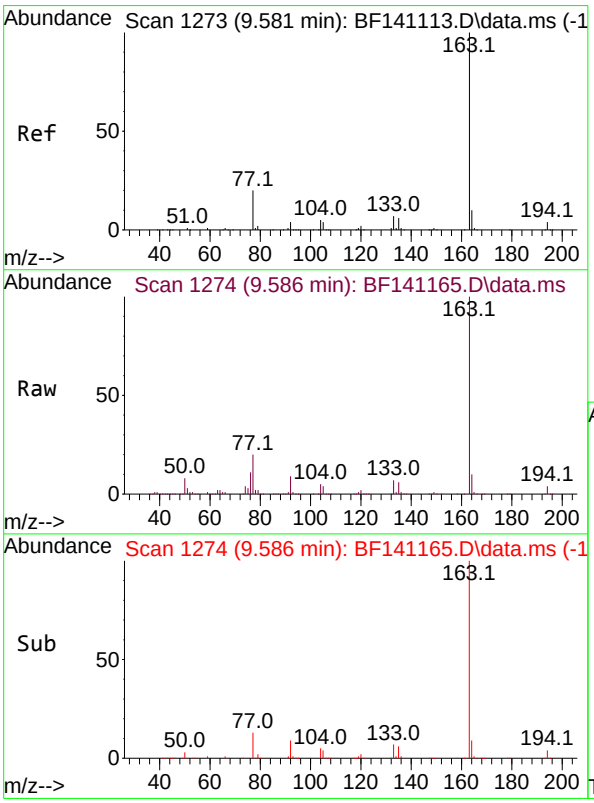
#49
Acenaphthylene
Concen: 48.714 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:152 Resp: 1247717

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	14.1	11.1	16.7

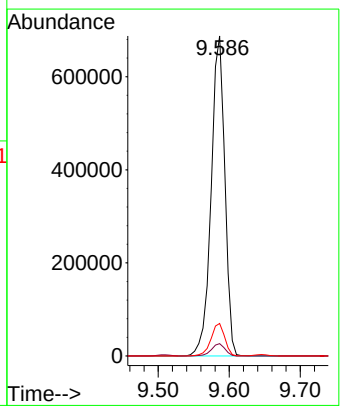


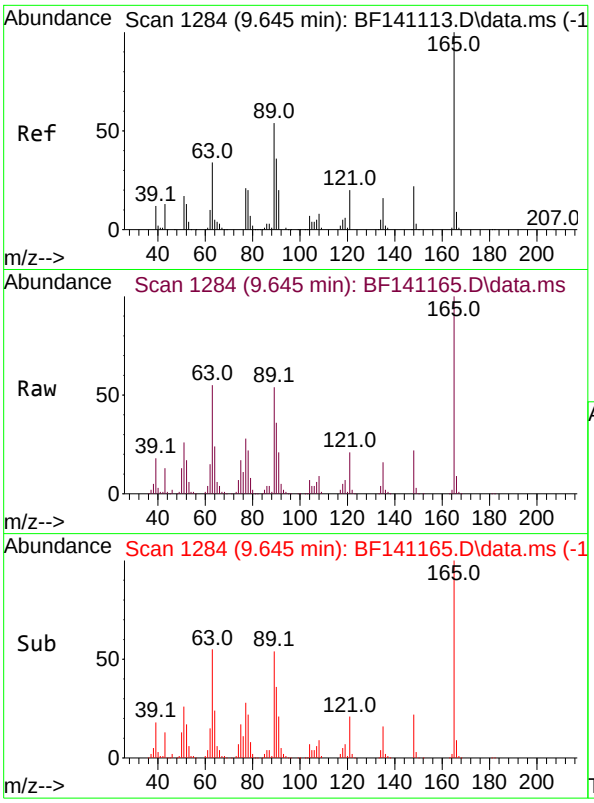


#50
Dimethylphthalate
Concen: 46.219 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:163 Resp: 919633

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.1	8.2	12.4



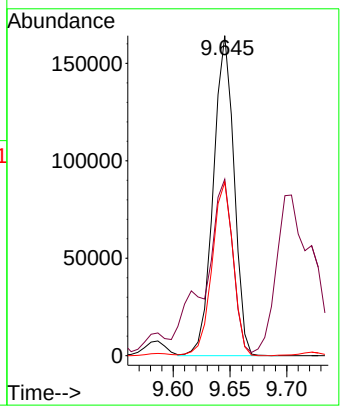


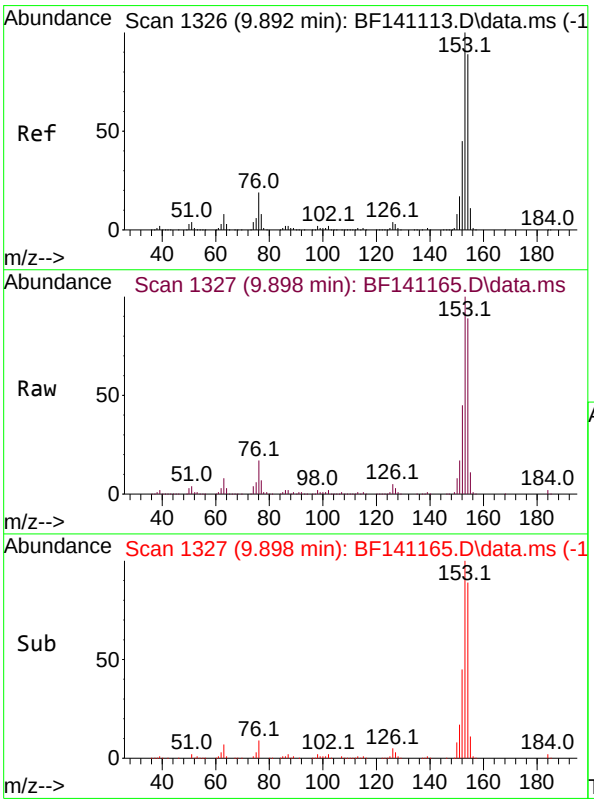
#51
2,6-Dinitrotoluene
Concen: 45.095 ng
RT: 9.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:165 Resp: 208657

Ion	Ratio	Lower	Upper
165	100		
63	55.2	42.3	63.5
89	54.2	43.1	64.7

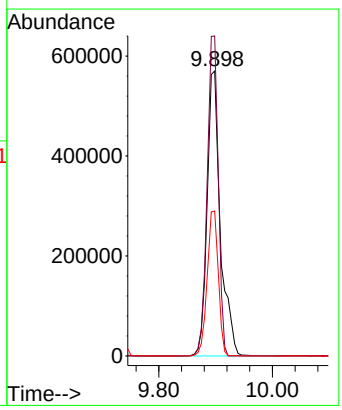


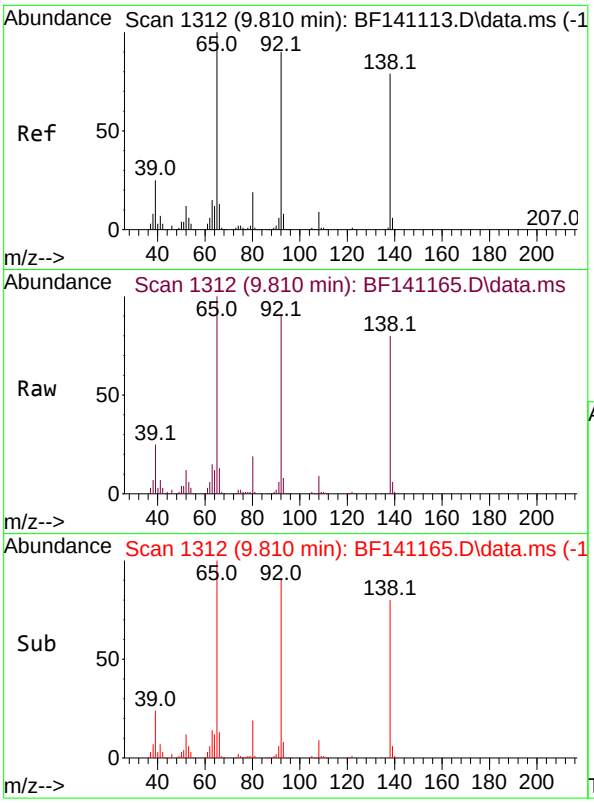


#52
Acenaphthene
Concen: 51.587 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:154 Resp: 923120

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.8	134.6
152	50.9	40.8	61.2



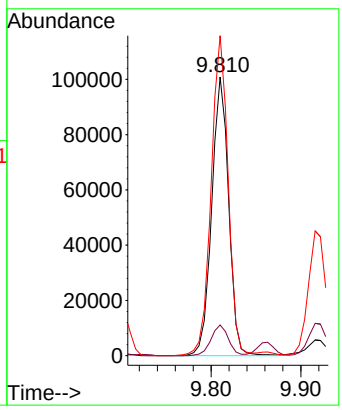


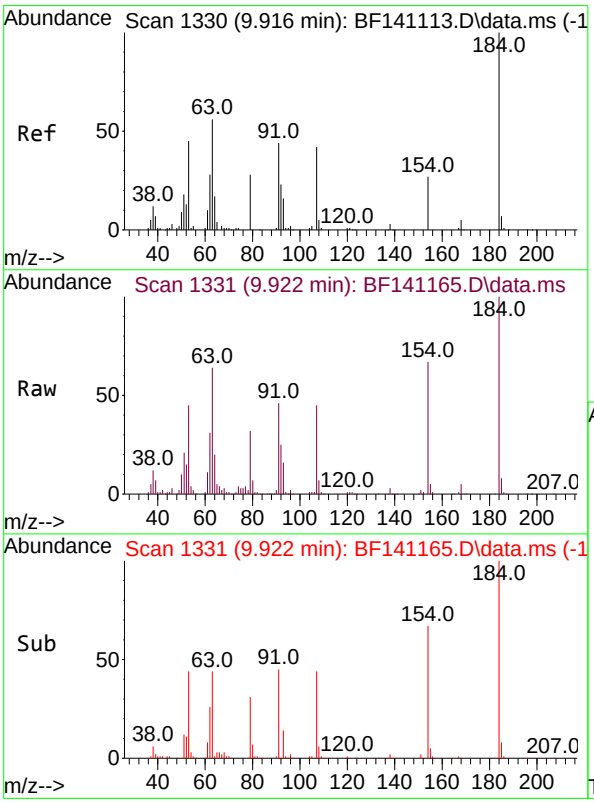
#53
3-Nitroaniline
Concen: 28.088 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:138 Resp: 132071

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.8	13.2
92	114.8	91.3	136.9

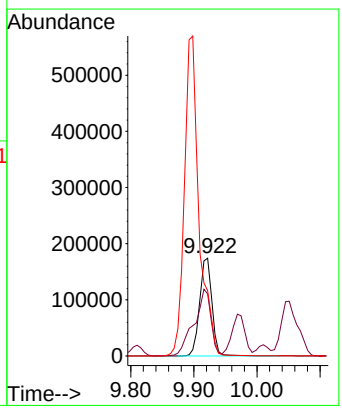


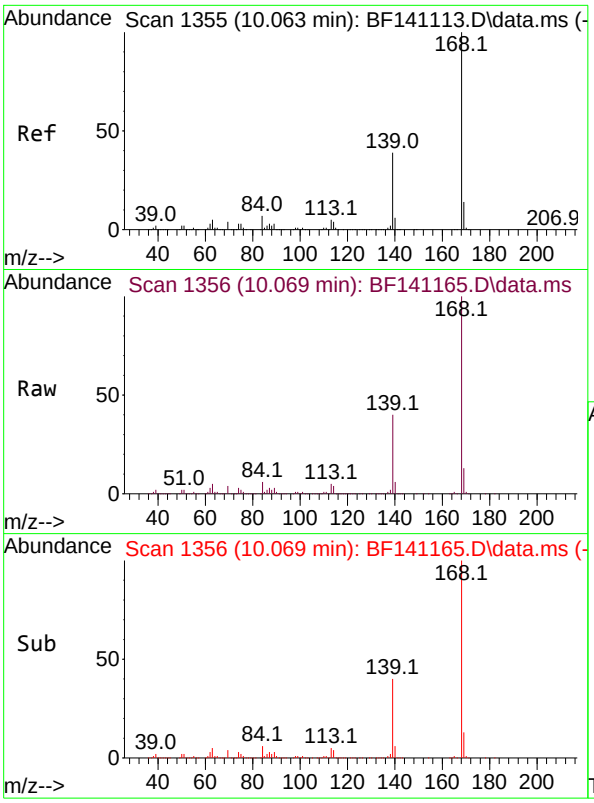


#54
2,4-Dinitrophenol
Concen: 107.198 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:184 Resp: 235763

Ion	Ratio	Lower	Upper
184	100		
63	63.5	48.7	73.1
154	66.8	57.1	85.7



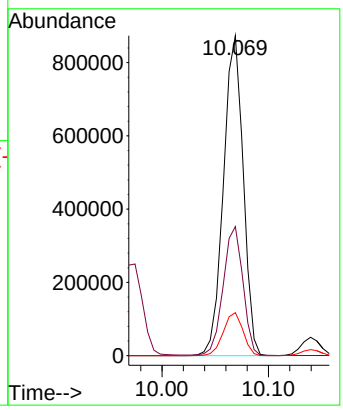


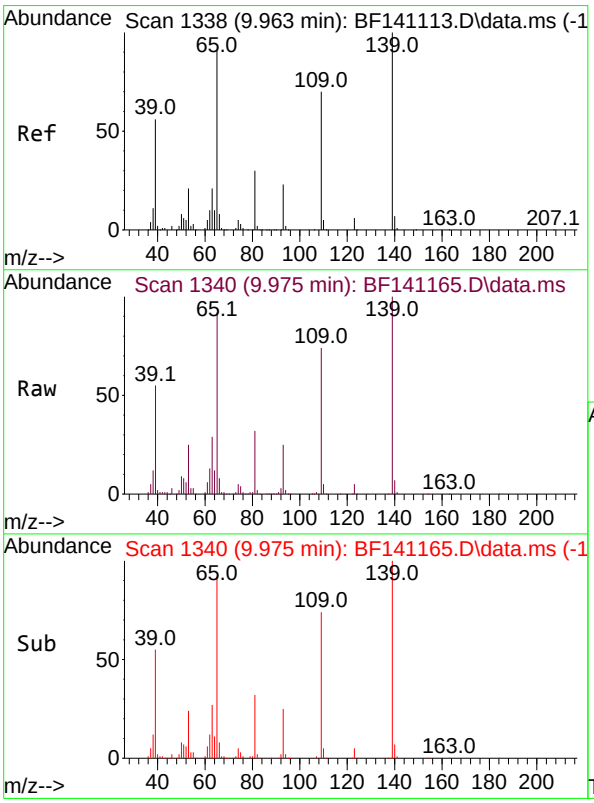
#55
Dibenzofuran
Concen: 46.212 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:168 Resp: 1124811

Ion	Ratio	Lower	Upper
168	100		
139	40.3	31.4	47.0
169	13.5	10.9	16.3

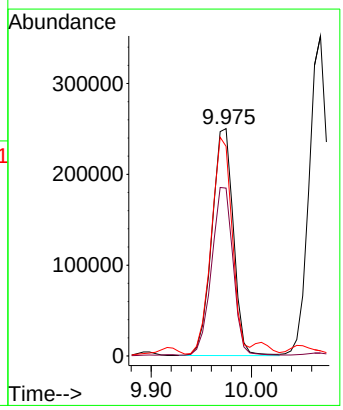


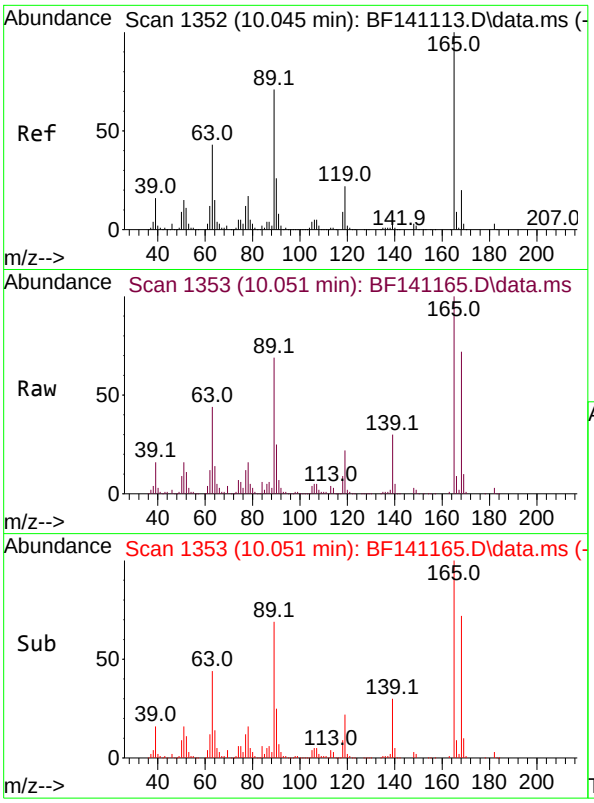


#56
4-Nitrophenol
Concen: 100.786 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.012 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:139 Resp: 371142

Ion	Ratio	Lower	Upper
139	100		
109	73.8	50.2	90.2
65	92.2	72.1	112.1



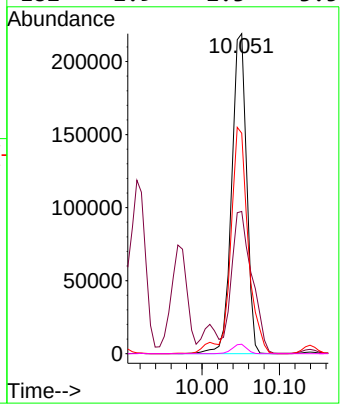


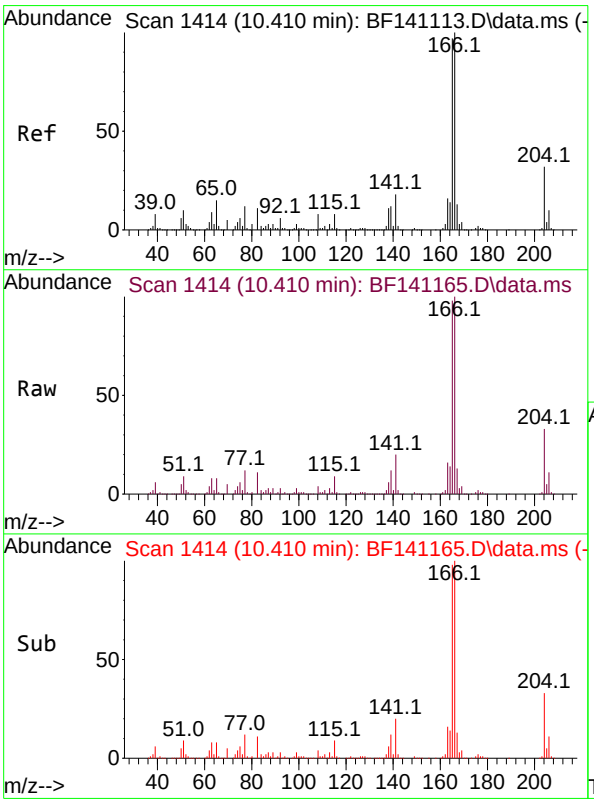
#57
2,4-Dinitrotoluene
Concen: 49.452 ng
RT: 10.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:165 Resp: 294883

Ion	Ratio	Lower	Upper
165	100		
63	44.5	35.0	52.4
89	68.9	56.7	85.1
182	2.9	2.3	3.5

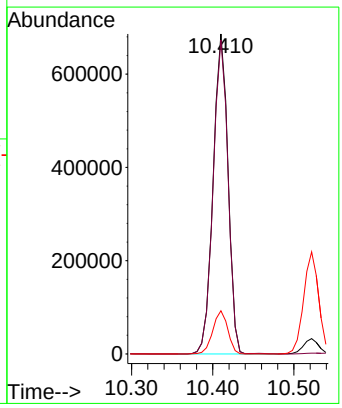


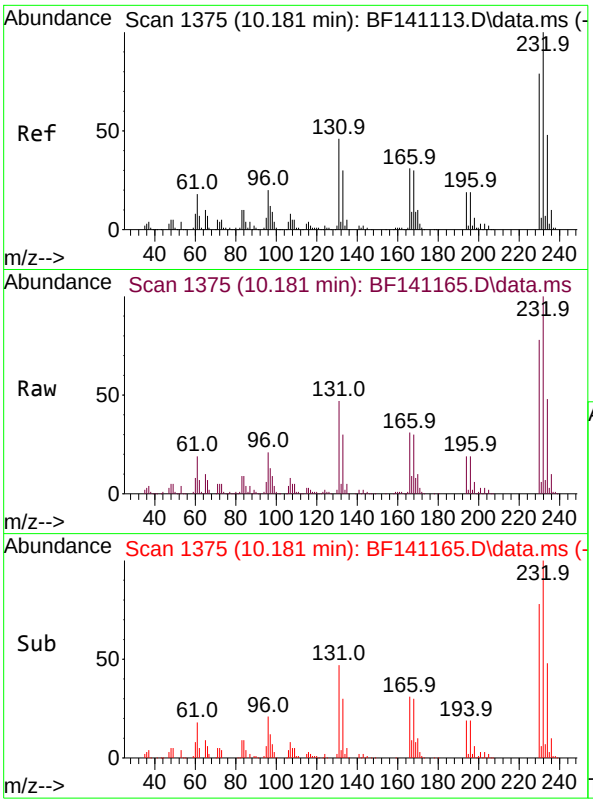


#58
Fluorene
Concen: 46.277 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:166 Resp: 875091

Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.5	10.8	16.2



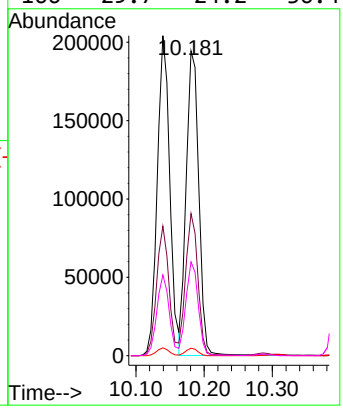


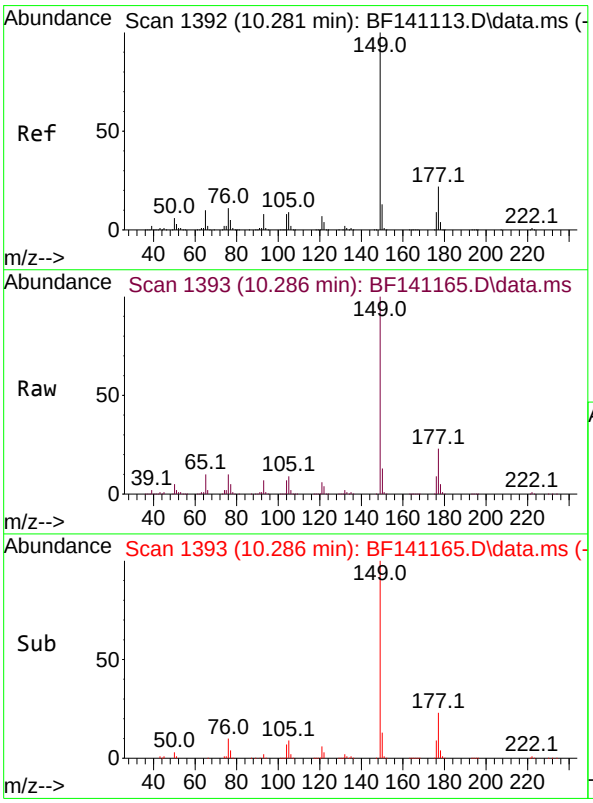
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.226 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:232 Resp: 247930

Ion	Ratio	Lower	Upper
232	100		
131	45.2	36.2	54.4
130	2.3	2.0	3.0
166	29.7	24.2	36.4

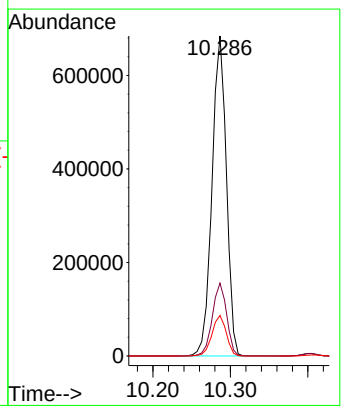


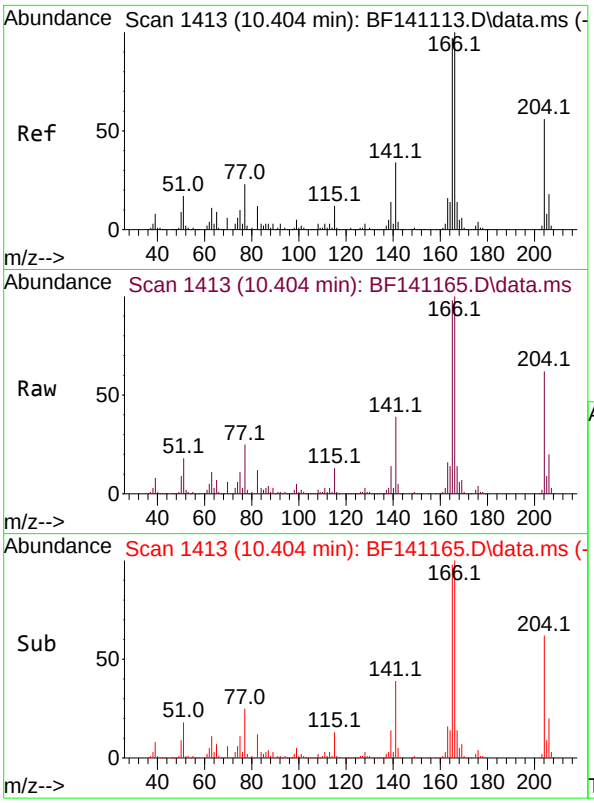


#60
Diethylphthalate
Concen: 45.376 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 881421

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.9	26.9
150	12.7	10.2	15.2



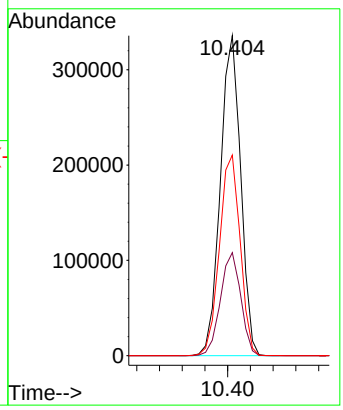


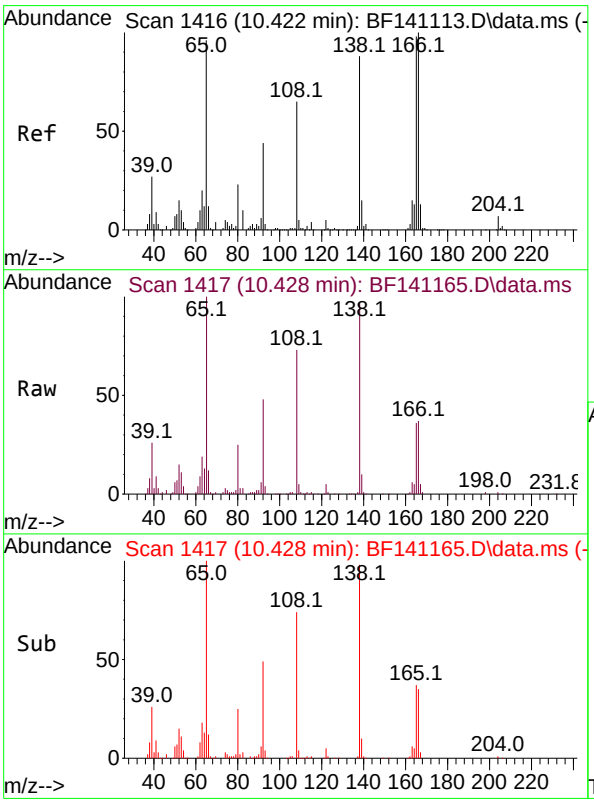
#61
4-Chlorophenyl-phenylether
Concen: 45.177 ng
RT: 10.404 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:204 Resp: 416366

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.9	38.9
141	62.7	49.1	73.7

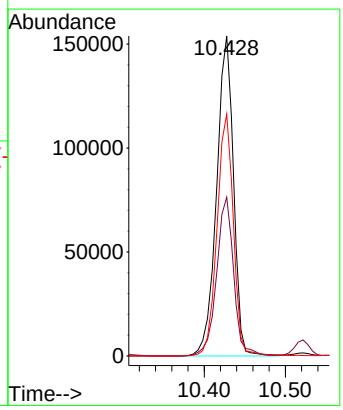


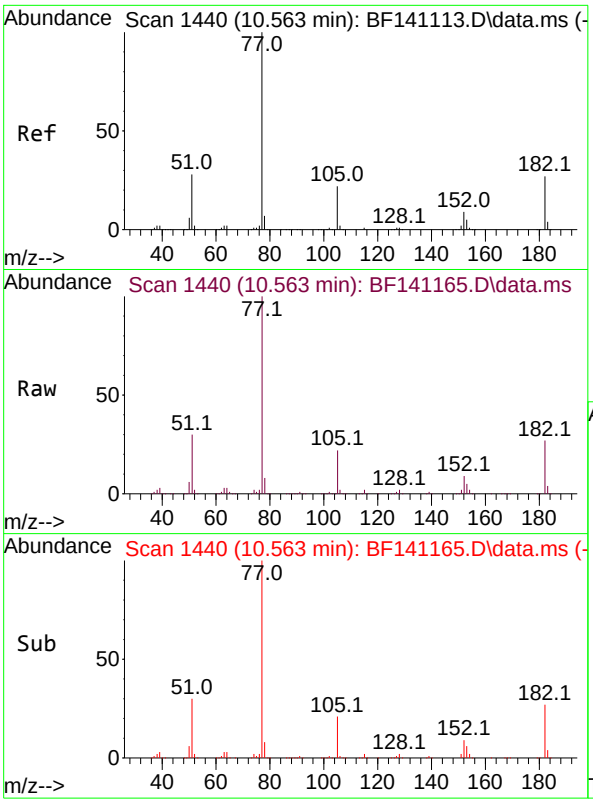


#62
4-Nitroaniline
Concen: 48.524 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:138 Resp: 223312

Ion	Ratio	Lower	Upper
138	100		
92	49.6	29.4	69.4
108	75.6	53.7	93.7



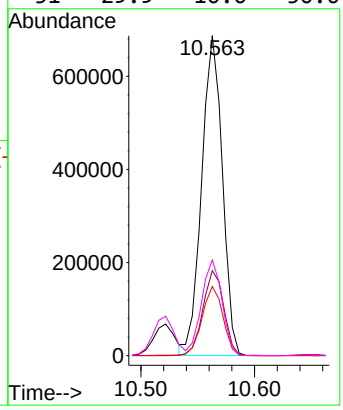


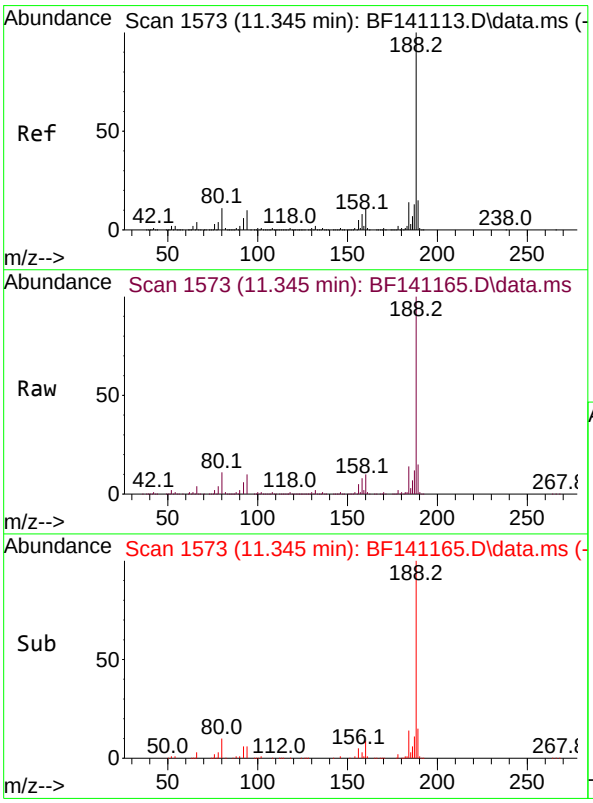
#63
Azobenzene
Concen: 45.387 ng
RT: 10.563 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 77 Resp: 869933

Ion	Ratio	Lower	Upper
77	100		
182	26.6	6.1	46.1
105	21.6	2.1	42.1
51	29.9	10.0	50.0

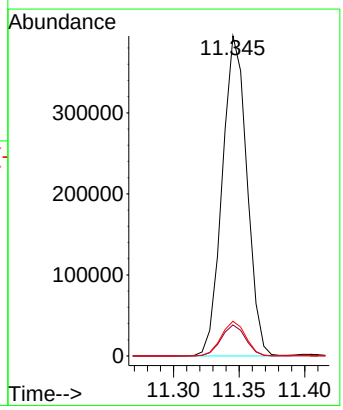


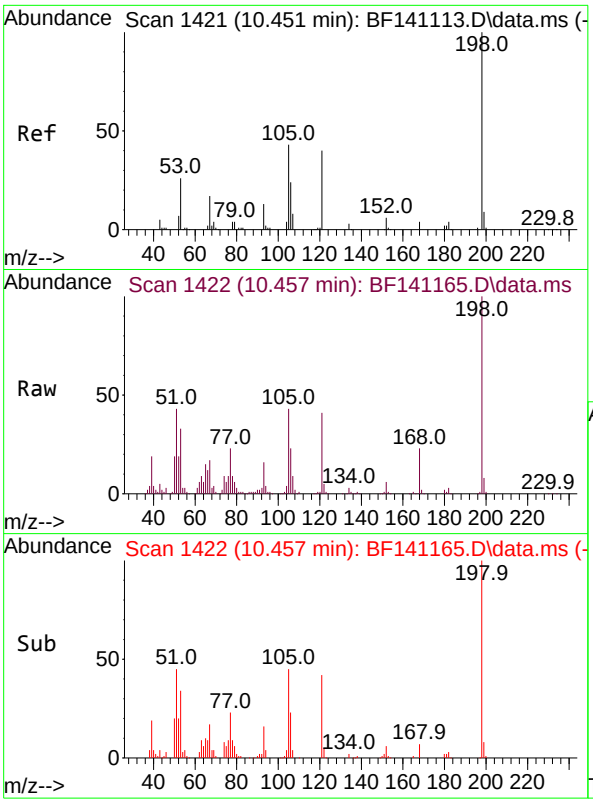


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:188 Resp: 515619

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.3	12.5
80	10.9	9.0	13.4



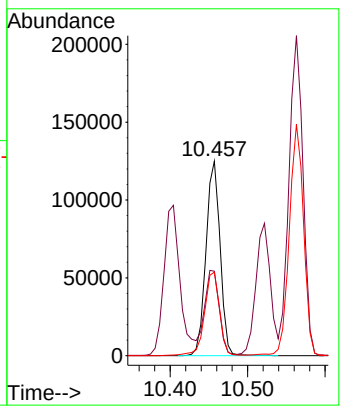


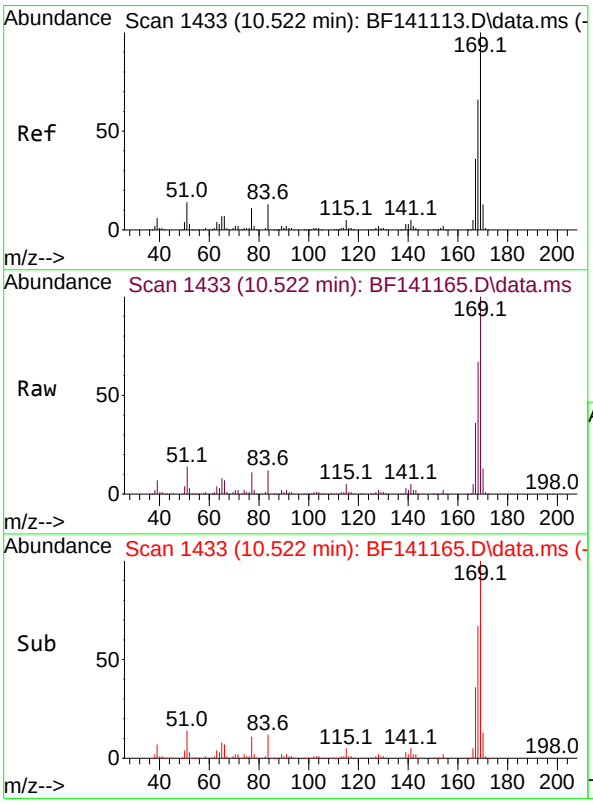
#65
4,6-Dinitro-2-methylphenol
Concen: 53.041 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:198 Resp: 158478

Ion	Ratio	Lower	Upper
198	100		
51	43.5	27.1	67.1
105	43.0	24.2	64.2

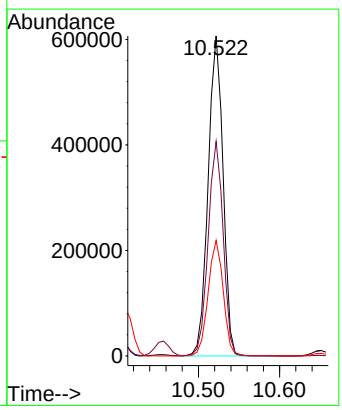


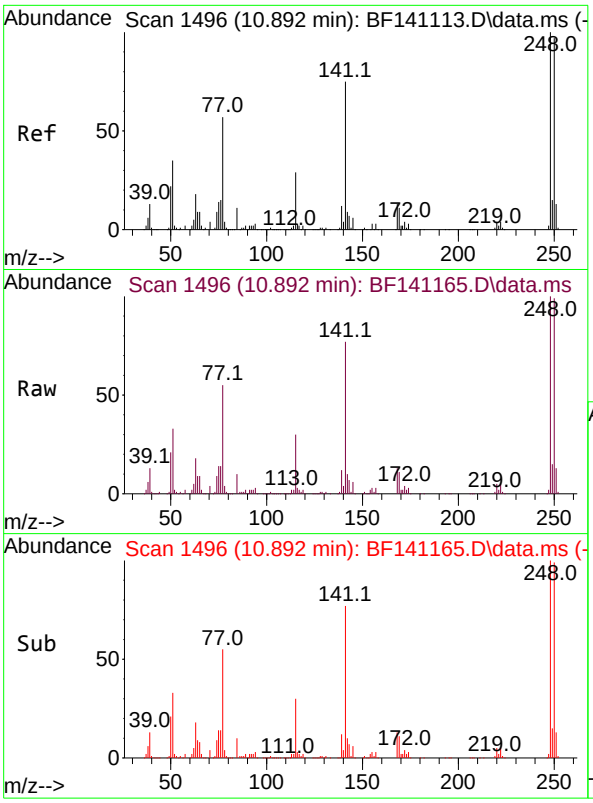


#66
n-Nitrosodiphenylamine
Concen: 46.419 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:169 Resp: 771997

Ion	Ratio	Lower	Upper
169	100		
168	67.0	52.5	78.7
167	36.1	28.9	43.3



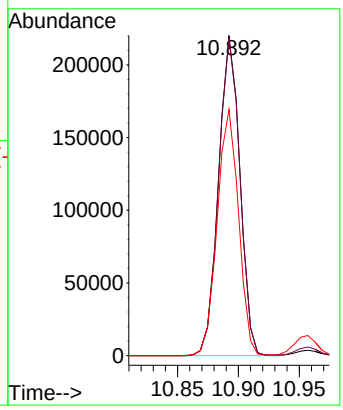


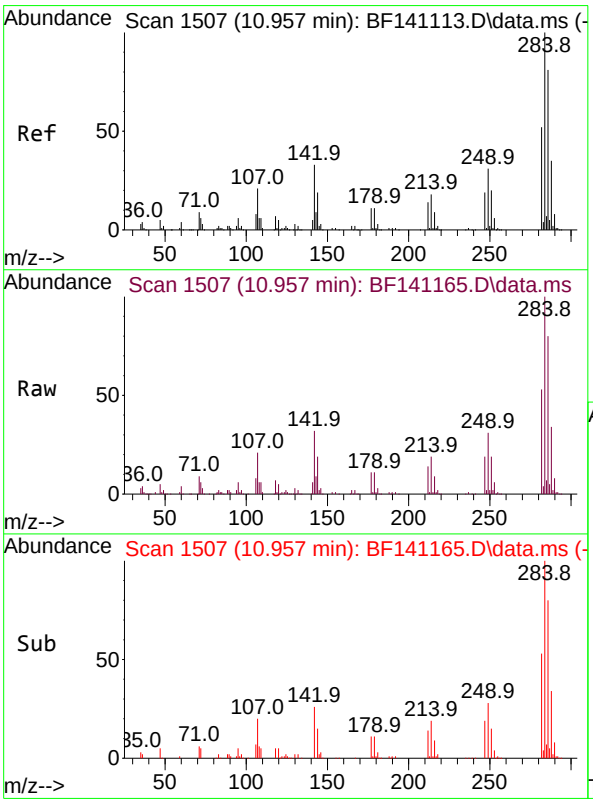
#67
4-Bromophenyl-phenylether
Concen: 45.353 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:248 Resp: 269230

Ion	Ratio	Lower	Upper
248	100		
250	99.2	77.9	116.9
141	76.9	59.9	89.9

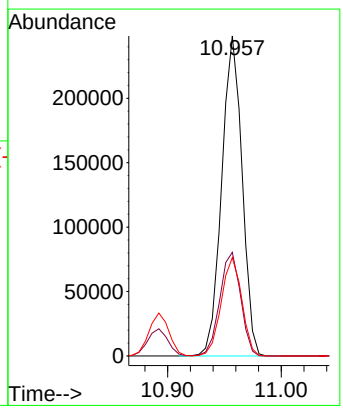


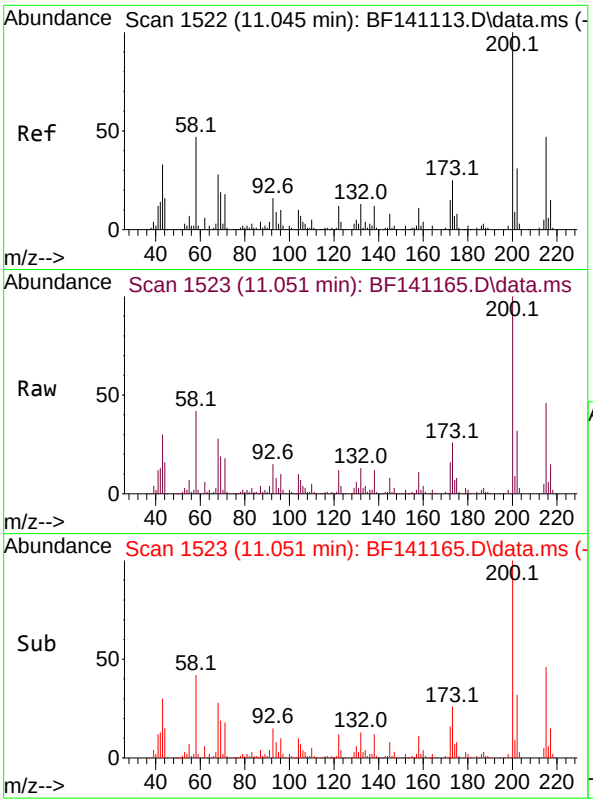


#68
Hexachlorobenzene
Concen: 46.838 ng
RT: 10.957 min Scan# 1507
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:284 Resp: 309514

Ion	Ratio	Lower	Upper
284	100		
142	32.4	26.3	39.5
249	30.7	24.9	37.3



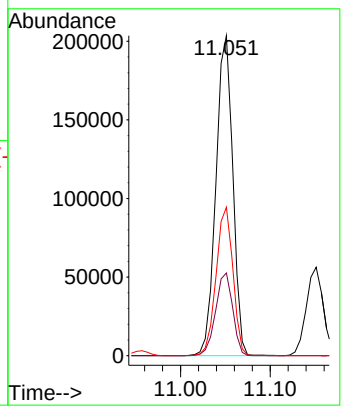


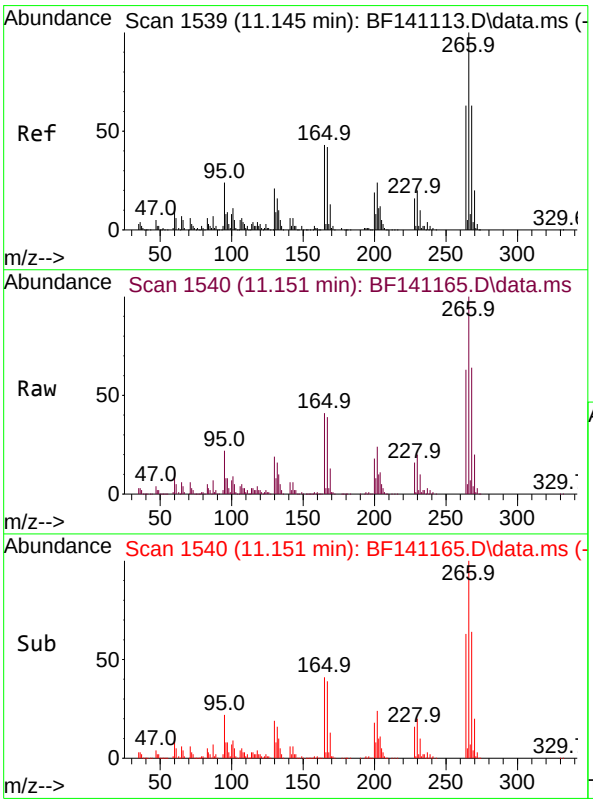
#69
Atrazine
Concen: 59.388 ng
RT: 11.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:200 Resp: 265941

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.4	45.4
215	46.4	26.6	66.6

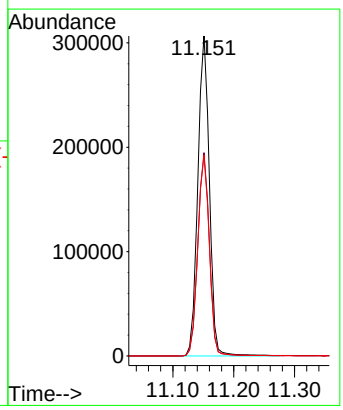


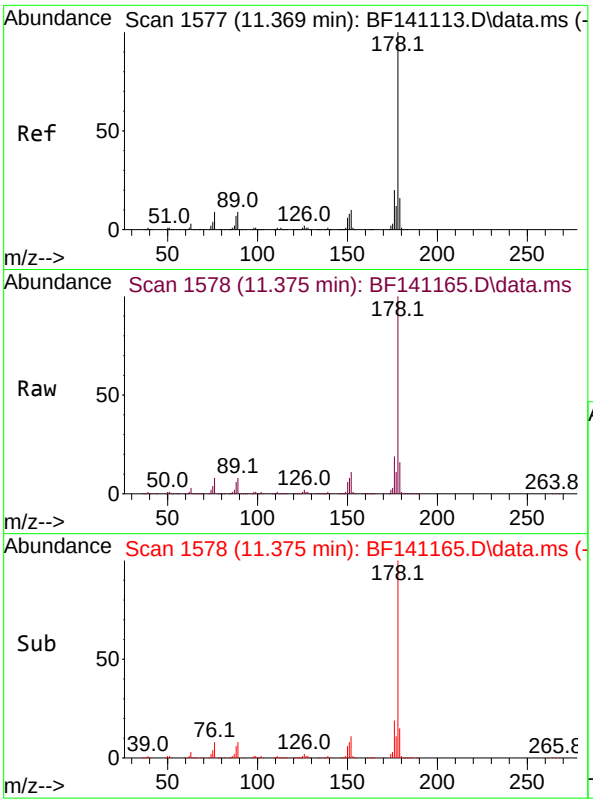


#70
Pentachlorophenol
Concen: 95.622 ng
RT: 11.151 min Scan# 1540
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:266 Resp: 404666

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.4	75.6
264	62.7	50.2	75.2



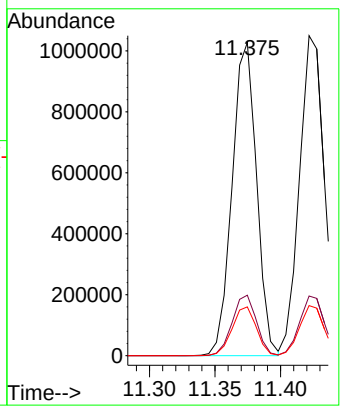


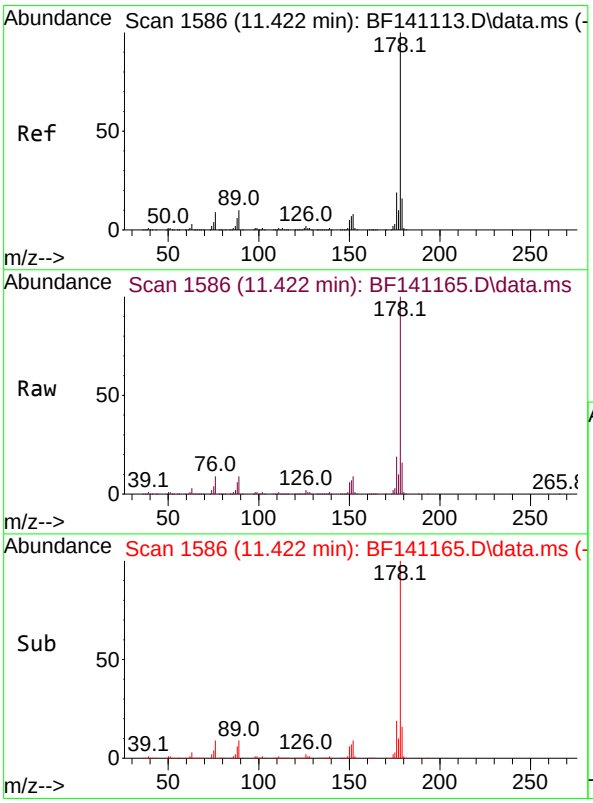
#71
Phenanthrene
Concen: 48.152 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:178 Resp: 1332947

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.6	12.6	19.0

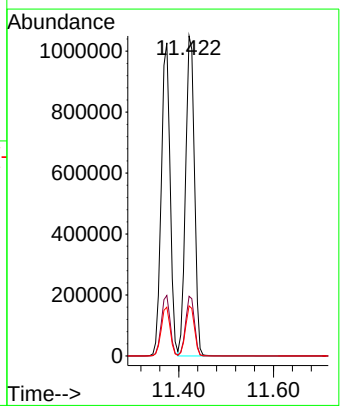


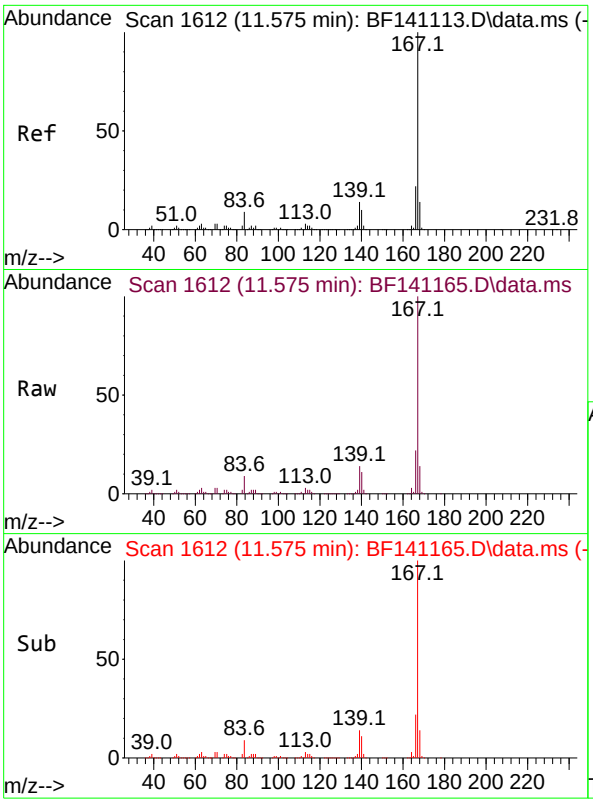


#72
Anthracene
Concen: 50.816 ng
RT: 11.422 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:178 Resp: 1367788

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.7	12.6	19.0



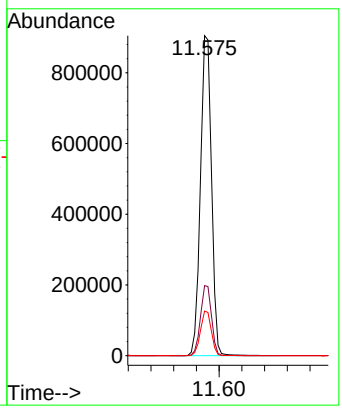


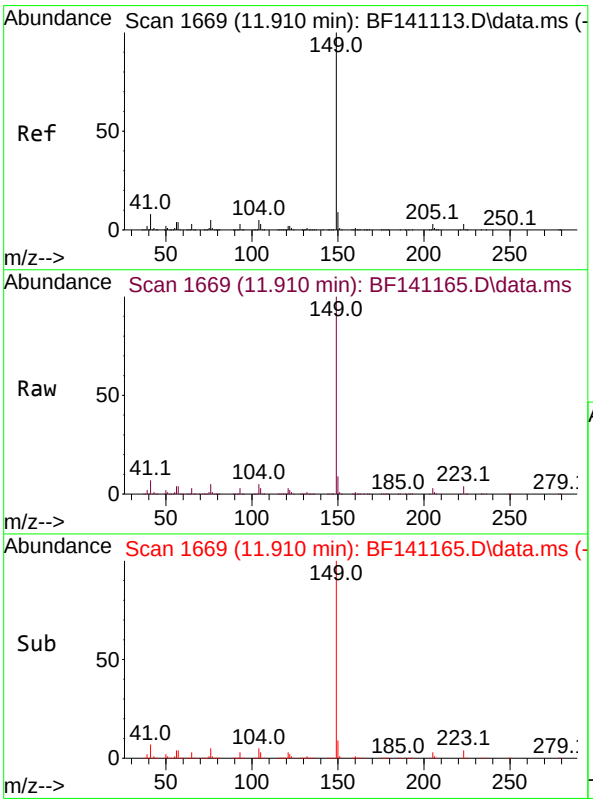
#73
Carbazole
Concen: 49.571 ng
RT: 11.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:167 Resp: 1223450

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.9	10.9	16.3

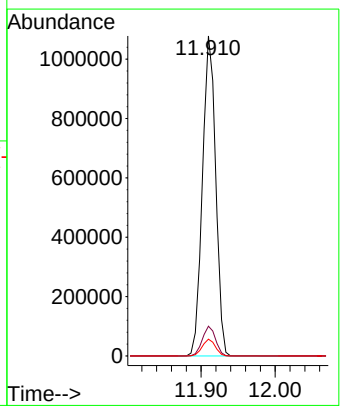


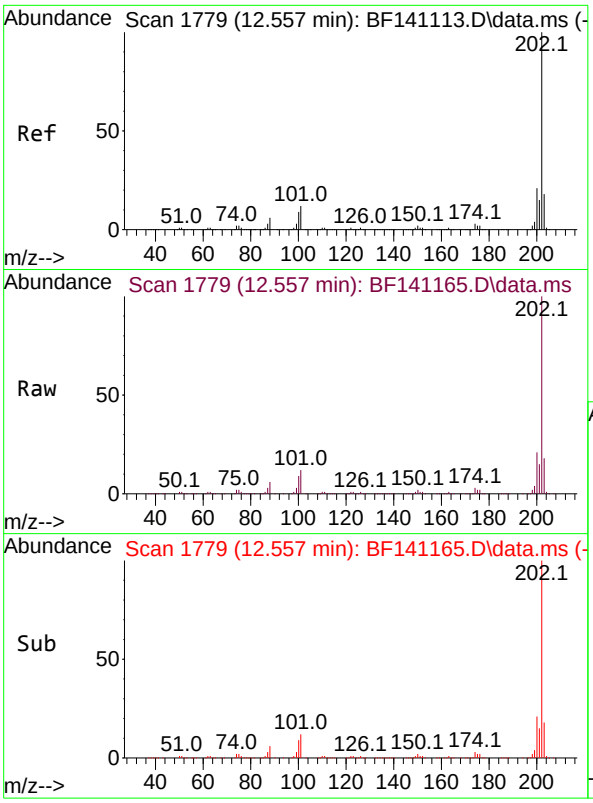


#74
Di-n-butylphthalate
Concen: 47.390 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 1338545

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.2	4.2	6.2



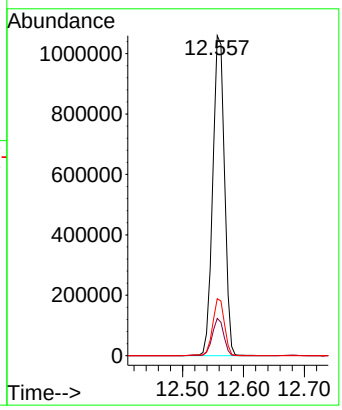


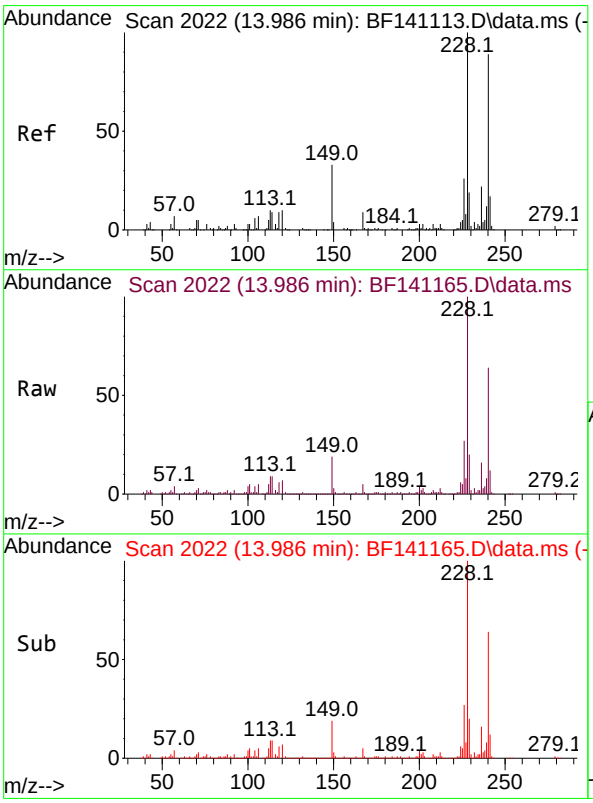
#75
Fluoranthene
Concen: 51.371 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:202 Resp: 1419075

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.3
203	17.8	0.0	37.7

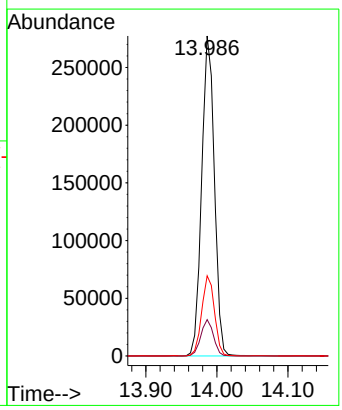


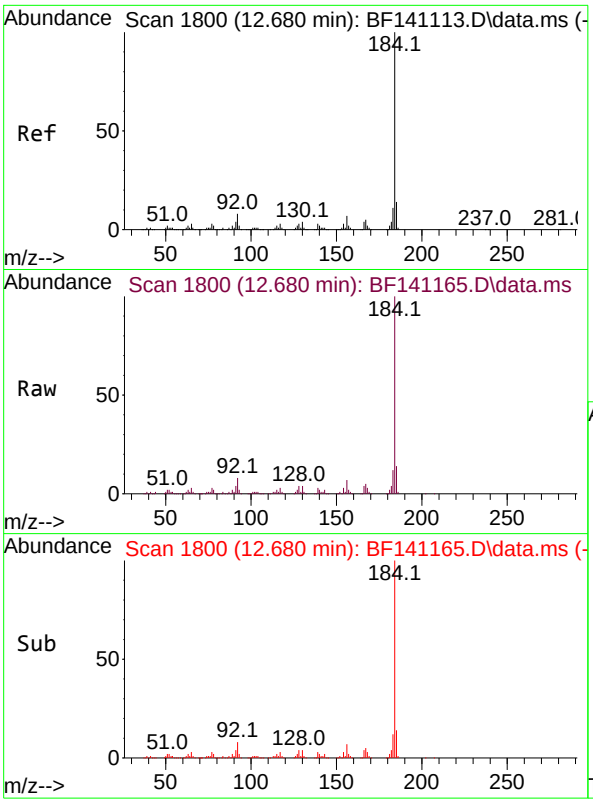


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:240 Resp: 346259

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.1	13.7
236	25.1	19.8	29.6



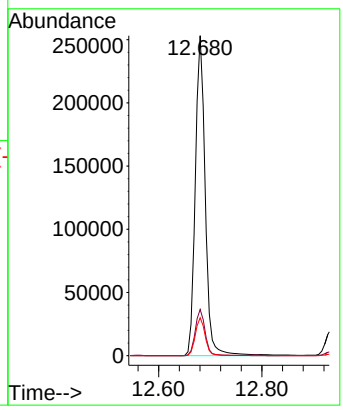


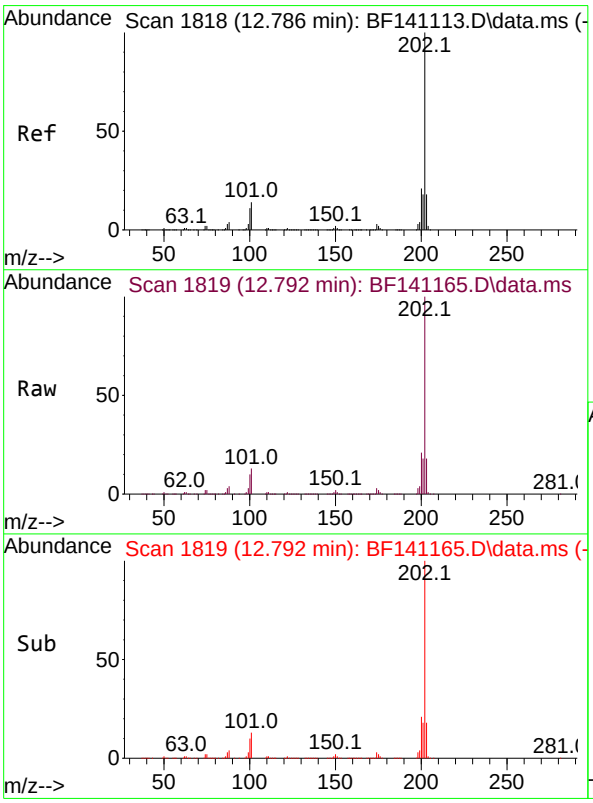
#77
Benzidine
Concen: 52.610 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:184 Resp: 337816

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.4	17.0
183	11.9	9.2	13.8

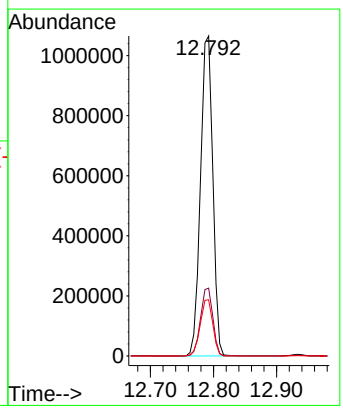


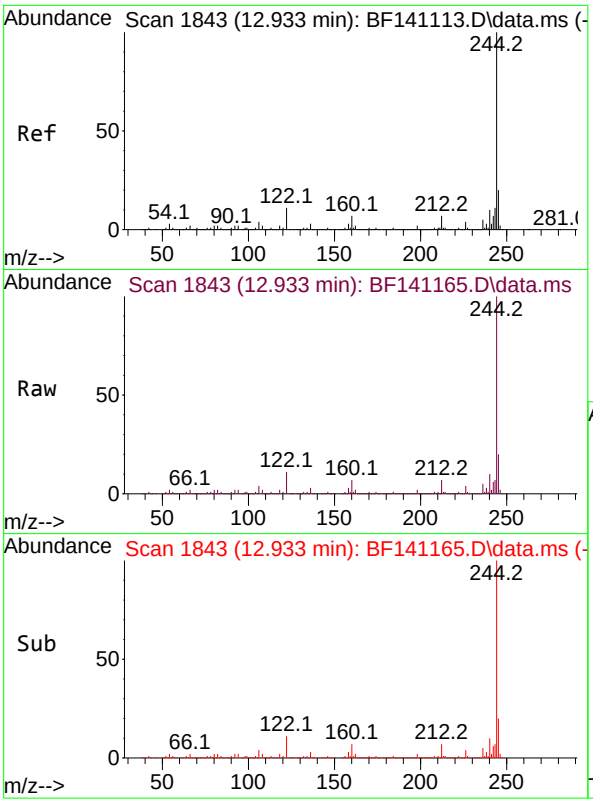


#78
Pyrene
Concen: 43.609 ng
RT: 12.792 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:202 Resp: 1442231

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.5	14.3	21.5



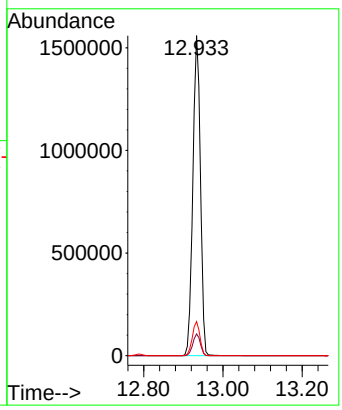


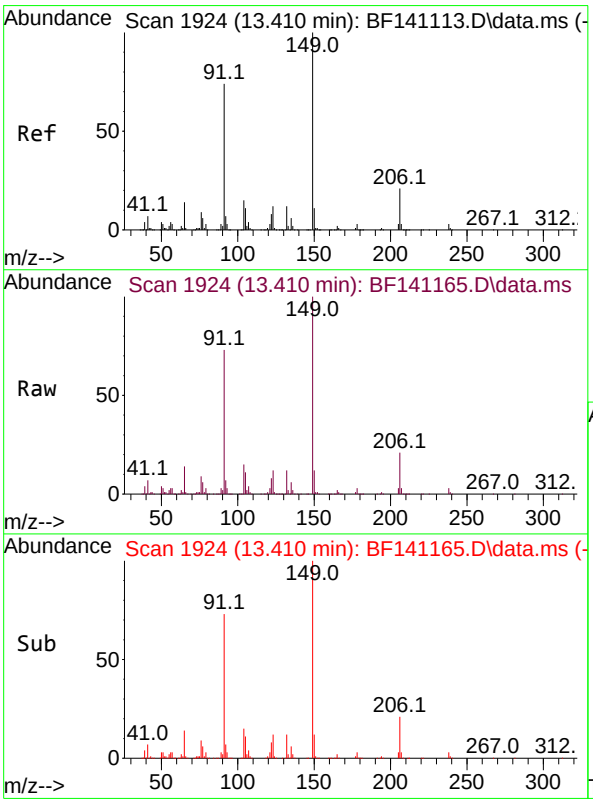
#79
Terphenyl-d14
Concen: 88.698 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:244 Resp: 2066373

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.7	8.8	13.2

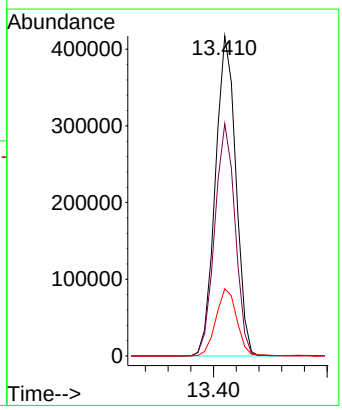


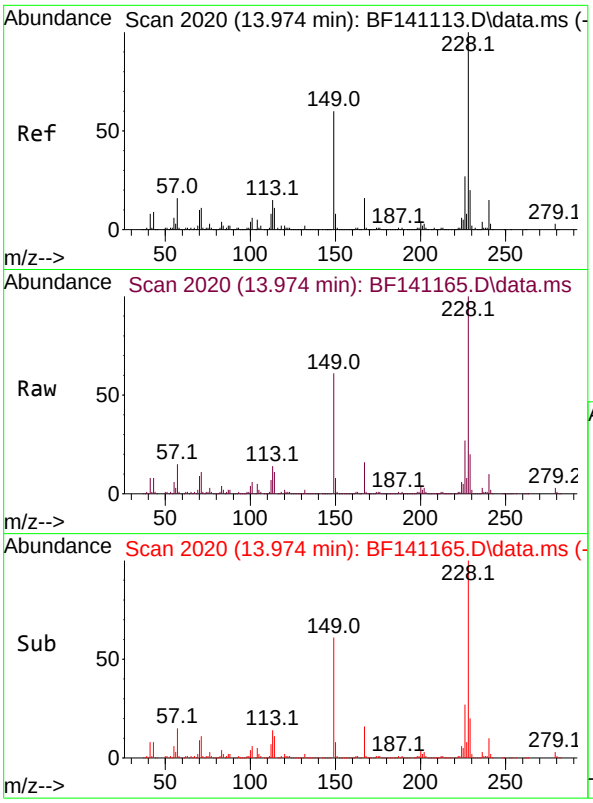


#80
Butylbenzylphthalate
Concen: 47.451 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 523212

Ion	Ratio	Lower	Upper
149	100		
91	72.6	59.0	88.6
206	21.0	16.5	24.7



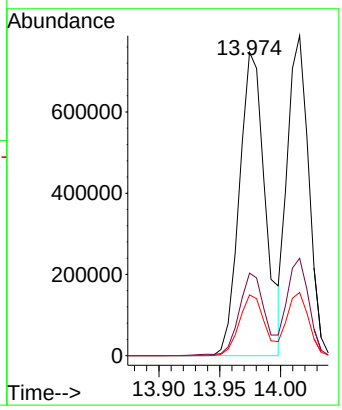


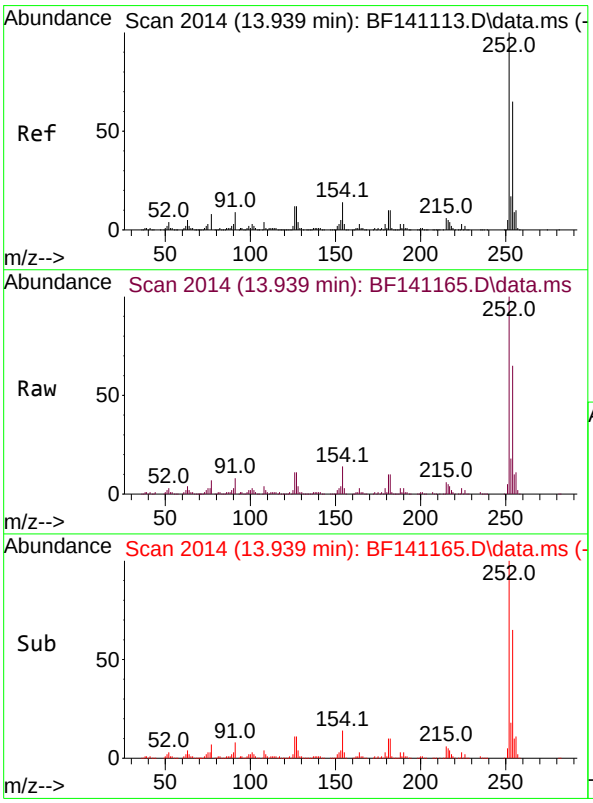
#81
Benzo(a)anthracene
Concen: 46.825 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:228 Resp: 1103435

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	20.1	15.7	23.5

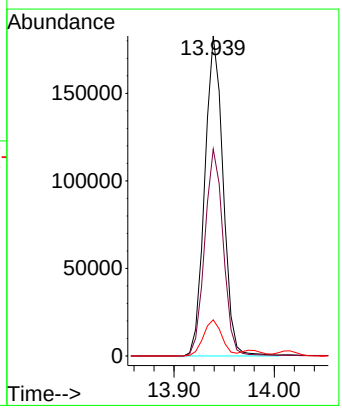


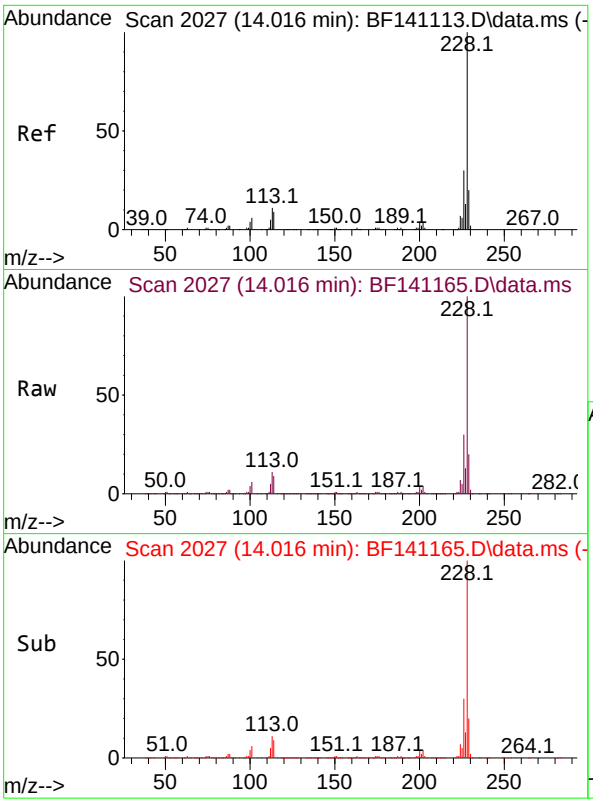


#82
3,3'-Dichlorobenzidine
Concen: 31.049 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:252 Resp: 232976

Ion	Ratio	Lower	Upper
252	100		
254	64.7	52.0	78.0
126	11.3	9.4	14.0



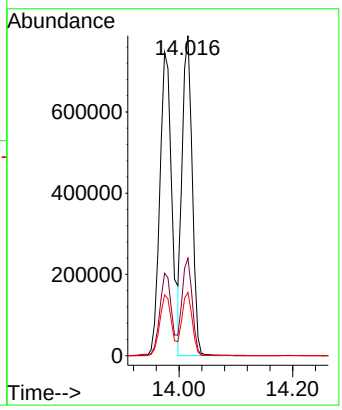


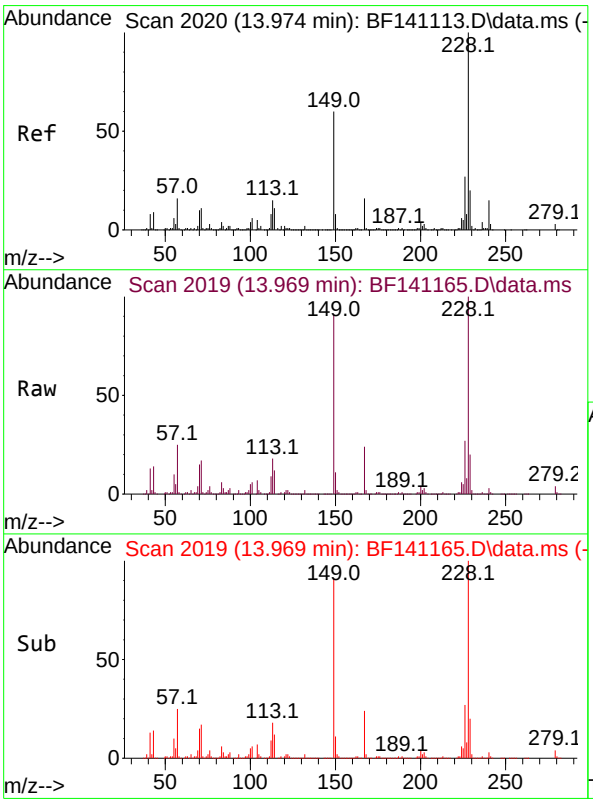
#83
Chrysene
Concen: 43.571 ng
RT: 14.016 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:228 Resp: 960710

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	19.8	15.8	23.8

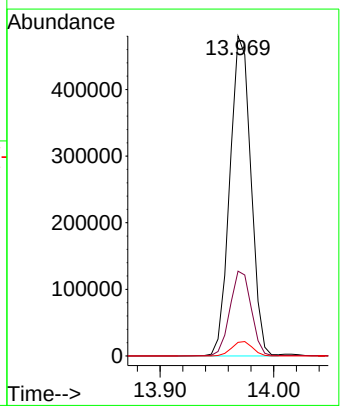


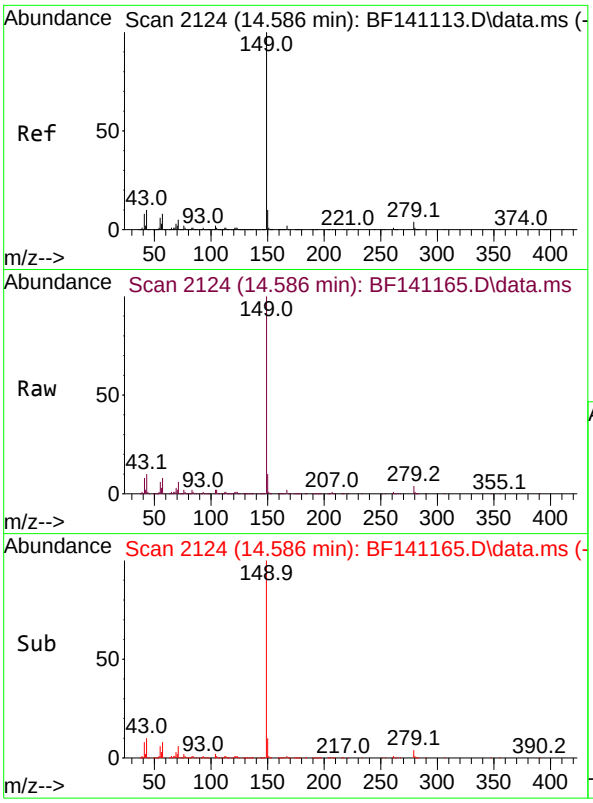


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.753 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 618547

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.2
279	4.2	3.4	5.2



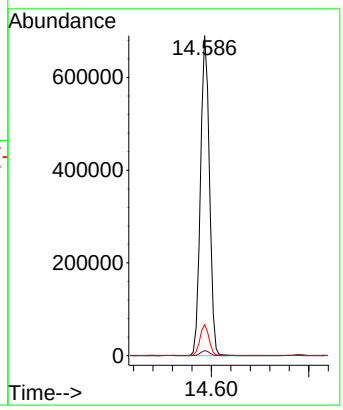


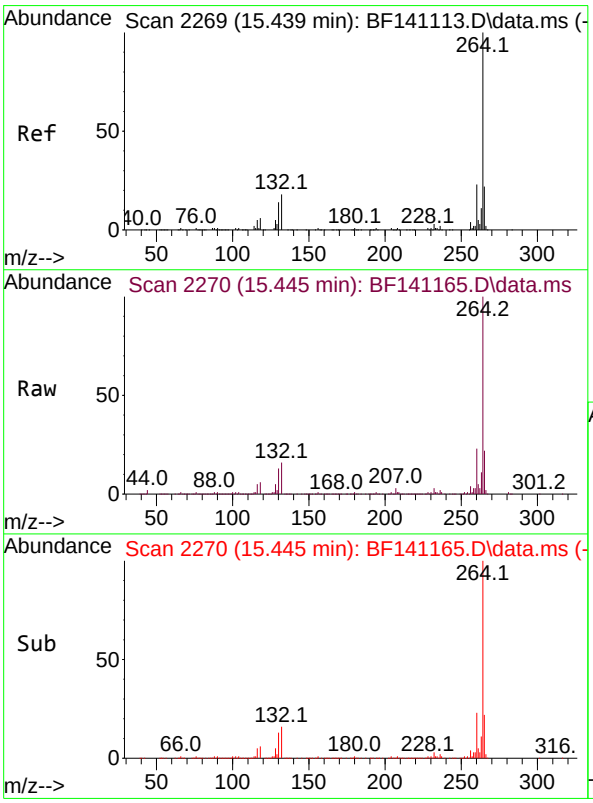
#85
Di-n-octyl phthalate
Concen: 44.131 ng
RT: 14.586 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:149 Resp: 881680

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.7	8.4	12.6

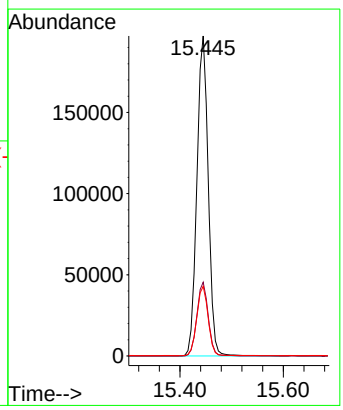


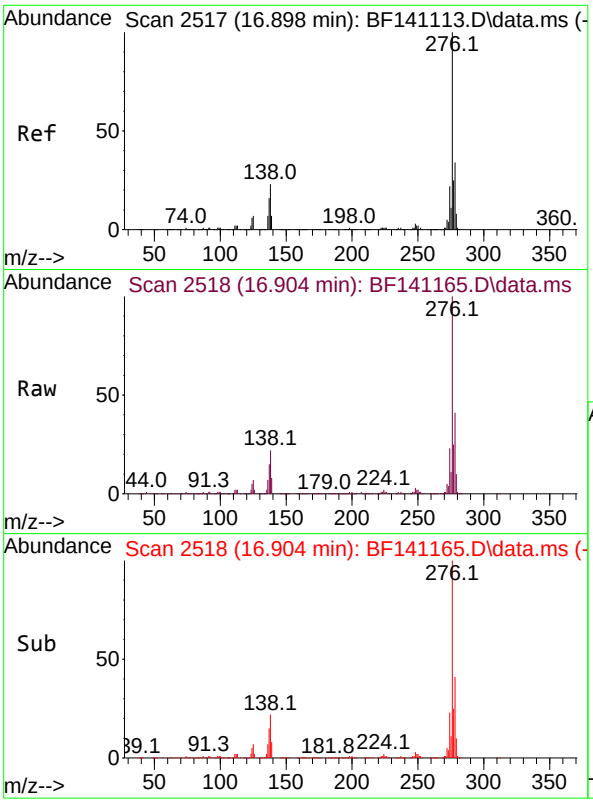


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.445 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:264 Resp: 300143

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.8	17.4	26.0



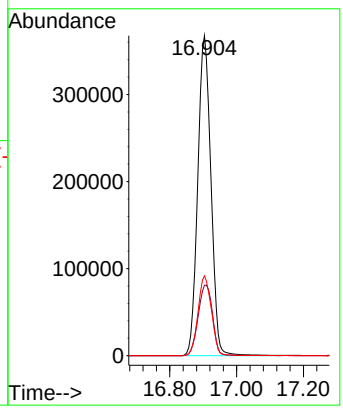


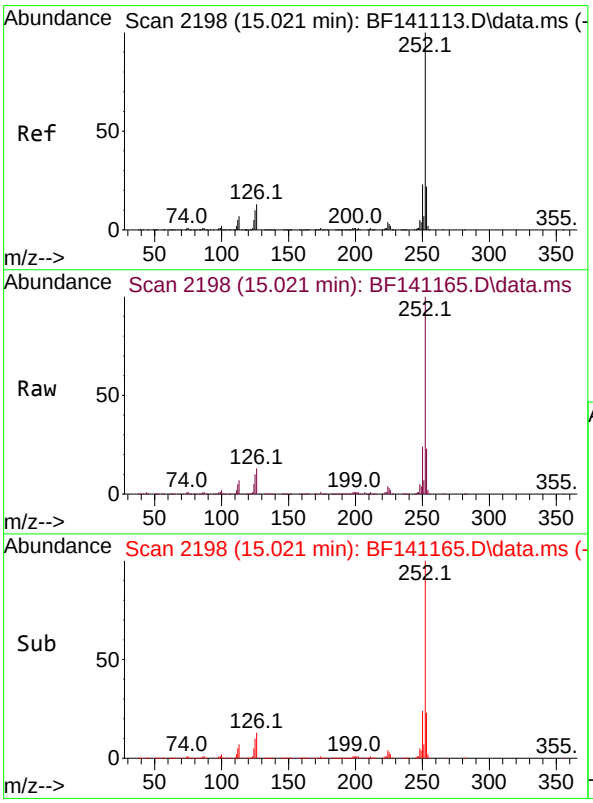
#87
Indeno(1,2,3-cd)pyrene
Concen: 45.691 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:276 Resp: 1004718

Ion	Ratio	Lower	Upper
276	100		
138	24.1	20.7	31.1
277	25.3	20.6	30.8

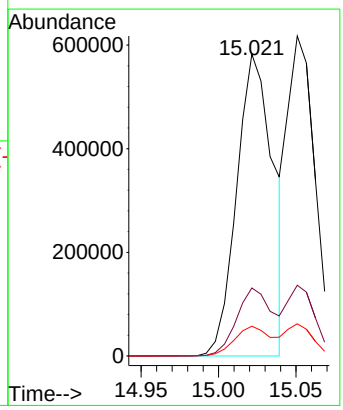


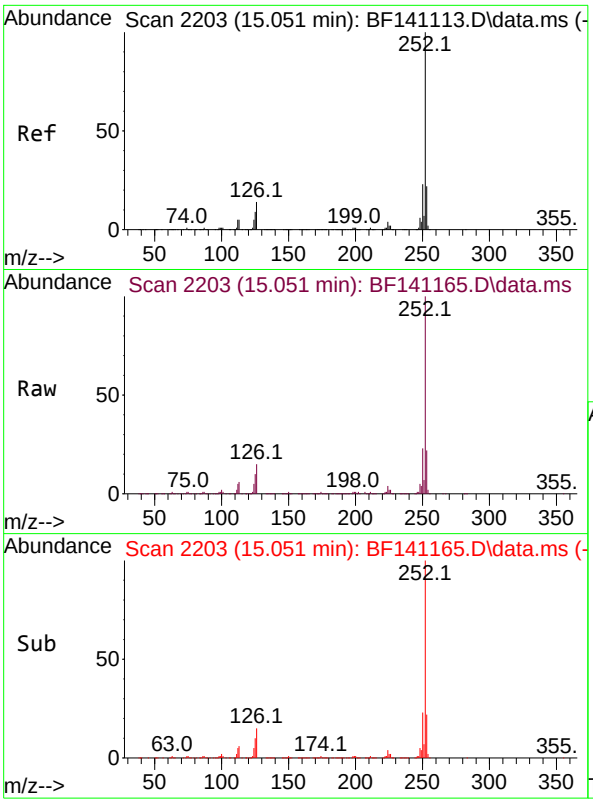


#88
Benzo(b)fluoranthene
Concen: 49.075 ng
RT: 15.021 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:252 Resp: 949809

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	9.9	8.1	12.1



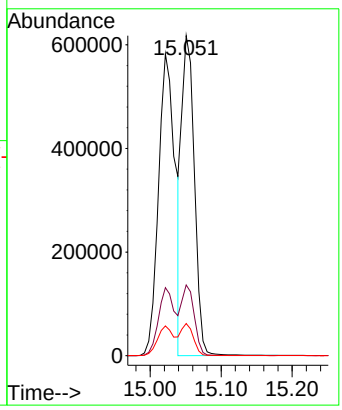


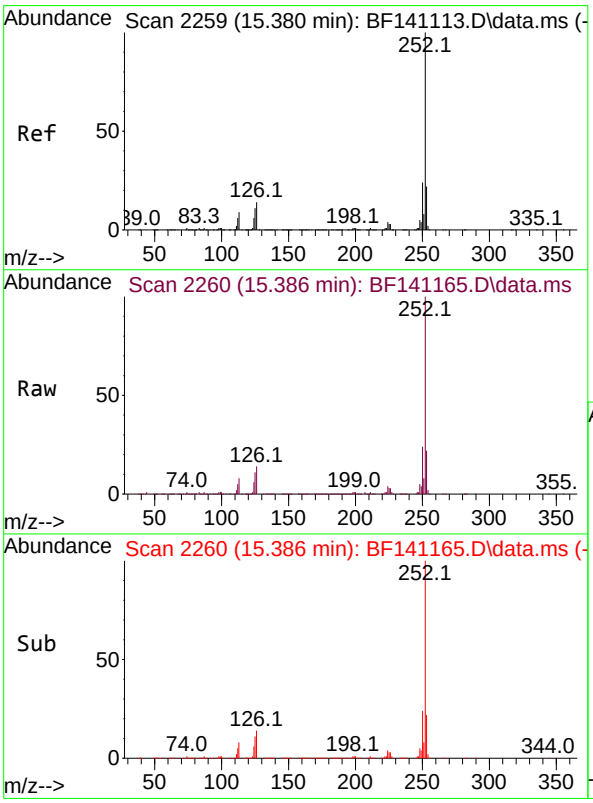
#89
Benzo(k)fluoranthene
Concen: 46.966 ng
RT: 15.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:252 Resp: 768181

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	10.0	7.9	11.9

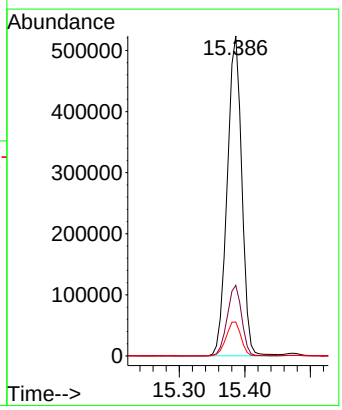


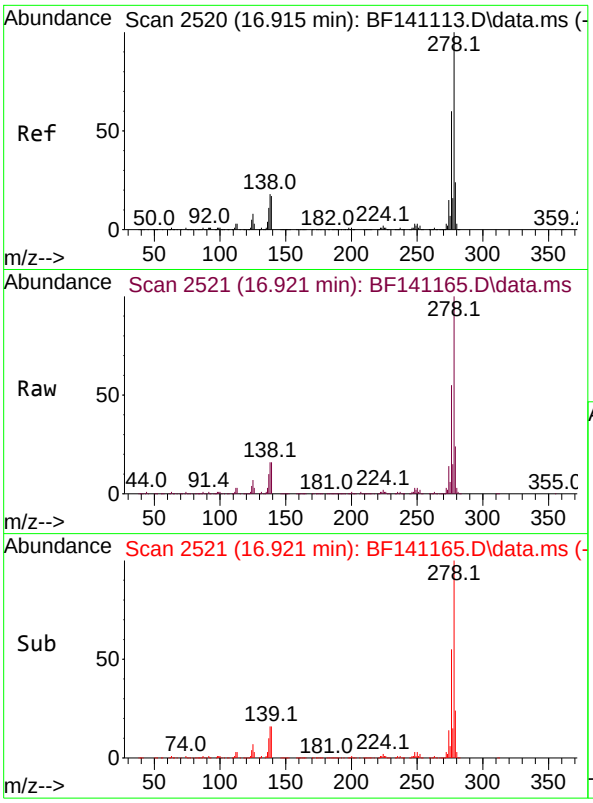


#90
Benzo(a)pyrene
Concen: 50.551 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:252 Resp: 807216

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	10.6	9.1	13.7



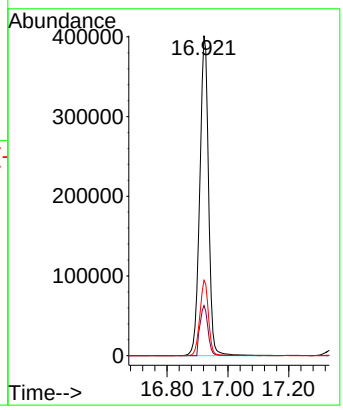


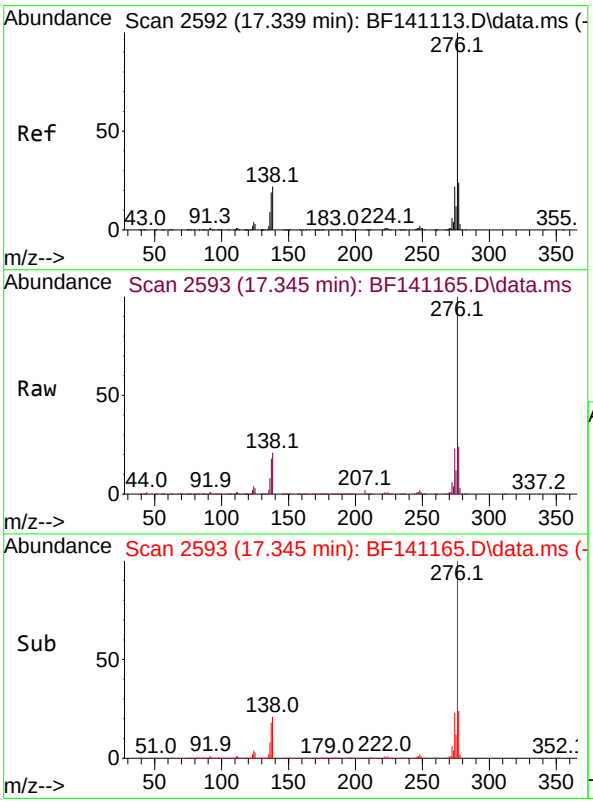
#91
Dibenzo(a,h)anthracene
Concen: 45.345 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:278 Resp: 806473

Ion	Ratio	Lower	Upper
278	100		
139	15.7	13.8	20.6
279	23.5	19.1	28.7

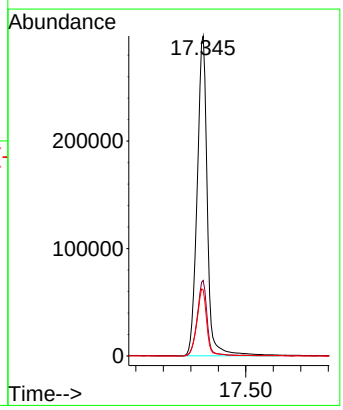




#92
Benzo(g,h,i)perylene
Concen: 41.176 ng
RT: 17.345 min Scan# 2593
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:276 Resp: 761728

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	20.7	17.4	26.2



Raw Data: **BF141172.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166061BS	SDG No.:	Q1069
Lab Sample ID:	PB166061BS	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
BF141172.D	1	01/15/25 09:15	01/15/25 13:38	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	310	J	180	270	330	ug/Kg
108-95-2	Phenol	1700		82.9	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		83.7	130	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.5	130	170	ug/Kg
95-48-7	2-Methylphenol	1700		80.6	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		90.9	130	170	ug/Kg
98-86-2	Acetophenone	1700		86.9	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	1700		79.8	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		40.3	80.0	80.0	ug/Kg
67-72-1	Hexachloroethane	1600		83.0	130	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.8	130	170	ug/Kg
78-59-1	Isophorone	1700		84.6	130	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.5	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		93.2	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.8	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.5	130	170	ug/Kg
91-20-3	Naphthalene	1700		82.6	130	170	ug/Kg
106-47-8	4-Chloroaniline	690		82.6	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.3	130	170	ug/Kg
105-60-2	Caprolactam	1700		86.8	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		77.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	1700		82.5	130	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6300	E	160	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		71.4	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		74.0	130	170	ug/Kg
92-52-4	1,1-Biphenyl	1700		87.4	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		83.3	130	170	ug/Kg
88-74-4	2-Nitroaniline	1700		95.0	130	170	ug/Kg
131-11-3	Dimethylphthalate	1700		81.7	130	170	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166061BS	SDG No.:	Q1069
Lab Sample ID:	PB166061BS	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
BF141172.D	1	01/15/25 09:15	01/15/25 13:38	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		86.5	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		83.2	130	170	ug/Kg
99-09-2	3-Nitroaniline	960		89.2	130	170	ug/Kg
83-32-9	Acenaphthene	1900		81.1	130	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	240	270	330	ug/Kg
100-02-7	4-Nitrophenol	3700	E	120	270	330	ug/Kg
132-64-9	Dibenzofuran	1700		84.4	130	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.2	130	170	ug/Kg
84-66-2	Diethylphthalate	1700		80.1	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		85.6	130	170	ug/Kg
86-73-7	Fluorene	1700		85.5	130	170	ug/Kg
100-01-6	4-Nitroaniline	1700		110	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000		120	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		81.6	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		78.9	130	170	ug/Kg
118-74-1	Hexachlorobenzene	1800		85.0	130	170	ug/Kg
1912-24-9	Atrazine	2200		91.4	130	170	ug/Kg
87-86-5	Pentachlorophenol	3500	E	77.3	270	330	ug/Kg
85-01-8	Phenanthrene	1800		84.0	130	170	ug/Kg
120-12-7	Anthracene	1900		84.4	130	170	ug/Kg
86-74-8	Carbazole	1800		80.3	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		84.3	130	170	ug/Kg
206-44-0	Fluoranthene	1900		81.7	130	170	ug/Kg
129-00-0	Pyrene	1700		83.0	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	1800		96.8	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.6	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		80.7	130	170	ug/Kg
218-01-9	Chrysene	1700		79.5	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		91.0	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		110	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		81.1	130	170	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB166061BS	SDG No.:	Q1069
Lab Sample ID:	PB166061BS	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
BF141172.D	1	01/15/25 09:15	01/15/25 13:38	PB166061

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		82.6	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		93.0	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.1	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.2	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.1	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		86.8	130	170	ug/Kg
123-91-1	1,4-Dioxane	1400		110	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		74.7	130	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	139		35 - 115		92%	SPK: 150
13127-88-3	Phenol-d6	138		34 - 127		92%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.6		37 - 122		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.8		44 - 115		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	156		39 - 132		104%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		54 - 127		97%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	126000	6.822				
1146-65-2	Naphthalene-d8	495000	8.104				
15067-26-2	Acenaphthene-d10	264000	9.863				
1517-22-2	Phenanthrene-d10	453000	11.345				
1719-03-5	Chrysene-d12	303000	13.986				
1520-96-3	Perylene-d12	262000	15.445				

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\BF011525\
Data File : BF141172.D
Acq On : 15 Jan 2025 13:38
Operator : RC/JU
Sample : PB166061BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Quant Time: Jan 15 14:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	125655	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	494978	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	264175	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	452645	20.000	ng		0.00
76) Chrysene-d12	13.986	240	303424	20.000	ng		0.00
86) Perylene-d12	15.445	264	262459	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.440	112	1127705	138.640	ng		0.01
7) Phenol-d6	6.445	99	1424904	138.293	ng		0.00
23) Nitrobenzene-d5	7.381	82	892254	95.554	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	468311	155.580	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1639957	94.797	ng		0.00
79) Terphenyl-d14	12.933	244	1970268	96.512	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.628	88	156795	43.287	ng		100
3) Pyridine	3.363	79	388416	43.728	ng		98
4) n-Nitrosodimethylamine	3.316	42	215018	49.507	ng		99
6) Aniline	6.481	93	353898	38.687	ng		98
8) 2-Chlorophenol	6.604	128	457309	52.403	ng		96
9) Benzaldehyde	6.363	77	55655	9.171	ng		99
10) Phenol	6.463	94	557434	50.540	ng		96
11) bis(2-Chloroethyl)ether	6.557	93	406930	49.507	ng		98
12) 1,3-Dichlorobenzene	6.757	146	472098	48.504	ng		99
13) 1,4-Dichlorobenzene	6.839	146	481103	49.051	ng		99
14) 1,2-Dichlorobenzene	6.987	146	459155	50.186	ng		99
15) Benzyl Alcohol	6.963	79	383977	51.604	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.092	45	550143	47.963	ng		97
17) 2-Methylphenol	7.069	107	364075	51.675	ng		99
18) Hexachloroethane	7.334	117	172983	48.770	ng		97
19) n-Nitroso-di-n-propyla...	7.234	70	298704	49.215	ng		97
20) 3+4-Methylphenols	7.222	107	456394	51.345	ng		91
22) Acetophenone	7.228	105	594750	50.545	ng	#	95
24) Nitrobenzene	7.404	77	470238	48.319	ng		99
25) Isophorone	7.639	82	811569	50.857	ng		99
26) 2-Nitrophenol	7.716	139	236745	53.479	ng		97
27) 2,4-Dimethylphenol	7.751	122	361074	60.469	ng		98
28) bis(2-Chloroethoxy)met...	7.851	93	492644	49.192	ng		99
29) 2,4-Dichlorophenol	7.957	162	371144	52.334	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	389479	48.047	ng		99
31) Naphthalene	8.128	128	1300768	49.832	ng		99
32) Benzoic acid	7.869	122	286894	50.086	ng		99
33) 4-Chloroaniline	8.169	127	186433	20.652	ng		99
34) Hexachlorobutadiene	8.239	225	235776	48.271	ng		99
35) Caprolactam	8.539	113	121929m	52.514	ng		
36) 4-Chloro-3-methylphenol	8.657	107	403179	51.983	ng		99
37) 2-Methylnaphthalene	8.816	142	845856	50.852	ng		100
38) 1-Methylnaphthalene	8.916	142	784309	47.844	ng		99
40) 1,2,4,5-Tetrachloroben...	8.980	216	385980	50.905	ng		99
41) Hexachlorocyclopentadiene	8.969	237	465991	187.848	ng		99
43) 2,4,6-Trichlorophenol	9.092	196	272398	53.267	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141172.D
Acq On : 15 Jan 2025 13:38
Operator : RC/JU
Sample : PB166061BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Quant Time: Jan 15 14:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

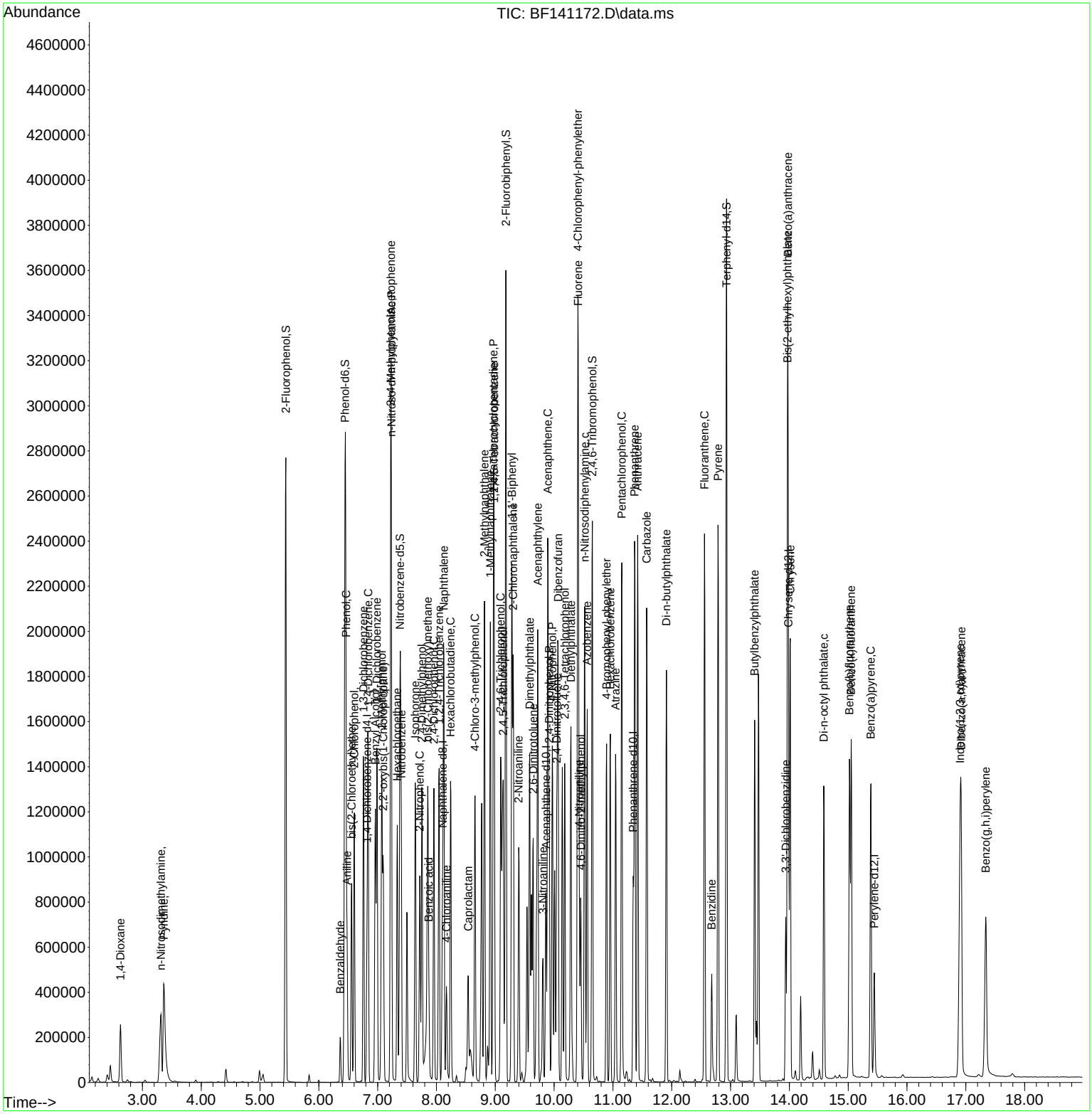
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	270073	50.006	ng	99
46) 1,1'-Biphenyl	9.280	154	1016465	49.545	ng	99
47) 2-Chloronaphthalene	9.304	162	777411	48.651	ng	100
48) 2-Nitroaniline	9.398	65	247443	52.239	ng	99
49) Acenaphthylene	9.722	152	1221518	53.506	ng	99
50) Dimethylphthalate	9.586	163	893858	50.400	ng	99
51) 2,6-Dinitrotoluene	9.645	165	207427	50.295	ng	99
52) Acenaphthene	9.892	154	918132	57.563	ng	100
53) 3-Nitroaniline	9.810	138	120126	28.662	ng	97
54) 2,4-Dinitrophenol	9.916	184	239218	122.030	ng	97
55) Dibenzofuran	10.069	168	1106789	51.016	ng	99
56) 4-Nitrophenol	9.969	139	364246	110.972	ng	94
57) 2,4-Dinitrotoluene	10.045	165	288706	54.319	ng	99
58) Fluorene	10.410	166	853769	50.654	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	242021	53.911	ng	99
60) Diethylphthalate	10.286	149	860679	49.710	ng	99
61) 4-Chlorophenyl-phenyle...	10.404	204	412896	50.262	ng	99
62) 4-Nitroaniline	10.427	138	212430	51.787	ng	98
63) Azobenzene	10.563	77	854110	49.994	ng	99
65) 4,6-Dinitro-2-methylph...	10.457	198	159388	60.767	ng	94
66) n-Nitrosodiphenylamine	10.522	169	760298	52.076	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	265942	51.032	ng	98
68) Hexachlorobenzene	10.957	284	308124	53.114	ng	98
69) Atrazine	11.045	200	256384	65.219	ng	99
70) Pentachlorophenol	11.151	266	392836	105.741	ng	99
71) Phenanthrene	11.369	178	1319932	54.316	ng	100
72) Anthracene	11.422	178	1332321	56.385	ng	99
73) Carbazole	11.574	167	1198881	55.334	ng	99
74) Di-n-butylphthalate	11.910	149	1286652	51.891	ng	100
75) Fluoranthene	12.557	202	1388188	57.245	ng	99
77) Benzidine	12.680	184	268054	47.639	ng	100
78) Pyrene	12.786	202	1436638	49.572	ng	100
80) Butylbenzylphthalate	13.410	149	508795	52.657	ng	98
81) Benzo(a)anthracene	13.974	228	1046000	50.654	ng	100
82) 3,3'-Dichlorobenzidine	13.939	252	214412	32.609	ng	100
83) Chrysene	14.015	228	998963	51.701	ng	100
84) Bis(2-ethylhexyl)phtha...	13.968	149	604164	52.112	ng	99
85) Di-n-octyl phthalate	14.586	149	881079	50.327	ng	97
87) Indeno(1,2,3-cd)pyrene	16.904	276	975311	50.722	ng	98
88) Benzo(b)fluoranthene	15.021	252	939329	55.502	ng	100
89) Benzo(k)fluoranthene	15.051	252	767255	53.645	ng	99
90) Benzo(a)pyrene	15.386	252	809001	57.937	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	792781	50.976	ng	98
92) Benzo(g,h,i)perylene	17.339	276	723237	44.709	ng	99

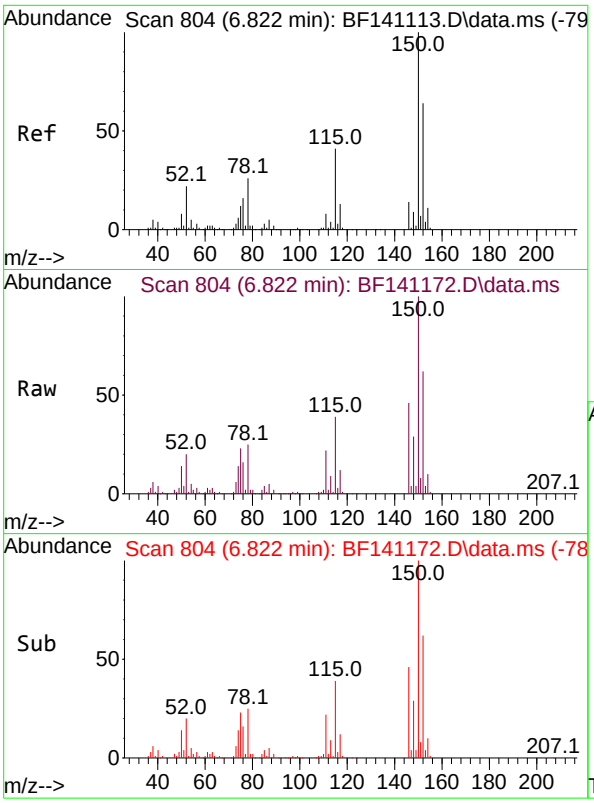
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141172.D
Acq On : 15 Jan 2025 13:38
Operator : RC/JU
Sample : PB166061BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Quant Time: Jan 15 14:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



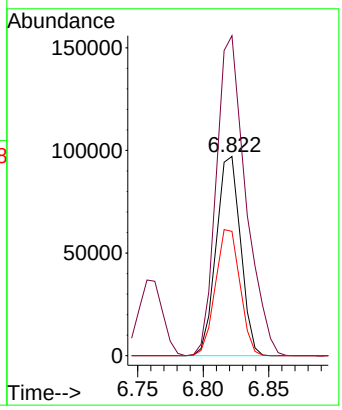


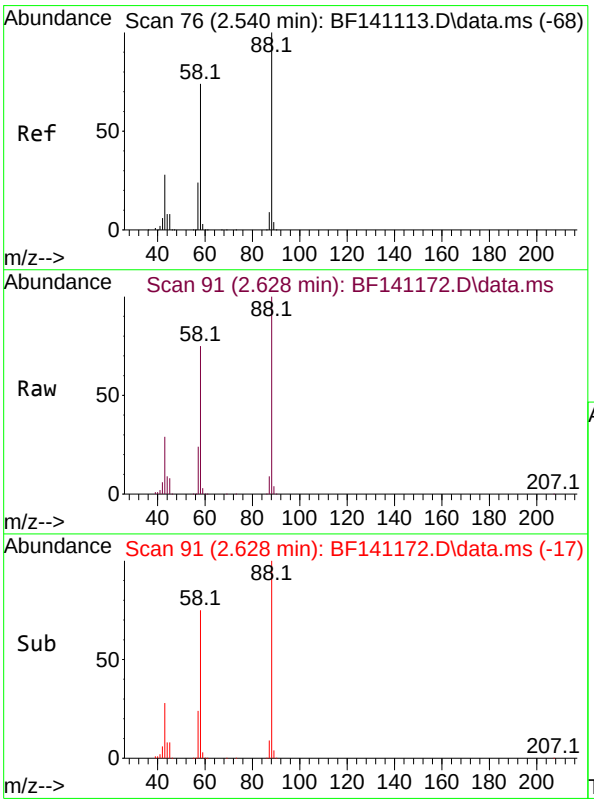
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:152 Resp: 125655

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.8	188.8
115	62.5	51.4	77.2

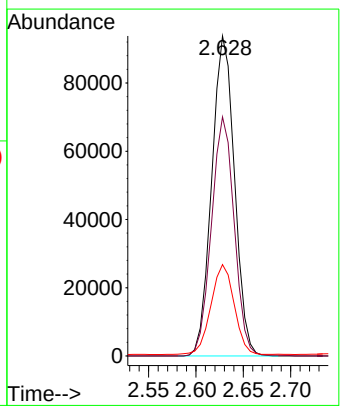


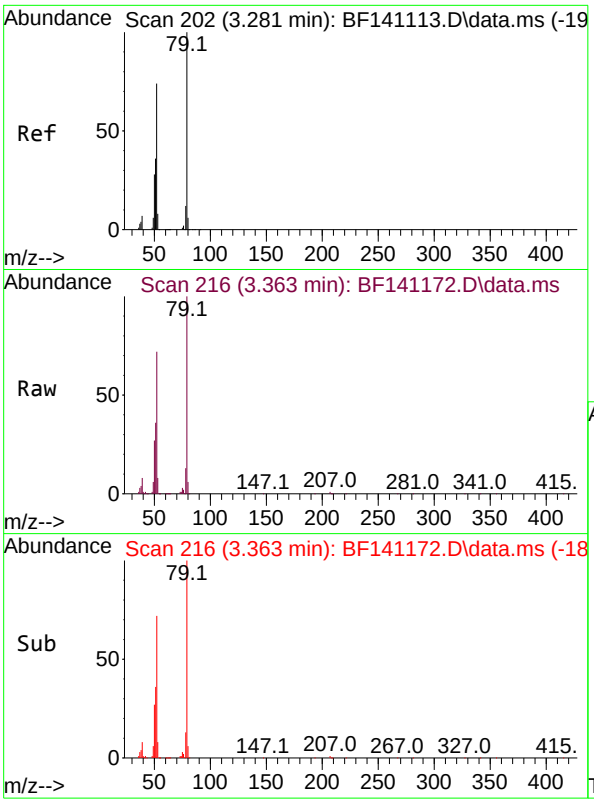


#2
1,4-Dioxane
Concen: 43.287 ng
RT: 2.628 min Scan# 91
Delta R.T. 0.088 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 88 Resp: 156795

Ion	Ratio	Lower	Upper
88	100		
58	74.7	60.1	90.1
43	28.7	23.1	34.7



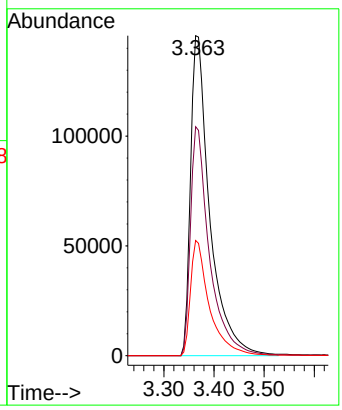


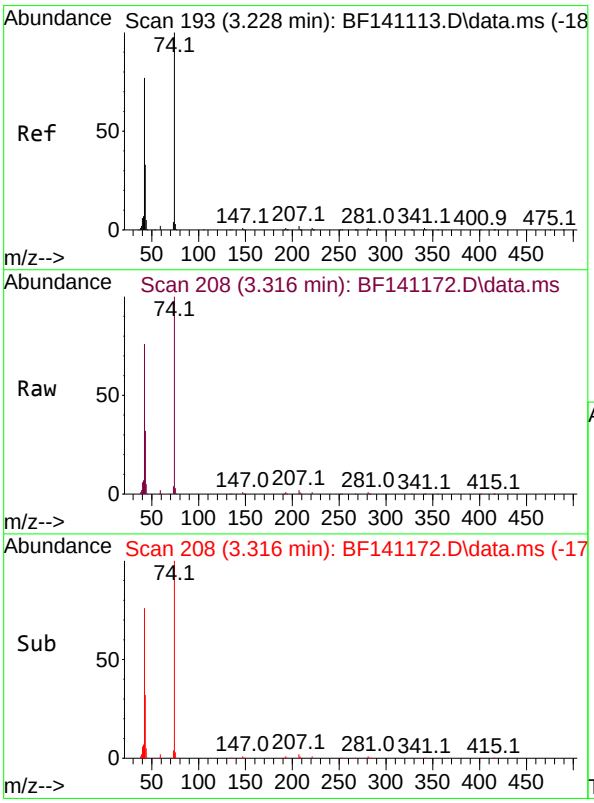
#3
Pyridine
Concen: 43.728 ng
RT: 3.363 min Scan# 21
Delta R.T. 0.082 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 79 Resp: 388416

Ion	Ratio	Lower	Upper
79	100		
52	71.5	58.9	88.3
51	36.0	29.1	43.7

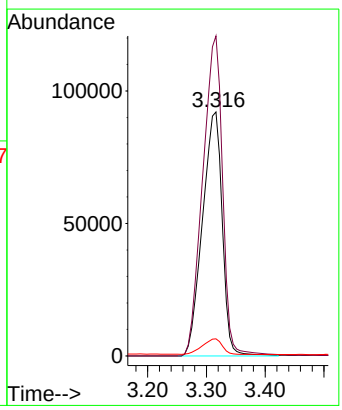


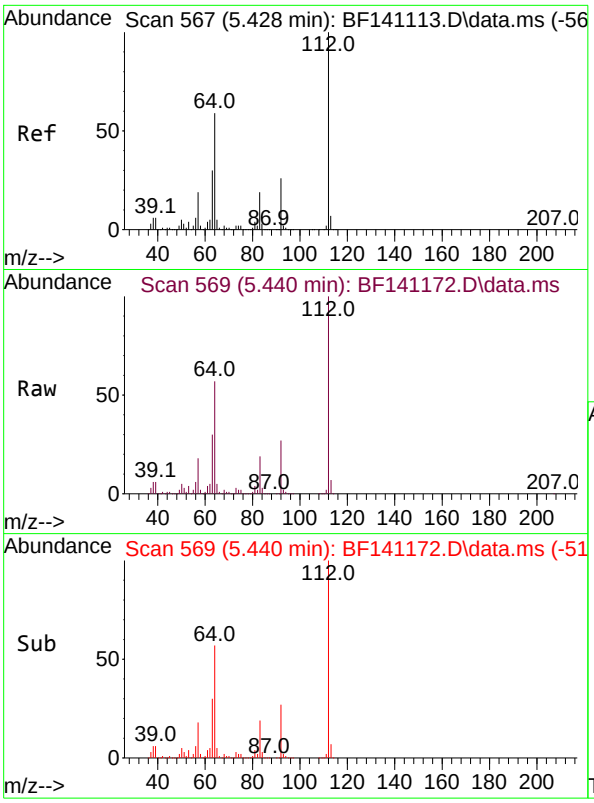


#4
n-Nitrosodimethylamine
Concen: 49.507 ng
RT: 3.316 min Scan# 208
Delta R.T. 0.088 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 42 Resp: 215018

Ion	Ratio	Lower	Upper
42	100		
74	131.1	103.8	155.6
44	7.0	5.3	7.9



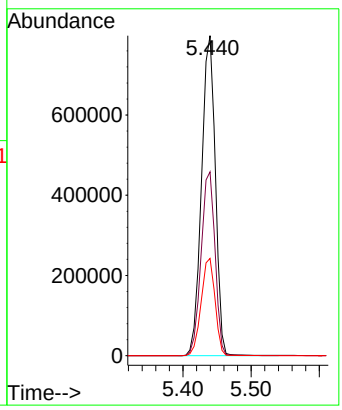


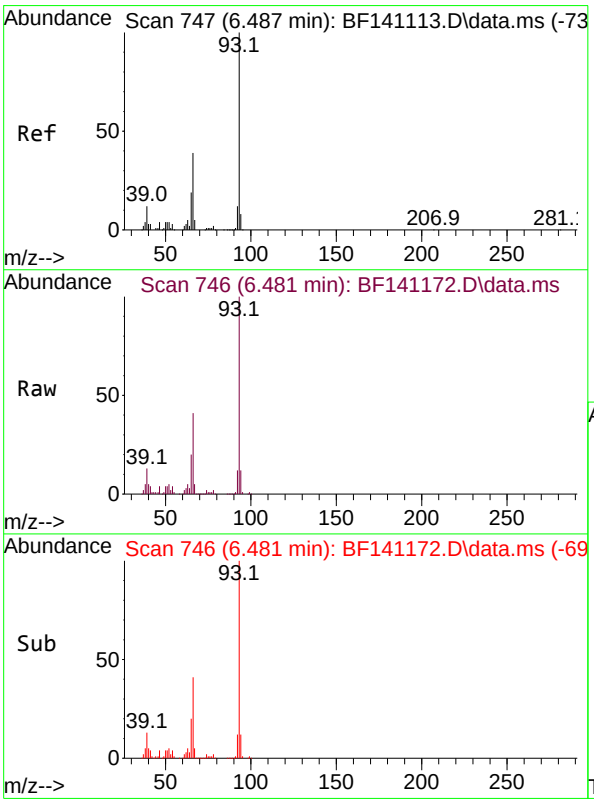
#5
2-Fluorophenol
Concen: 138.640 ng
RT: 5.440 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:112 Resp: 1127705

Ion	Ratio	Lower	Upper
112	100		
64	57.5	47.3	70.9
63	30.4	24.2	36.2

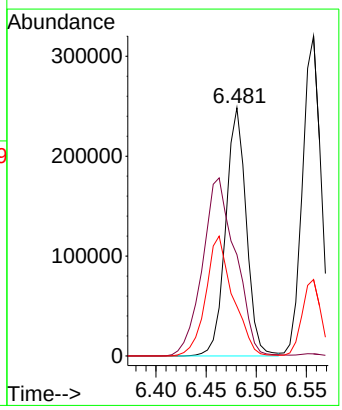


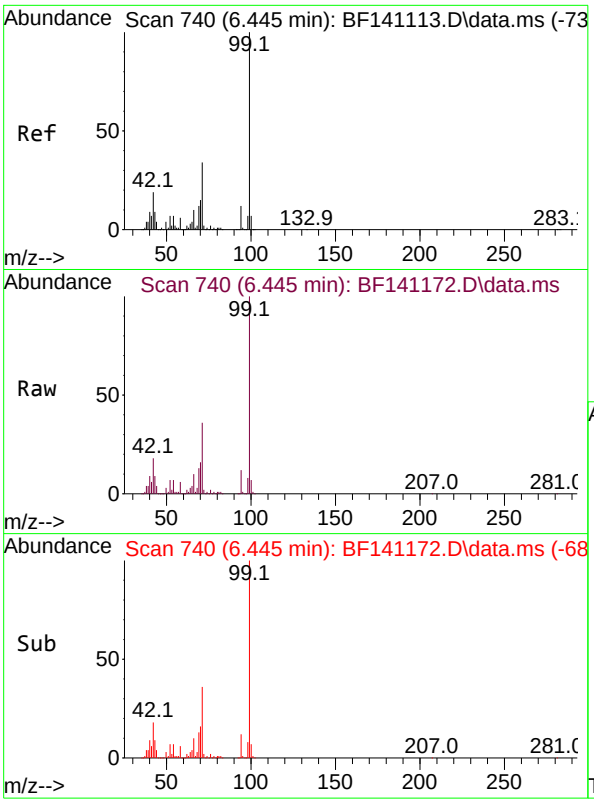


#6
Aniline
Concen: 38.687 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 93 Resp: 353898

Ion	Ratio	Lower	Upper
93	100		
66	40.8	31.5	47.3
65	20.0	15.3	22.9



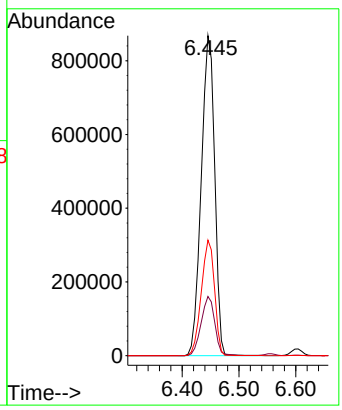


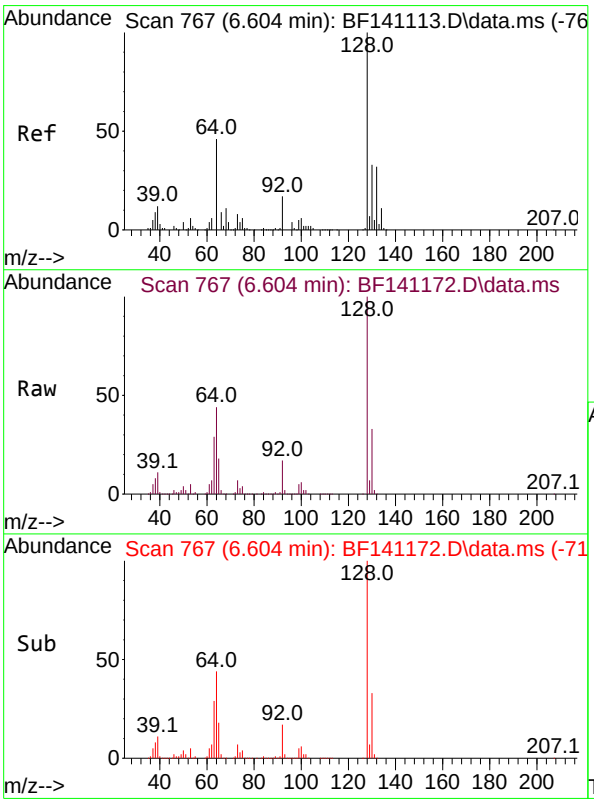
#7
Phenol-d6
Concen: 138.293 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 99 Resp: 1424904

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.0	22.4
71	36.1	27.6	41.4

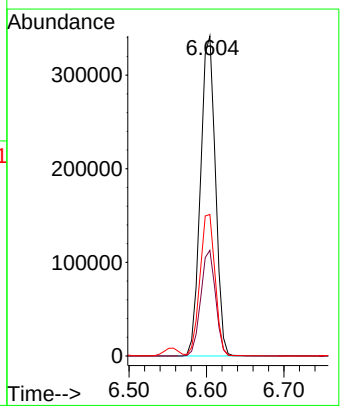


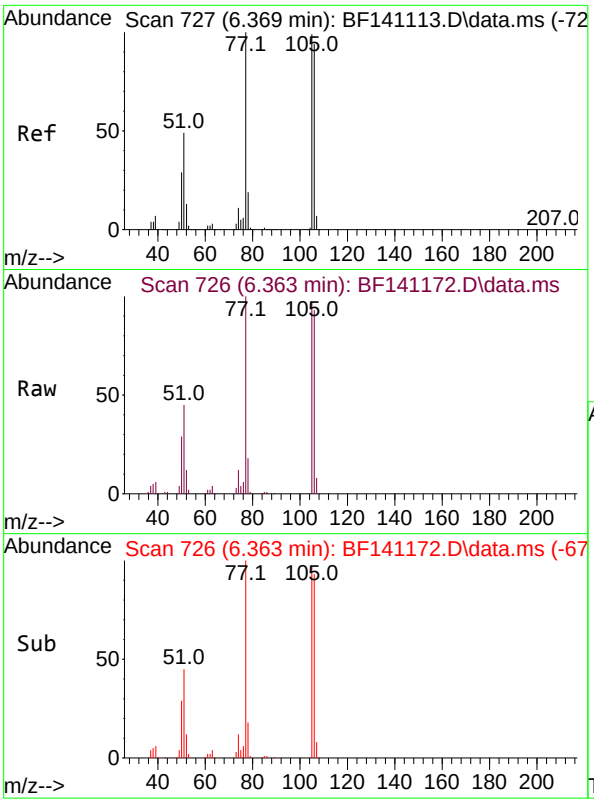


#8
2-Chlorophenol
Concen: 52.403 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:128 Resp: 457309

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.5	52.5
64	44.2	28.3	68.3



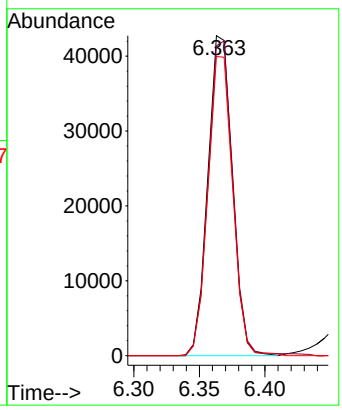


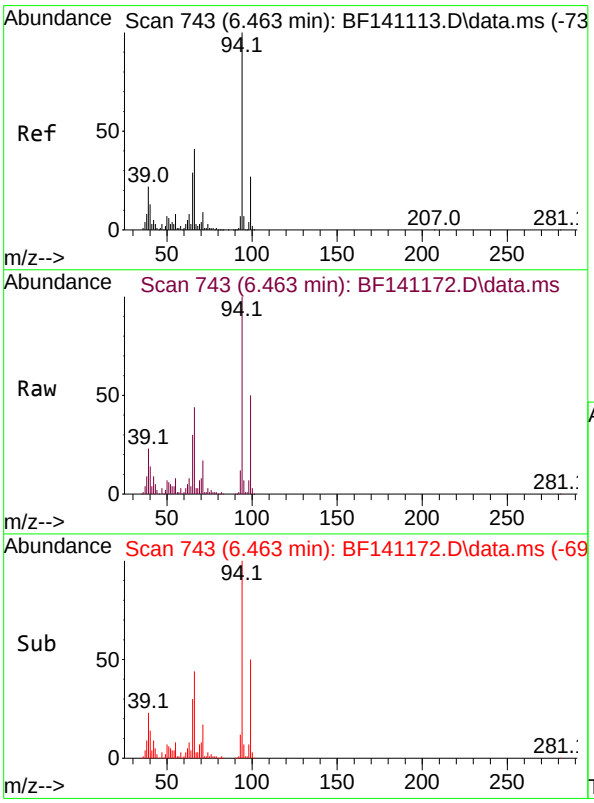
#9
Benzaldehyde
Concen: 9.171 ng
RT: 6.363 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 77 Resp: 55655

Ion	Ratio	Lower	Upper
77	100		
105	96.9	78.9	118.9
106	93.5	73.6	113.6

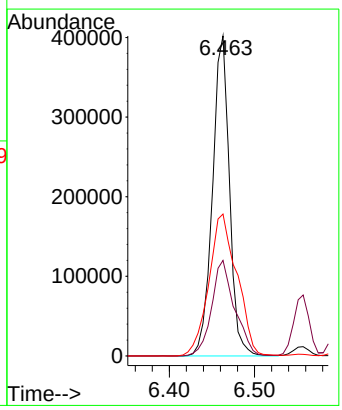


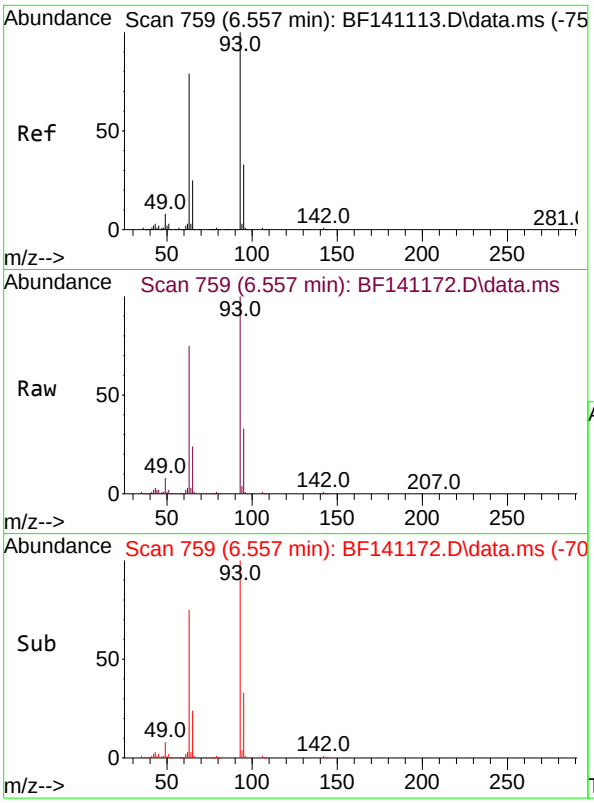


#10
Phenol
Concen: 50.540 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 94 Resp: 557434

Ion	Ratio	Lower	Upper
94	100		
65	29.9	8.9	48.9
66	44.3	21.2	61.2



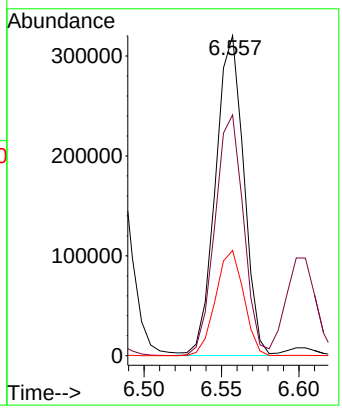


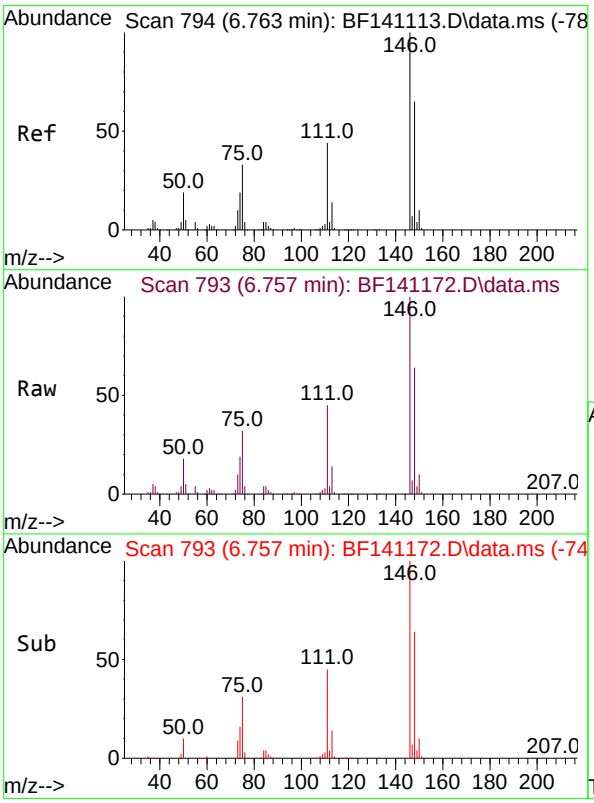
#11
bis(2-Chloroethyl)ether
Concen: 49.507 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 93 Resp: 406930

Ion	Ratio	Lower	Upper
93	100		
63	75.2	58.0	98.0
95	32.9	12.5	52.5

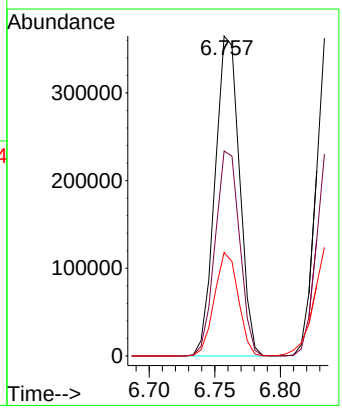


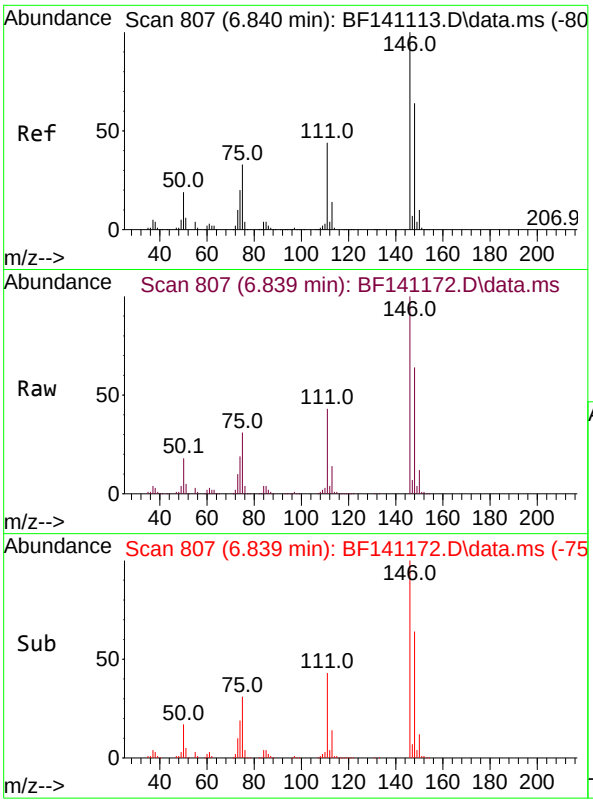


#12
1,3-Dichlorobenzene
Concen: 48.504 ng
RT: 6.757 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:146 Resp: 472098

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.6	77.4
75	32.4	26.2	39.2



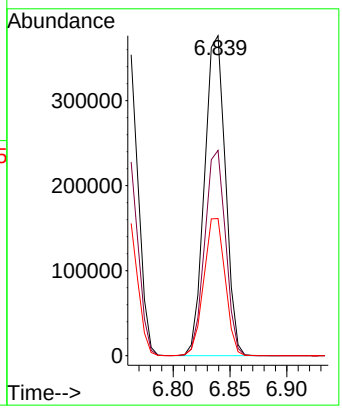


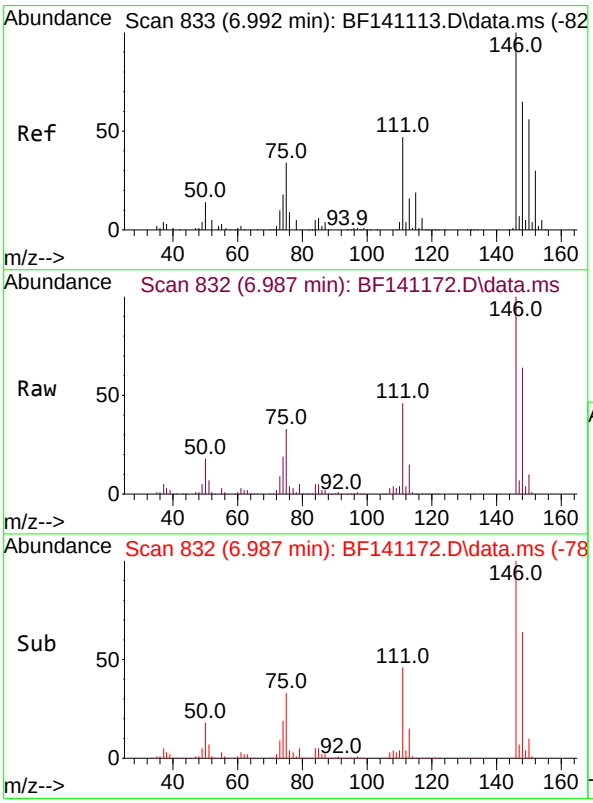
#13
1,4-Dichlorobenzene
Concen: 49.051 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:146 Resp: 481103

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	42.8	34.9	52.3

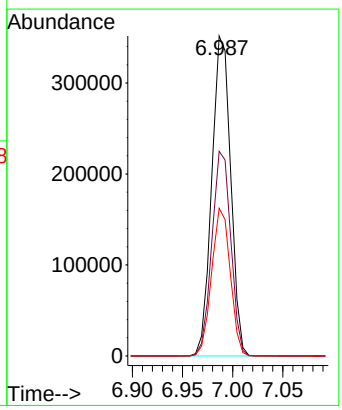


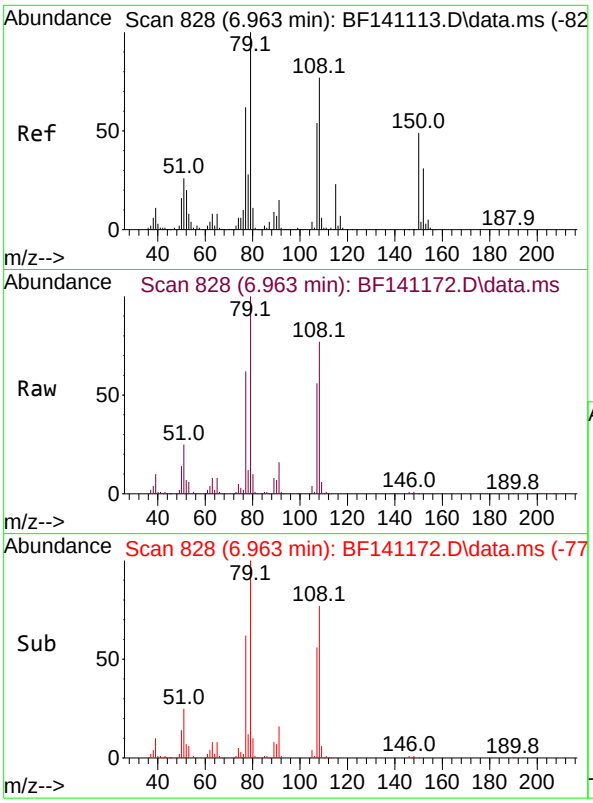


#14
1,2-Dichlorobenzene
Concen: 50.186 ng
RT: 6.987 min Scan# 832
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:146 Resp: 459155

Ion	Ratio	Lower	Upper
146	100		
148	64.0	52.2	78.4
111	46.2	37.5	56.3



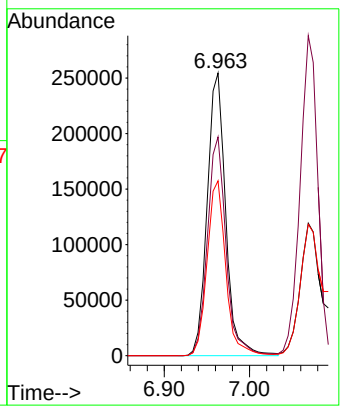


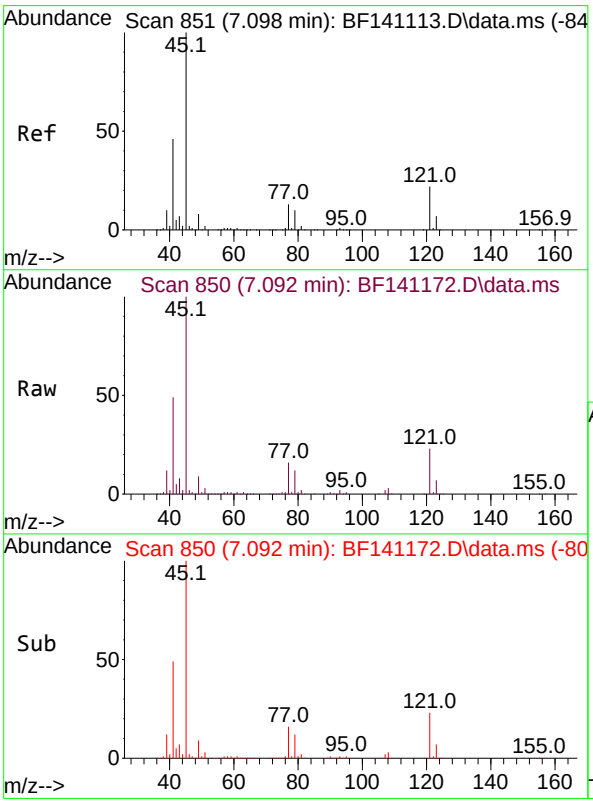
#15
Benzyl Alcohol
Concen: 51.604 ng
RT: 6.963 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 79 Resp: 383977

Ion	Ratio	Lower	Upper
79	100		
108	77.4	61.4	92.0
77	61.9	49.8	74.6

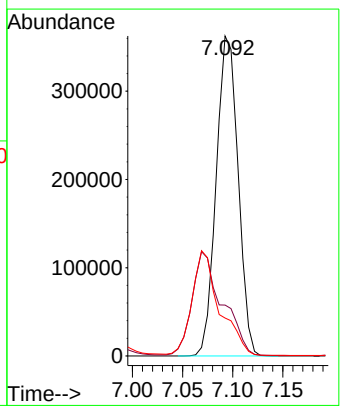


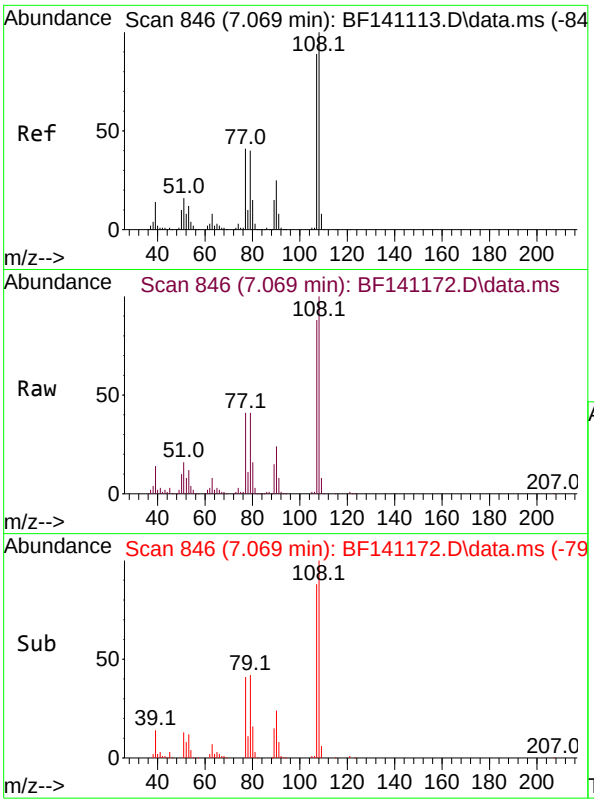


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.963 ng
RT: 7.092 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 45 Resp: 550143

Ion	Ratio	Lower	Upper
45	100		
77	15.9	0.0	34.1
79	11.9	0.0	31.0



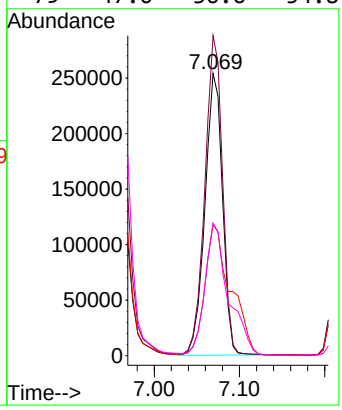


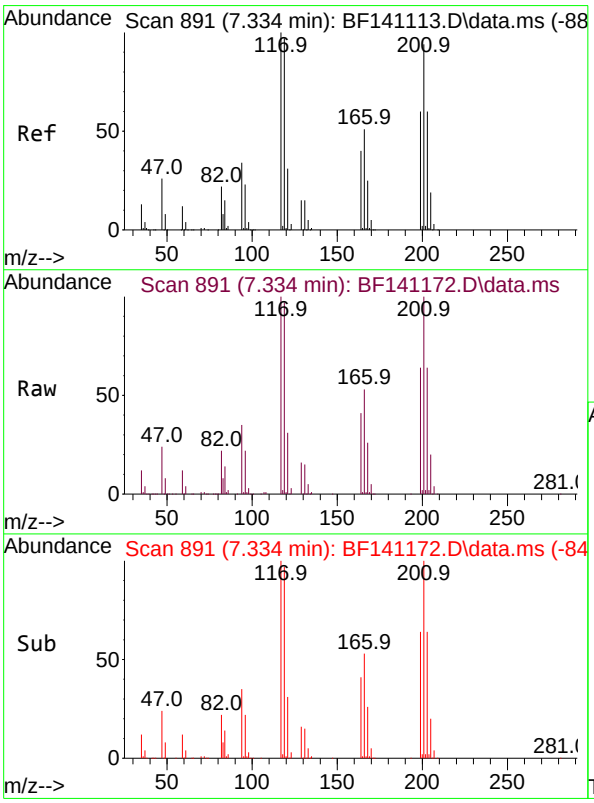
#17
2-Methylphenol
Concen: 51.675 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:107 Resp: 364075

Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.1	135.1
77	46.5	36.6	55.0
79	47.0	36.6	54.8

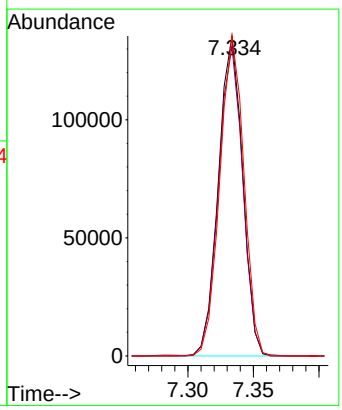


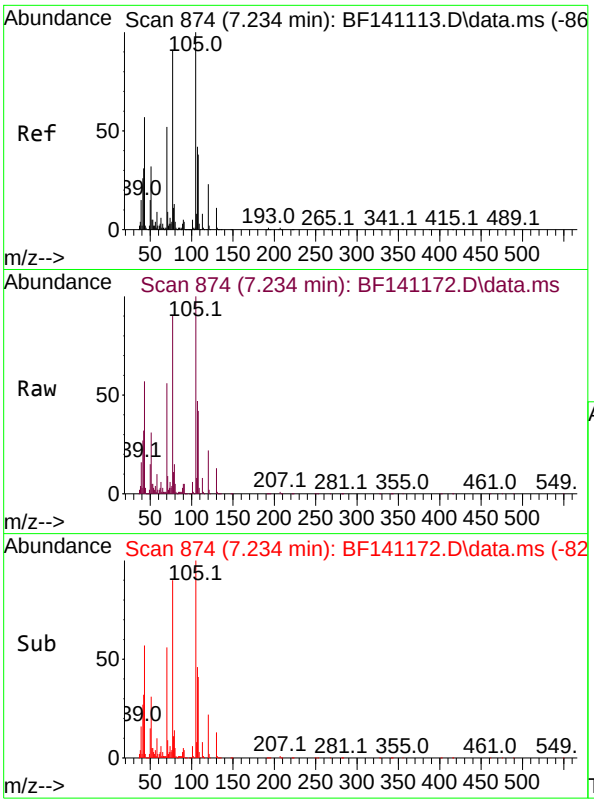


#18
Hexachloroethane
Concen: 48.770 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:117 Resp: 172983

Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.6	116.4
201	100.0	75.1	112.7



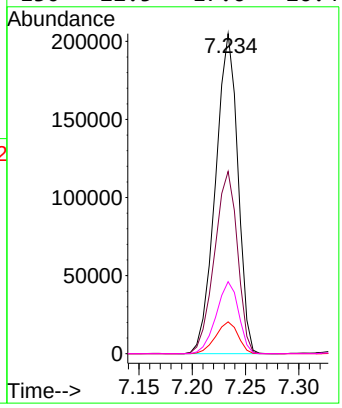


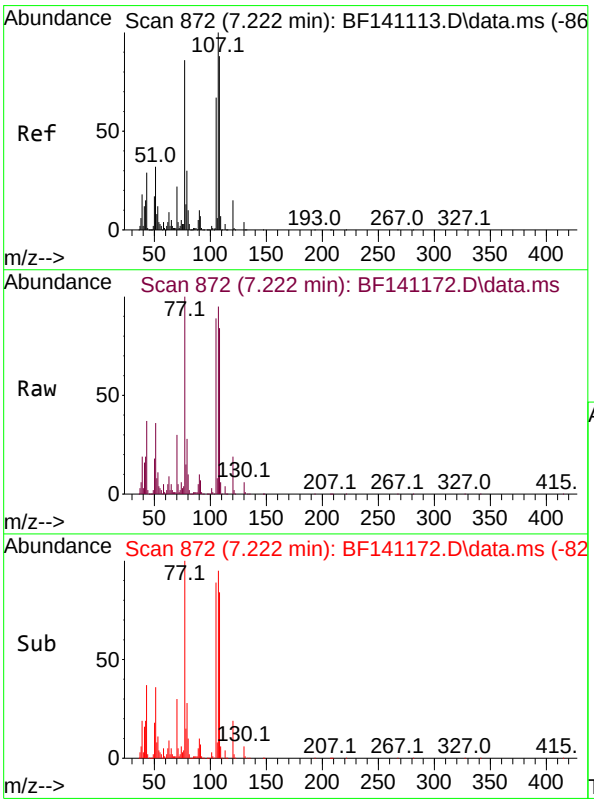
#19
n-Nitroso-di-n-propylamine
Concen: 49.215 ng
RT: 7.234 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 70 Resp: 298704

Ion	Ratio	Lower	Upper
70	100		
42	57.0	47.8	71.6
101	10.0	7.9	11.9
130	22.5	17.6	26.4

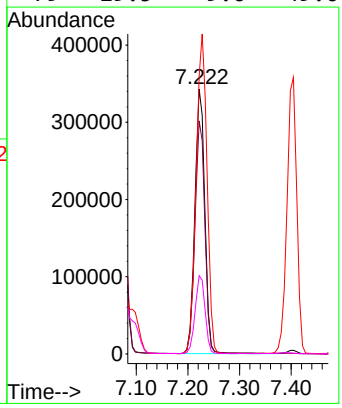


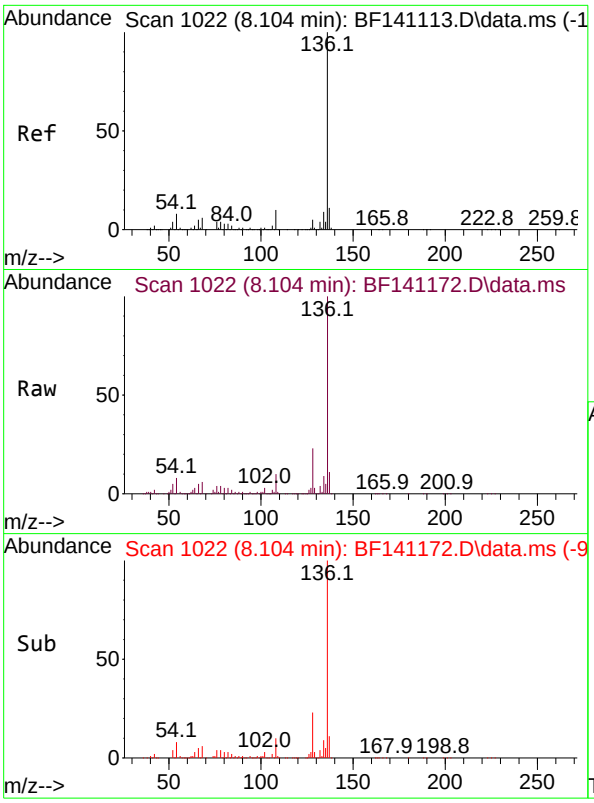


#20
3+4-Methylphenols
Concen: 51.345 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:107 Resp: 456394

Ion	Ratio	Lower	Upper
107	100		
108	88.0	68.3	108.3
77	104.9	66.4	106.4
79	29.5	9.6	49.6



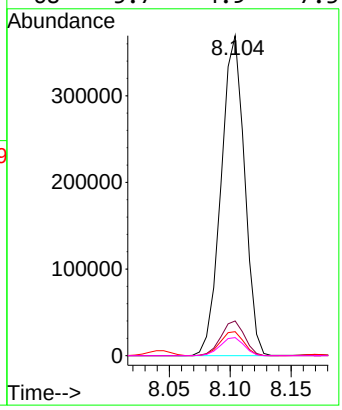


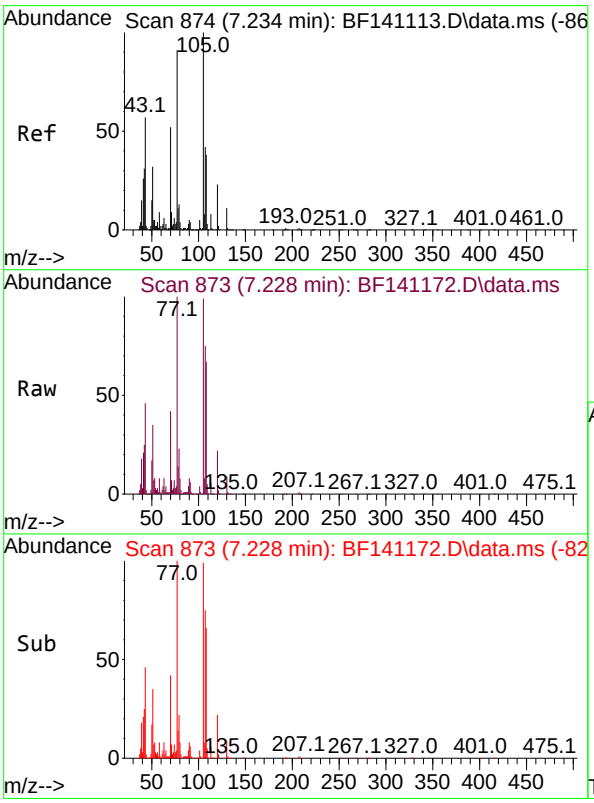
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:136 Resp: 494978

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.5	6.3	9.5
68	5.7	4.9	7.3

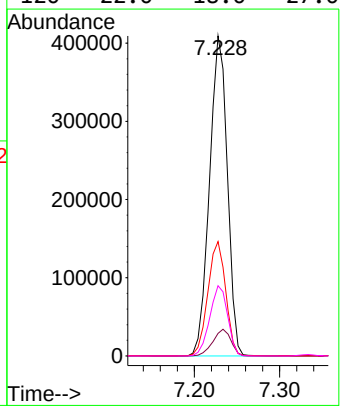


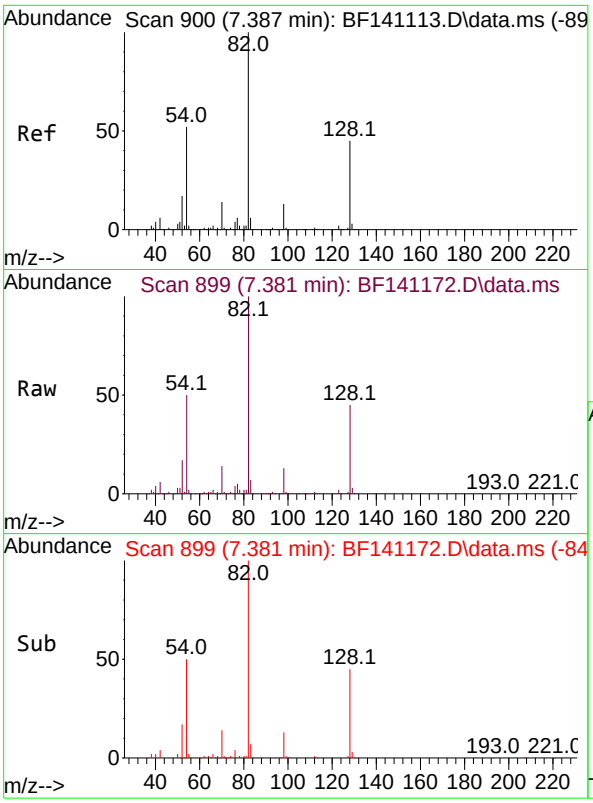


#22
Acetophenone
Concen: 50.545 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:105 Resp: 594750

Ion	Ratio	Lower	Upper
105	100		
71	7.0	7.1	10.7#
51	35.7	25.4	38.2
120	22.0	18.0	27.0



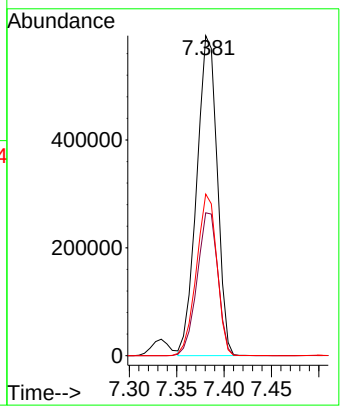


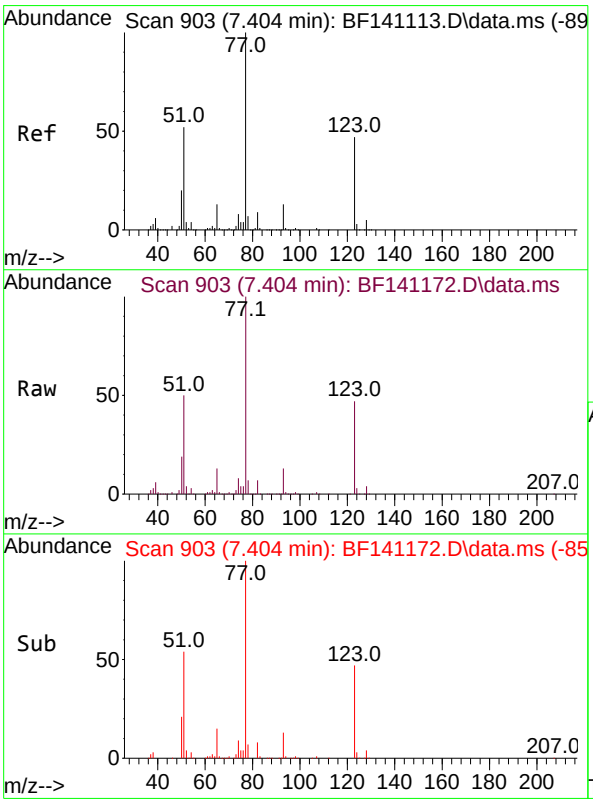
#23
Nitrobenzene-d5
Concen: 95.554 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 82 Resp: 892254

Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.1	54.1
54	50.5	41.0	61.4

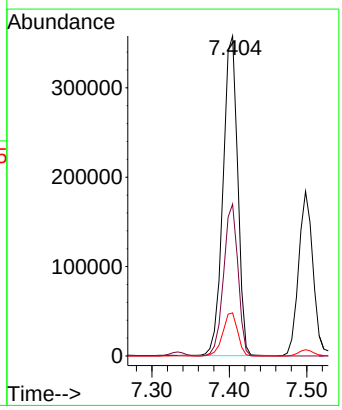


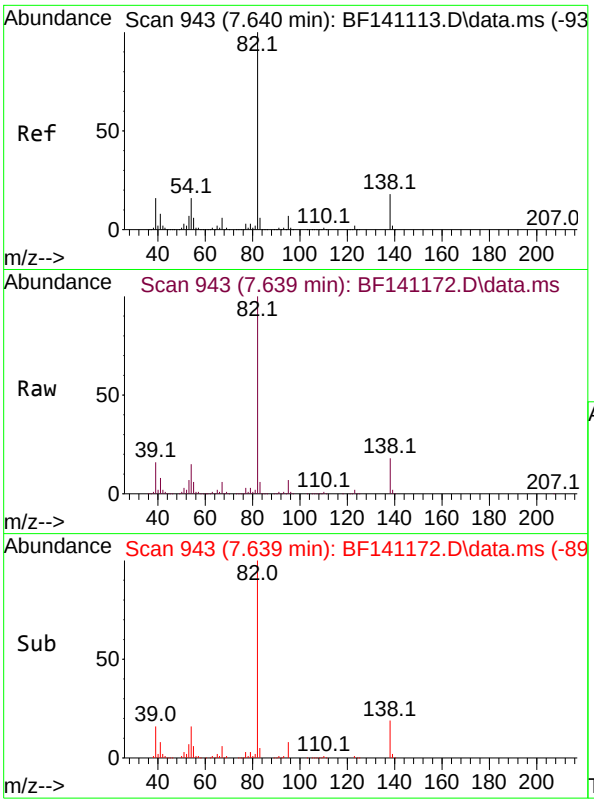


#24
Nitrobenzene
Concen: 48.319 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 77 Resp: 470238

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.7	56.5
65	13.5	10.6	16.0



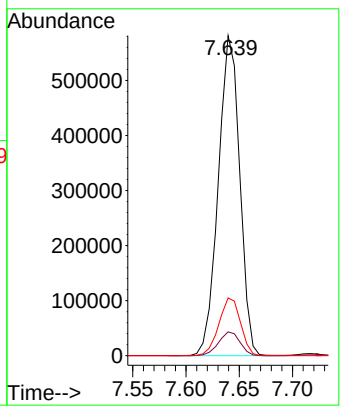


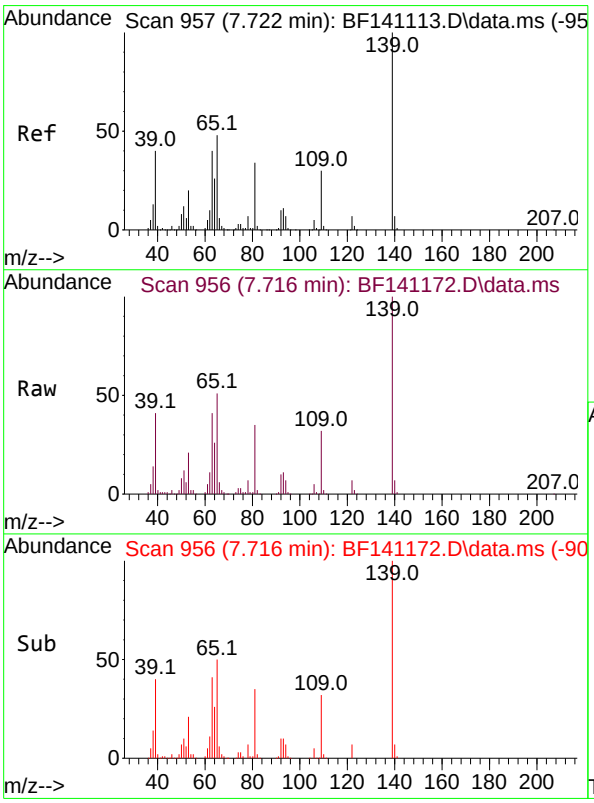
#25
Isophorone
Concen: 50.857 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 82 Resp: 811569

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	18.0	14.2	21.2

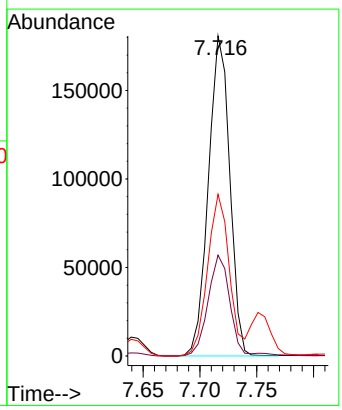


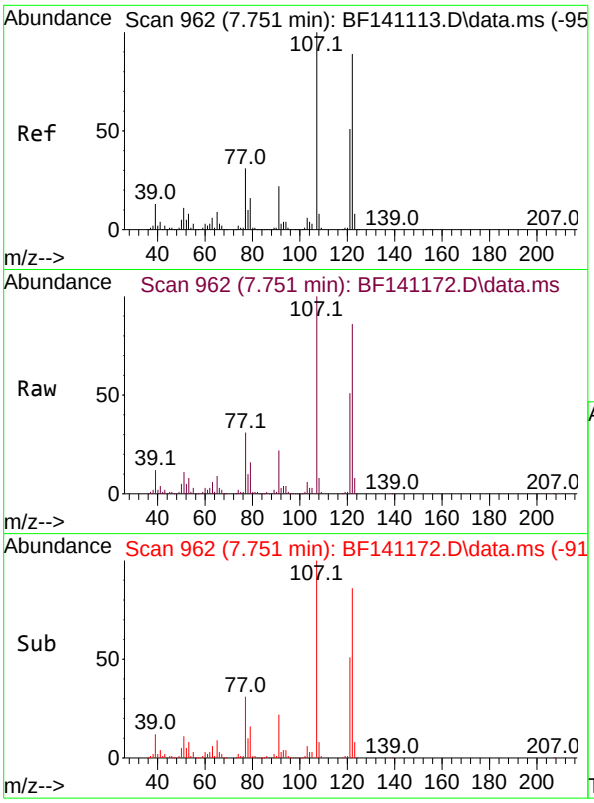


#26
2-Nitrophenol
Concen: 53.479 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:139 Resp: 236745

Ion	Ratio	Lower	Upper
139	100		
109	31.5	23.8	35.6
65	50.5	38.5	57.7



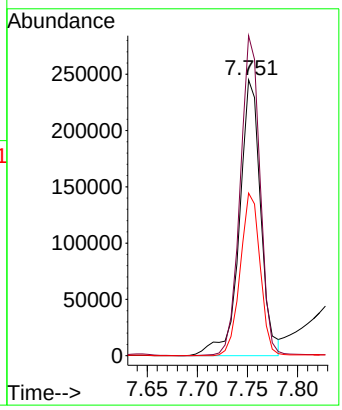


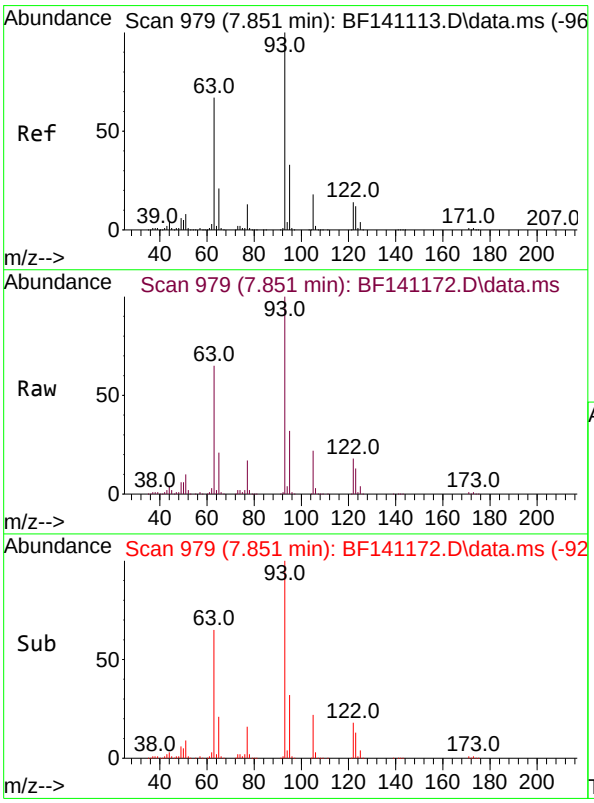
#27
2,4-Dimethylphenol
Concen: 60.469 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:122 Resp: 361074

Ion	Ratio	Lower	Upper
122	100		
107	116.0	90.3	135.5
121	59.0	46.5	69.7

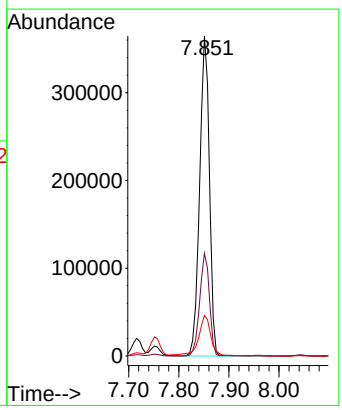


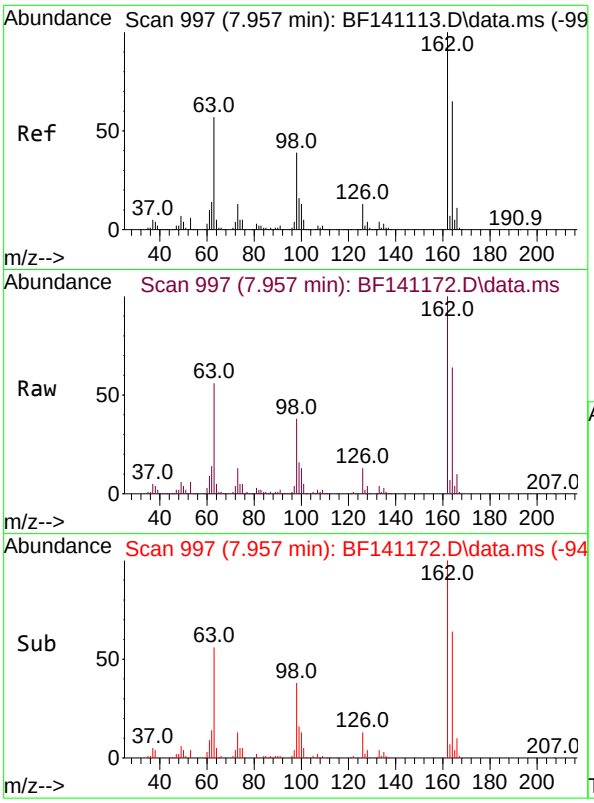


#28
bis(2-Chloroethoxy)methane
Concen: 49.192 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 93 Resp: 492644

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.2	39.4
123	12.7	10.1	15.1



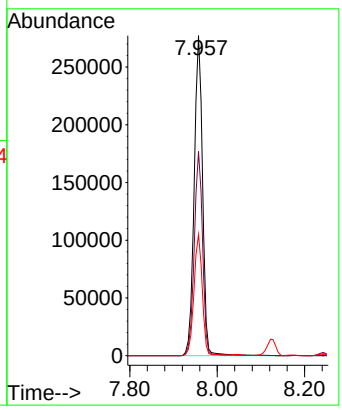


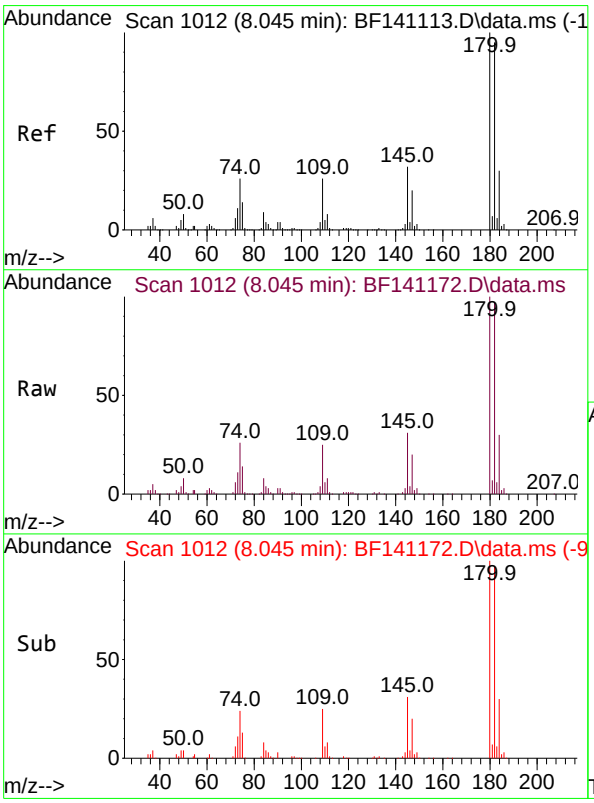
#29
2,4-Dichlorophenol
Concen: 52.334 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:162 Resp: 371144

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.5	84.5
98	37.8	18.5	58.5

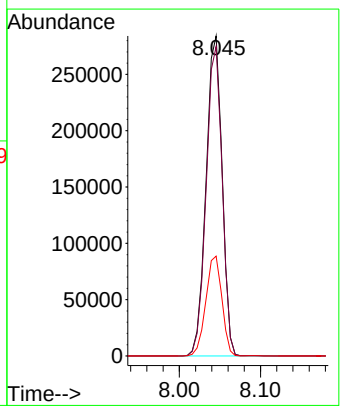


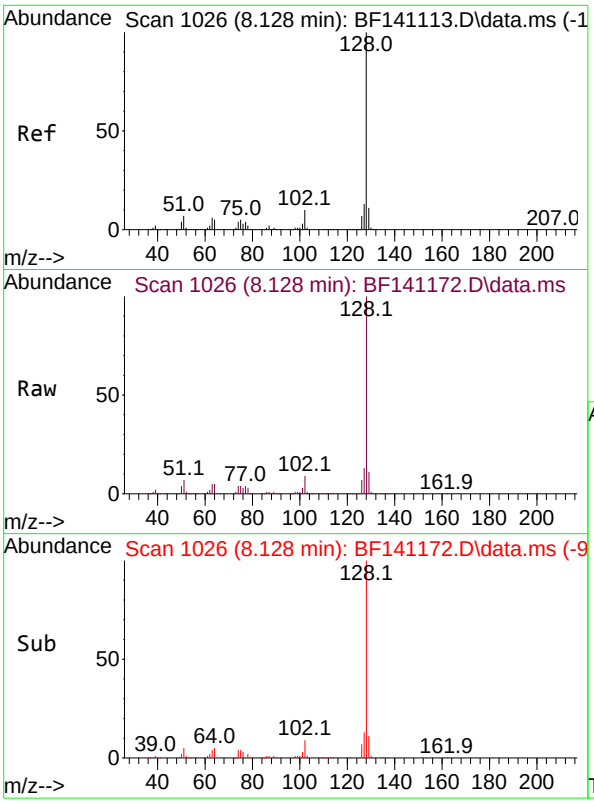


#30
1,2,4-Trichlorobenzene
Concen: 48.047 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:180 Resp: 389479

Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
145	31.2	25.3	37.9



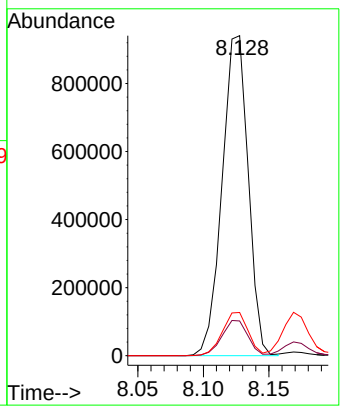


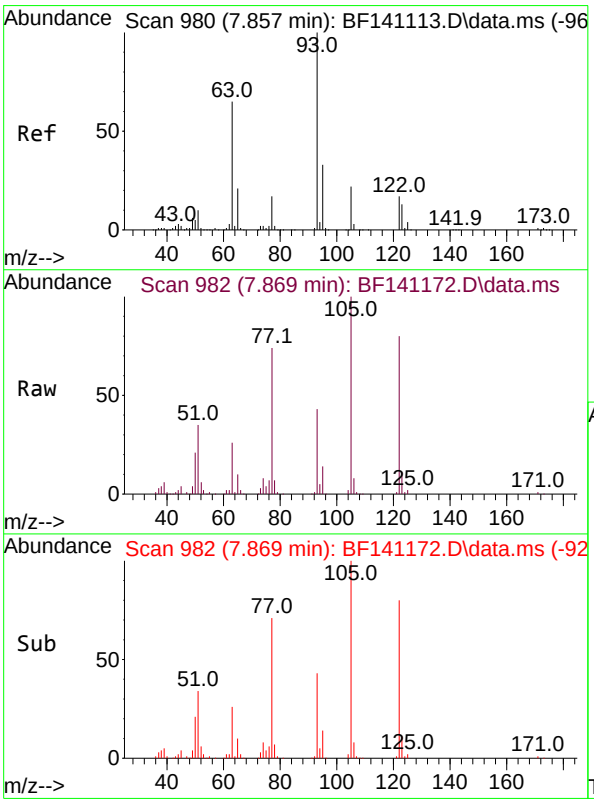
#31
Naphthalene
Concen: 49.832 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:128 Resp: 1300768

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.5	10.8	16.2

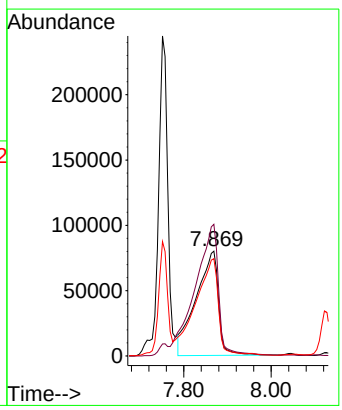


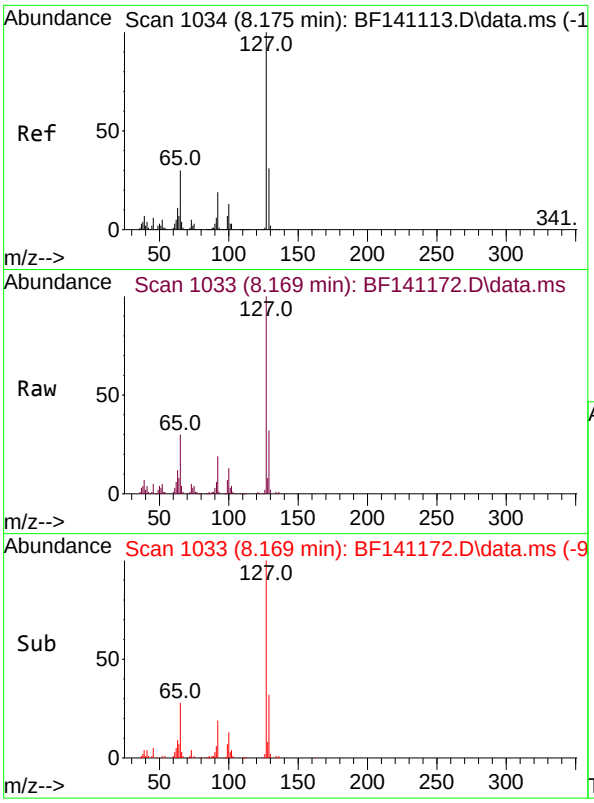


#32
Benzoic acid
Concen: 50.086 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:122 Resp: 286894

Ion	Ratio	Lower	Upper
122	100		
105	125.6	105.5	145.5
77	92.9	75.1	115.1



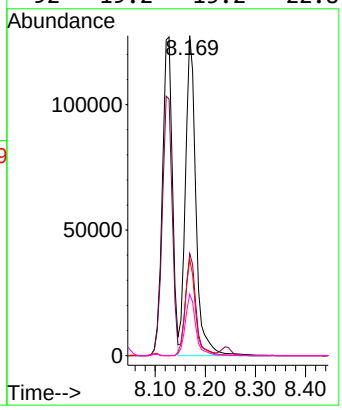


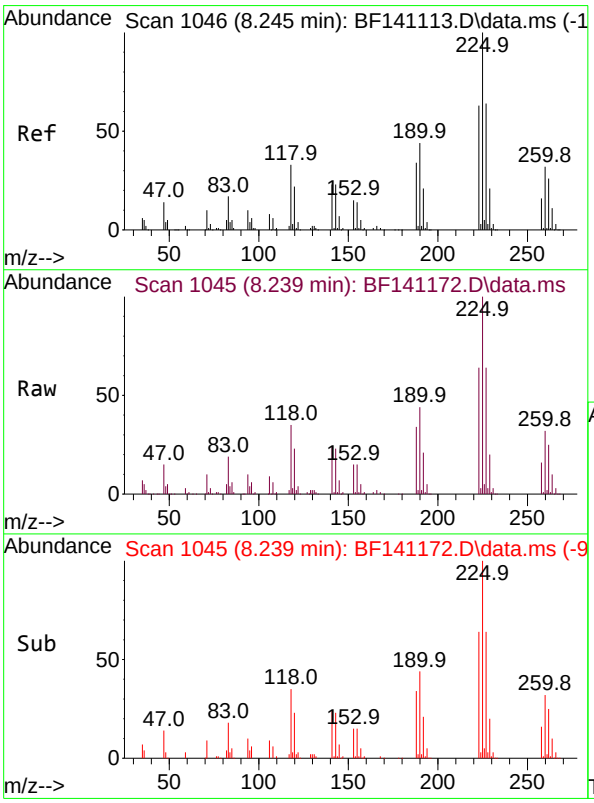
#33
4-Chloroaniline
Concen: 20.652 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:127 Resp: 186433

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	30.0	23.8	35.8
92	19.2	15.2	22.8

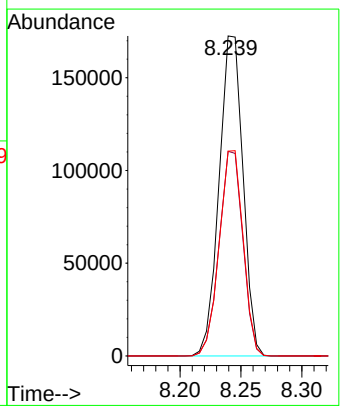


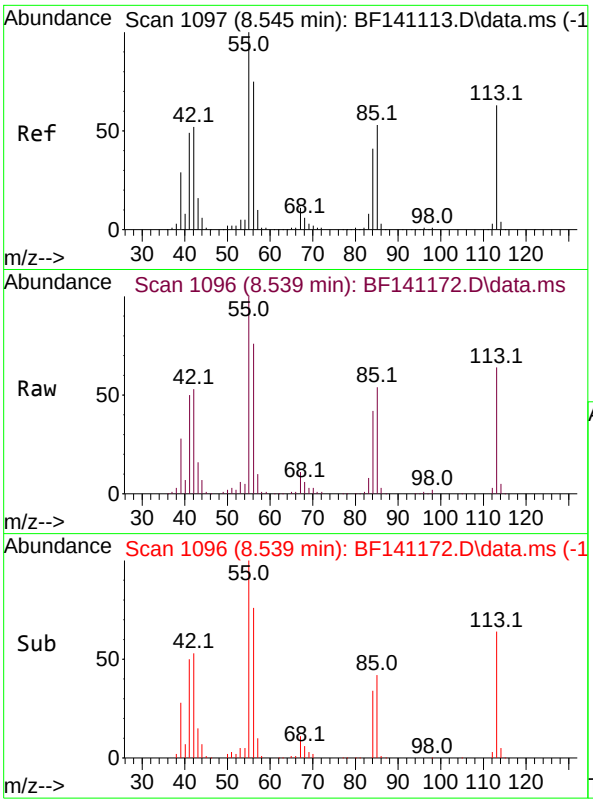


#34
Hexachlorobutadiene
Concen: 48.271 ng
RT: 8.239 min Scan# 1045
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:225 Resp: 235776

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.6	76.0
227	64.0	51.6	77.4



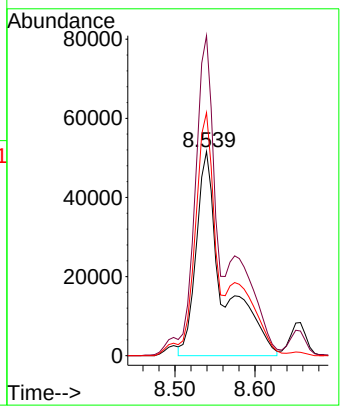


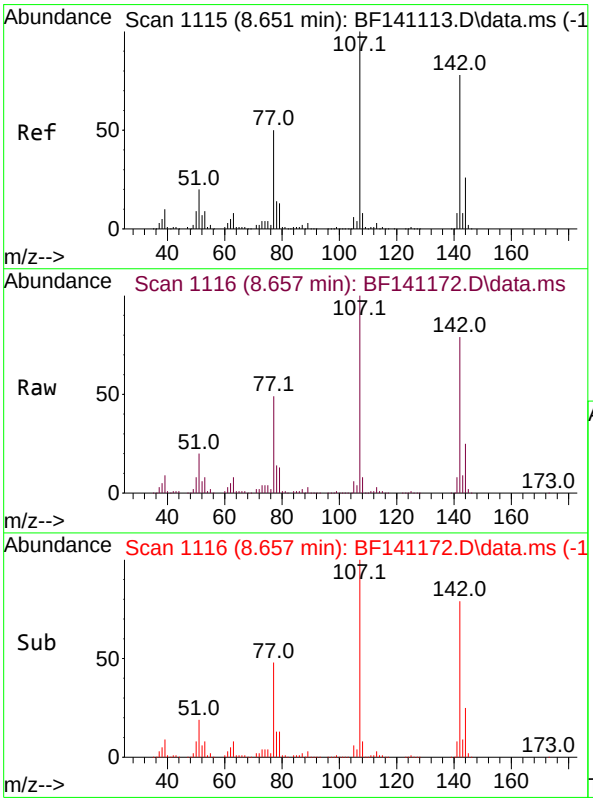
#35
Caprolactam
Concen: 52.514 ng m
RT: 8.539 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:113 Resp: 121929

Ion	Ratio	Lower	Upper
113	100		
55	156.8	139.7	179.7
56	119.1	99.4	139.4

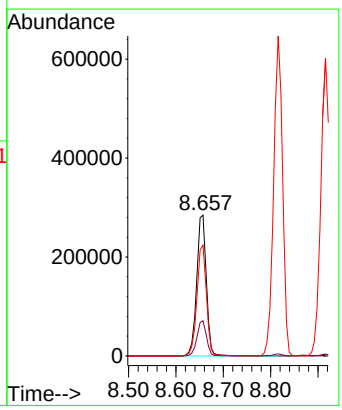


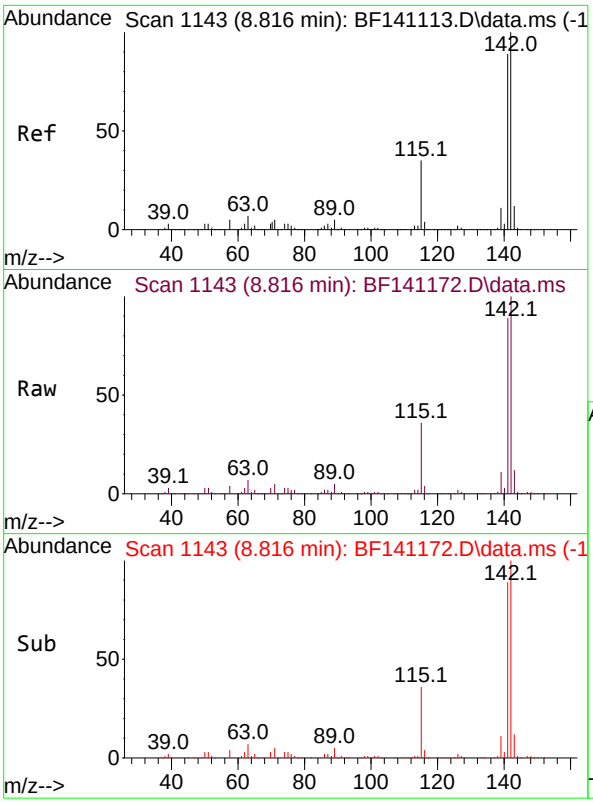


#36
4-Chloro-3-methylphenol
Concen: 51.983 ng
RT: 8.657 min Scan# 1116
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:107 Resp: 403179

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.4	30.6
142	78.7	62.2	93.2



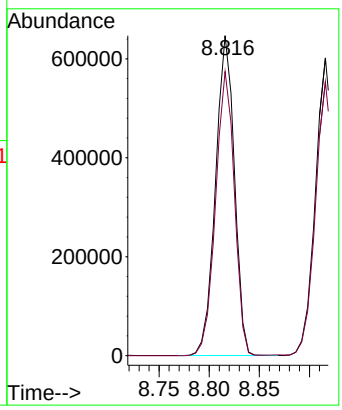


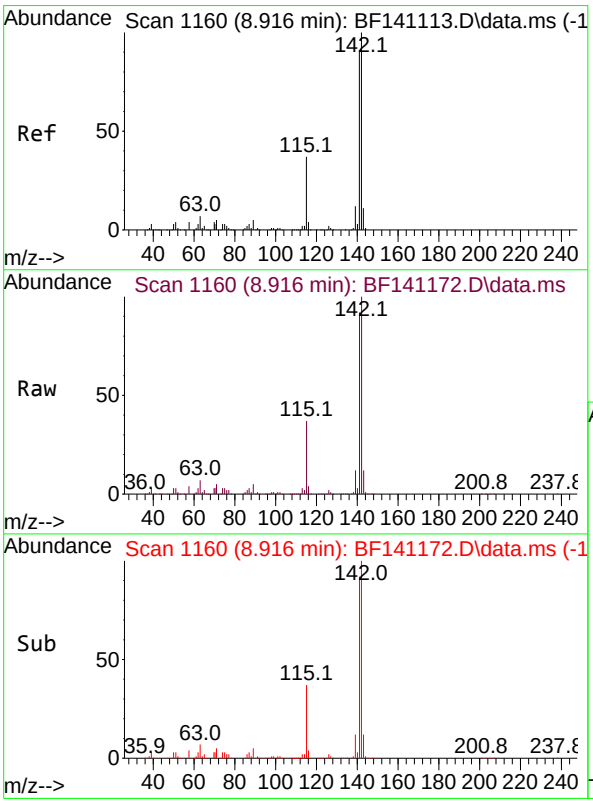
#37
2-Methylnaphthalene
Concen: 50.852 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:142 Resp: 845856

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.3	106.9

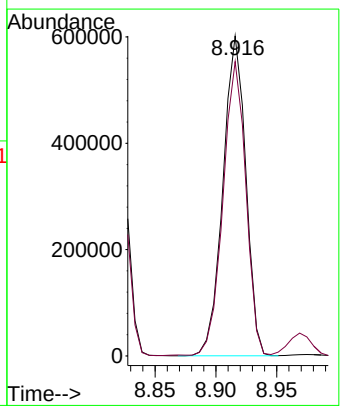


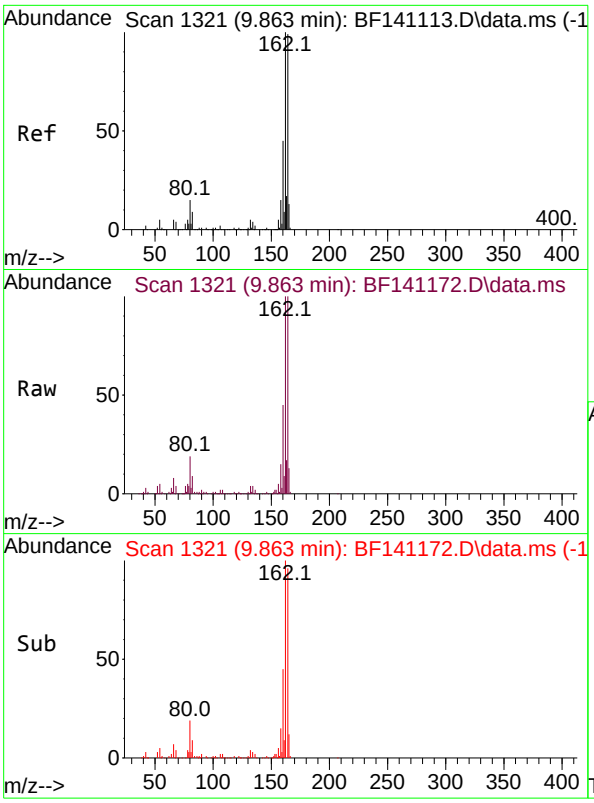


#38
1-Methylnaphthalene
Concen: 47.844 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:142 Resp: 784309

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7



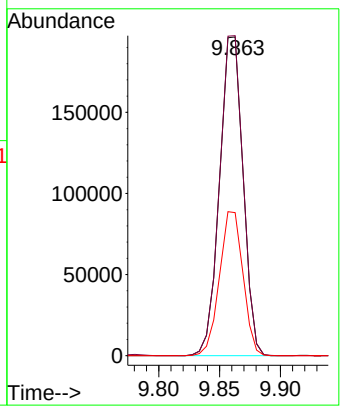


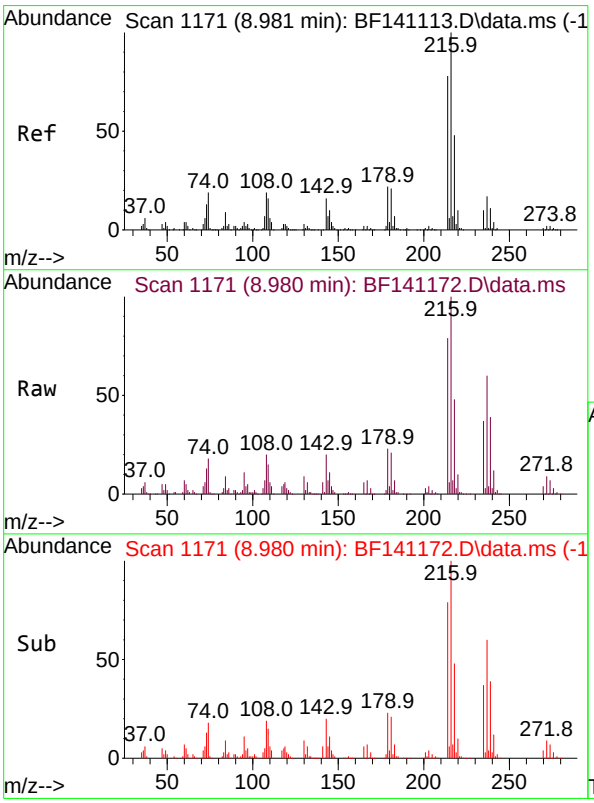
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:164 Resp: 264175

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.4
160	44.9	36.1	54.1

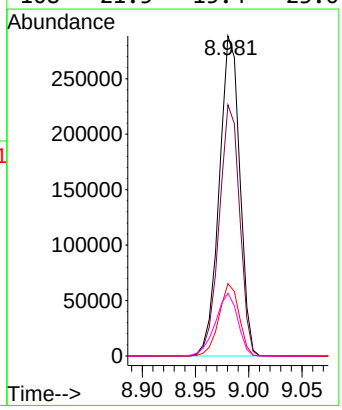


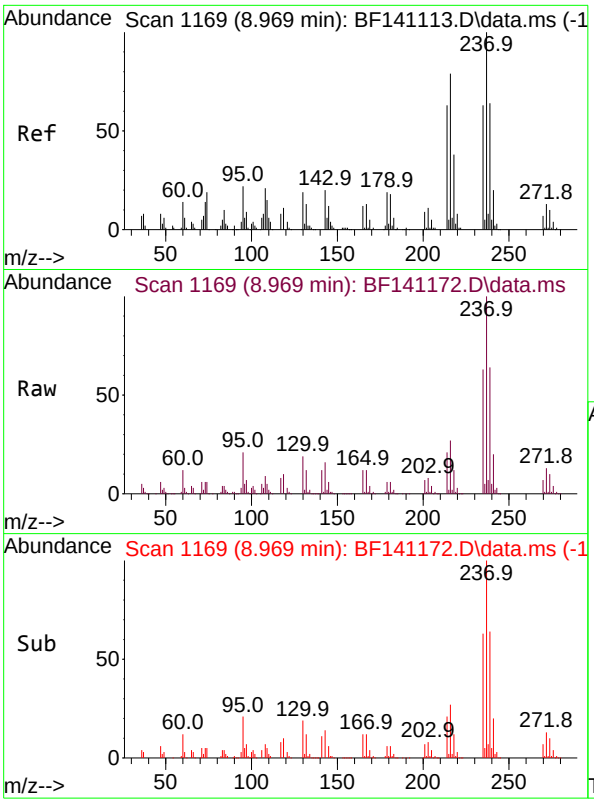


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.905 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:216 Resp: 385980

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.6	94.0
179	22.2	17.7	26.5
108	21.5	15.4	23.0



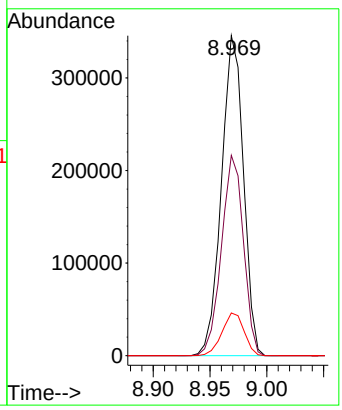


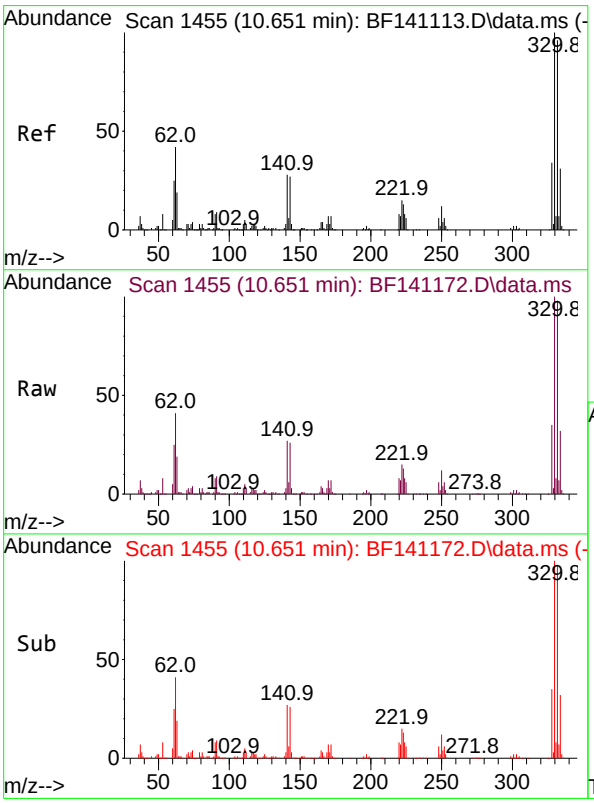
#41
Hexachlorocyclopentadiene
Concen: 187.848 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:237 Resp: 465991

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.0	83.0
272	13.3	0.0	33.0

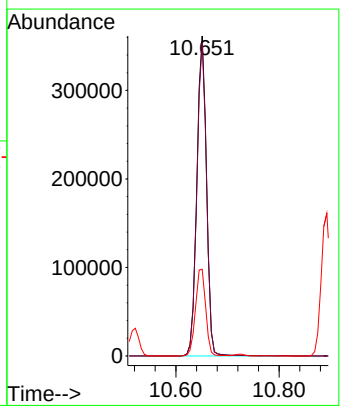


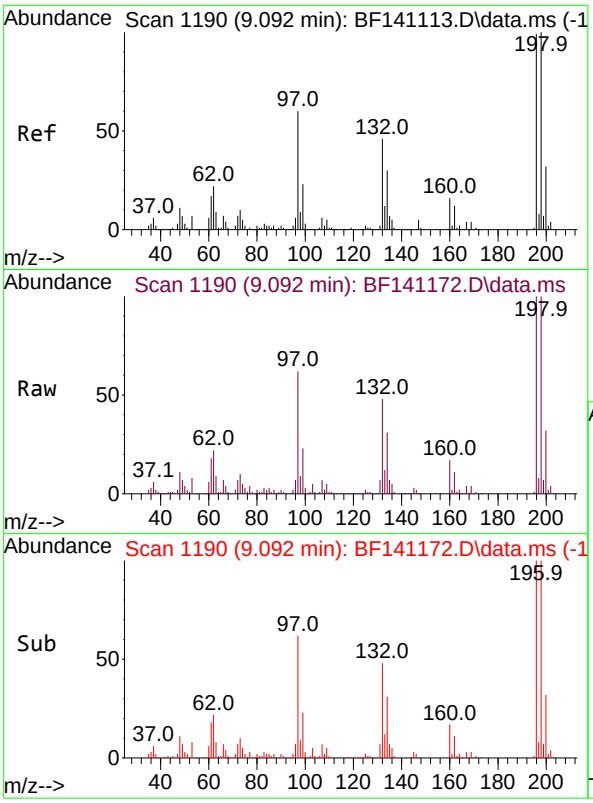


#42
2,4,6-Tribromophenol
Concen: 155.580 ng
RT: 10.651 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:330 Resp: 468311

Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.9	115.3
141	28.8	25.2	37.8



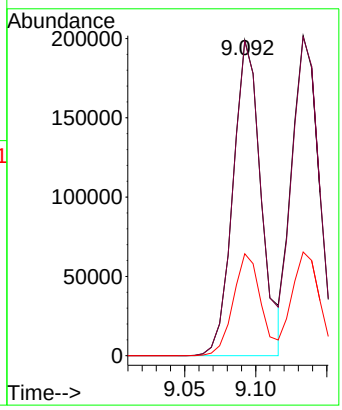


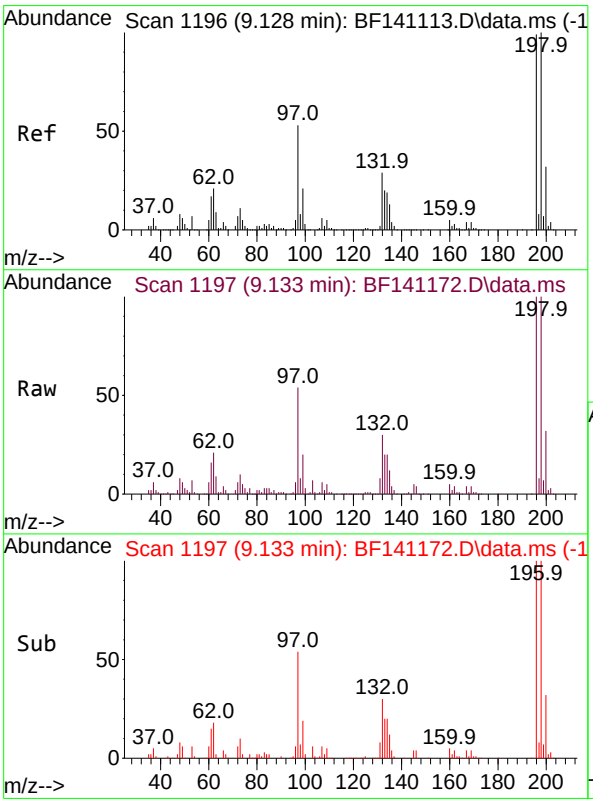
#43
2,4,6-Trichlorophenol
Concen: 53.267 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:196 Resp: 272398

Ion	Ratio	Lower	Upper
196	100		
198	99.5	80.8	121.2
200	32.3	25.7	38.5

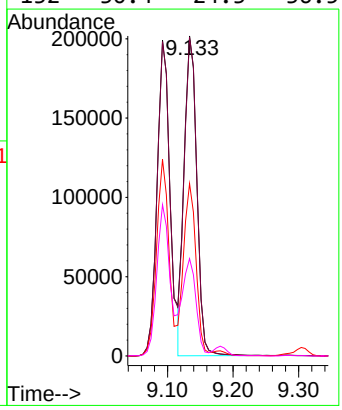


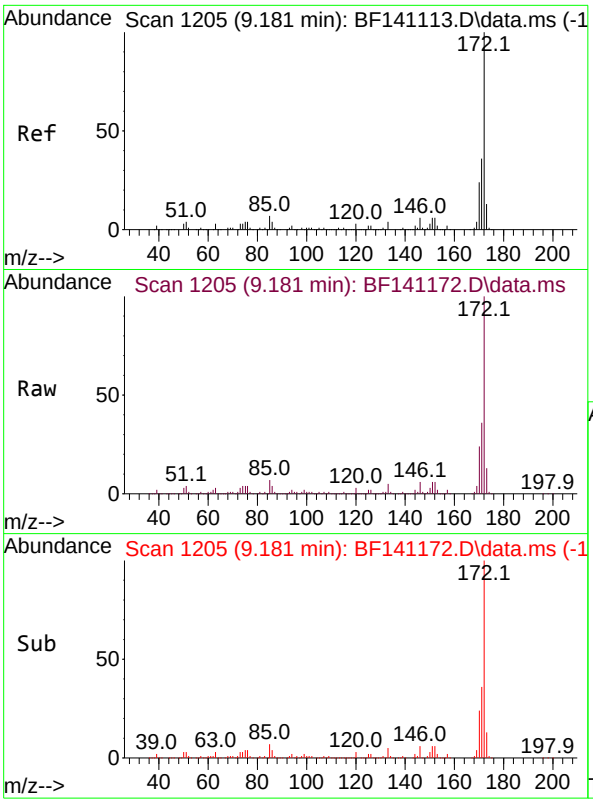


#44
2,4,5-Trichlorophenol
Concen: 50.006 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:196 Resp: 270073

Ion	Ratio	Lower	Upper
196	100		
198	99.6	80.6	120.8
97	53.9	43.1	64.7
132	30.4	24.3	36.5



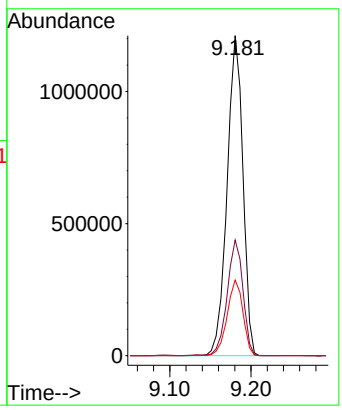


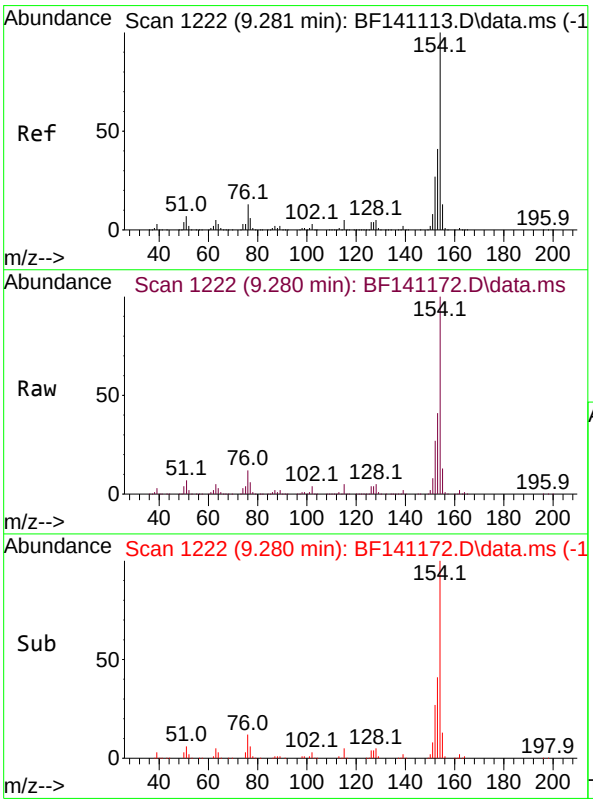
#45
2-Fluorobiphenyl
Concen: 94.797 ng
RT: 9.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:172 Resp: 1639957

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.7	43.1
170	23.7	19.0	28.6

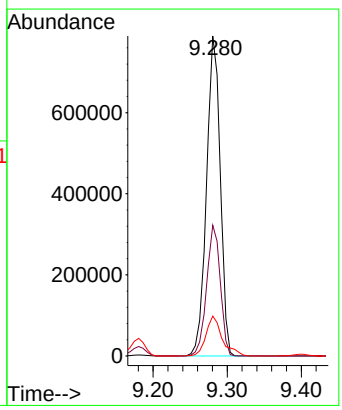


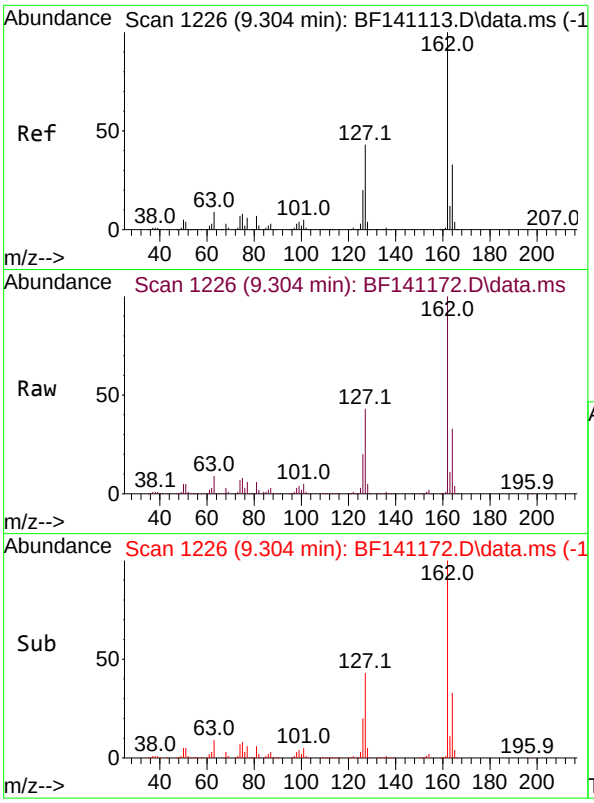


#46
1,1'-Biphenyl
Concen: 49.545 ng
RT: 9.280 min Scan# 1222
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:154 Resp: 1016465

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.7	60.7
76	12.5	0.0	33.1



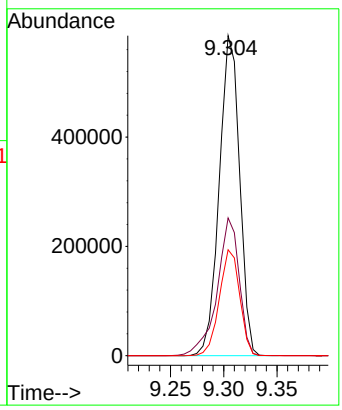


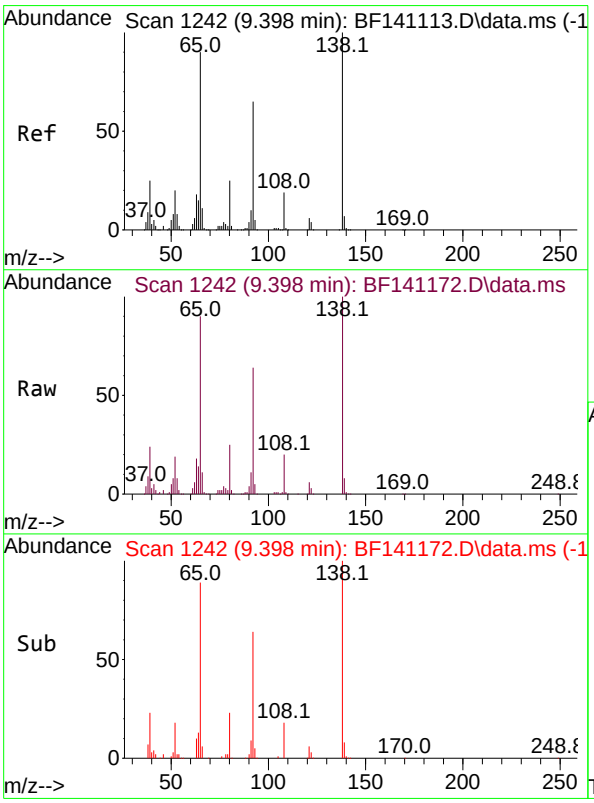
#47
2-Chloronaphthalene
Concen: 48.651 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:162 Resp: 777411

Ion	Ratio	Lower	Upper
162	100		
127	43.1	34.6	51.8
164	33.1	26.5	39.7

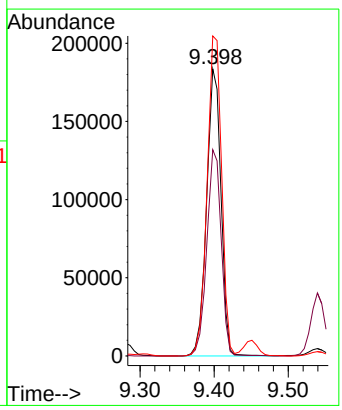


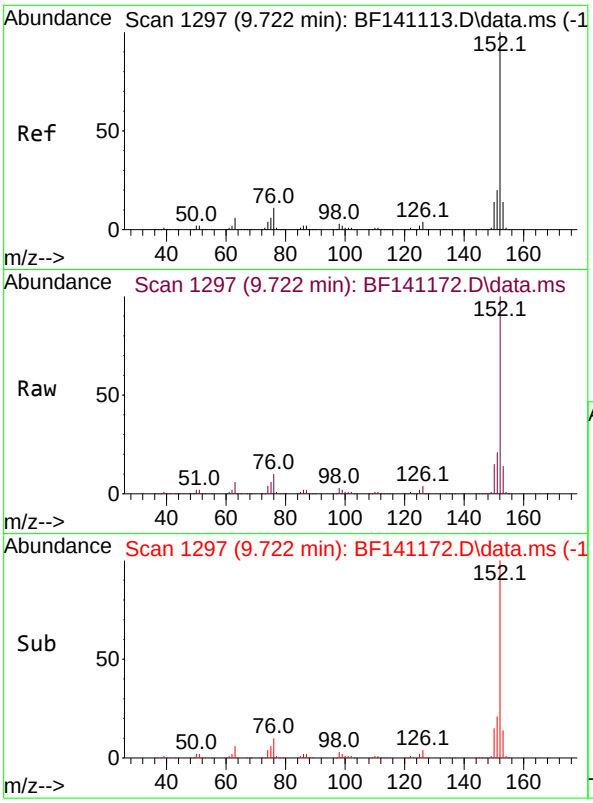


#48
2-Nitroaniline
Concen: 52.239 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 65 Resp: 247443

Ion	Ratio	Lower	Upper
65	100		
92	71.9	58.3	87.5
138	111.5	89.1	133.7



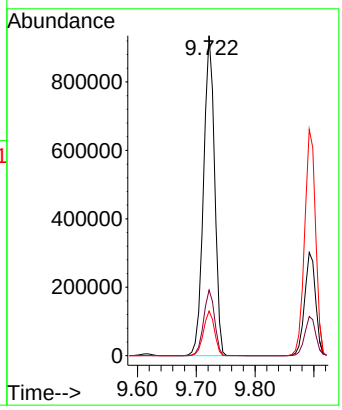


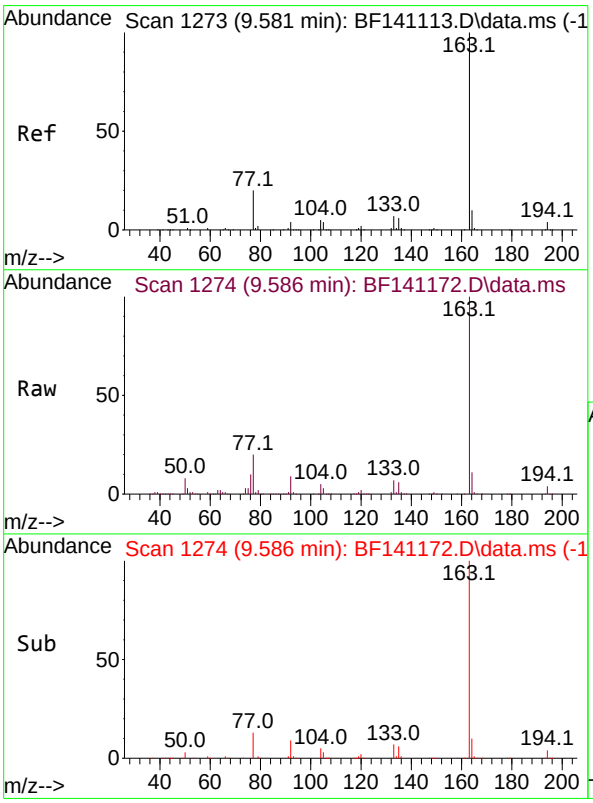
#49
Acenaphthylene
Concen: 53.506 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:152 Resp: 1221518

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	13.9	11.1	16.7

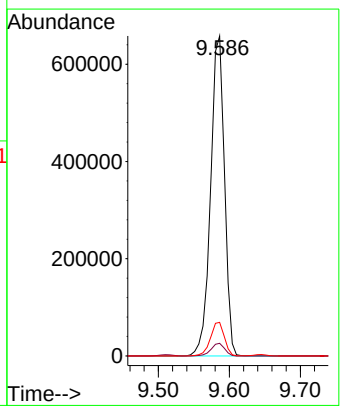


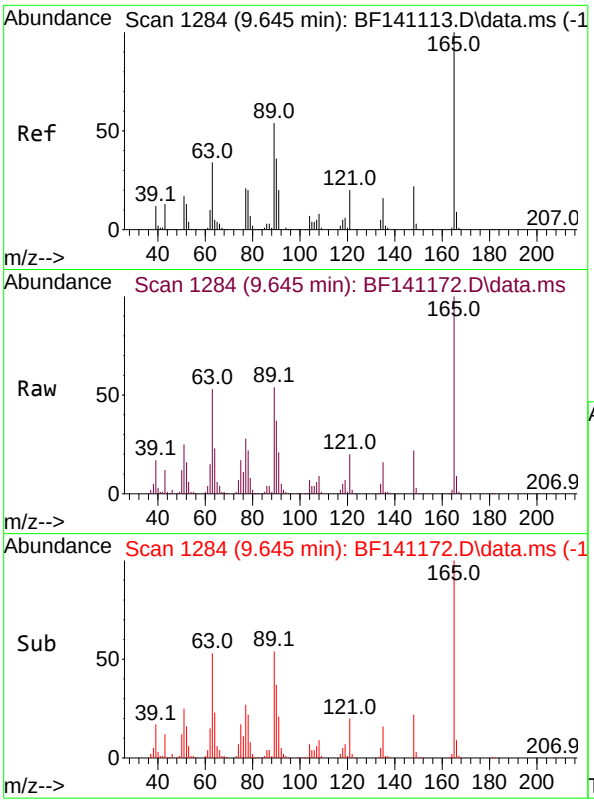


#50
Dimethylphthalate
Concen: 50.400 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:163 Resp: 893858

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.5	8.2	12.4



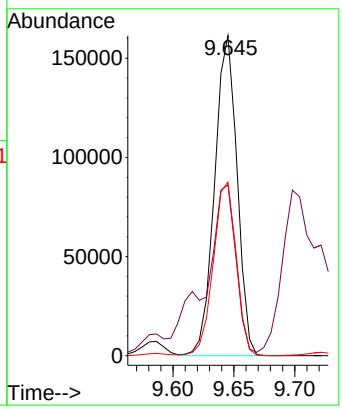


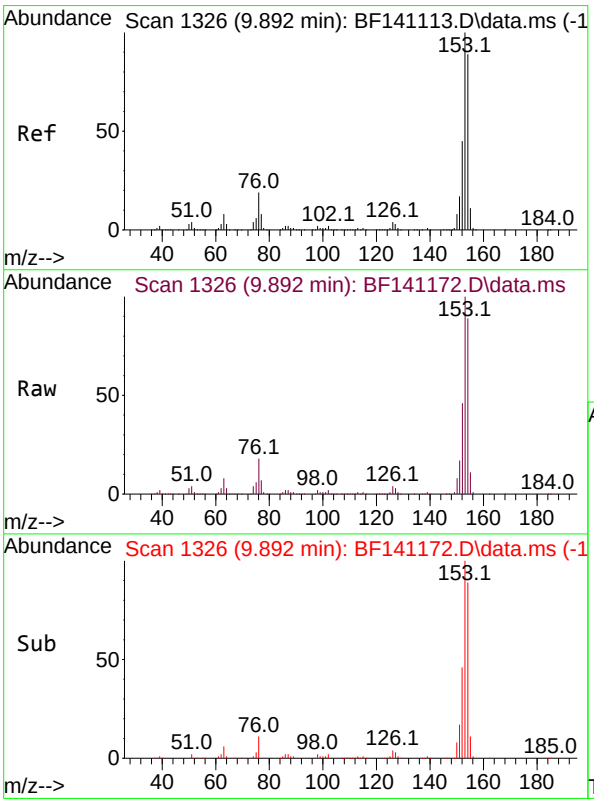
#51
2,6-Dinitrotoluene
Concen: 50.295 ng
RT: 9.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:165 Resp: 207427

Ion	Ratio	Lower	Upper
165	100		
63	53.3	42.3	63.5
89	54.3	43.1	64.7

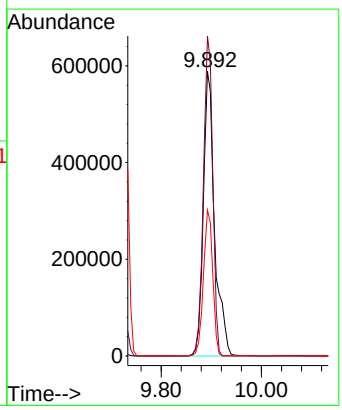


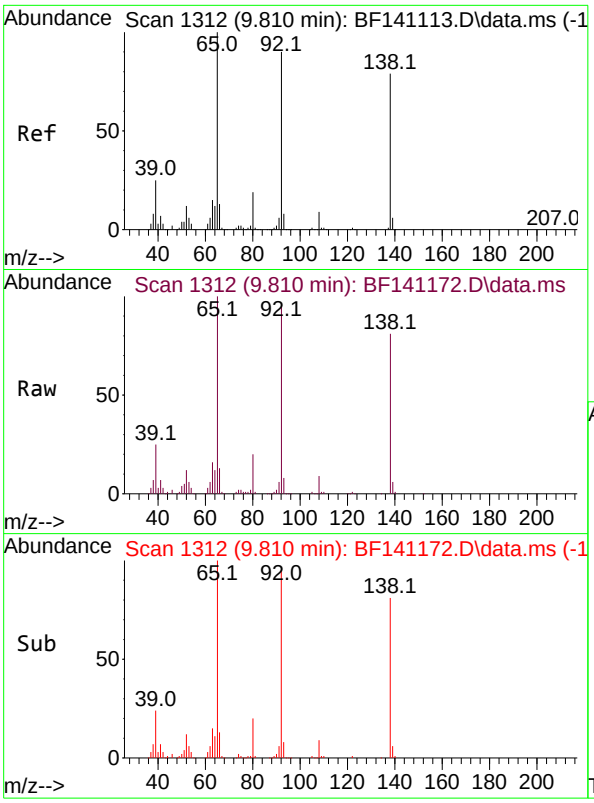


#52
Acenaphthene
Concen: 57.563 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:154 Resp: 918132

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.8	134.6
152	51.3	40.8	61.2



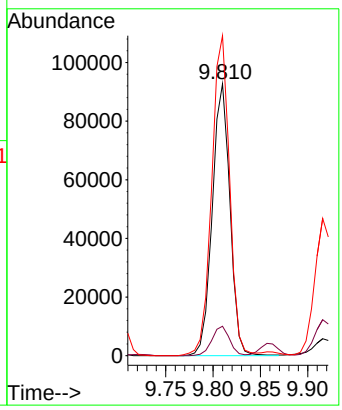


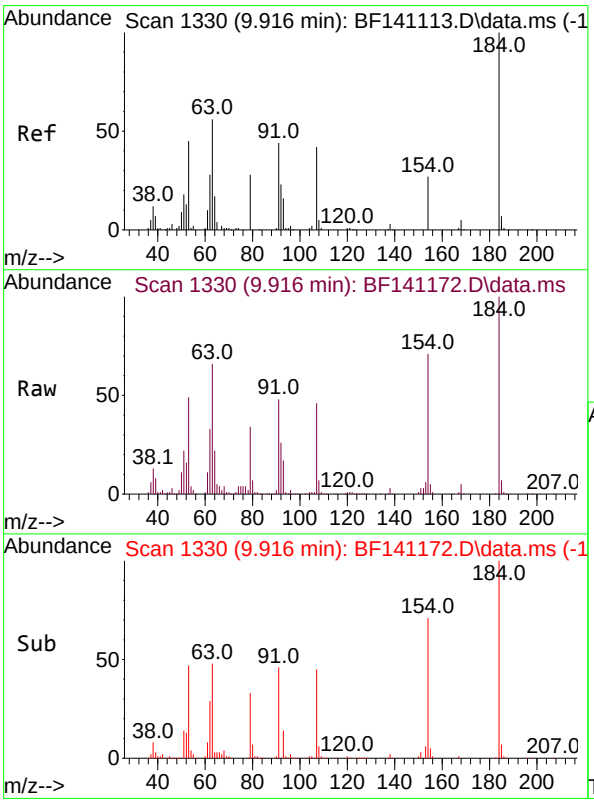
#53
3-Nitroaniline
Concen: 28.662 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:138 Resp: 120126

Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.8	13.2
92	117.7	91.3	136.9

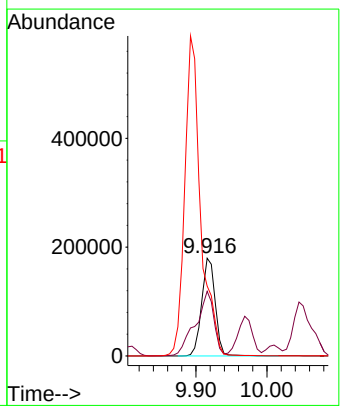


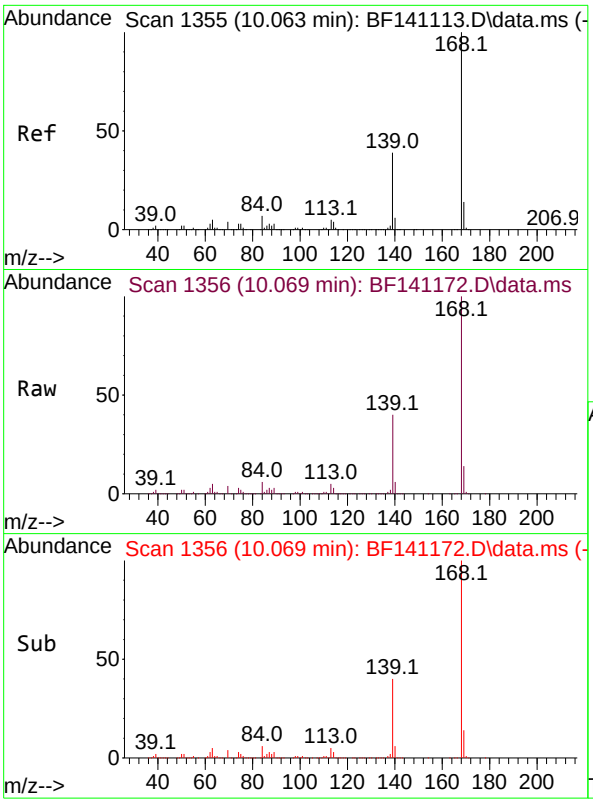


#54
2,4-Dinitrophenol
Concen: 122.030 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:184 Resp: 239218

Ion	Ratio	Lower	Upper
184	100		
63	66.2	48.7	73.1
154	71.5	57.1	85.7



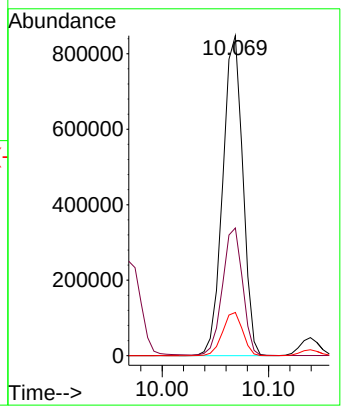


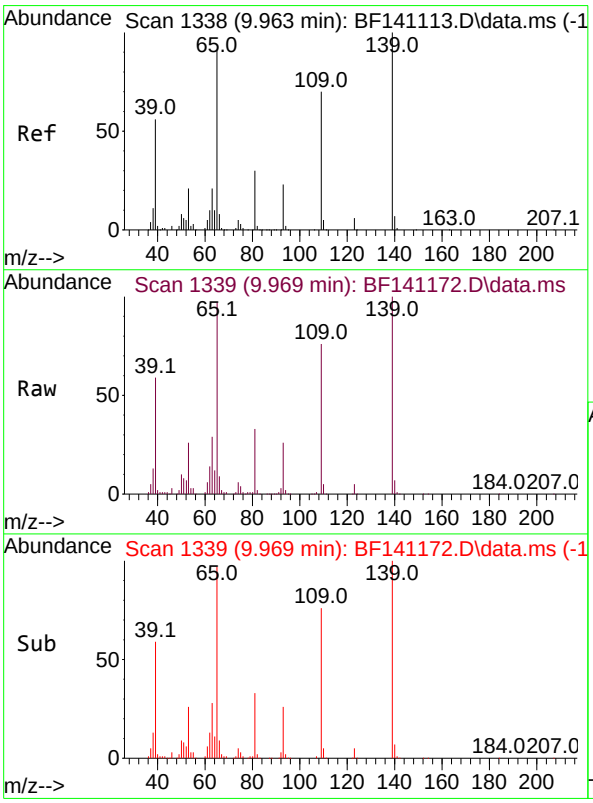
#55
Dibenzofuran
Concen: 51.016 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:168 Resp: 1106789

Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.4	47.0
169	13.5	10.9	16.3

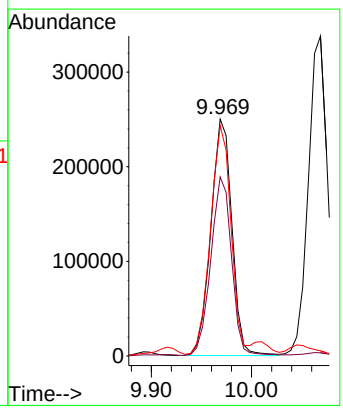


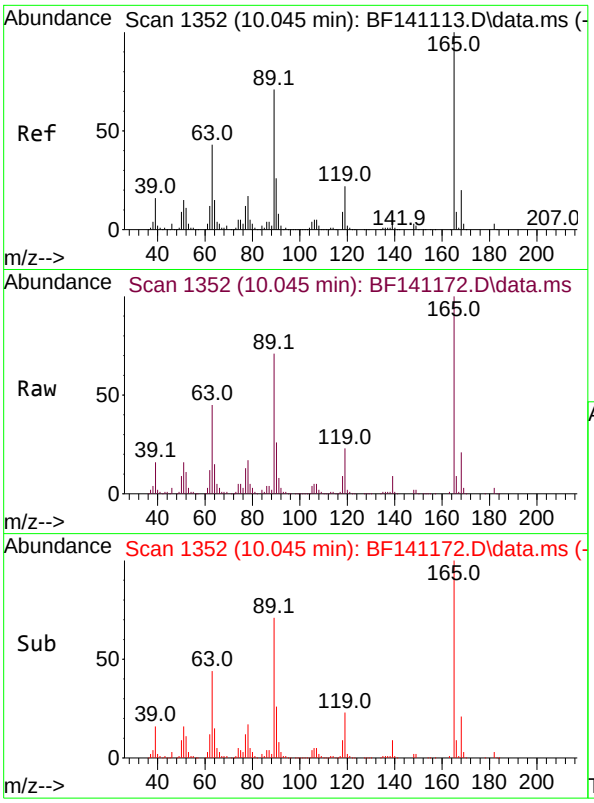


#56
4-Nitrophenol
Concen: 110.972 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:139 Resp: 364246

Ion	Ratio	Lower	Upper
139	100		
109	75.6	50.2	90.2
65	97.2	72.1	112.1



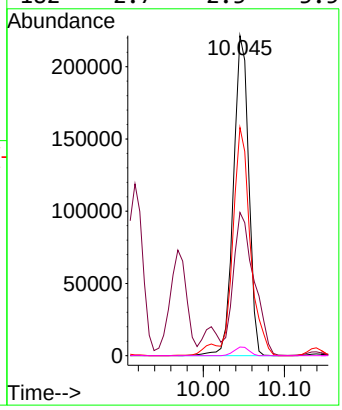


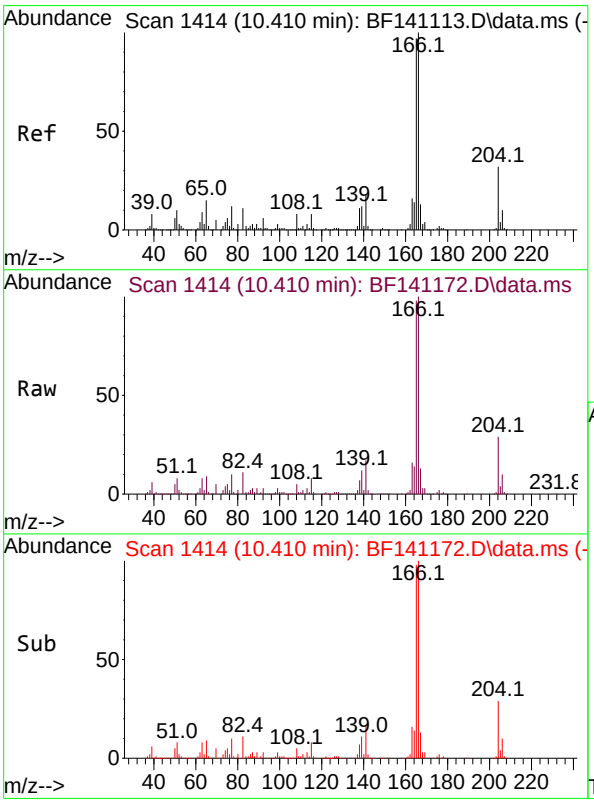
#57
2,4-Dinitrotoluene
Concen: 54.319 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:165 Resp: 288706

Ion	Ratio	Lower	Upper
165	100		
63	44.8	35.0	52.4
89	71.3	56.7	85.1
182	2.7	2.3	3.5

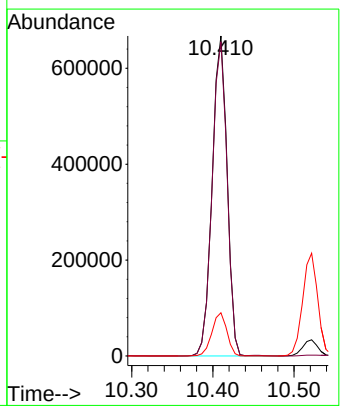


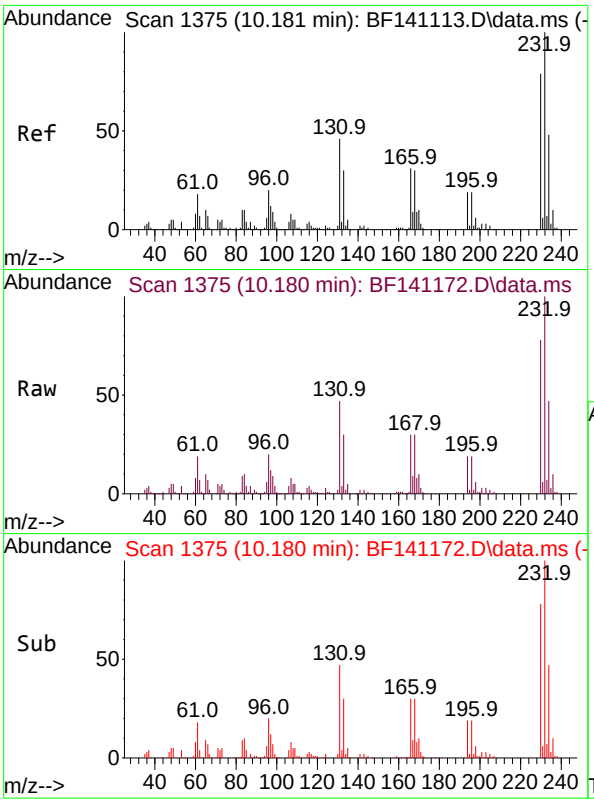


#58
Fluorene
Concen: 50.654 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:166 Resp: 853769

Ion	Ratio	Lower	Upper
166	100		
165	98.2	77.8	116.8
167	13.5	10.8	16.2



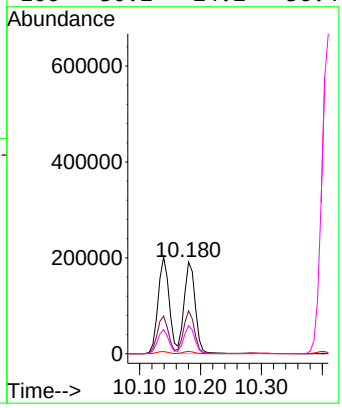


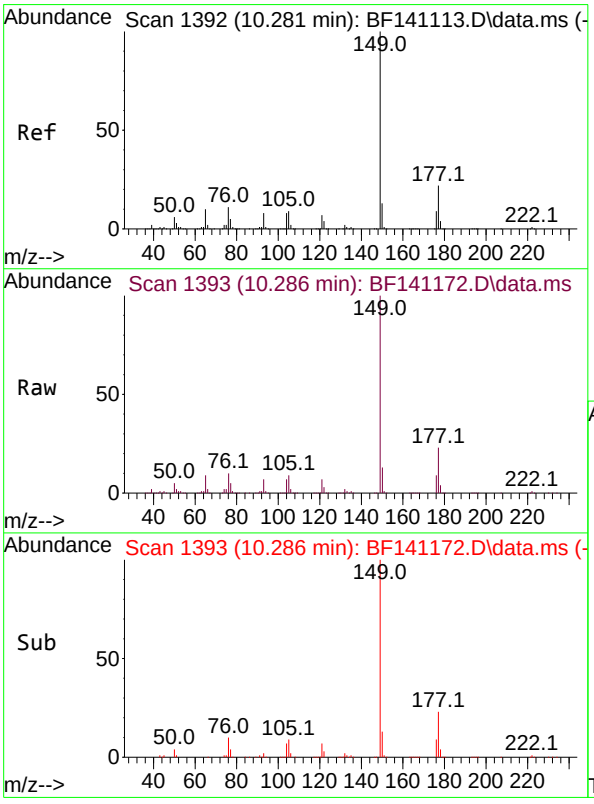
#59
2,3,4,6-Tetrachlorophenol
Concen: 53.911 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:232 Resp: 242021

Ion	Ratio	Lower	Upper
232	100		
131	46.8	36.2	54.4
130	2.5	2.0	3.0
166	30.2	24.2	36.4

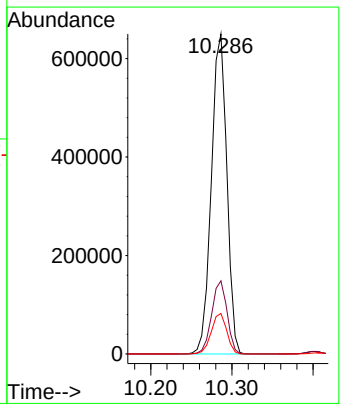


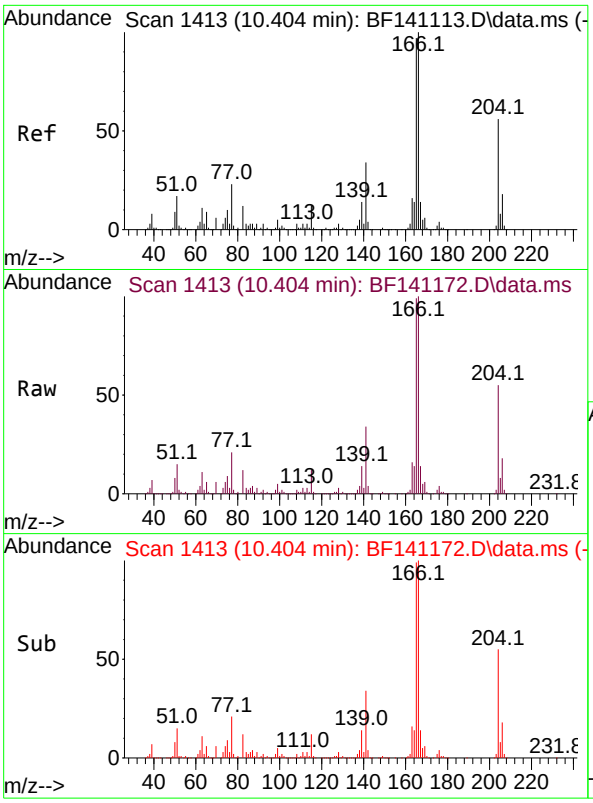


#60
Diethylphthalate
Concen: 49.710 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 860679

Ion	Ratio	Lower	Upper
149	100		
177	22.9	17.9	26.9
150	12.6	10.2	15.2



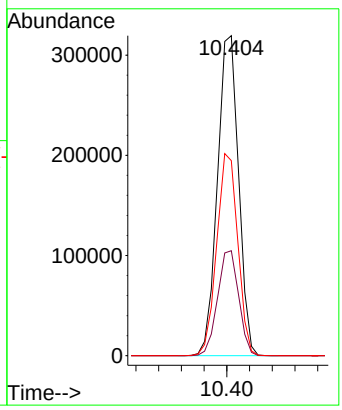


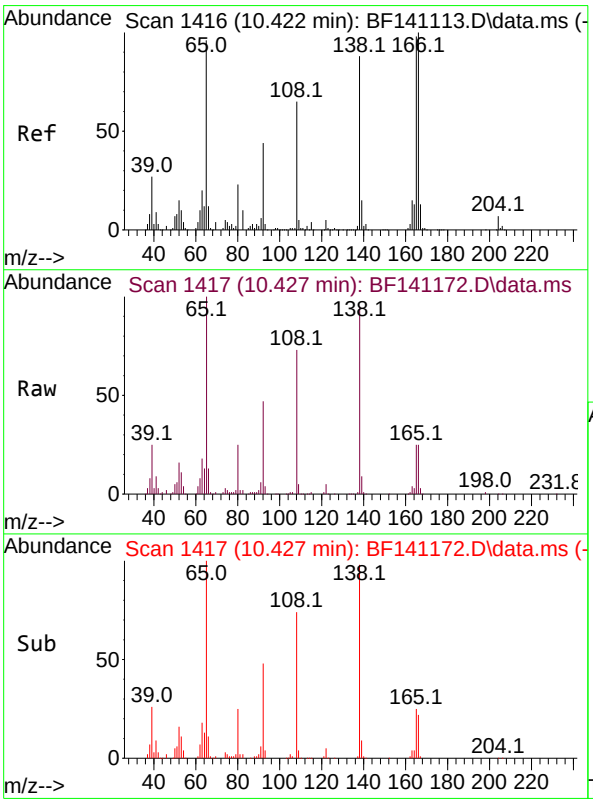
#61
4-Chlorophenyl-phenylether
Concen: 50.262 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:204 Resp: 412896

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.9	38.9
141	60.9	49.1	73.7

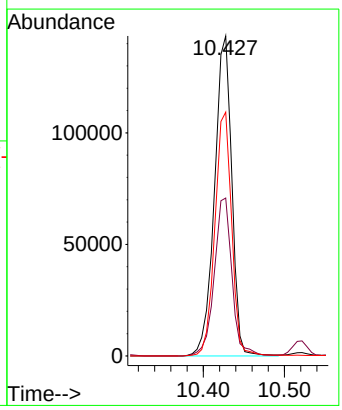


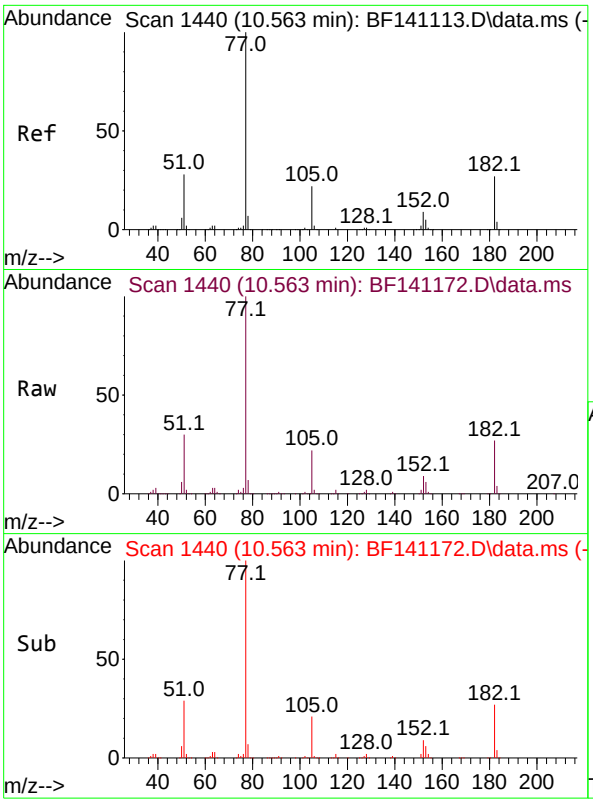


#62
4-Nitroaniline
Concen: 51.787 ng
RT: 10.427 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:138 Resp: 212430

Ion	Ratio	Lower	Upper
138	100		
92	49.4	29.4	69.4
108	76.2	53.7	93.7



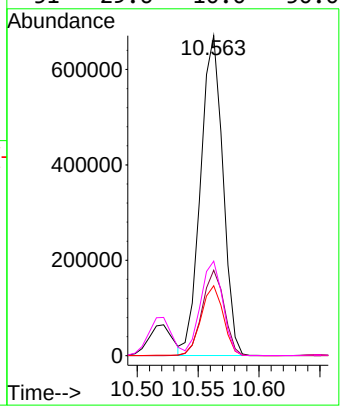


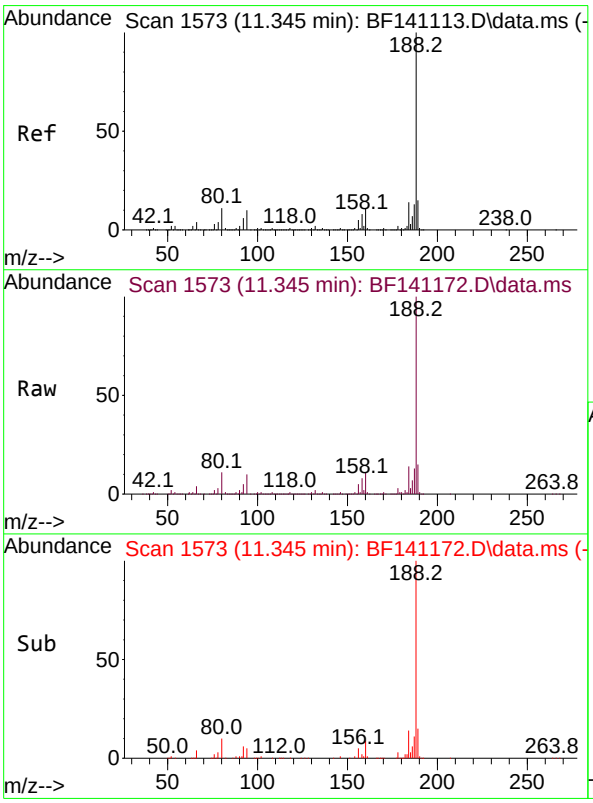
#63
Azobenzene
Concen: 49.994 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 77 Resp: 854110

Ion	Ratio	Lower	Upper
77	100		
182	26.7	6.1	46.1
105	21.9	2.1	42.1
51	29.6	10.0	50.0

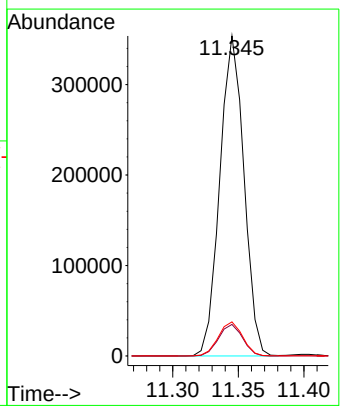


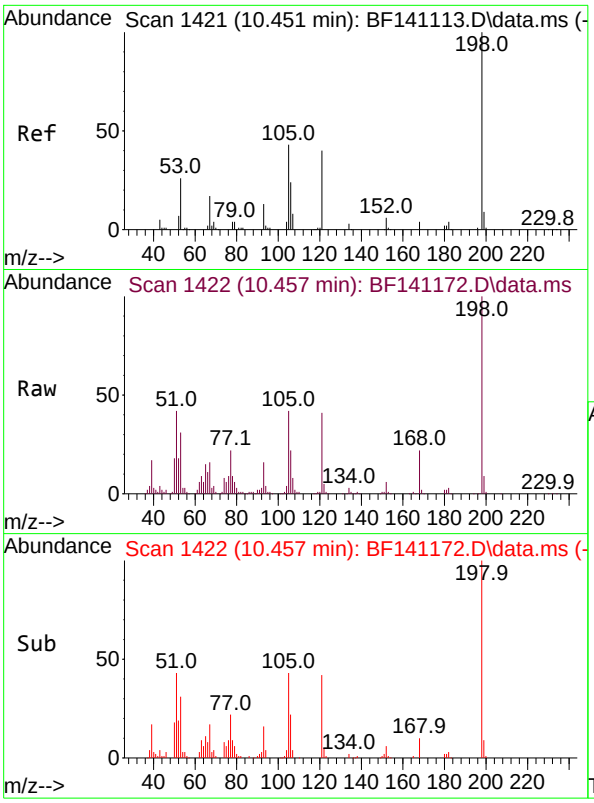


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:188 Resp: 452645

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.3	12.5
80	10.7	9.0	13.4



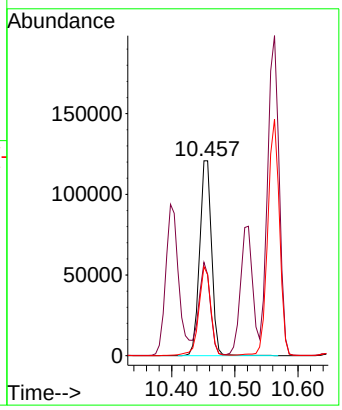


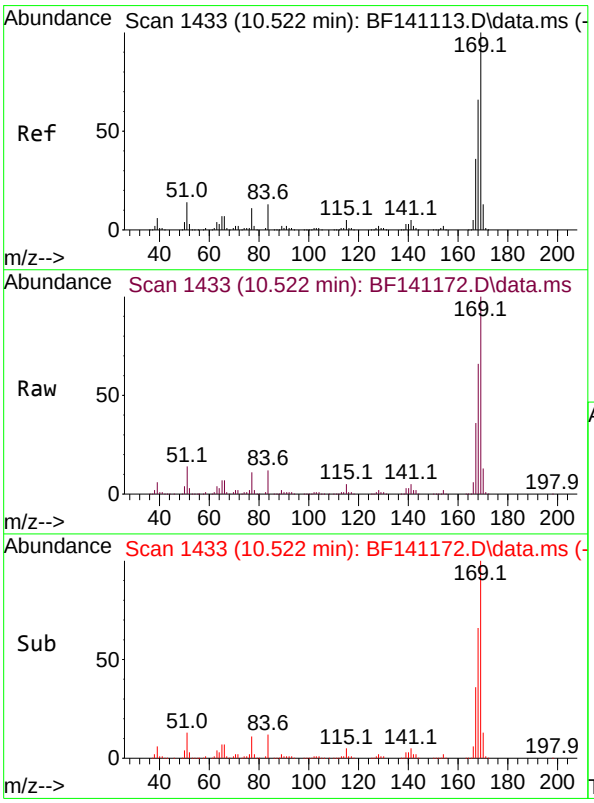
#65
4,6-Dinitro-2-methylphenol
Concen: 60.767 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:198 Resp: 159388

Ion	Ratio	Lower	Upper
198	100		
51	41.5	27.1	67.1
105	41.5	24.2	64.2

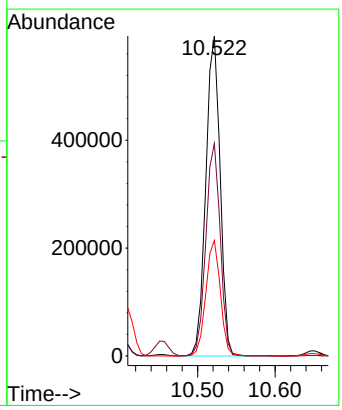


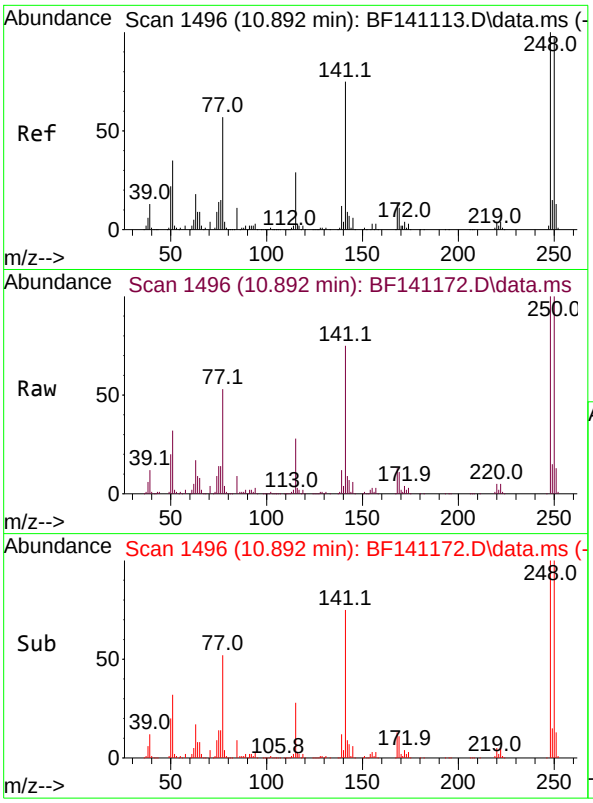


#66
n-Nitrosodiphenylamine
Concen: 52.076 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:169 Resp: 760298

Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.5	78.7
167	36.1	28.9	43.3



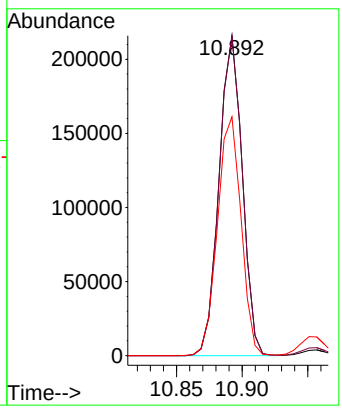


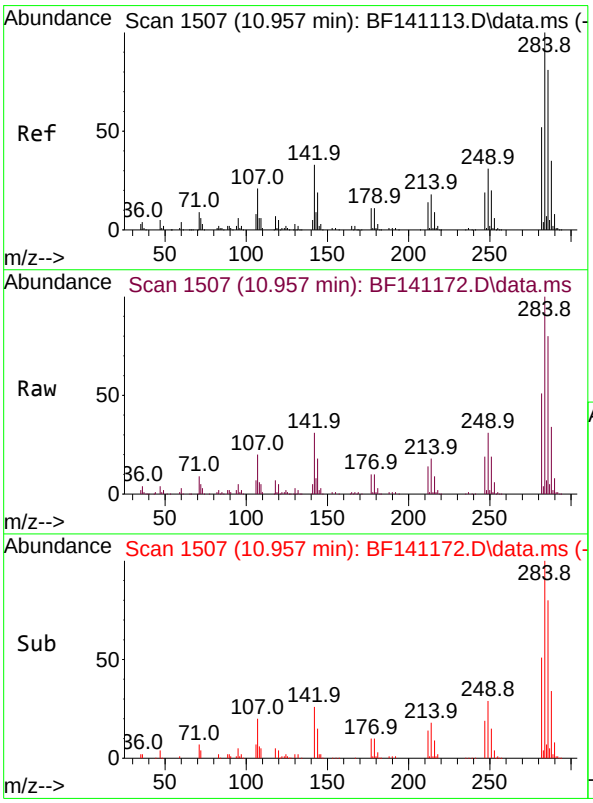
#67
4-Bromophenyl-phenylether
Concen: 51.032 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:248 Resp: 265942

Ion	Ratio	Lower	Upper
248	100		
250	99.8	77.9	116.9
141	74.7	59.9	89.9

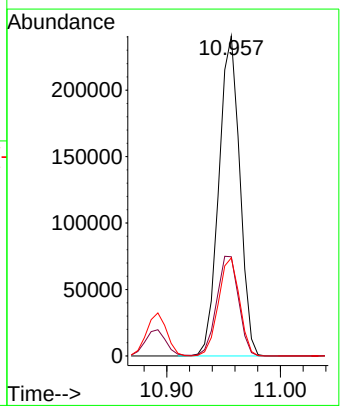


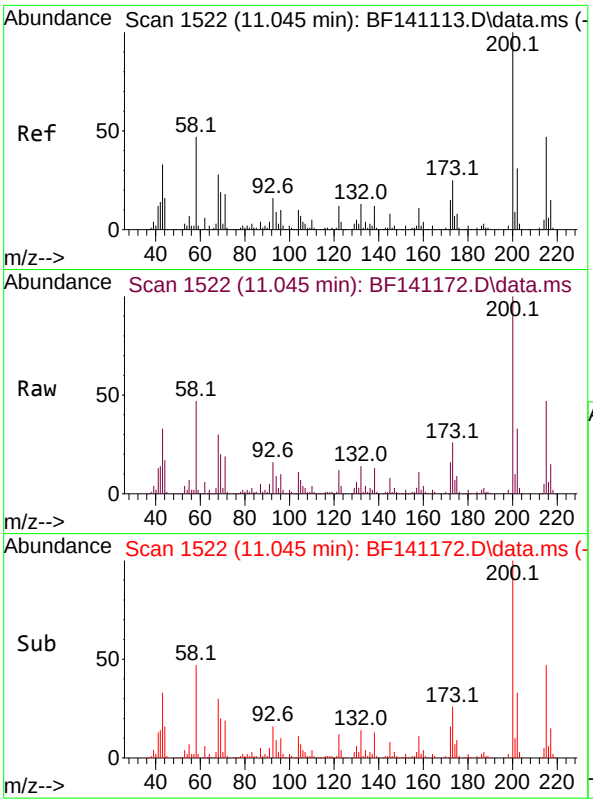


#68
Hexachlorobenzene
Concen: 53.114 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:284 Resp: 308124

Ion	Ratio	Lower	Upper
284	100		
142	31.0	26.3	39.5
249	30.7	24.9	37.3



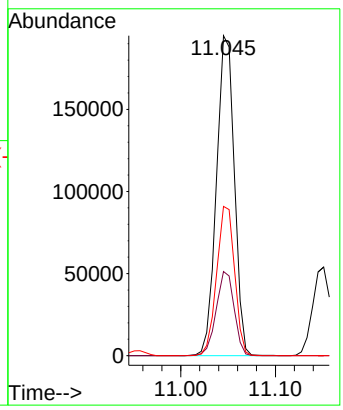


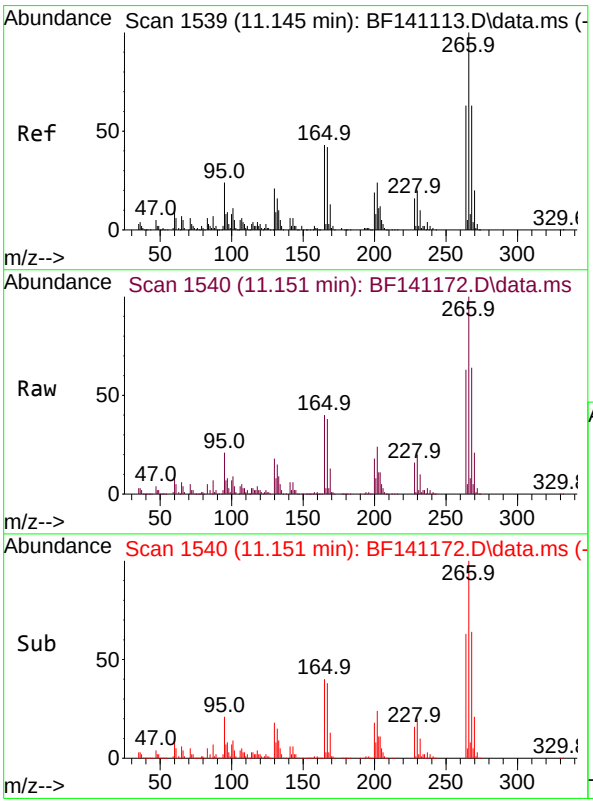
#69
Atrazine
Concen: 65.219 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:200 Resp: 256384

Ion	Ratio	Lower	Upper
200	100		
173	26.3	5.4	45.4
215	46.6	26.6	66.6

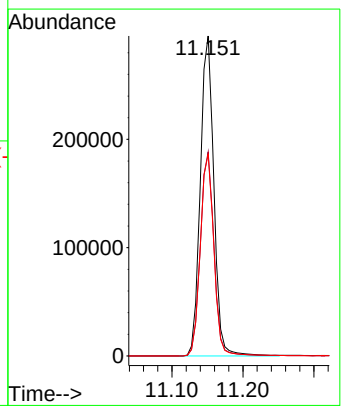


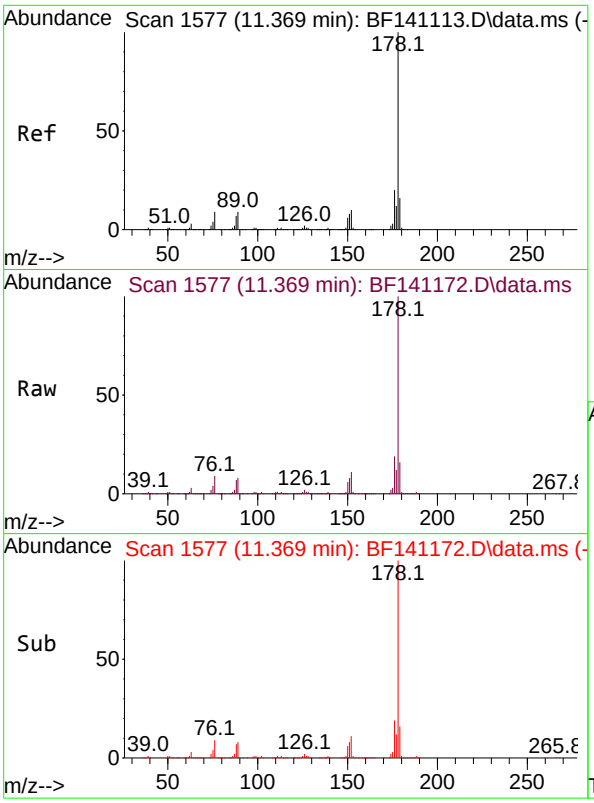


#70
Pentachlorophenol
Concen: 105.741 ng
RT: 11.151 min Scan# 1540
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:266 Resp: 392836

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.4	75.6
264	63.1	50.2	75.2



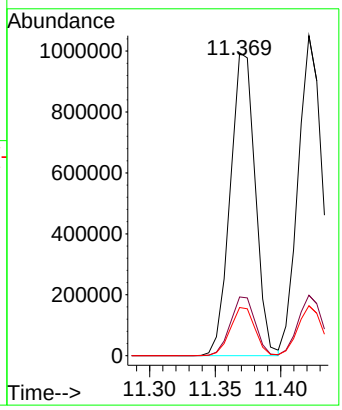


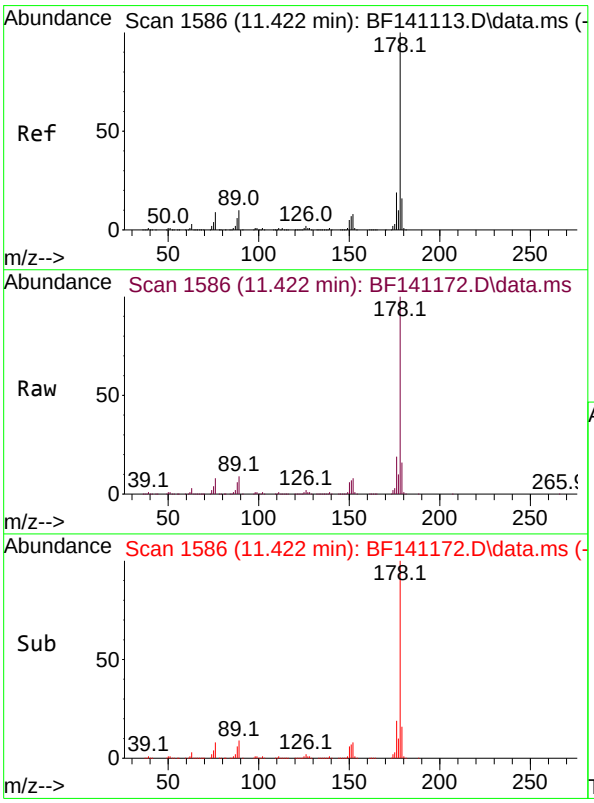
#71
Phenanthrene
Concen: 54.316 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:178 Resp: 1319932

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.9	12.6	19.0

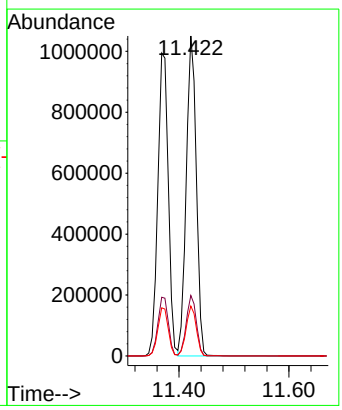


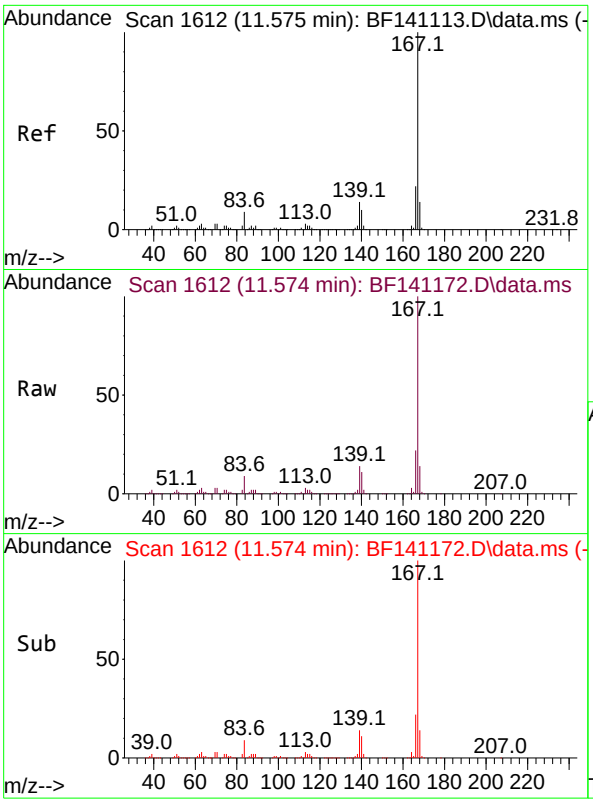


#72
Anthracene
Concen: 56.385 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:178 Resp: 1332321

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.6	12.6	19.0



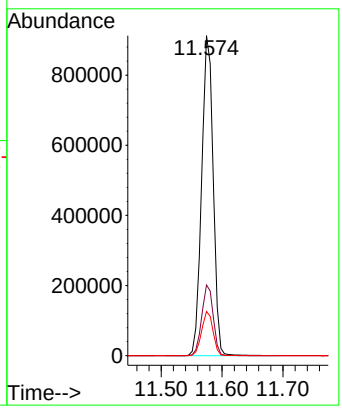


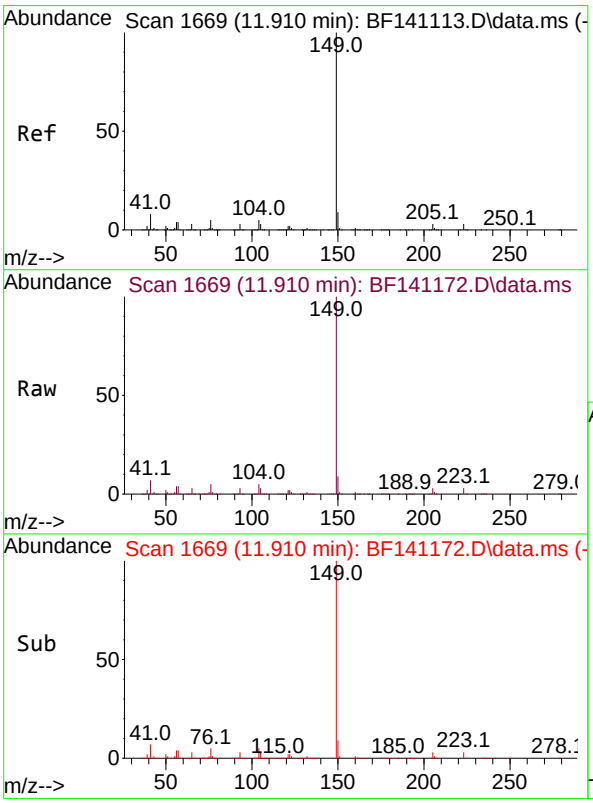
#73
Carbazole
Concen: 55.334 ng
RT: 11.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:167 Resp: 1198881

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.4	26.2
139	13.8	10.9	16.3

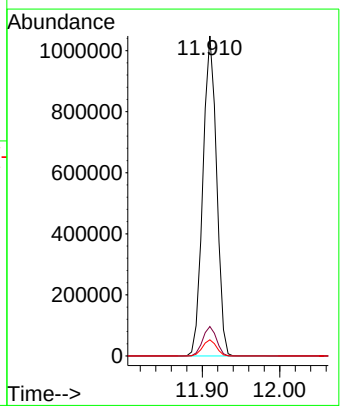


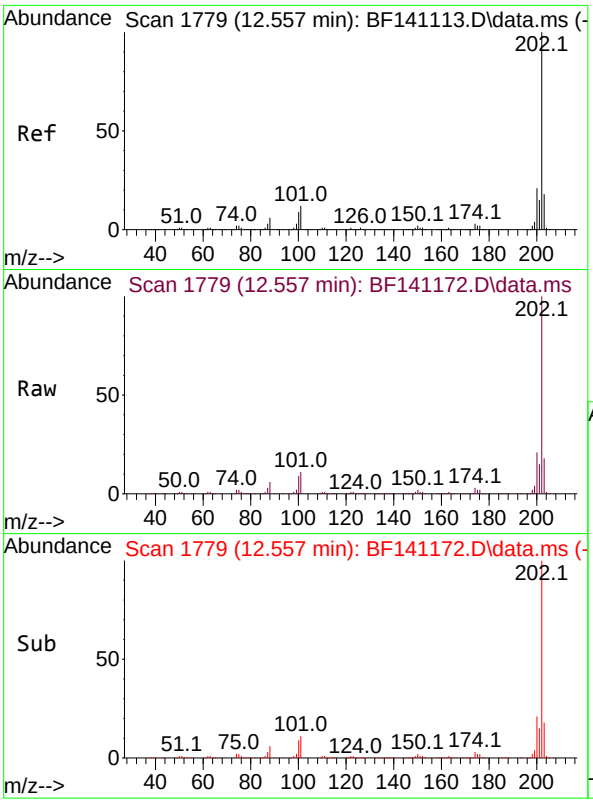


#74
Di-n-butylphthalate
Concen: 51.891 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 1286652

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.1	4.2	6.2



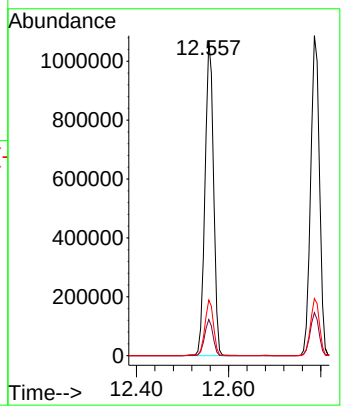


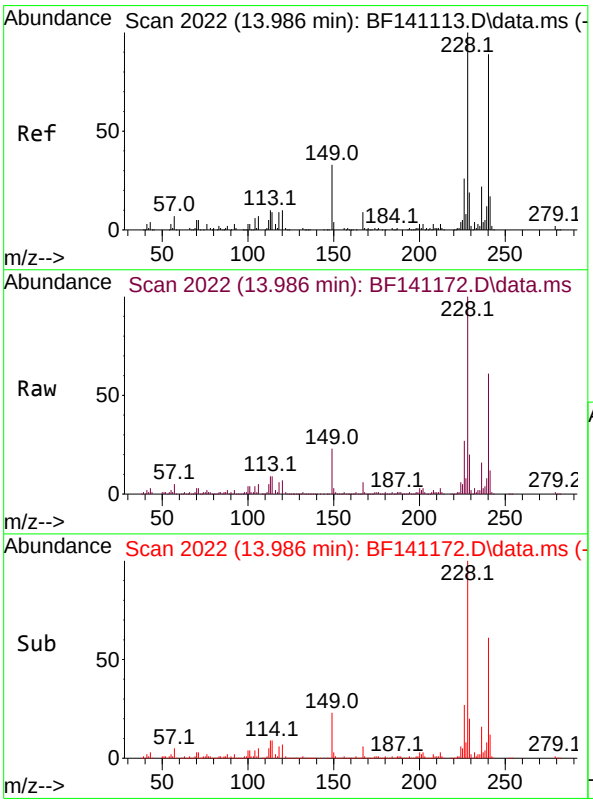
#75
Fluoranthene
Concen: 57.245 ng
RT: 12.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:202 Resp: 1388188

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.3
203	17.7	0.0	37.7

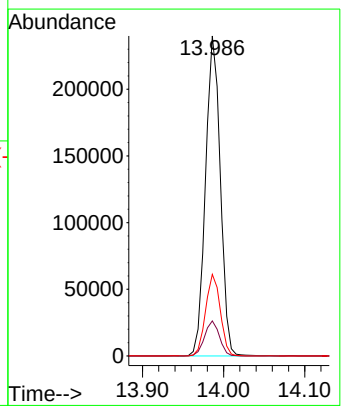


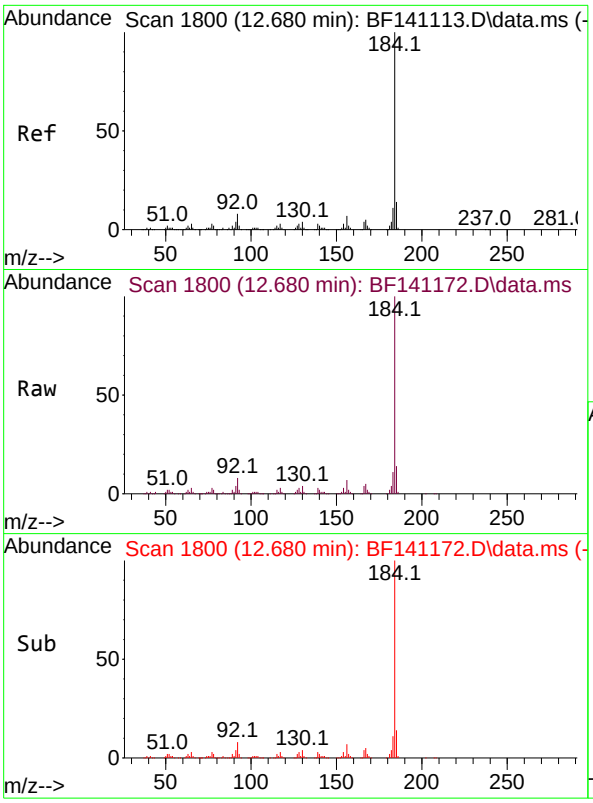


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:240 Resp: 303424

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.1	13.7
236	25.5	19.8	29.6



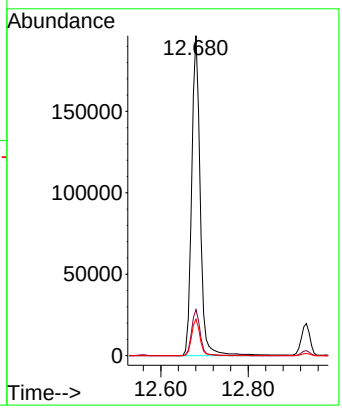


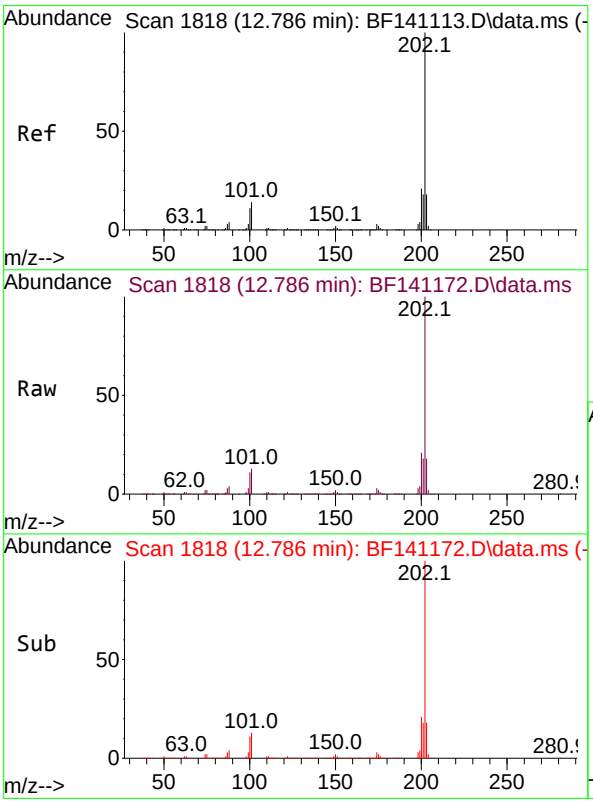
#77
Benzidine
Concen: 47.639 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:184 Resp: 268054

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.4	17.0
183	11.4	9.2	13.8

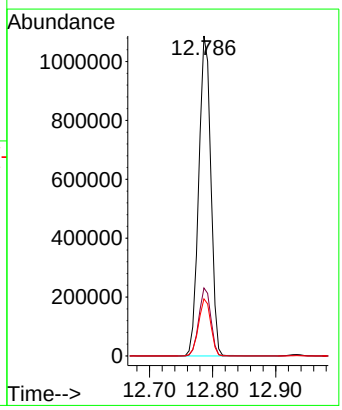


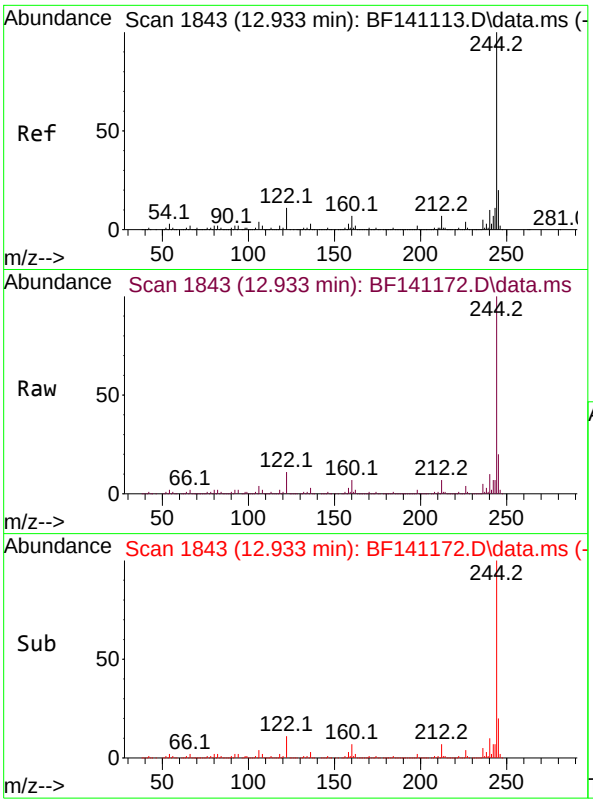


#78
Pyrene
Concen: 49.572 ng
RT: 12.786 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:202 Resp: 1436638

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.9	14.3	21.5



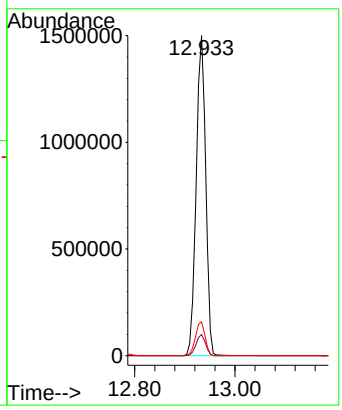


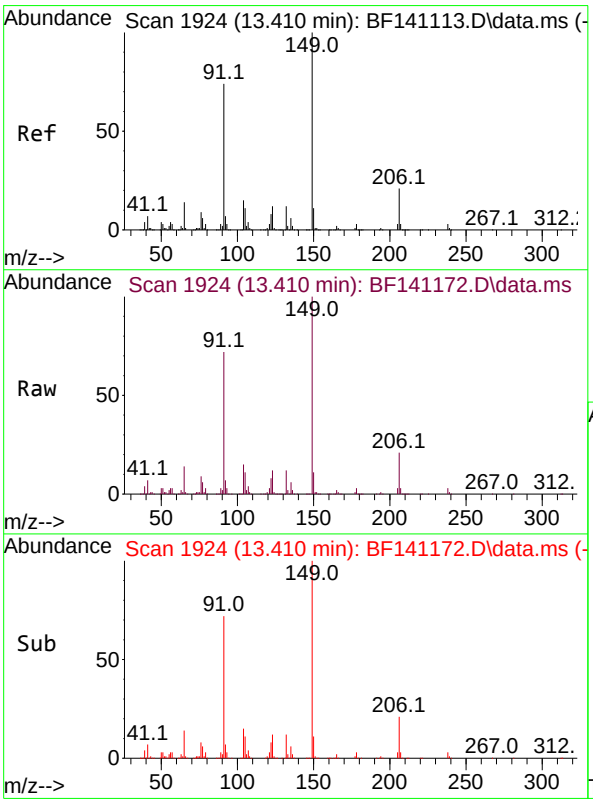
#79
Terphenyl-d14
Concen: 96.512 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:244 Resp: 1970268

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	10.5	8.8	13.2

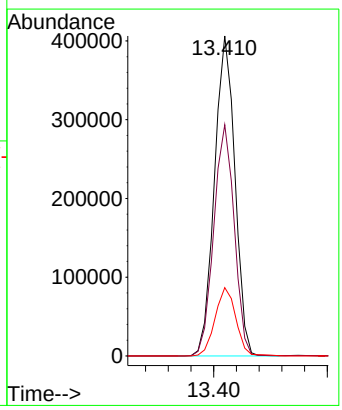


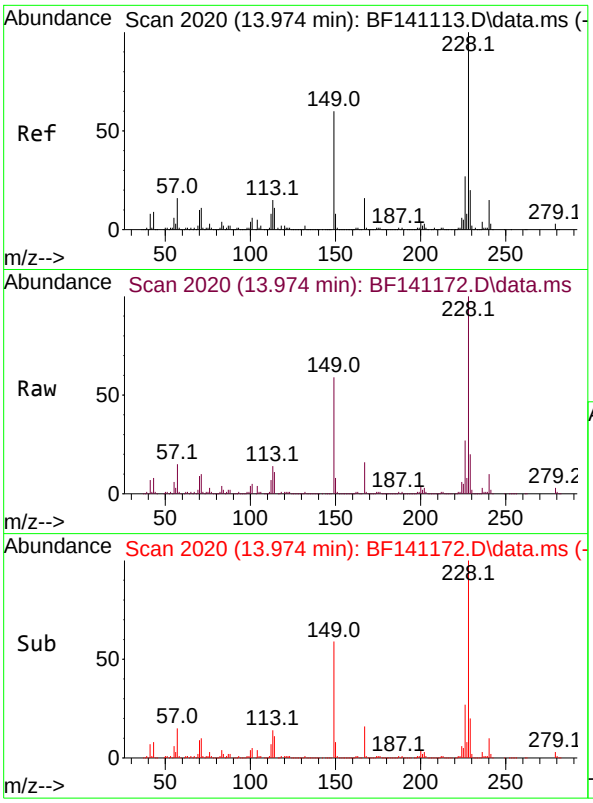


#80
Butylbenzylphthalate
Concen: 52.657 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 508795

Ion	Ratio	Lower	Upper
149	100		
91	72.2	59.0	88.6
206	21.3	16.5	24.7



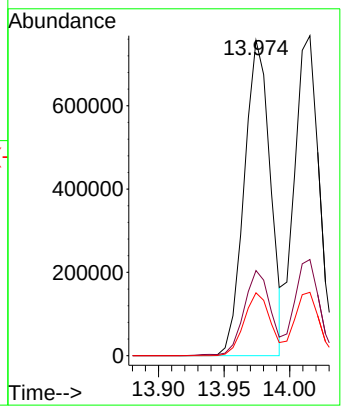


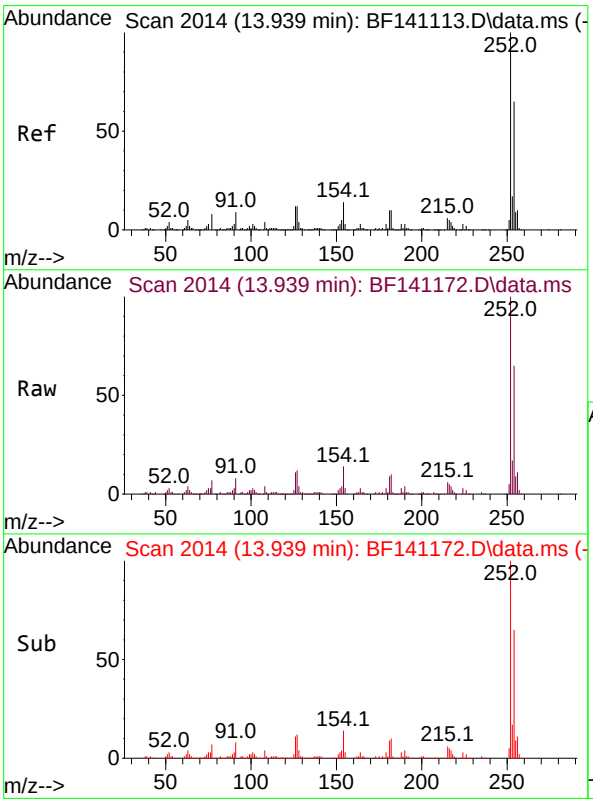
#81
Benzo(a)anthracene
Concen: 50.654 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:228 Resp: 1046000

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	20.0	15.7	23.5

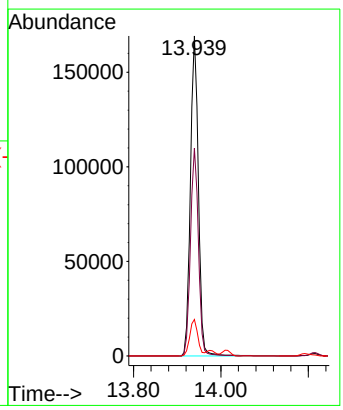


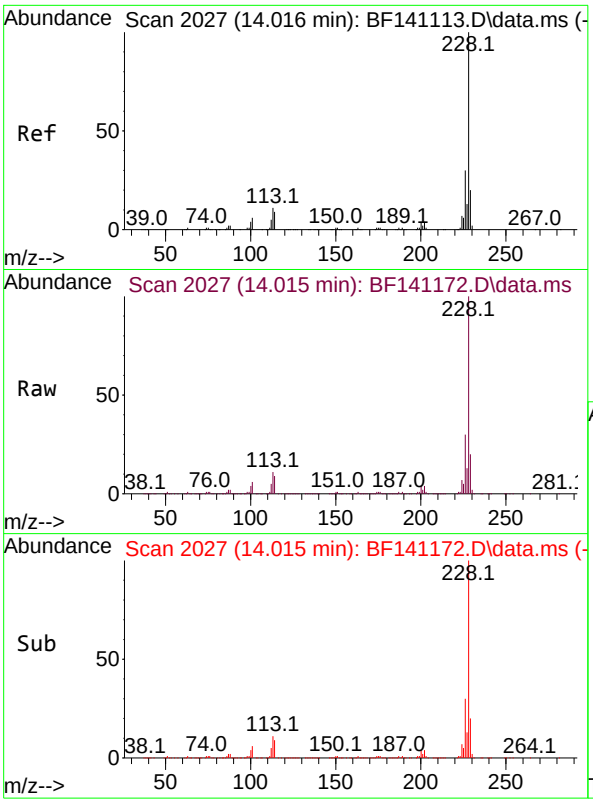


#82
3,3'-Dichlorobenzidine
Concen: 32.609 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:252 Resp: 214412

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.0	78.0
126	11.4	9.4	14.0



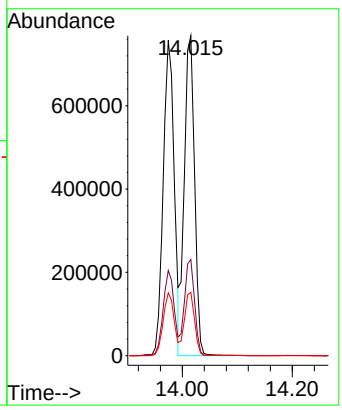


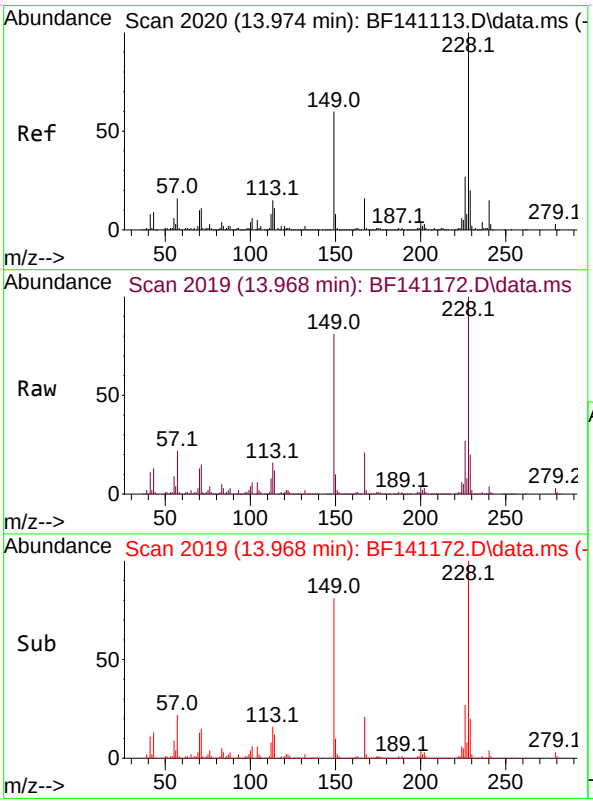
#83
Chrysene
Concen: 51.701 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:228 Resp: 998963

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	19.8	15.8	23.8

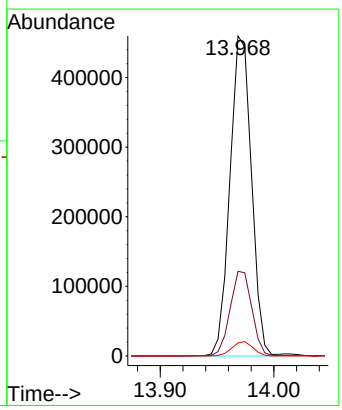


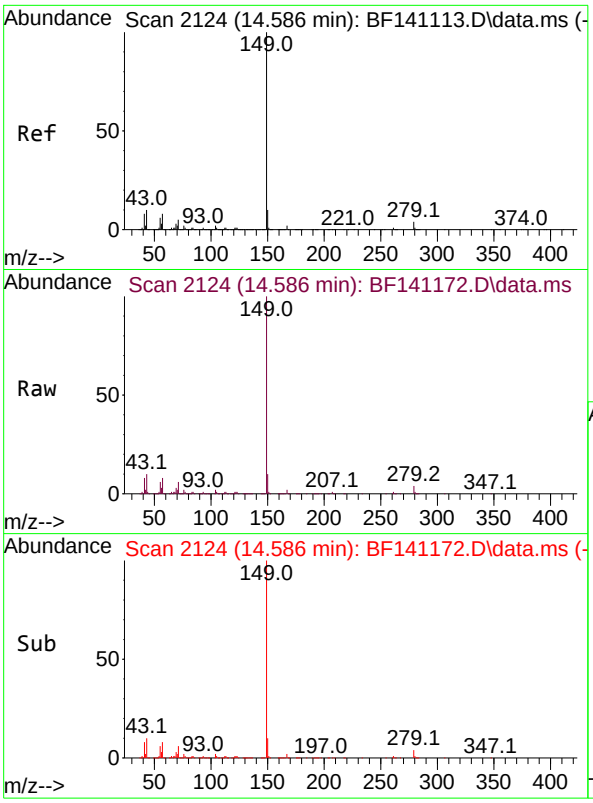


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.112 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 604164

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.2
279	4.1	3.4	5.2



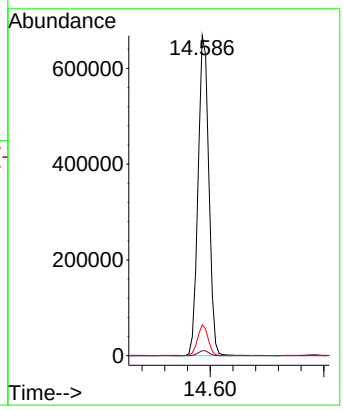


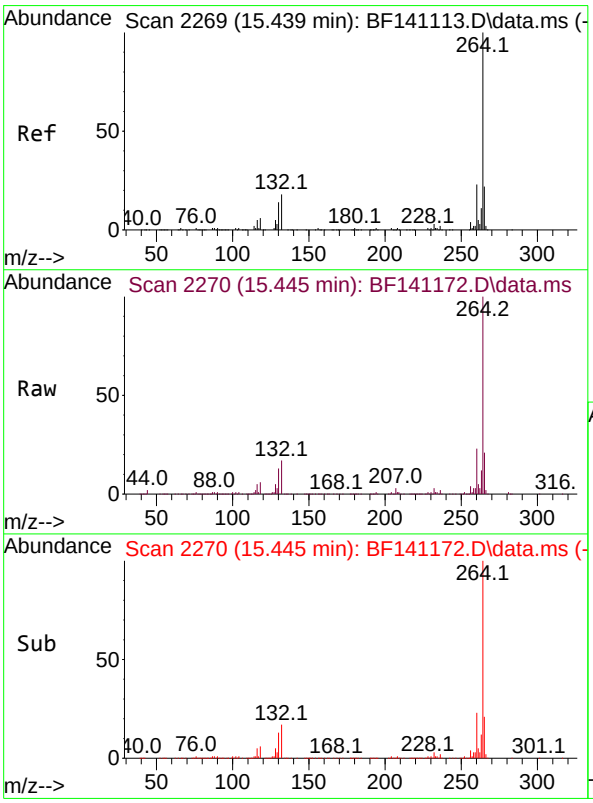
#85
Di-n-octyl phthalate
Concen: 50.327 ng
RT: 14.586 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:149 Resp: 881079

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.4	8.4	12.6

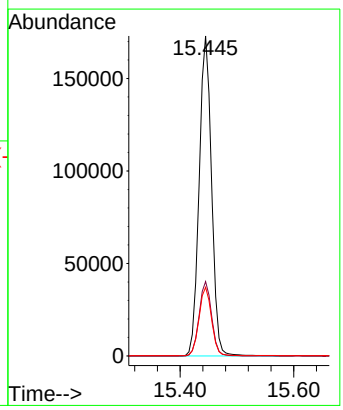


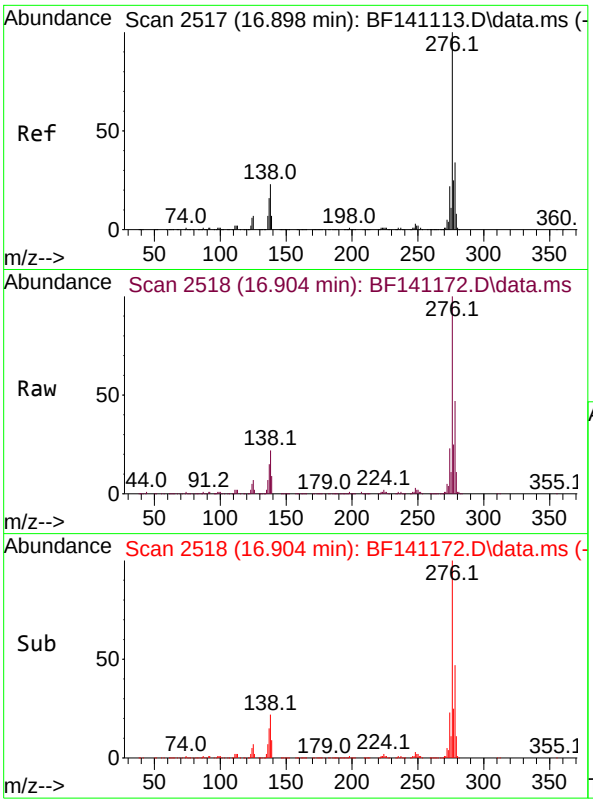


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.445 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:264 Resp: 262459

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.4	17.4	26.0



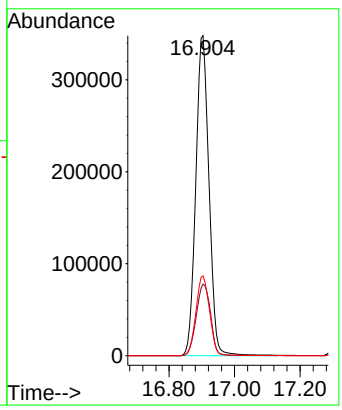


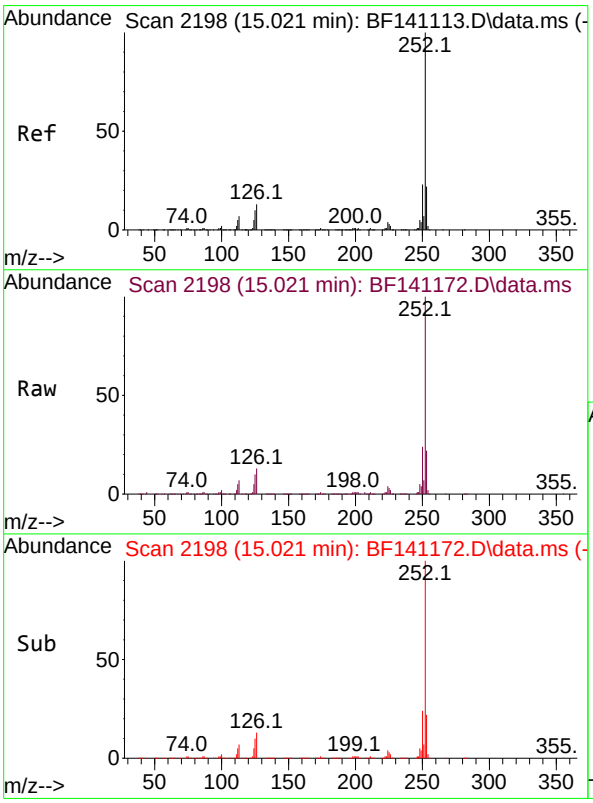
#87
Indeno(1,2,3-cd)pyrene
Concen: 50.722 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:276 Resp: 975311

Ion	Ratio	Lower	Upper
276	100		
138	24.2	20.7	31.1
277	25.8	20.6	30.8

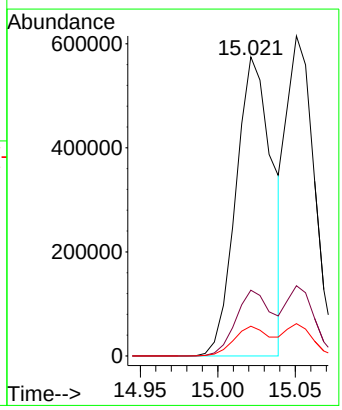


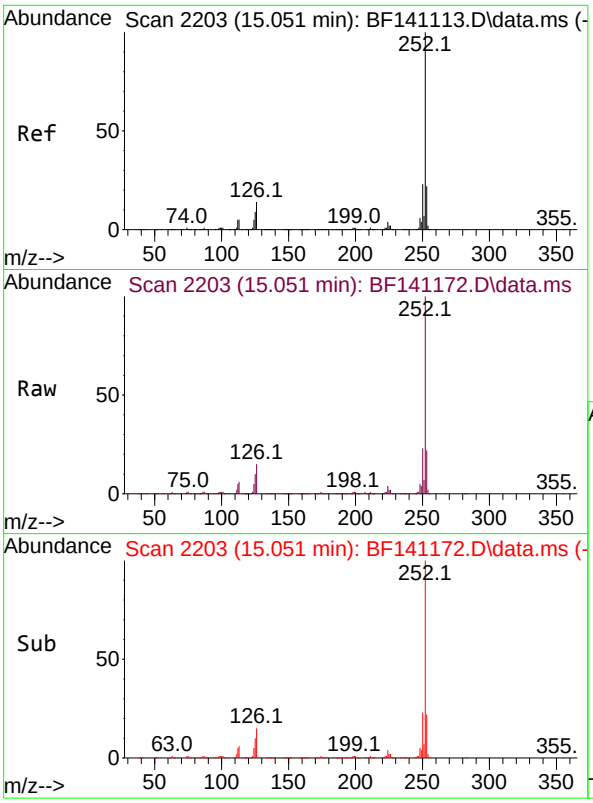


#88
Benzo(b)fluoranthene
Concen: 55.502 ng
RT: 15.021 min Scan# 2198
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:252 Resp: 939329

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	10.0	8.1	12.1



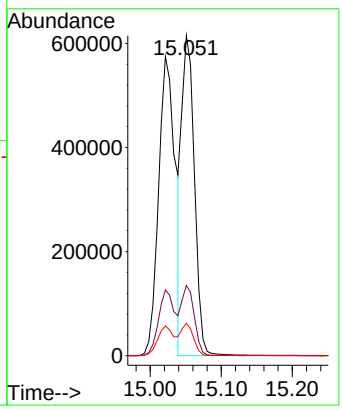


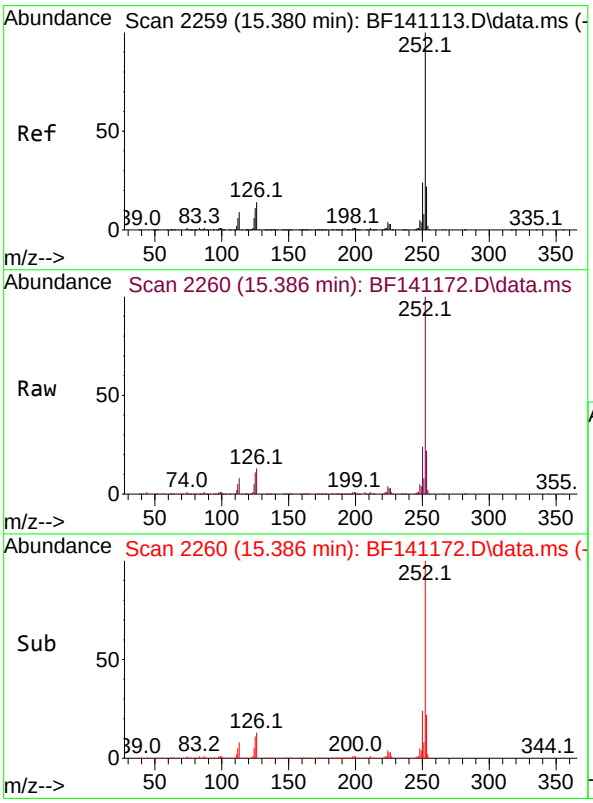
#89
Benzo(k)fluoranthene
Concen: 53.645 ng
RT: 15.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:252 Resp: 767255

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.1	7.9	11.9

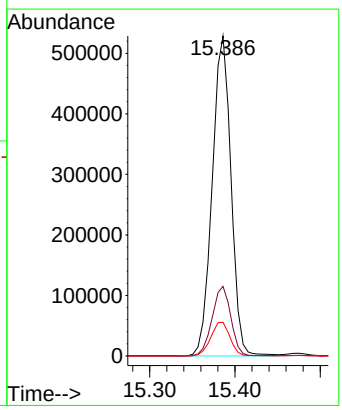


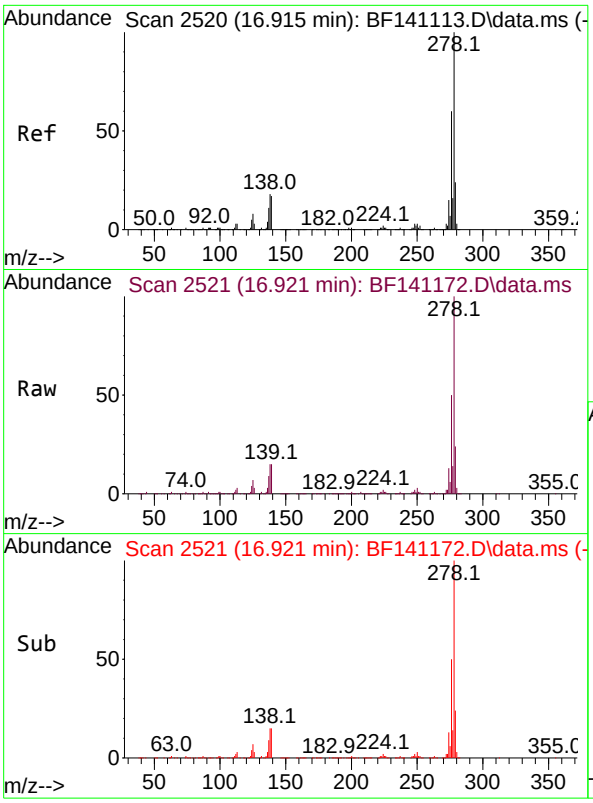


#90
Benzo(a)pyrene
Concen: 57.937 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:252 Resp: 809001

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	10.5	9.1	13.7



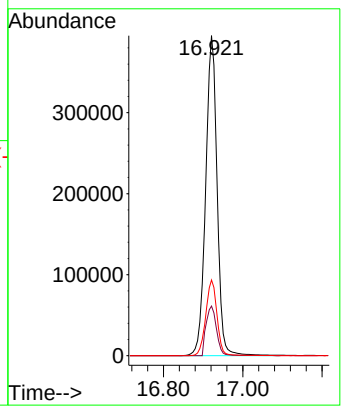


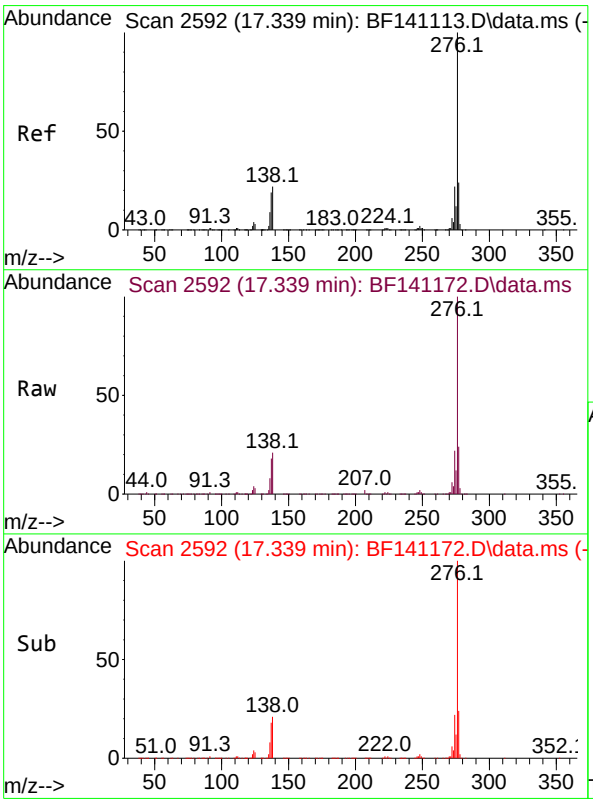
#91
Dibenzo(a,h)anthracene
Concen: 50.976 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:278 Resp: 792781

Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.8	20.6
279	23.7	19.1	28.7

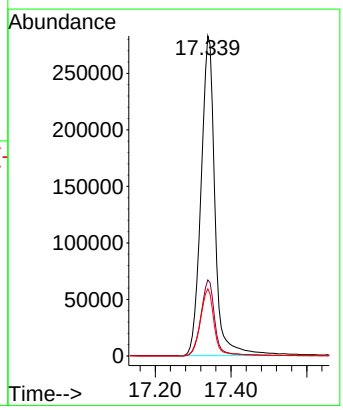




#92
Benzo(g,h,i)perylene
Concen: 44.709 ng
RT: 17.339 min Scan# 2592
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:276 Resp: 723237

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	21.0	17.4	26.2



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MS	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.04 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
BF141175.D	1	01/13/25 08:54	01/15/25 15:05	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	120	J	120	180	220	ug/Kg
108-95-2	Phenol	630		54.9	86.1	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	670		55.4	86.1	110	ug/Kg
95-57-8	2-Chlorophenol	620		55.3	86.1	110	ug/Kg
95-48-7	2-Methylphenol	640		53.4	86.1	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	640		60.2	86.1	110	ug/Kg
98-86-2	Acetophenone	690		57.6	86.1	110	ug/Kg
65794-96-9	3+4-Methylphenols	640		52.9	180	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	650		26.7	53.0	53.0	ug/Kg
67-72-1	Hexachloroethane	620		55.0	86.1	110	ug/Kg
98-95-3	Nitrobenzene	640		60.2	86.1	110	ug/Kg
78-59-1	Isophorone	700		56.0	86.1	110	ug/Kg
88-75-5	2-Nitrophenol	530		62.6	86.1	110	ug/Kg
105-67-9	2,4-Dimethylphenol	790		61.7	86.1	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	690		56.8	86.1	110	ug/Kg
120-83-2	2,4-Dichlorophenol	600		50.0	86.1	110	ug/Kg
91-20-3	Naphthalene	690		54.7	86.1	110	ug/Kg
106-47-8	4-Chloroaniline	250		54.7	86.1	110	ug/Kg
87-68-3	Hexachlorobutadiene	650		55.2	86.1	110	ug/Kg
105-60-2	Caprolactam	580		57.5	180	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	620		51.3	86.1	110	ug/Kg
91-57-6	2-Methylnaphthalene	680		54.7	86.1	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	1400		100	180	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	380		47.3	86.1	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	490		49.0	86.1	110	ug/Kg
92-52-4	1,1-Biphenyl	740		57.9	86.1	110	ug/Kg
91-58-7	2-Chloronaphthalene	680		55.2	86.1	110	ug/Kg
88-74-4	2-Nitroaniline	690		62.9	86.1	110	ug/Kg
131-11-3	Dimethylphthalate	730		54.1	86.1	110	ug/Kg

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MS	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.04 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
BF141175.D	1	01/13/25 08:54	01/15/25 15:05	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	850		57.3	86.1	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	650		55.1	86.1	110	ug/Kg
99-09-2	3-Nitroaniline	500		59.1	86.1	110	ug/Kg
83-32-9	Acenaphthene	670		53.7	86.1	110	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	160	180	220	ug/Kg
100-02-7	4-Nitrophenol	460		76.8	180	220	ug/Kg
132-64-9	Dibenzofuran	680		55.9	86.1	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	620		57.1	86.1	110	ug/Kg
84-66-2	Diethylphthalate	690		53.1	86.1	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	660		56.7	86.1	110	ug/Kg
86-73-7	Fluorene	680		56.6	86.1	110	ug/Kg
100-01-6	4-Nitroaniline	530		70.9	86.1	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	J	77.5	180	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	840		54.1	86.1	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	800		52.3	86.1	110	ug/Kg
118-74-1	Hexachlorobenzene	740		56.3	86.1	110	ug/Kg
1912-24-9	Atrazine	980		60.5	86.1	110	ug/Kg
87-86-5	Pentachlorophenol	530		51.2	180	220	ug/Kg
85-01-8	Phenanthrene	880		55.6	86.1	110	ug/Kg
120-12-7	Anthracene	880		55.9	86.1	110	ug/Kg
86-74-8	Carbazole	730		53.2	86.1	110	ug/Kg
84-74-2	Di-n-butylphthalate	790		55.8	86.1	110	ug/Kg
206-44-0	Fluoranthene	1000		54.1	86.1	110	ug/Kg
129-00-0	Pyrene	750		55.0	86.1	110	ug/Kg
85-68-7	Butylbenzylphthalate	610		64.1	86.1	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	450		65.3	180	220	ug/Kg
56-55-3	Benzo(a)anthracene	920		53.5	86.1	110	ug/Kg
218-01-9	Chrysene	830		52.7	86.1	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	710		60.3	86.1	110	ug/Kg
117-84-0	Di-n-octyl phthalate	860		72.9	180	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	990		53.7	86.1	110	ug/Kg

Raw Data: **BF141175.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MS	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.04 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
BF141175.D	1	01/13/25 08:54	01/15/25 15:05	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	910		54.7	86.1	110	ug/Kg
50-32-8	Benzo(a)pyrene	1100		61.6	86.1	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	660		51.7	86.1	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	550		53.8	86.1	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	690		53.1	86.1	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	740		57.5	86.1	110	ug/Kg
123-91-1	1,4-Dioxane	530		72.9	86.1	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	250		49.5	86.1	110	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	69.8		35 - 115		47%	SPK: 150
13127-88-3	Phenol-d6	80.8		34 - 127		54%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.4		37 - 122		61%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		44 - 115		66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	33.3	*	39 - 132		22%	SPK: 150
1718-51-0	Terphenyl-d14	45.4	*	54 - 127		45%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.822				
1146-65-2	Naphthalene-d8	561000	8.104				
15067-26-2	Acenaphthene-d10	265000	9.857				
1517-22-2	Phenanthrene-d10	350000	11.345				
1719-03-5	Chrysene-d12	323000	13.986				
1520-96-3	Perylene-d12	315000	15.451				

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\BF011525\
Data File : BF141175.D
Acq On : 15 Jan 2025 15:05
Operator : RC/JU
Sample : Q1068-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Quant Time: Jan 15 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	151239	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	561441	20.000	ng		0.00
39) Acenaphthene-d10	9.857	164	265282	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	349564	20.000	ng		0.00
76) Chrysene-d12	13.986	240	322664	20.000	ng		0.00
86) Perylene-d12	15.451	264	314686	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	683044	69.768	ng		0.00
7) Phenol-d6	6.445	99	1001559	80.762	ng		0.00
23) Nitrobenzene-d5	7.381	82	649918	61.362	ng		0.00
42) 2,4,6-Tribromophenol	10.645	330	100774	33.339	ng		0.00
45) 2-Fluorobiphenyl	9.180	172	1143953	65.849	ng		0.00
79) Terphenyl-d14	12.933	244	984818	45.364	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	105406	24.177	ng		99
3) Pyridine	3.316	79	252917	23.657	ng		96
4) n-Nitrosodimethylamine	3.257	42	146758	28.074	ng		100
6) Aniline	6.481	93	159952	14.527	ng		96
8) 2-Chlorophenol	6.604	128	293315	27.925	ng		97
9) Benzaldehyde	6.369	77	40960	5.608	ng		95
10) Phenol	6.463	94	379203	28.565	ng		99
11) bis(2-Chloroethyl)ether	6.557	93	298559	30.178	ng		96
12) 1,3-Dichlorobenzene	6.763	146	323049	27.576	ng		99
13) 1,4-Dichlorobenzene	6.839	146	327369	27.731	ng		100
14) 1,2-Dichlorobenzene	6.992	146	311743	28.310	ng		97
15) Benzyl Alcohol	6.957	79	271930	30.363	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.098	45	397871	28.820	ng		97
17) 2-Methylphenol	7.069	107	245642	28.967	ng		99
18) Hexachloroethane	7.334	117	120353	28.192	ng		99
19) n-Nitroso-di-n-propyla...	7.234	70	215674	29.523	ng		98
20) 3+4-Methylphenols	7.222	107	309253	28.906	ng	#	87
22) Acetophenone	7.228	105	419952	31.465	ng		97
24) Nitrobenzene	7.404	77	320631	29.046	ng		99
25) Isophorone	7.639	82	574003	31.712	ng		99
26) 2-Nitrophenol	7.716	139	120397	23.977	ng		97
27) 2,4-Dimethylphenol	7.751	122	241988	35.728	ng		98
28) bis(2-Chloroethoxy)met...	7.851	93	355223	31.271	ng		99
29) 2,4-Dichlorophenol	7.957	162	217566	27.047	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	263047	28.609	ng		100
31) Naphthalene	8.128	128	918606	31.026	ng		100
32) Benzoic acid	7.857	122	8091m	1.245	ng		
33) 4-Chloroaniline	8.175	127	115343	11.264	ng		99
34) Hexachlorobutadiene	8.245	225	162534	29.337	ng		99
35) Caprolactam	8.516	113	69129	26.249	ng		95
36) 4-Chloro-3-methylphenol	8.651	107	246845	28.059	ng		99
37) 2-Methylnaphthalene	8.816	142	578514	30.662	ng		99
38) 1-Methylnaphthalene	8.916	142	536900	28.874	ng		99
40) 1,2,4,5-Tetrachloroben...	8.980	216	255628	33.573	ng		99
41) Hexachlorocyclopentadiene	8.969	237	159842	64.166	ng		99
43) 2,4,6-Trichlorophenol	9.092	196	88165	17.169	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141175.D
Acq On : 15 Jan 2025 15:05
Operator : RC/JU
Sample : Q1068-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Quant Time: Jan 15 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

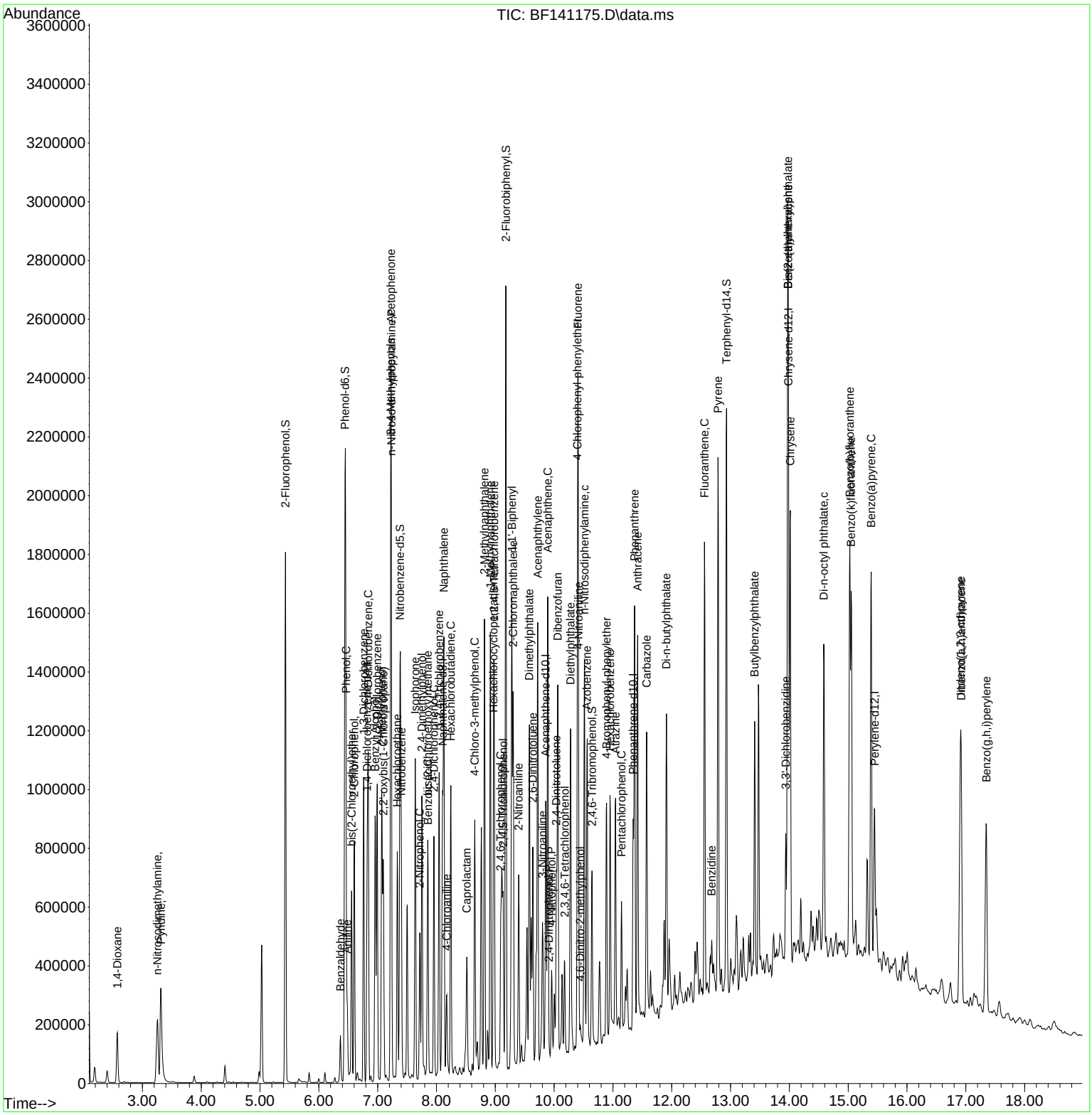
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	119487	22.032	ng		98
46) 1,1'-Biphenyl	9.280	154	690480	33.515	ng		99
47) 2-Chloronaphthalene	9.304	162	495753	30.895	ng		100
48) 2-Nitroaniline	9.398	65	149394	31.408	ng		98
49) Acenaphthylene	9.722	152	877645	38.283	ng		100
50) Dimethylphthalate	9.580	163	590143	33.137	ng		100
51) 2,6-Dinitrotoluene	9.639	165	122290	29.528	ng		94
52) Acenaphthene	9.892	154	485274	30.298	ng		100
53) 3-Nitroaniline	9.804	138	94941	22.559	ng		98
54) 2,4-Dinitrophenol	9.910	184	6772	3.440	ng	#	1
55) Dibenzofuran	10.063	168	667349	30.632	ng		99
56) 4-Nitrophenol	9.957	139	68610	20.816	ng		96
57) 2,4-Dinitrotoluene	10.039	165	150510	28.200	ng		100
58) Fluorene	10.404	166	518351	30.626	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	51375	11.396	ng	#	99
60) Diethylphthalate	10.280	149	543883	31.282	ng		100
61) 4-Chlorophenyl-phenyle...	10.398	204	247267	29.974	ng		97
62) 4-Nitroaniline	10.416	138	99151	24.070	ng		99
63) Azobenzene	10.557	77	532827	31.058	ng		99
65) 4,6-Dinitro-2-methylph...	10.445	198	12033	5.940	ng		81
66) n-Nitrosodiphenylamine	10.516	169	431187	38.243	ng		100
67) 4-Bromophenyl-phenylether	10.892	248	145801	36.228	ng		99
68) Hexachlorobenzene	10.951	284	150906	33.684	ng		98
69) Atrazine	11.045	200	134509	44.306	ng		100
70) Pentachlorophenol	11.145	266	68531	23.886	ng		99
71) Phenanthrene	11.369	178	746258	39.764	ng		99
72) Anthracene	11.422	178	727636	39.875	ng		99
73) Carbazole	11.574	167	555900	33.223	ng		100
74) Di-n-butylphthalate	11.910	149	684830	35.764	ng		100
75) Fluoranthene	12.557	202	867978	46.347	ng		99
77) Benzidine	12.680	184	98399	16.445	ng	#	95
78) Pyrene	12.786	202	1043972	33.875	ng		99
80) Butylbenzylphthalate	13.410	149	282822	27.525	ng		100
81) Benzo(a)anthracene	13.980	228	914236	41.633	ng		95
82) 3,3'-Dichlorobenzidine	13.939	252	141773	20.276	ng		99
83) Chrysene	14.015	228	771864	37.566	ng		98
84) Bis(2-ethylhexyl)phtha...	13.974	149	394268	31.980	ng		100
85) Di-n-octyl phthalate	14.586	149	724119	38.895	ng		98
87) Indeno(1,2,3-cd)pyrene	16.909	276	685937	29.752	ng		96
88) Benzo(b)fluoranthene	15.027	252	906206	44.658	ng		100
89) Benzo(k)fluoranthene	15.051	252	706586m	41.204	ng		
90) Benzo(a)pyrene	15.392	252	834847	49.865	ng		99
91) Dibenzo(a,h)anthracene	16.921	278	468043	25.100	ng		99
92) Benzo(g,h,i)perylene	17.351	276	603676	31.124	ng		98

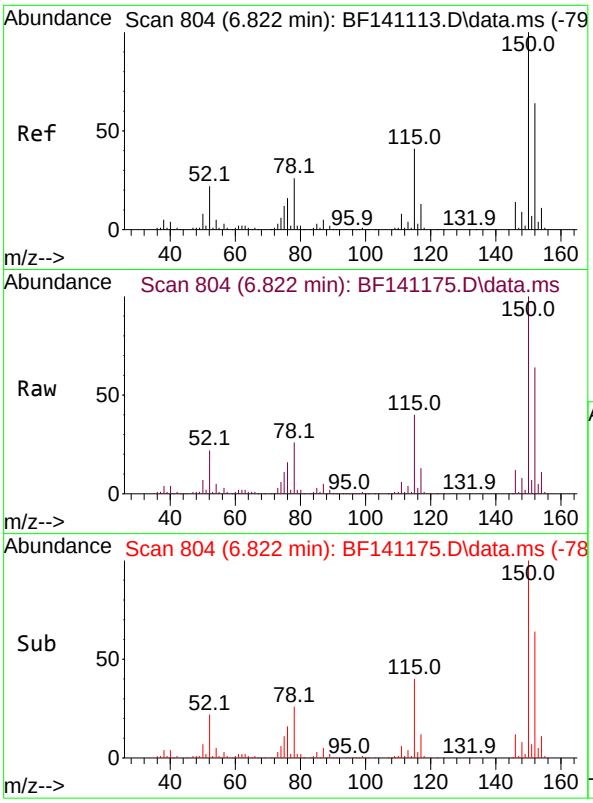
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141175.D
Acq On : 15 Jan 2025 15:05
Operator : RC/JU
Sample : Q1068-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Quant Time: Jan 15 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



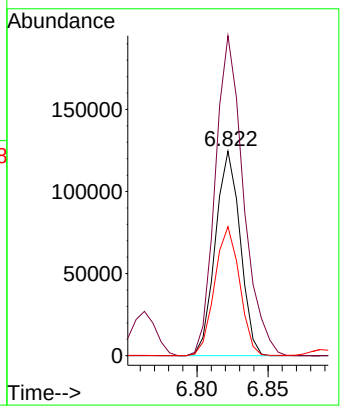


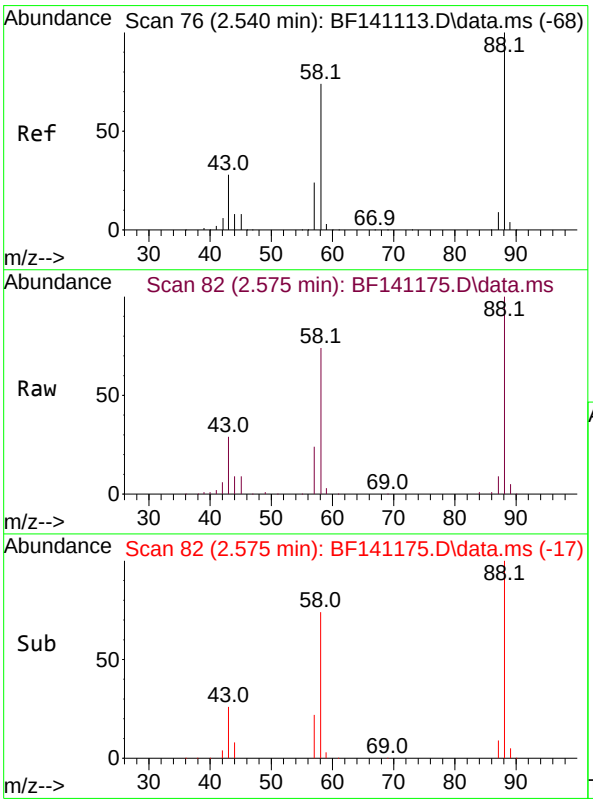
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:152 Resp: 151239

Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.8	188.8
115	63.1	51.4	77.2

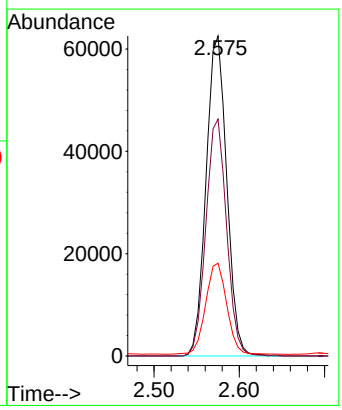


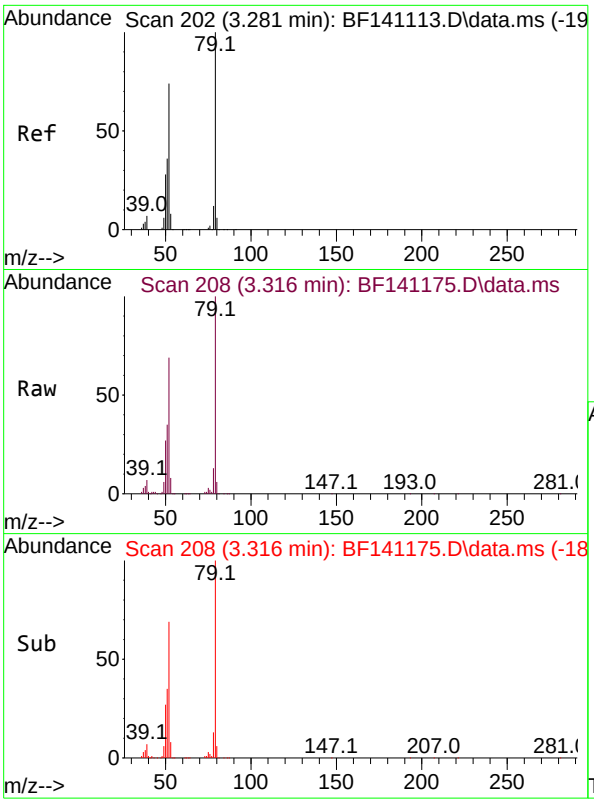


#2
1,4-Dioxane
Concen: 24.177 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.035 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 88 Resp: 105406

Ion	Ratio	Lower	Upper
88	100		
58	74.0	60.1	90.1
43	29.0	23.1	34.7



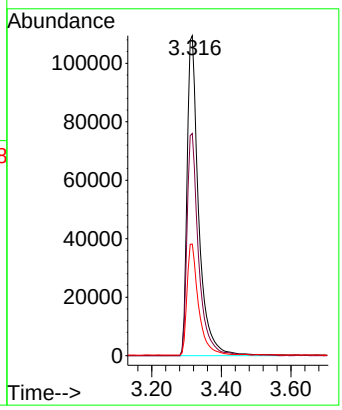


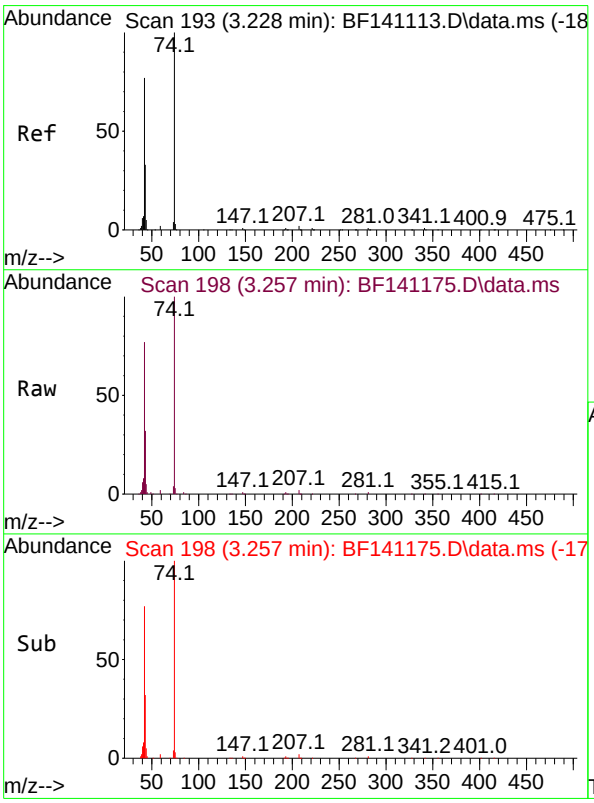
#3
Pyridine
Concen: 23.657 ng
RT: 3.316 min Scan# 2(
Delta R.T. 0.035 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 79 Resp: 252917

Ion	Ratio	Lower	Upper
79	100		
52	69.5	58.9	88.3
51	34.9	29.1	43.7

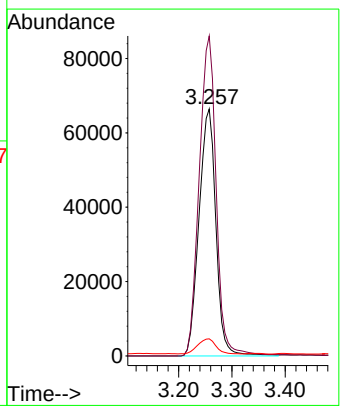


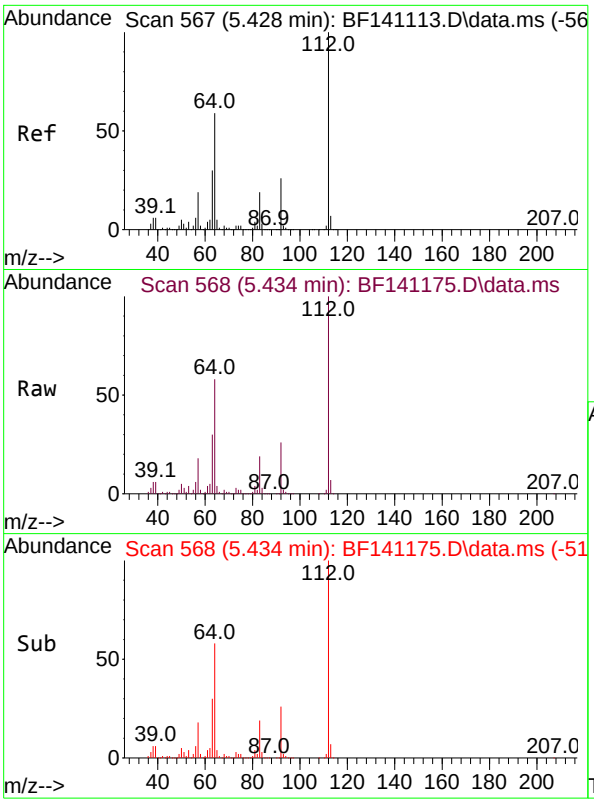


#4
n-Nitrosodimethylamine
Concen: 28.074 ng
RT: 3.257 min Scan# 198
Delta R.T. 0.029 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 42 Resp: 146758

Ion	Ratio	Lower	Upper
42	100		
74	129.6	103.8	155.6
44	6.9	5.3	7.9



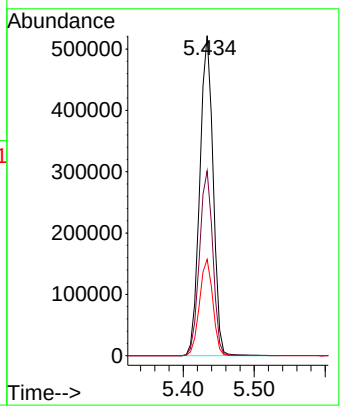


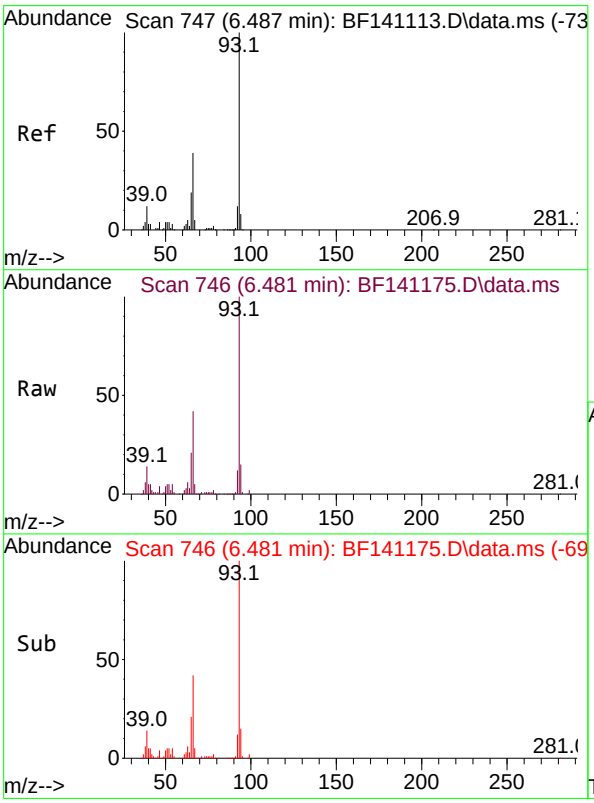
#5
2-Fluorophenol
Concen: 69.768 ng
RT: 5.434 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:112 Resp: 683044

Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.3	70.9
63	30.1	24.2	36.2

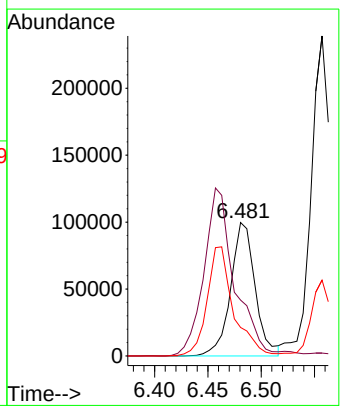


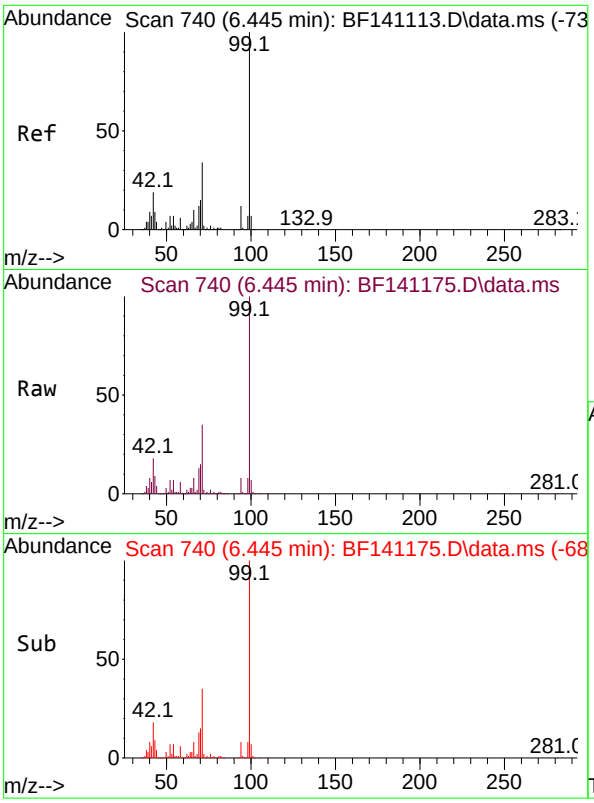


#6
Aniline
Concen: 14.527 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 93 Resp: 159952

Ion	Ratio	Lower	Upper
93	100		
66	41.8	31.5	47.3
65	21.3	15.3	22.9



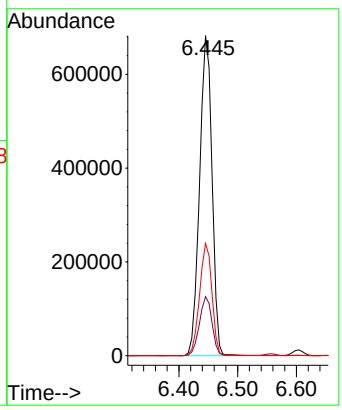


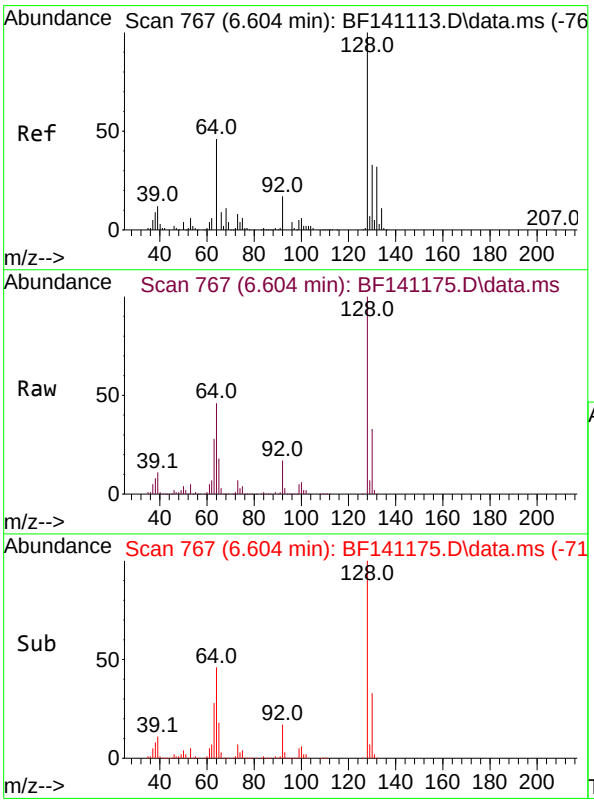
#7
Phenol-d6
Concen: 80.762 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 99 Resp: 1001559

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.0	22.4
71	35.1	27.6	41.4

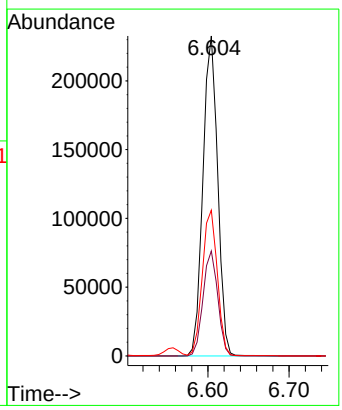


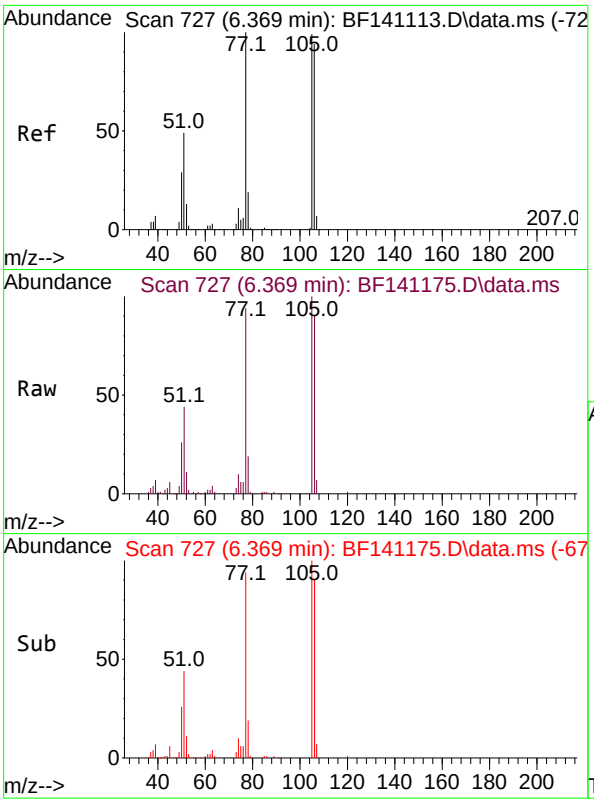


#8
2-Chlorophenol
Concen: 27.925 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:128 Resp: 293315

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.5	52.5
64	45.6	28.3	68.3



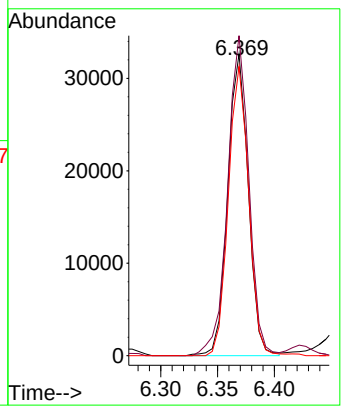


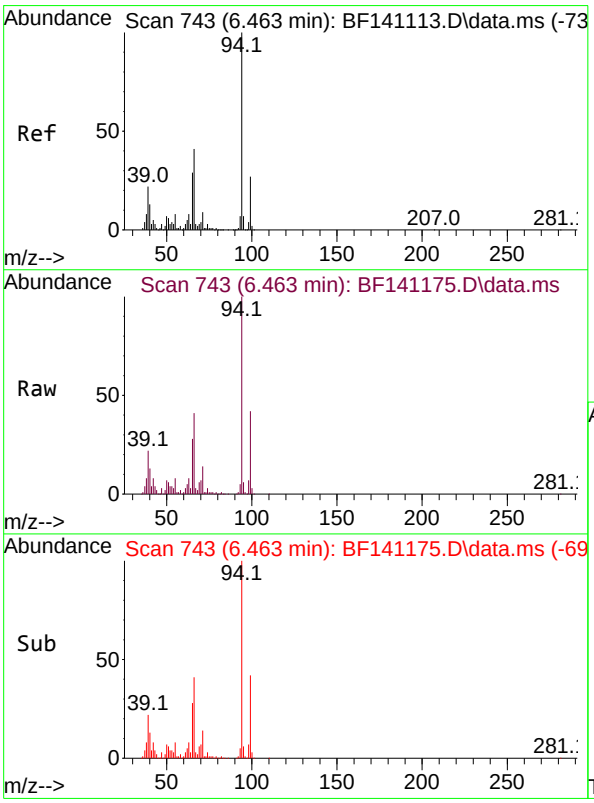
#9
Benzaldehyde
Concen: 5.608 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 77 Resp: 40960

Ion	Ratio	Lower	Upper
77	100		
105	106.0	78.9	118.9
106	95.8	73.6	113.6

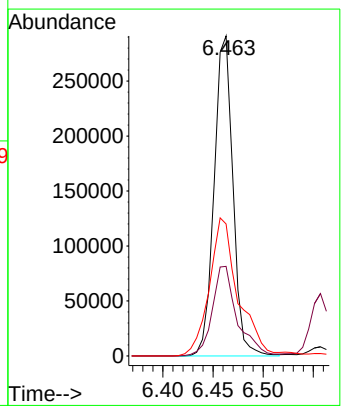


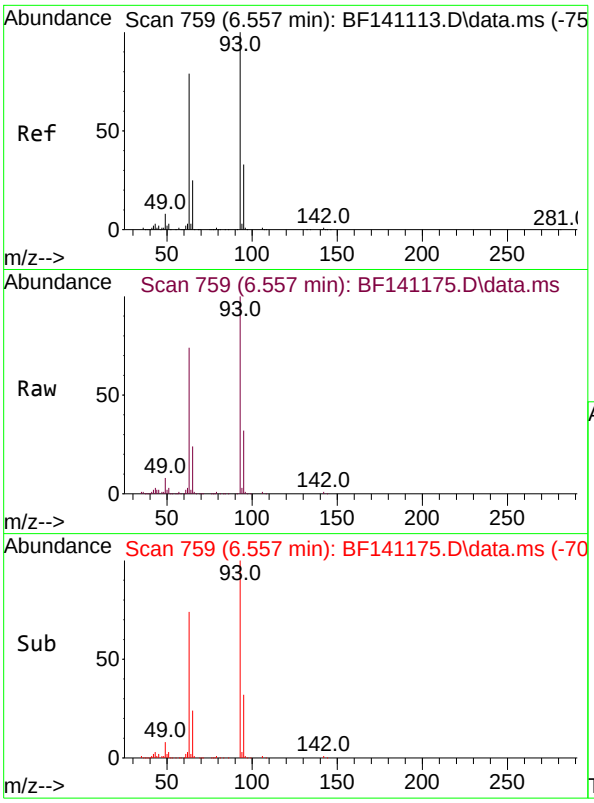


#10
Phenol
Concen: 28.565 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 94 Resp: 379203

Ion	Ratio	Lower	Upper
94	100		
65	28.0	8.9	48.9
66	41.3	21.2	61.2



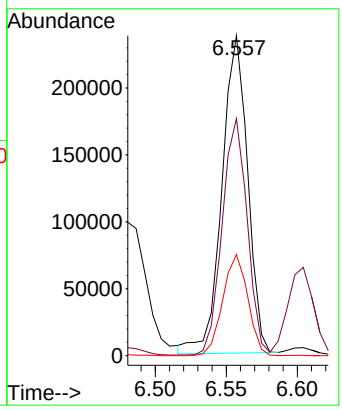


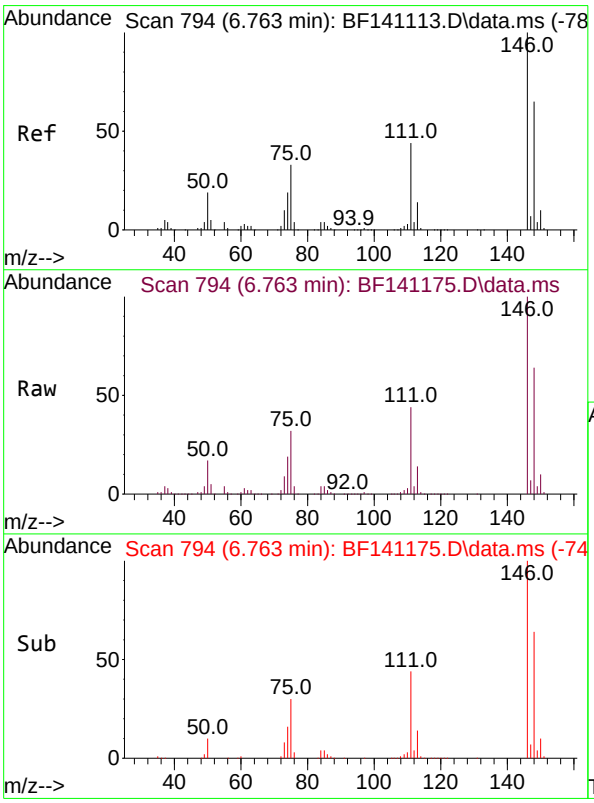
#11
bis(2-Chloroethyl)ether
Concen: 30.178 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 93 Resp: 298559

Ion	Ratio	Lower	Upper
93	100		
63	74.1	58.0	98.0
95	31.6	12.5	52.5

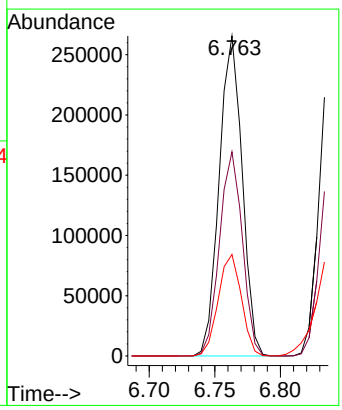


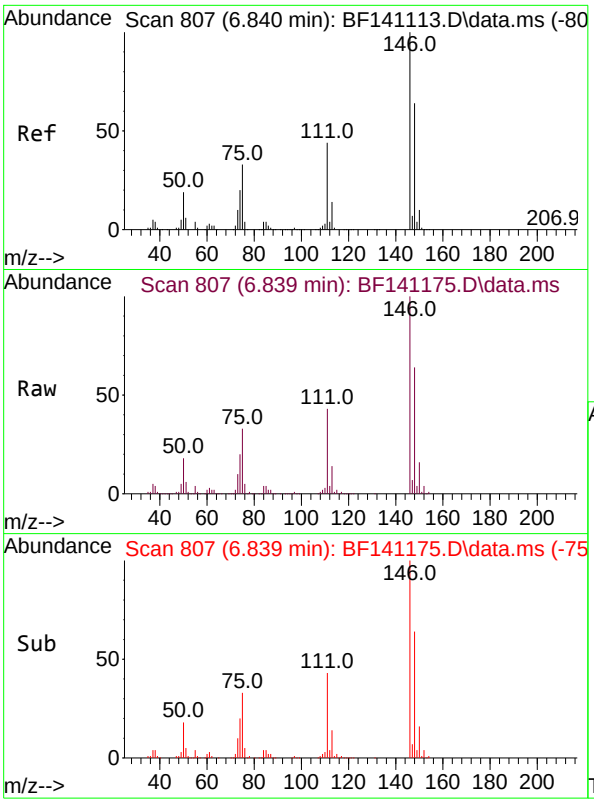


#12
1,3-Dichlorobenzene
Concen: 27.576 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:146 Resp: 323049

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.6	77.4
75	31.7	26.2	39.2



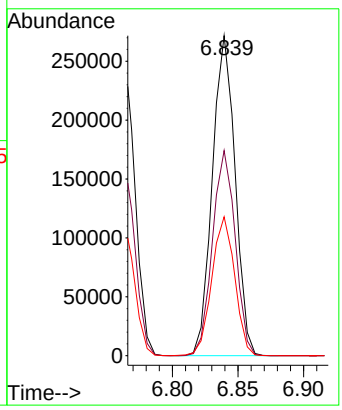


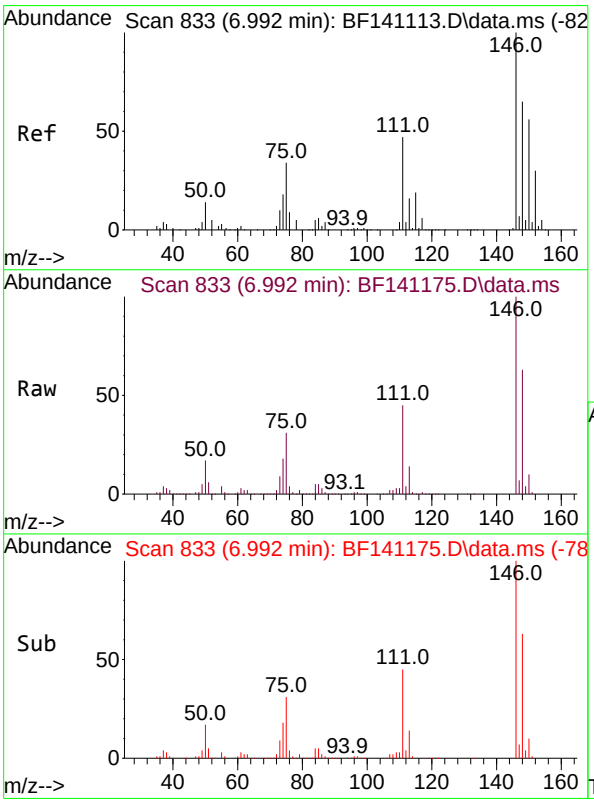
#13
1,4-Dichlorobenzene
Concen: 27.731 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:146 Resp: 327369

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	43.4	34.9	52.3

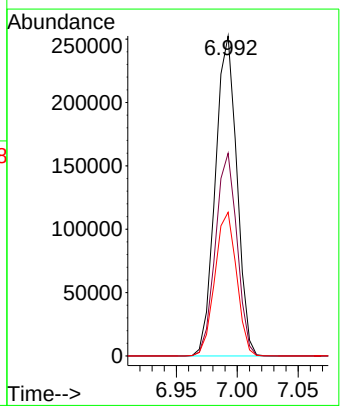


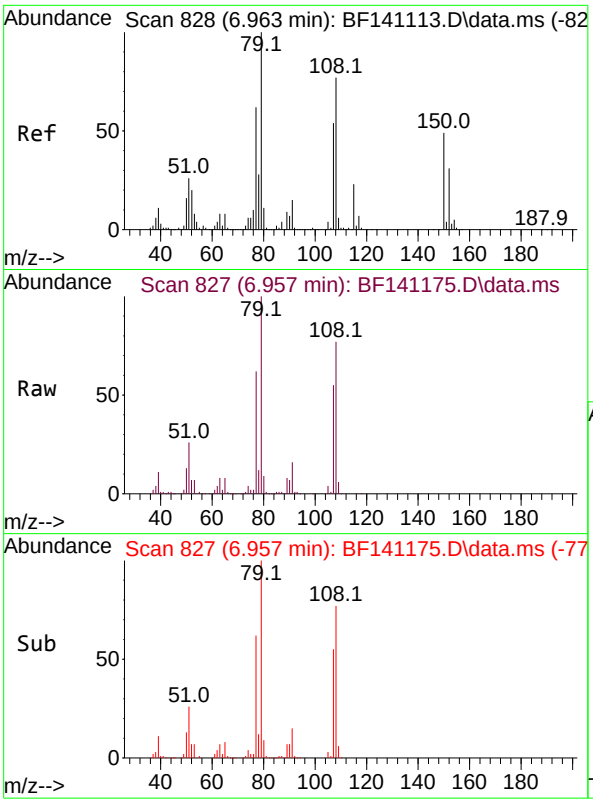


#14
1,2-Dichlorobenzene
Concen: 28.310 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:146 Resp: 311743

Ion	Ratio	Lower	Upper
146	100		
148	63.3	52.2	78.4
111	44.9	37.5	56.3



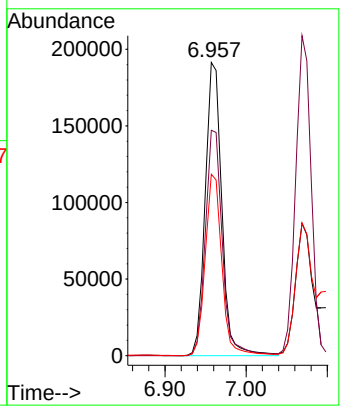


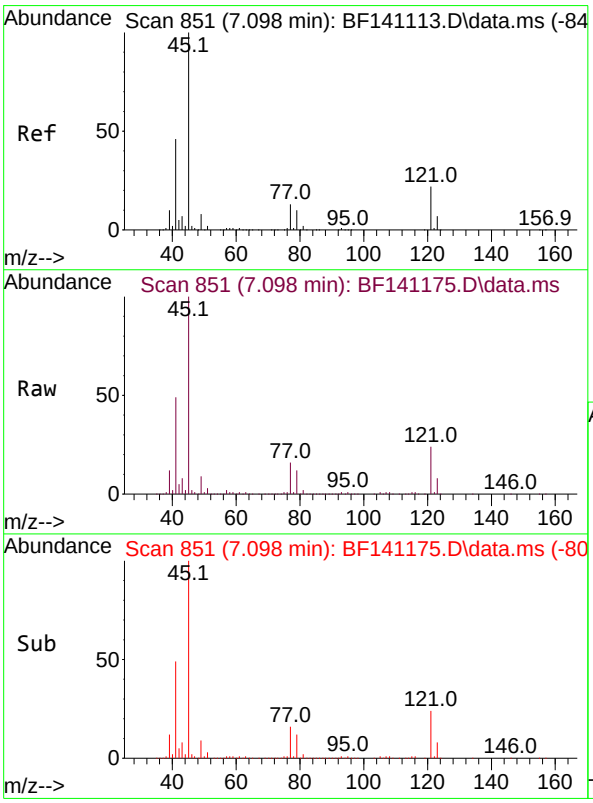
#15
Benzyl Alcohol
Concen: 30.363 ng
RT: 6.957 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 79 Resp: 271930

Ion	Ratio	Lower	Upper
79	100		
108	76.9	61.4	92.0
77	61.8	49.8	74.6

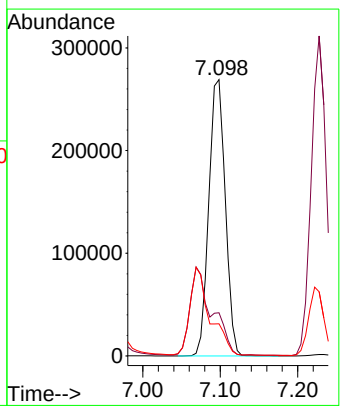


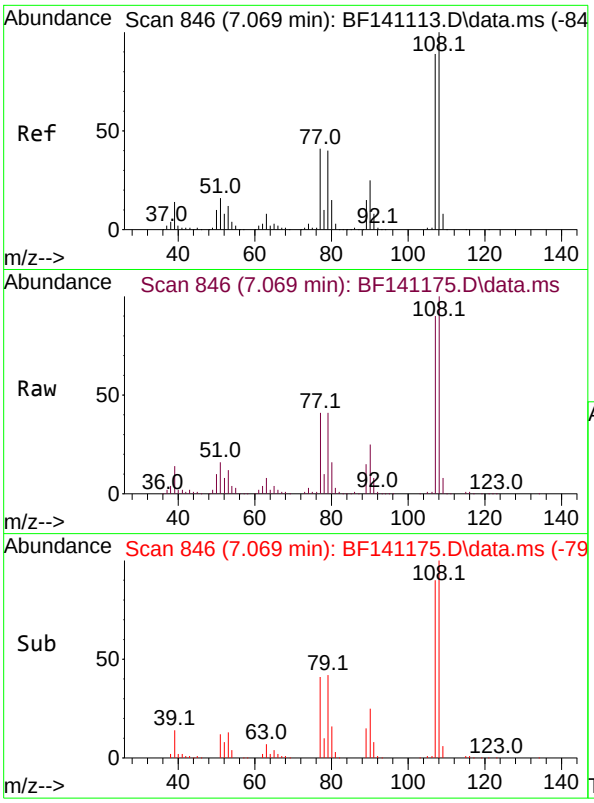


#16
2,2'-oxybis(1-Chloropropane)
Concen: 28.820 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 45 Resp: 397871

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.1
79	11.6	0.0	31.0



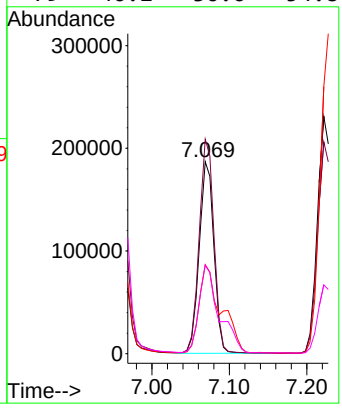


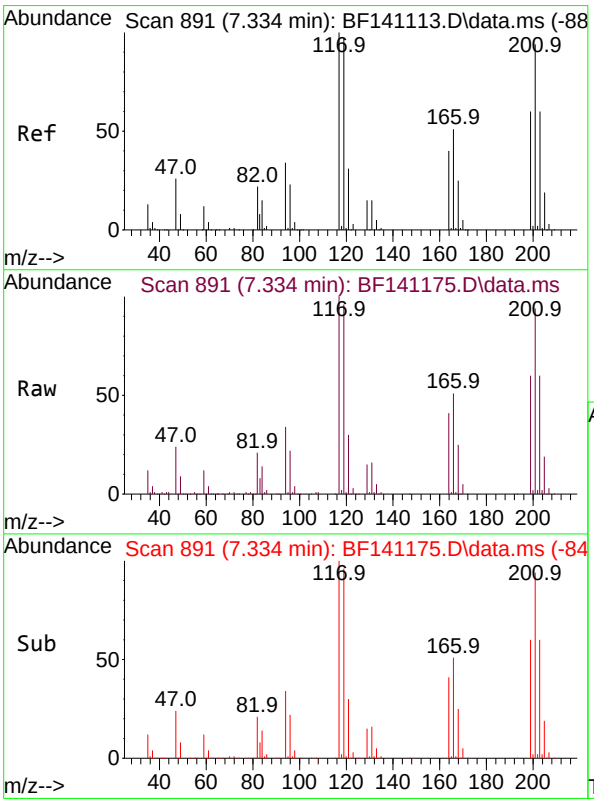
#17
2-Methylphenol
Concen: 28.967 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:107 Resp: 245642

Ion	Ratio	Lower	Upper
107	100		
108	111.7	90.1	135.1
77	46.3	36.6	55.0
79	46.2	36.6	54.8

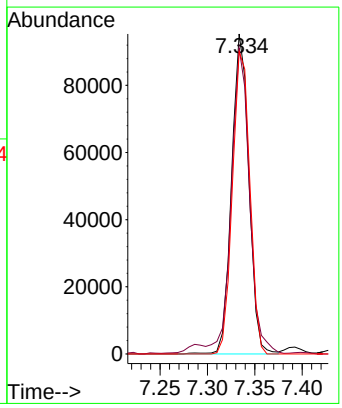


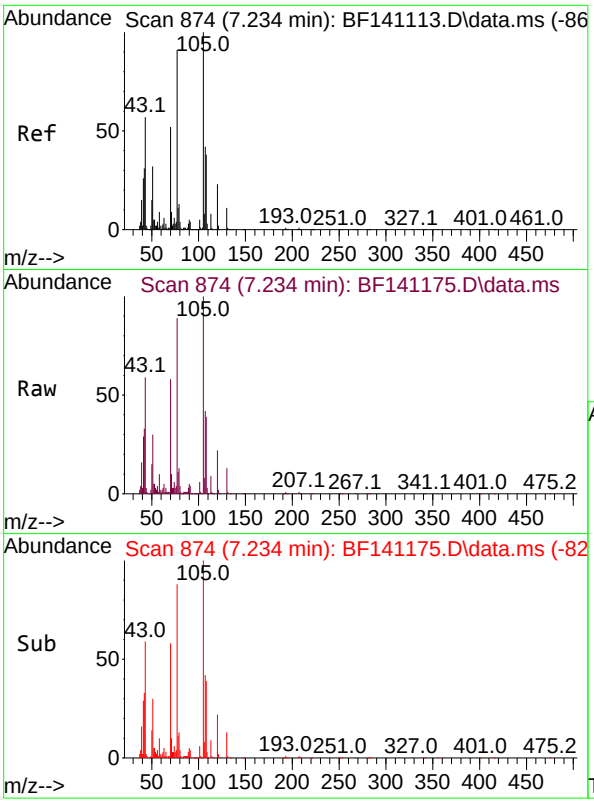


#18
Hexachloroethane
Concen: 28.192 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:117 Resp: 120353

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.6	116.4
201	94.5	75.1	112.7



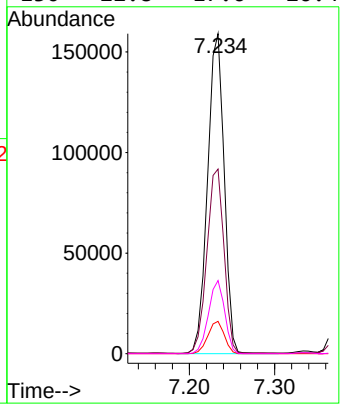


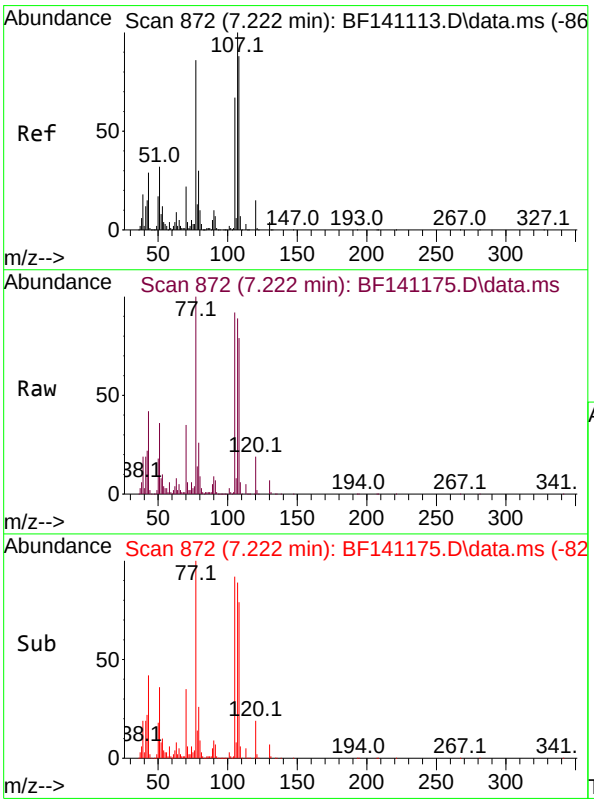
#19
n-Nitroso-di-n-propylamine
Concen: 29.523 ng
RT: 7.234 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 70 Resp: 215674

Ion	Ratio	Lower	Upper
70	100		
42	57.7	47.8	71.6
101	10.1	7.9	11.9
130	22.8	17.6	26.4

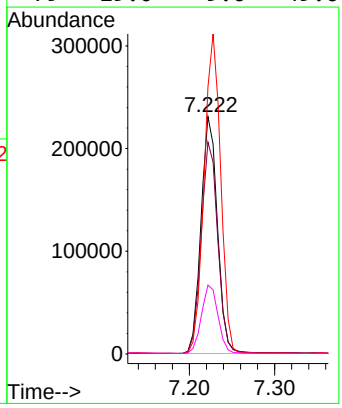


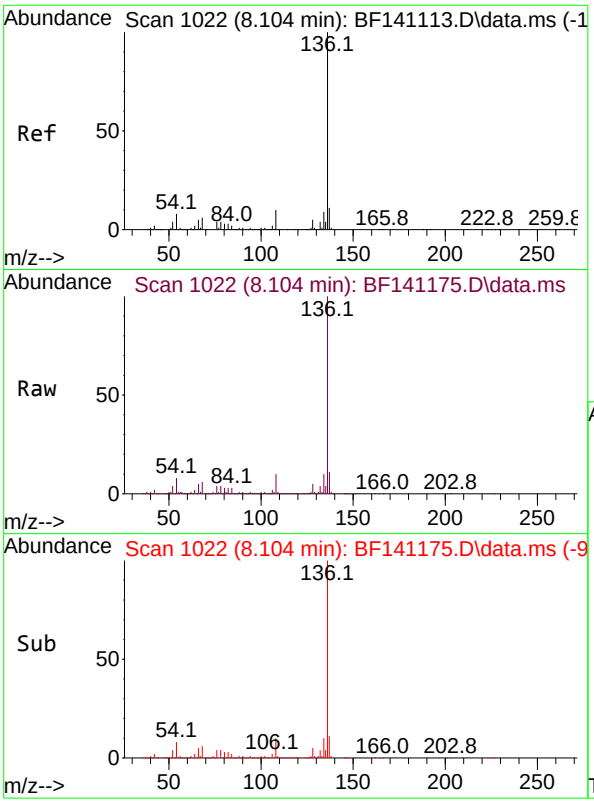


#20
3+4-Methylphenols
Concen: 28.906 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:107 Resp: 309253

Ion	Ratio	Lower	Upper
107	100		
108	89.3	68.3	108.3
77	112.6	66.4	106.4#
79	29.0	9.6	49.6



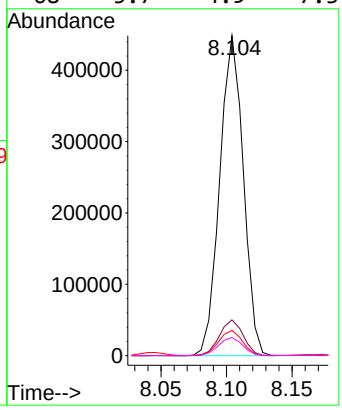


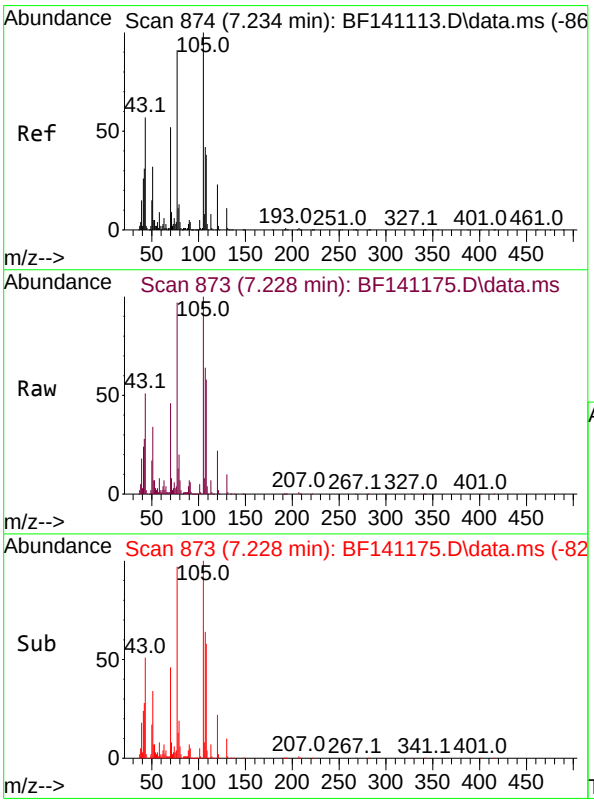
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:136 Resp: 561441

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	7.9	6.3	9.5
68	5.7	4.9	7.3

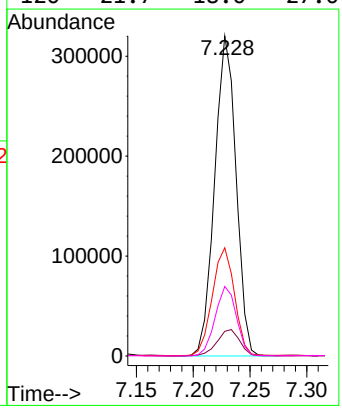


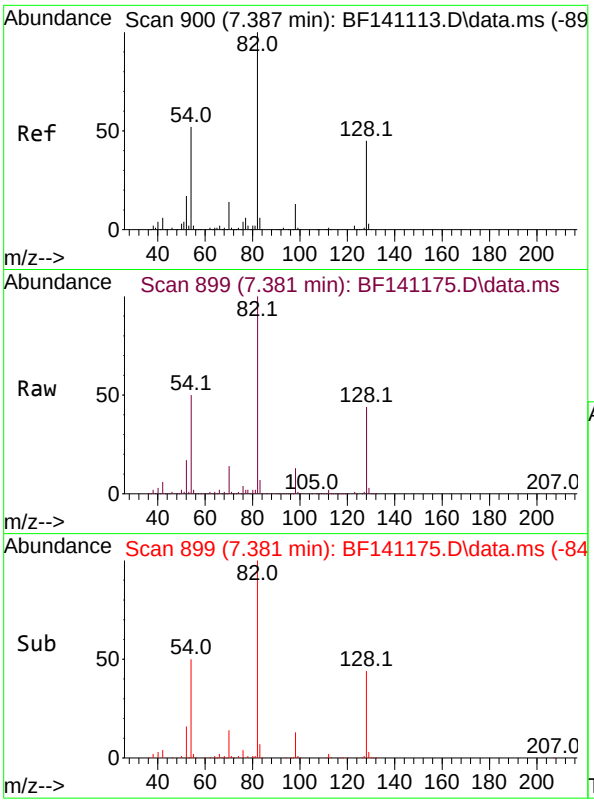


#22
Acetophenone
Concen: 31.465 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:105 Resp: 419952

Ion	Ratio	Lower	Upper
105	100		
71	7.7	7.1	10.7
51	33.8	25.4	38.2
120	21.7	18.0	27.0



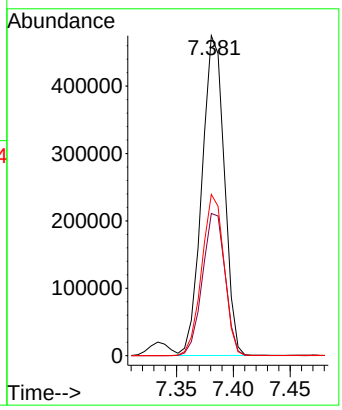


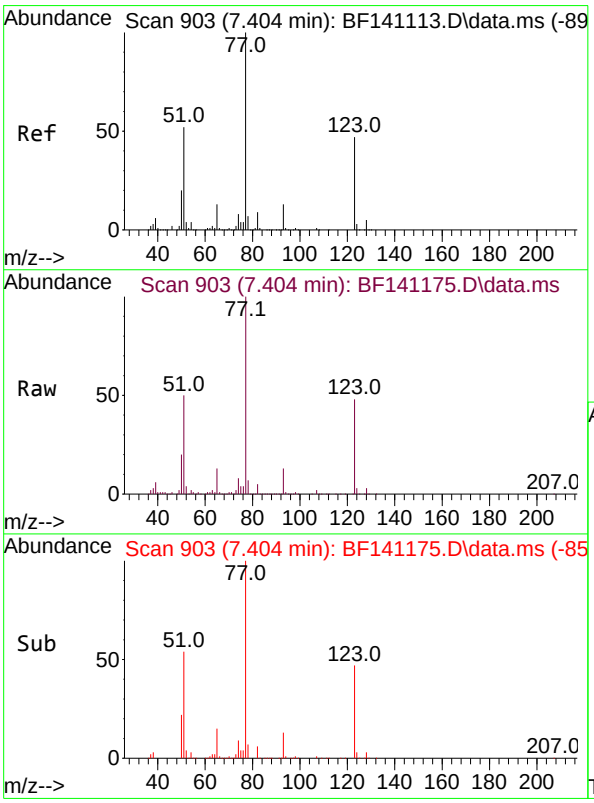
#23
Nitrobenzene-d5
Concen: 61.362 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 82 Resp: 649918

Ion	Ratio	Lower	Upper
82	100		
128	44.4	36.1	54.1
54	50.4	41.0	61.4

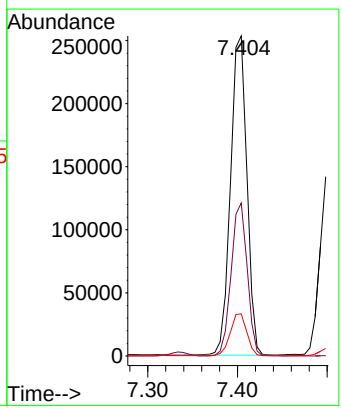


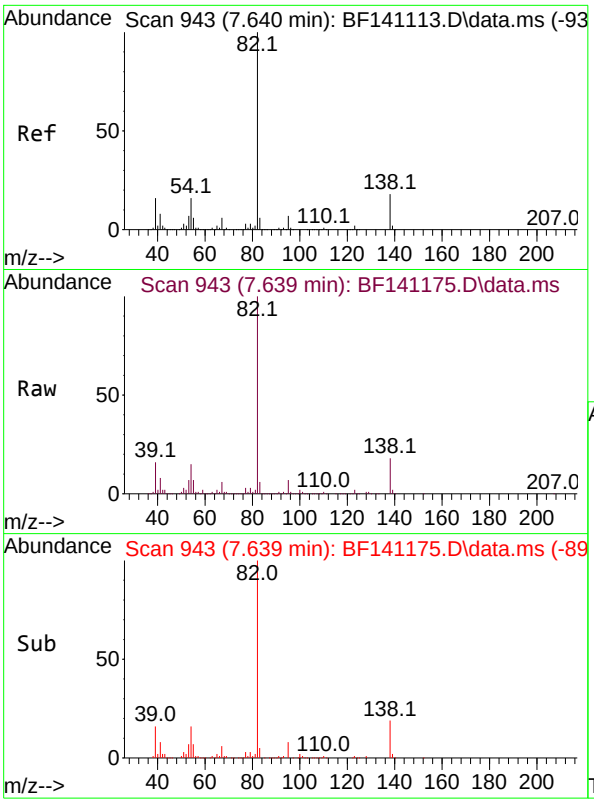


#24
Nitrobenzene
Concen: 29.046 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 77 Resp: 320631

Ion	Ratio	Lower	Upper
77	100		
123	47.8	37.7	56.5
65	13.2	10.6	16.0



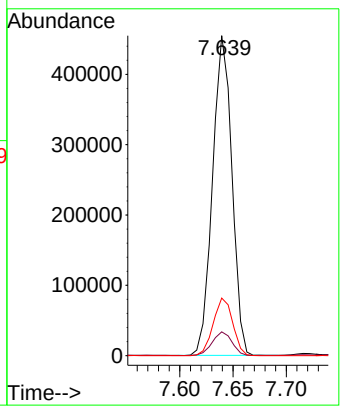


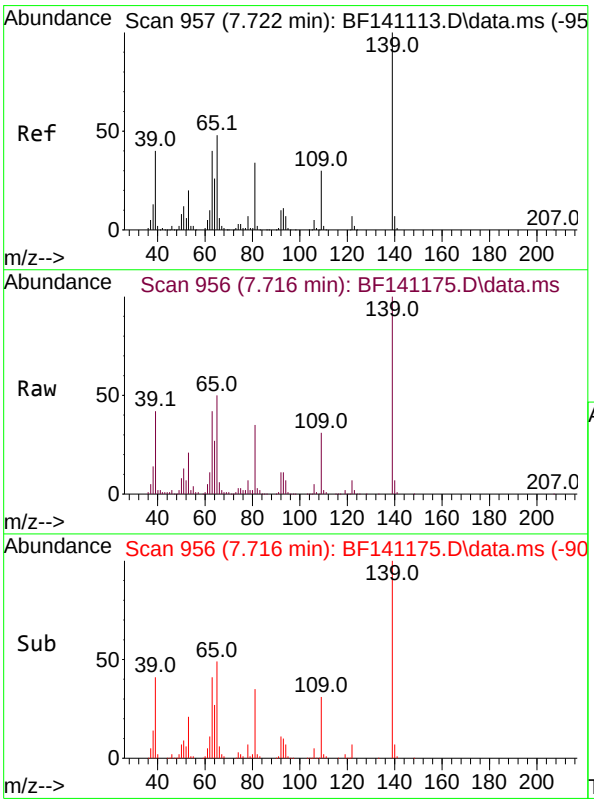
#25
Isophorone
Concen: 31.712 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 82 Resp: 574003

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	18.0	14.2	21.2

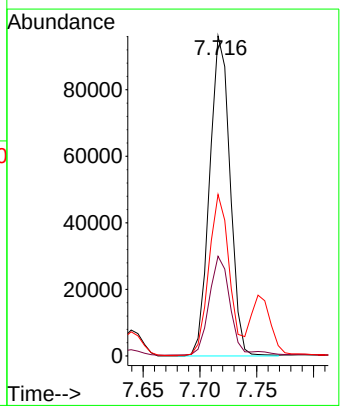


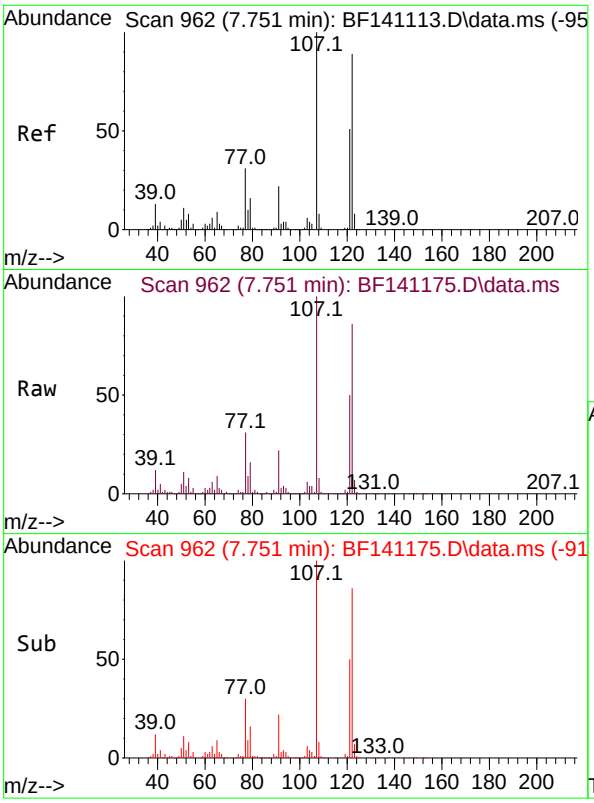


#26
2-Nitrophenol
Concen: 23.977 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:139 Resp: 120397

Ion	Ratio	Lower	Upper
139	100		
109	31.2	23.8	35.6
65	50.5	38.5	57.7



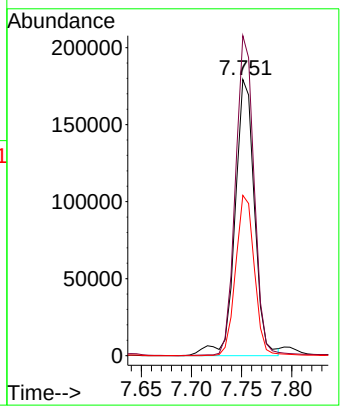


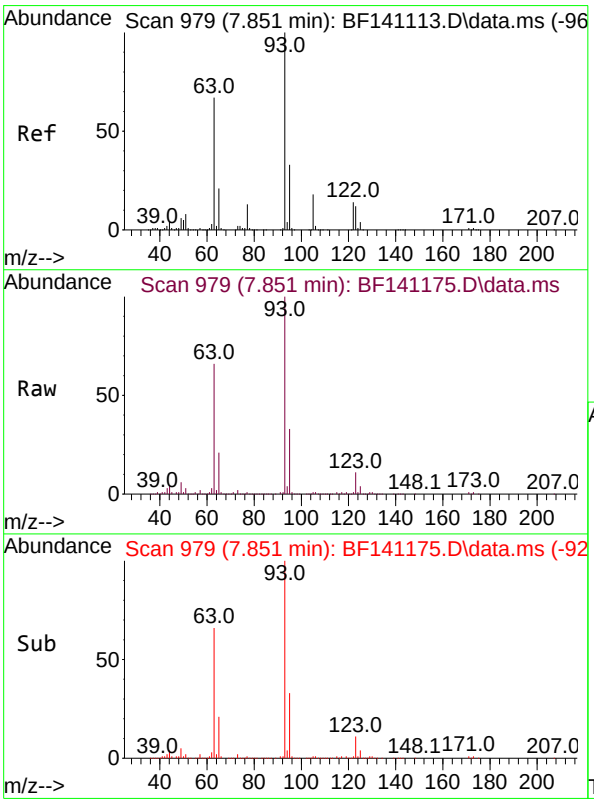
#27
2,4-Dimethylphenol
Concen: 35.728 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:122 Resp: 241988

Ion	Ratio	Lower	Upper
122	100		
107	115.9	90.3	135.5
121	58.1	46.5	69.7

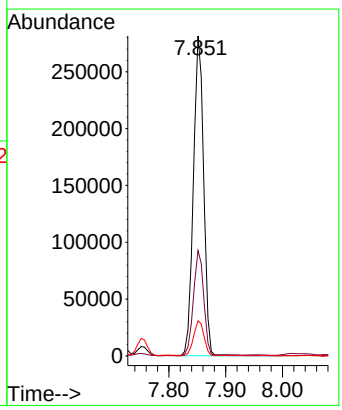


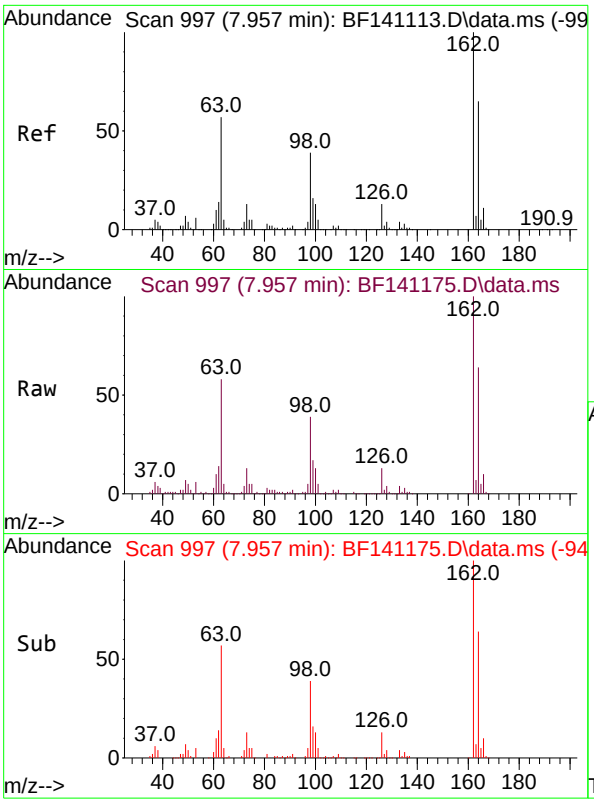


#28
bis(2-Chloroethoxy)methane
Concen: 31.271 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 93 Resp: 355223

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.2	39.4
123	11.0	10.1	15.1



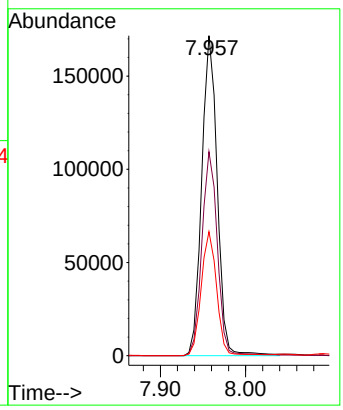


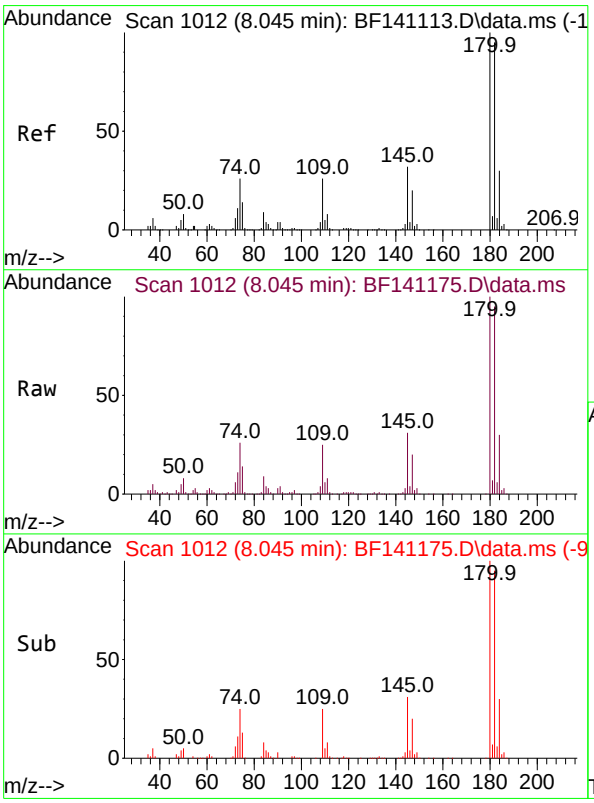
#29
2,4-Dichlorophenol
Concen: 27.047 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:162 Resp: 217566

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.5	84.5
98	38.8	18.5	58.5

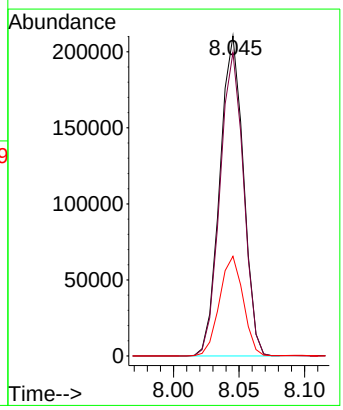


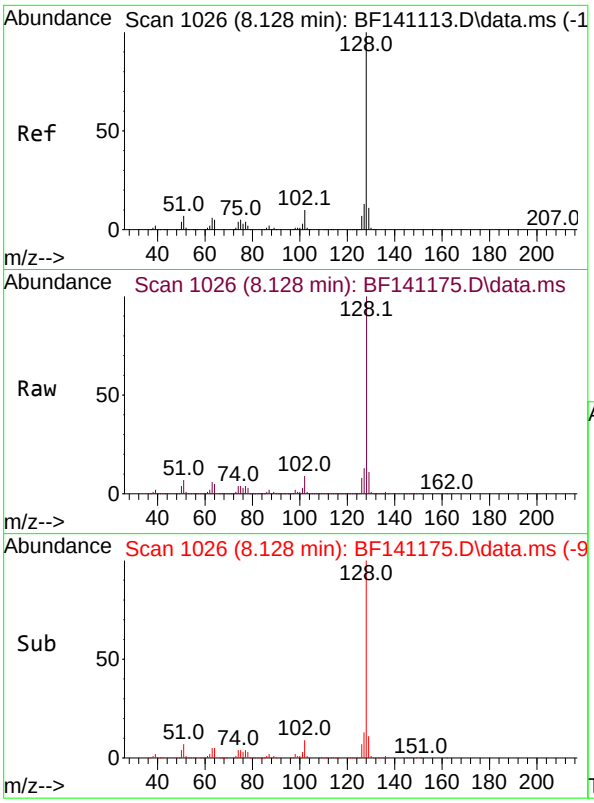


#30
1,2,4-Trichlorobenzene
Concen: 28.609 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:180 Resp: 263047

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
145	31.2	25.3	37.9



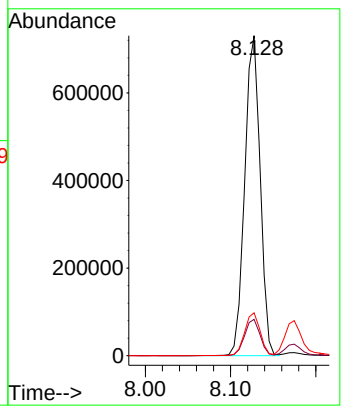


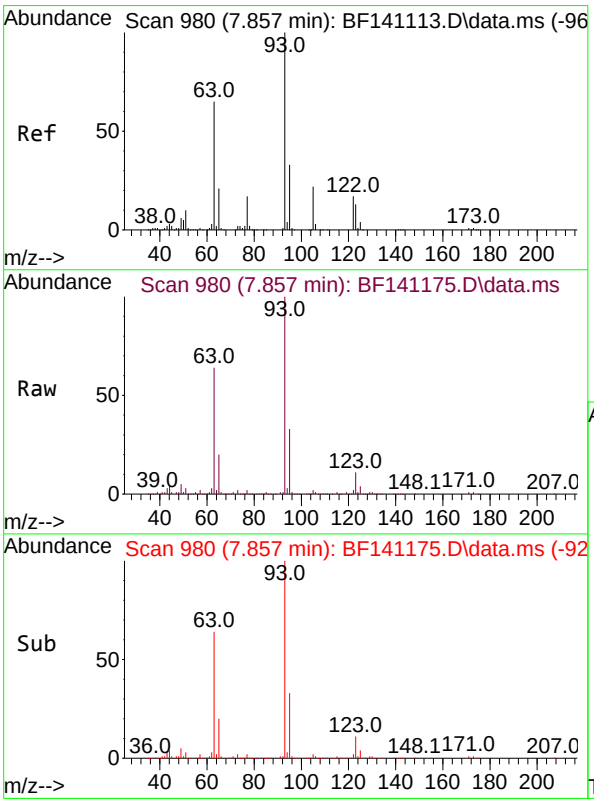
#31
Naphthalene
Concen: 31.026 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:128 Resp: 918606

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.4	10.8	16.2

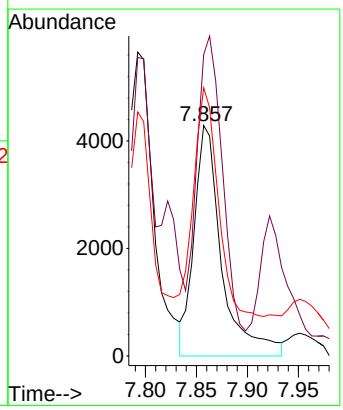


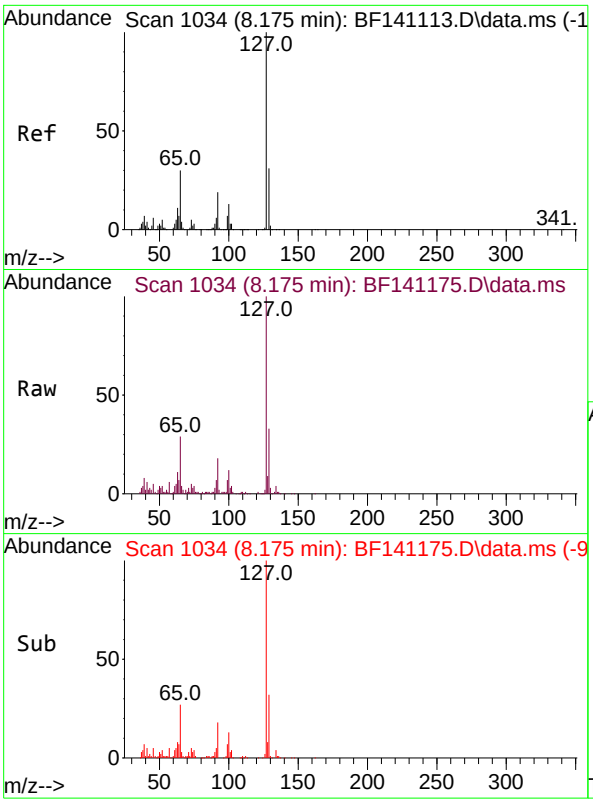


#32
Benzoic acid
Concen: 1.245 ng m
RT: 7.857 min Scan# 980
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:122 Resp: 8091

Ion	Ratio	Lower	Upper
122	100		
105	130.8	105.5	145.5
77	116.4	75.1	115.1#



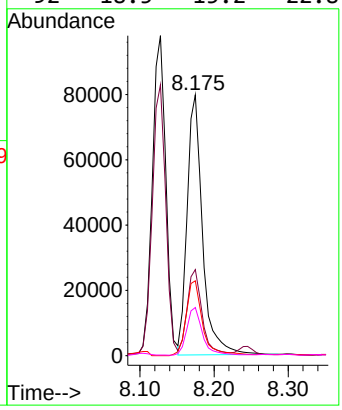


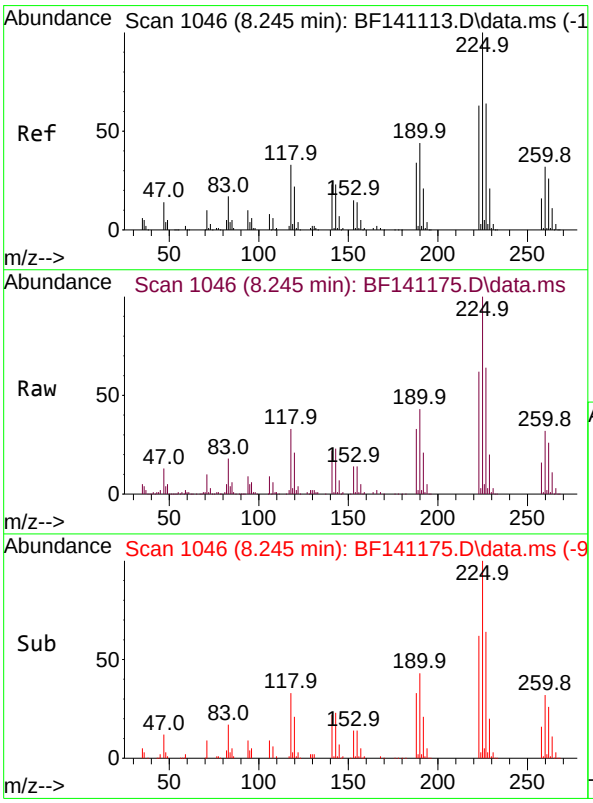
#33
4-Chloroaniline
Concen: 11.264 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:127 Resp: 115343

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.9	38.9
65	28.7	23.8	35.8
92	18.5	15.2	22.8

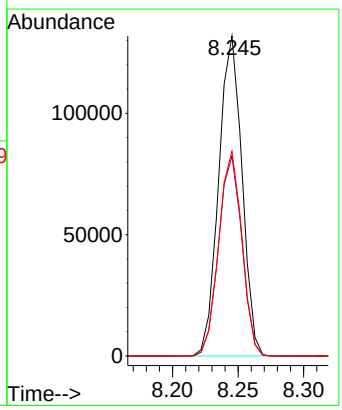


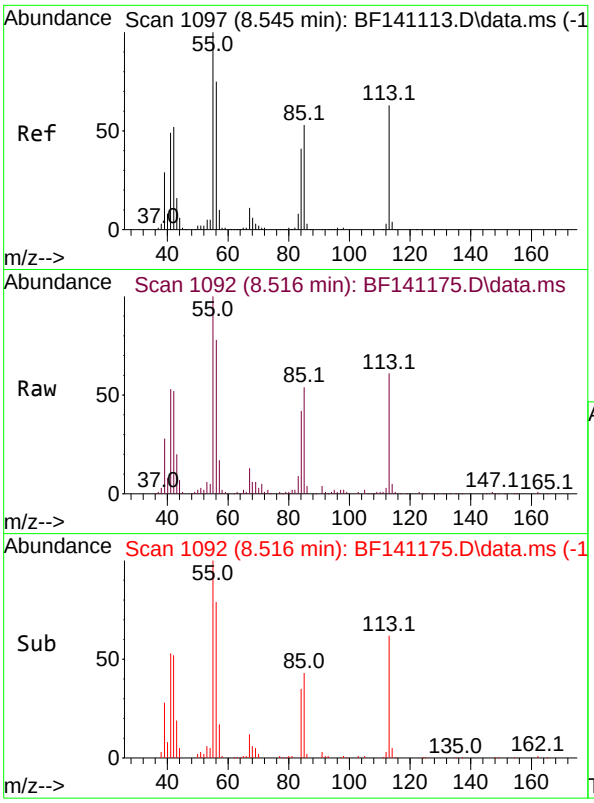


#34
Hexachlorobutadiene
Concen: 29.337 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:225 Resp: 162534

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.6	76.0
227	64.0	51.6	77.4



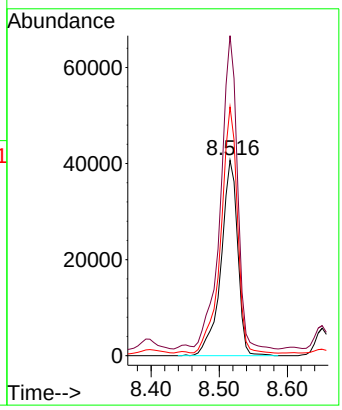


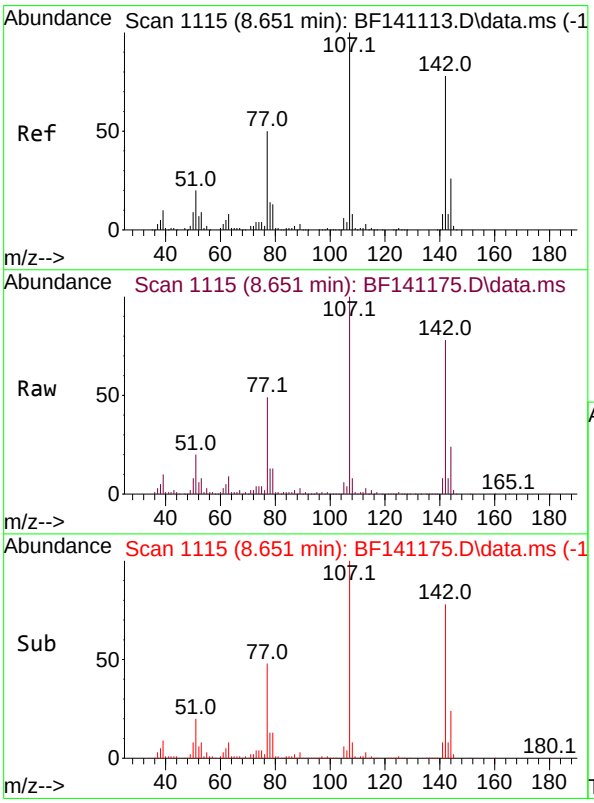
#35
Caprolactam
Concen: 26.249 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.030 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:113 Resp: 69129

Ion	Ratio	Lower	Upper
113	100		
55	163.8	139.7	179.7
56	127.3	99.4	139.4

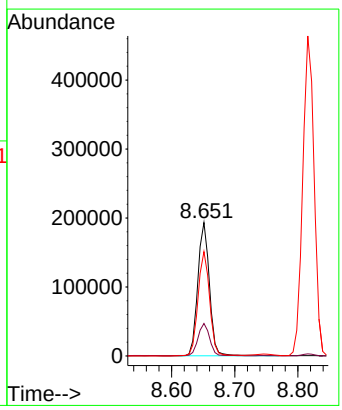


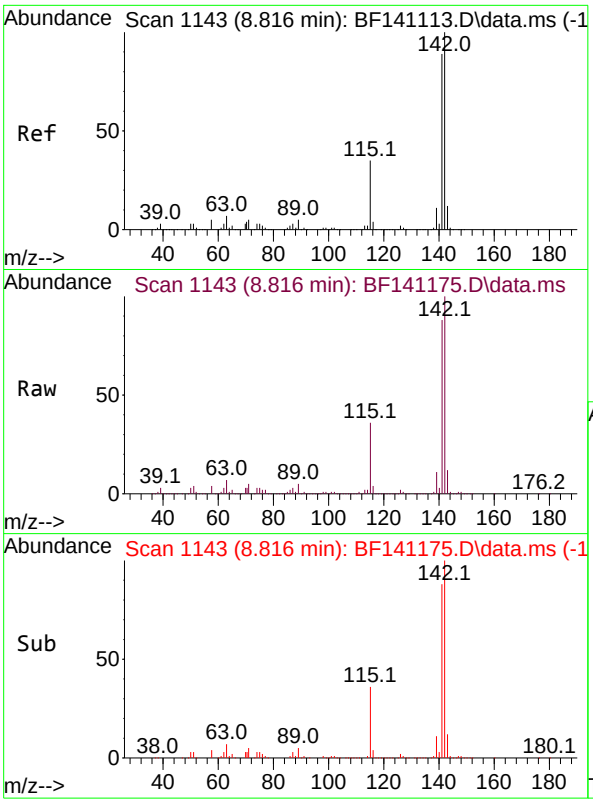


#36
4-Chloro-3-methylphenol
Concen: 28.059 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:107 Resp: 246845

Ion	Ratio	Lower	Upper
107	100		
144	24.4	20.4	30.6
142	78.2	62.2	93.2



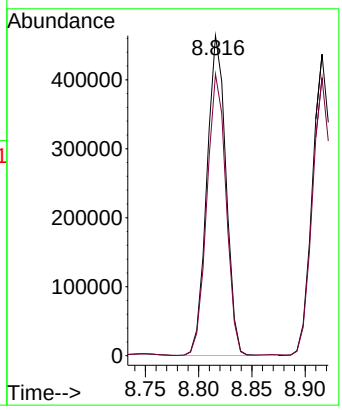


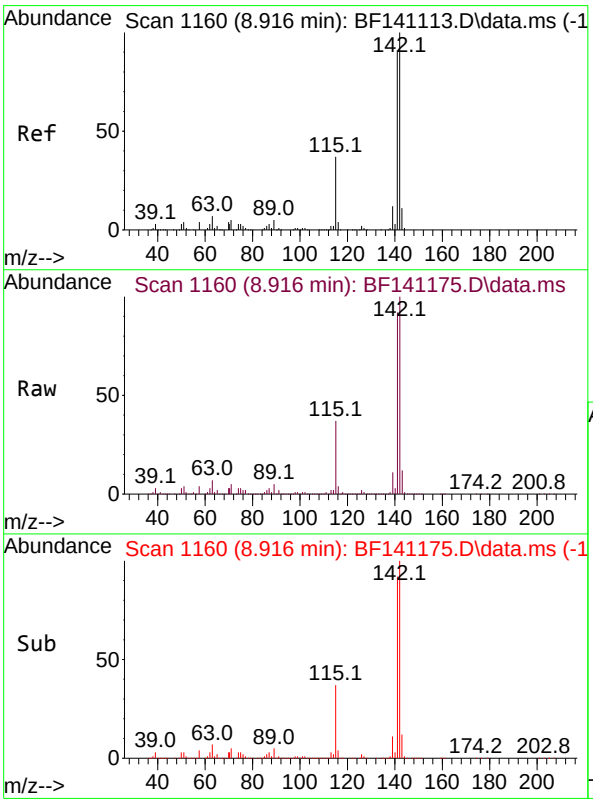
#37
2-Methylnaphthalene
Concen: 30.662 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:142 Resp: 578514

Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.3	106.9

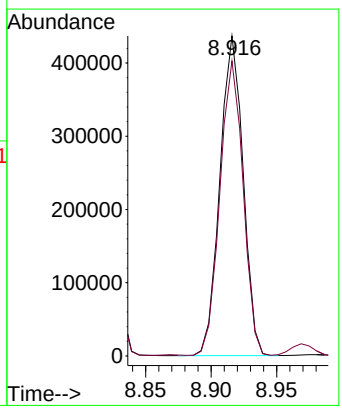


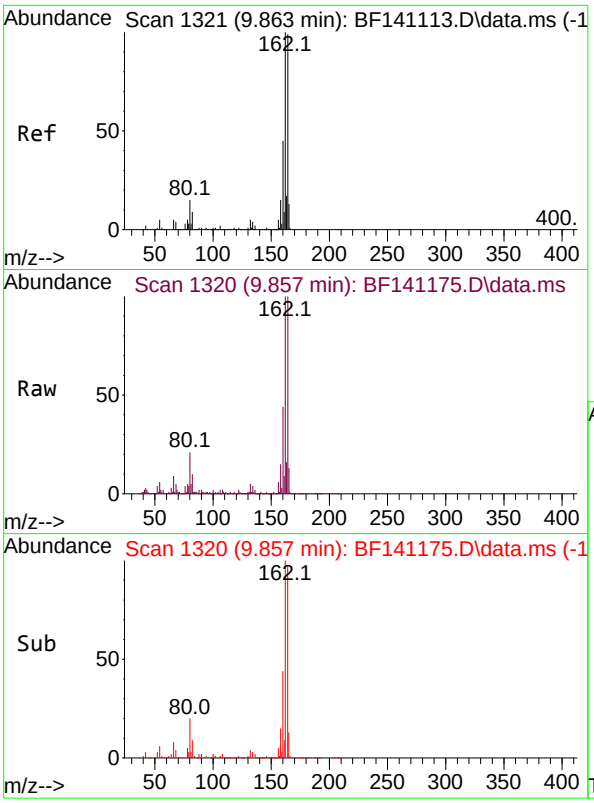


#38
1-Methylnaphthalene
Concen: 28.874 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:142 Resp: 536900

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.1	109.7



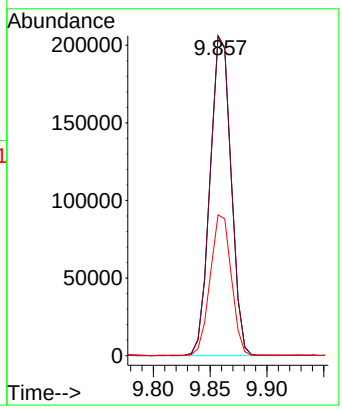


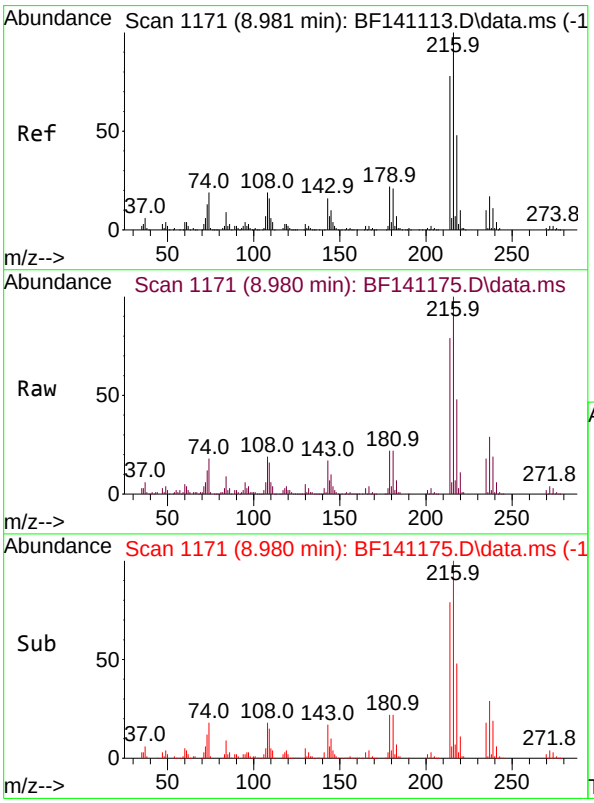
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:164 Resp: 265282

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.4
160	44.1	36.1	54.1

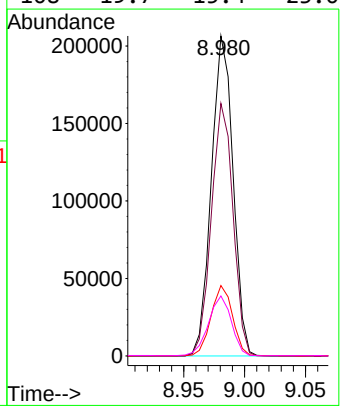


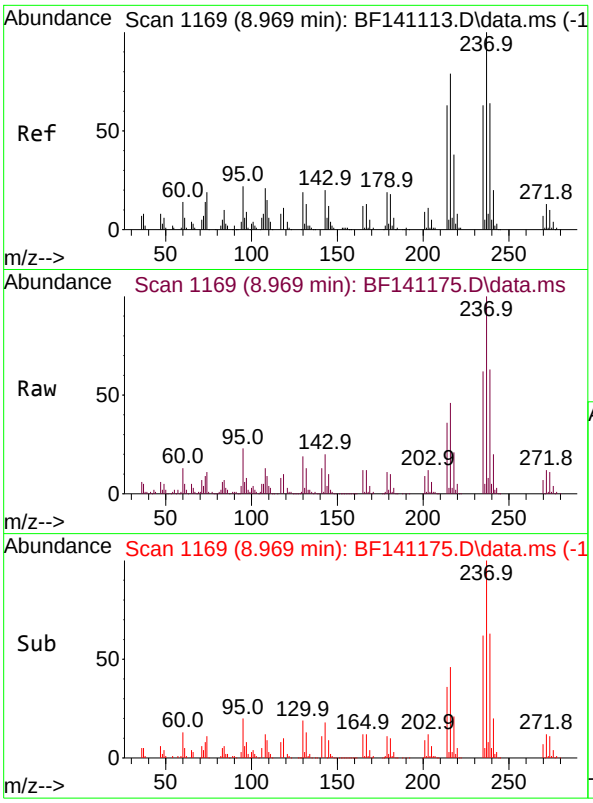


#40
1,2,4,5-Tetrachlorobenzene
Concen: 33.573 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:216 Resp: 255628

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.6	94.0
179	21.7	17.7	26.5
108	19.7	15.4	23.0



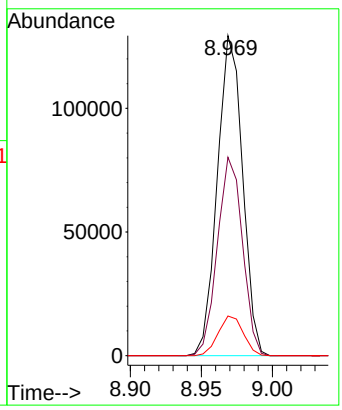


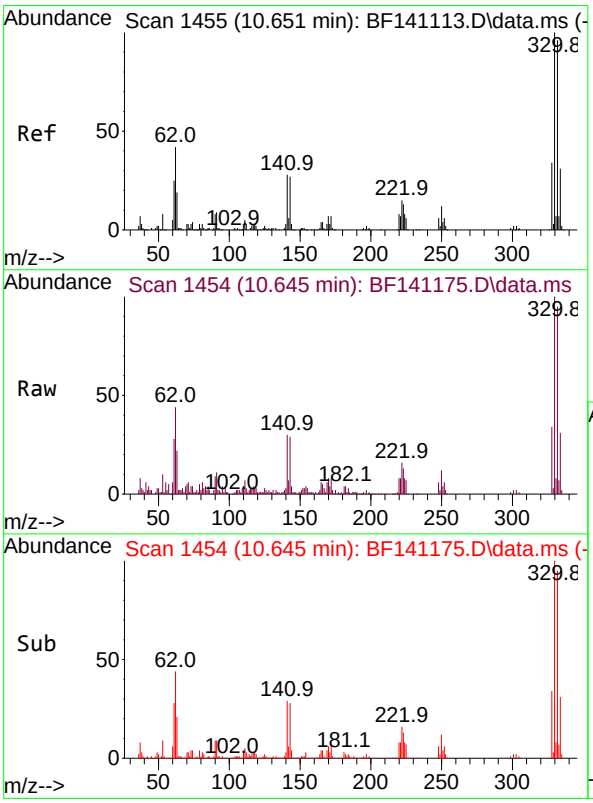
#41
Hexachlorocyclopentadiene
Concen: 64.166 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:237 Resp: 159842

Ion	Ratio	Lower	Upper
237	100		
235	62.0	43.0	83.0
272	12.4	0.0	33.0

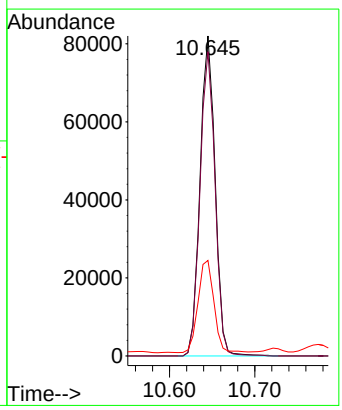


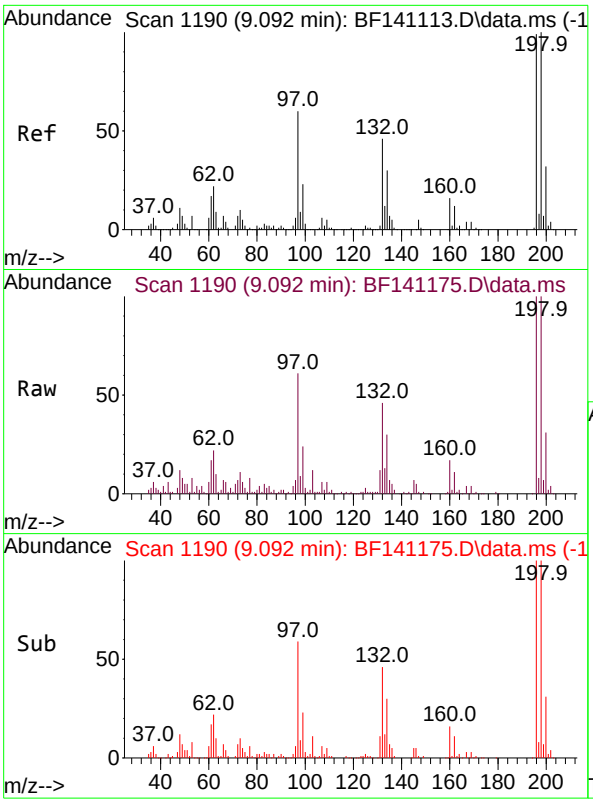


#42
2,4,6-Tribromophenol
Concen: 33.339 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:330 Resp: 100774

Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.9	115.3
141	30.3	25.2	37.8



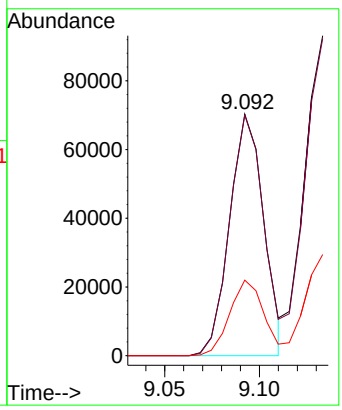


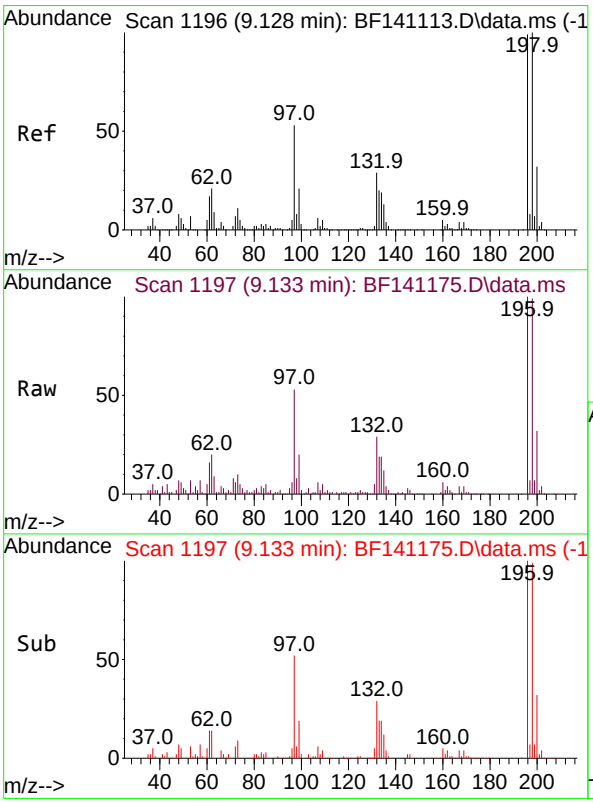
#43
2,4,6-Trichlorophenol
Concen: 17.169 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:196 Resp: 88165

Ion	Ratio	Lower	Upper
196	100		
198	99.5	80.8	121.2
200	31.3	25.7	38.5

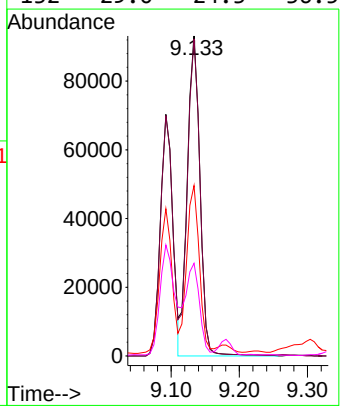


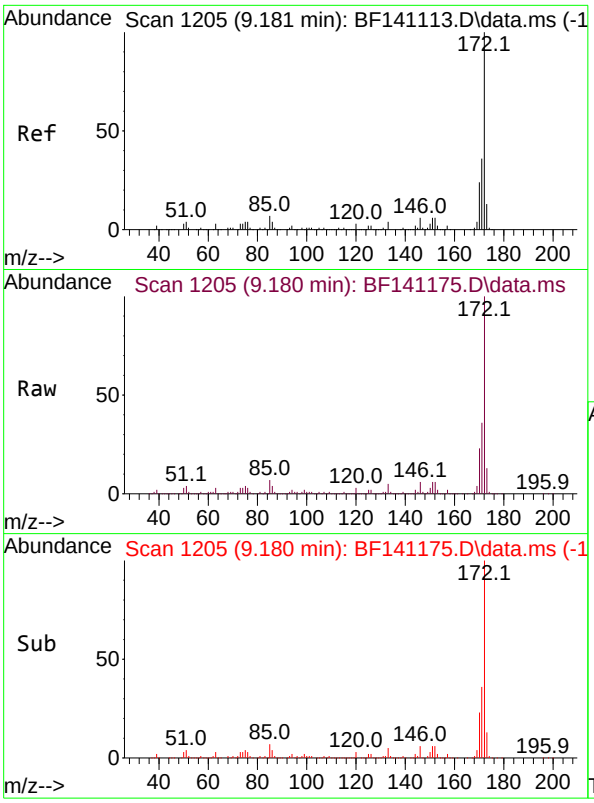


#44
2,4,5-Trichlorophenol
Concen: 22.032 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:196 Resp: 119487

Ion	Ratio	Lower	Upper
196	100		
198	99.1	80.6	120.8
97	53.3	43.1	64.7
132	29.0	24.3	36.5



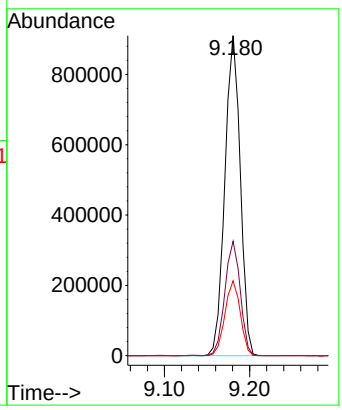


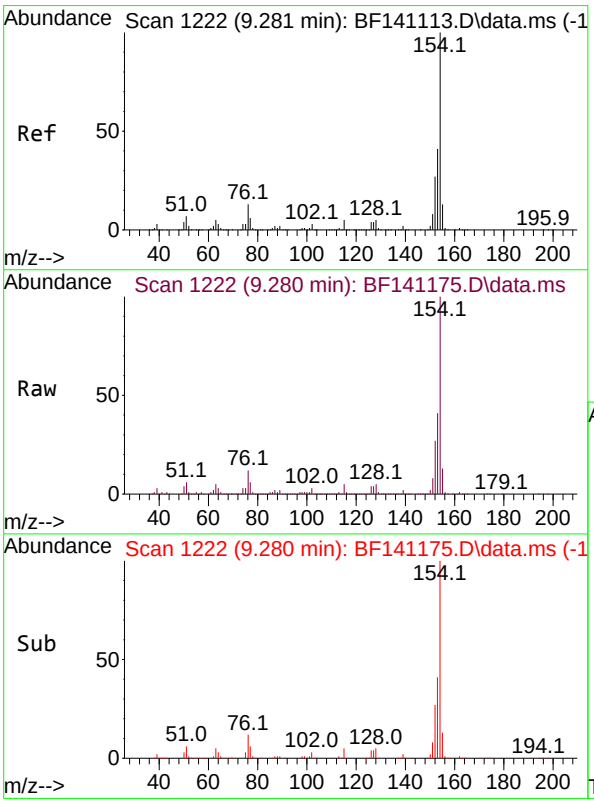
#45
2-Fluorobiphenyl
Concen: 65.849 ng
RT: 9.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:172 Resp: 1143953

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.4	19.0	28.6

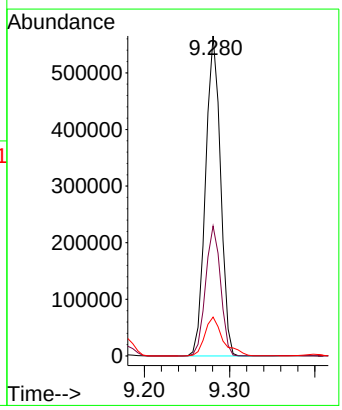


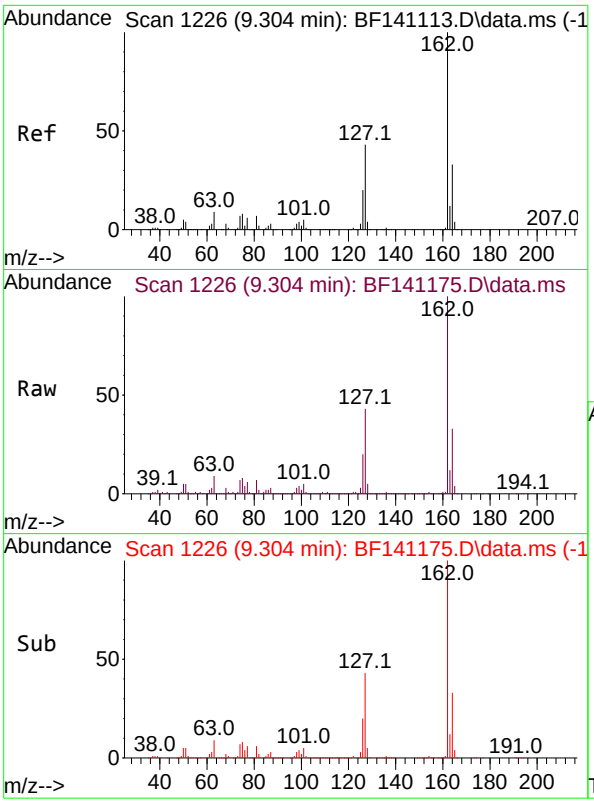


#46
1,1'-Biphenyl
Concen: 33.515 ng
RT: 9.280 min Scan# 1222
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:154 Resp: 690480

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.7	60.7
76	12.1	0.0	33.1



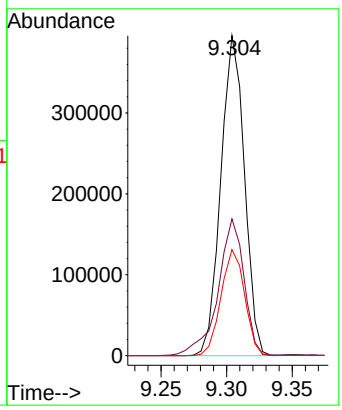


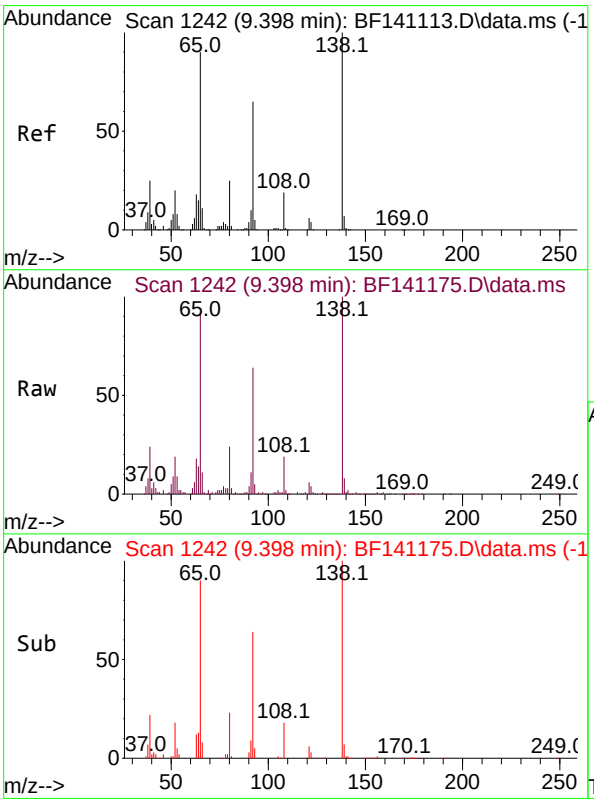
#47
2-Chloronaphthalene
Concen: 30.895 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:162 Resp: 495753

Ion	Ratio	Lower	Upper
162	100		
127	42.7	34.6	51.8
164	33.1	26.5	39.7

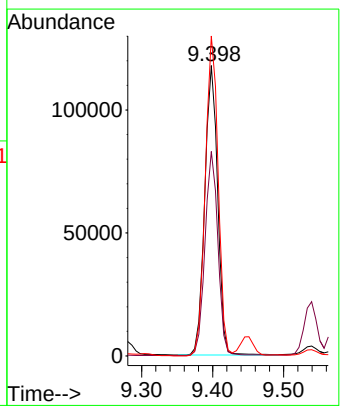


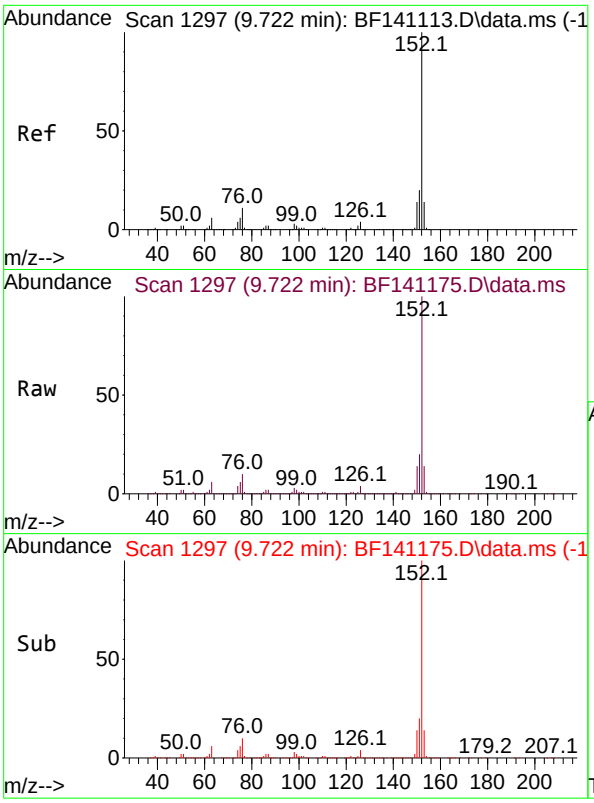


#48
2-Nitroaniline
Concen: 31.408 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 65 Resp: 149394

Ion	Ratio	Lower	Upper
65	100		
92	70.4	58.3	87.5
138	110.2	89.1	133.7



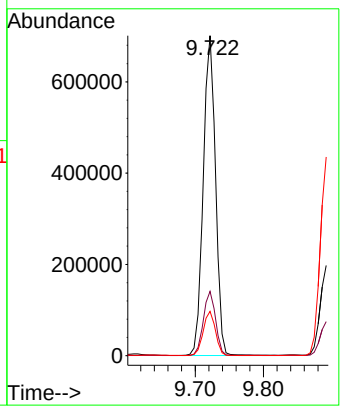


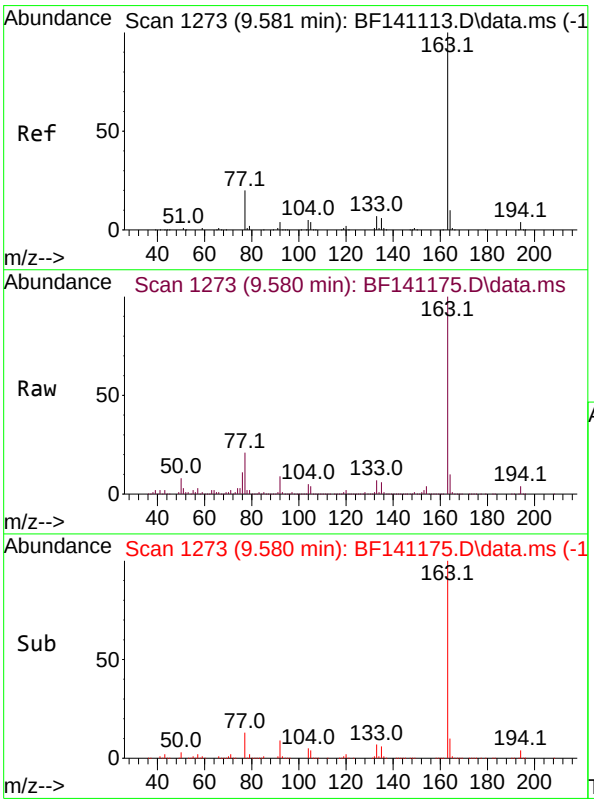
#49
Acenaphthylene
Concen: 38.283 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:152 Resp: 877645

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.9	11.1	16.7

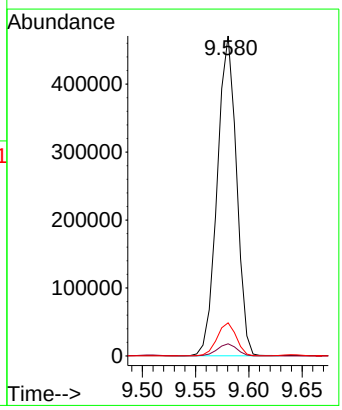


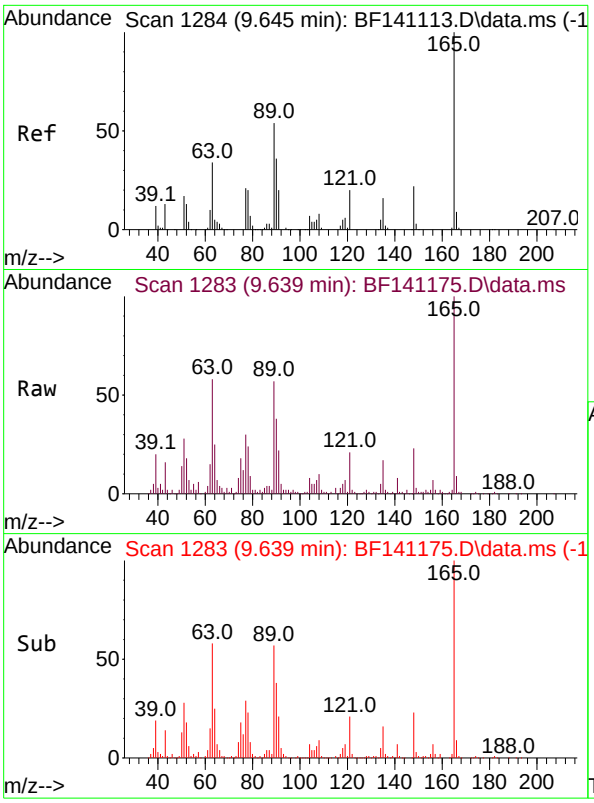


#50
Dimethylphthalate
Concen: 33.137 ng
RT: 9.580 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:163 Resp: 590143

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.2	12.4



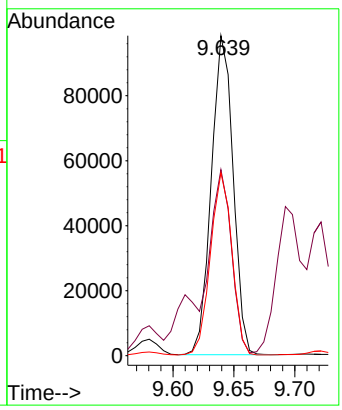


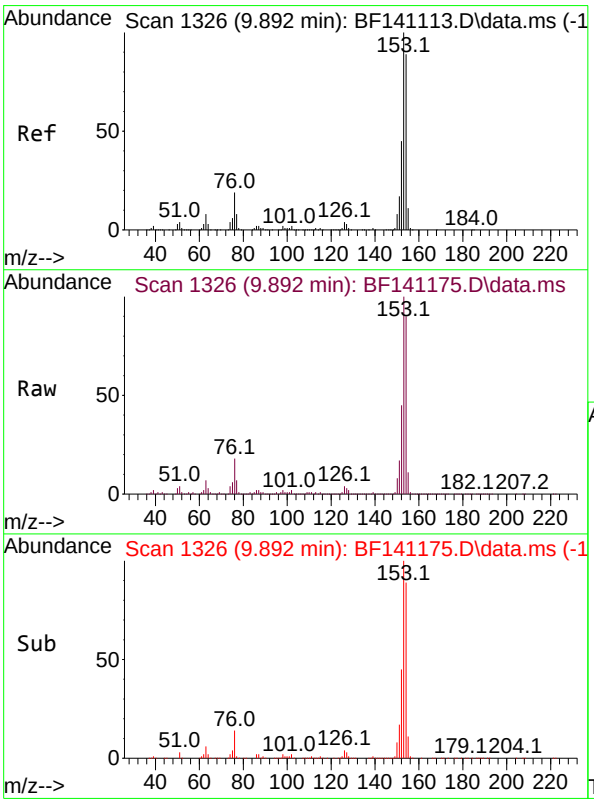
#51
2,6-Dinitrotoluene
Concen: 29.528 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:165 Resp: 122290

Ion	Ratio	Lower	Upper
165	100		
63	58.1	42.3	63.5
89	57.1	43.1	64.7

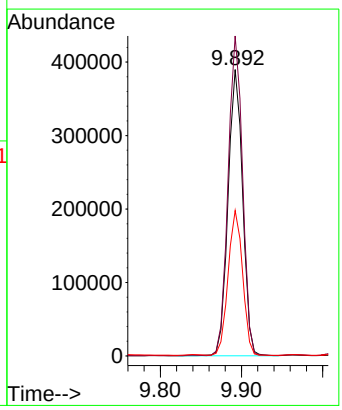


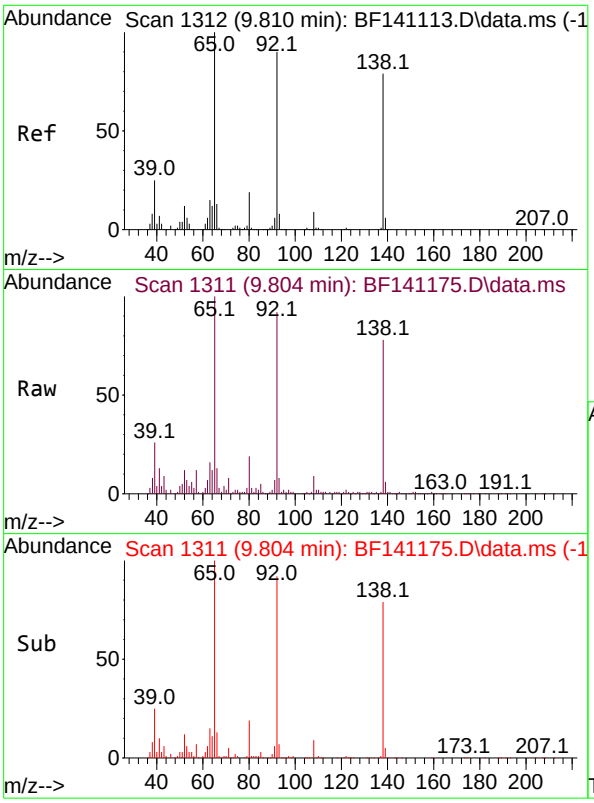


#52
Acenaphthene
Concen: 30.298 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:154 Resp: 485274

Ion	Ratio	Lower	Upper
154	100		
153	111.7	89.8	134.6
152	50.8	40.8	61.2



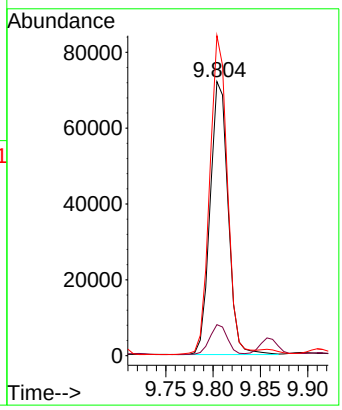


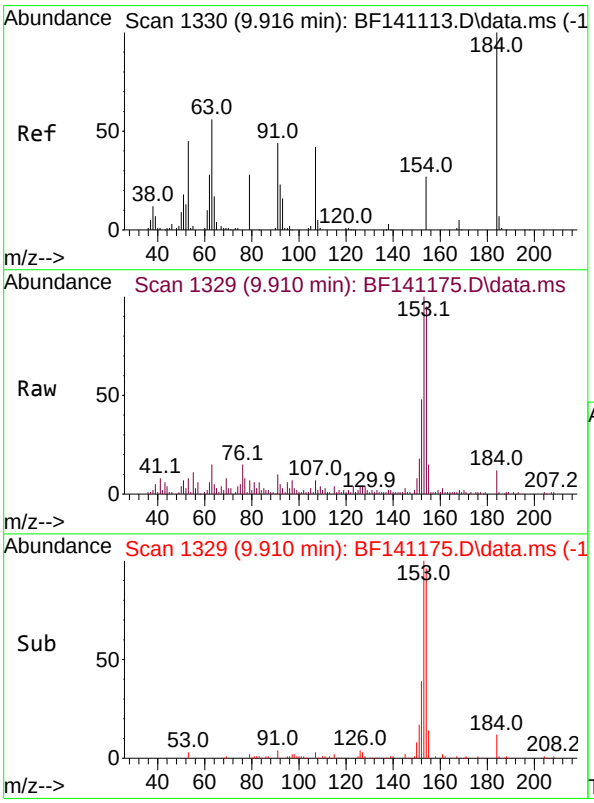
#53
3-Nitroaniline
Concen: 22.559 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:138 Resp: 94941

Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.8	13.2
92	116.8	91.3	136.9

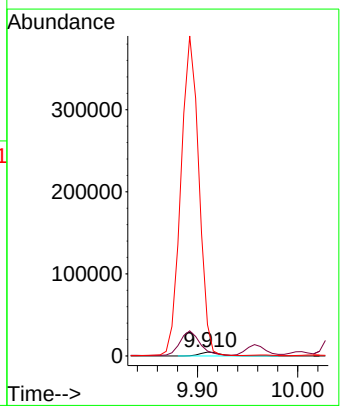


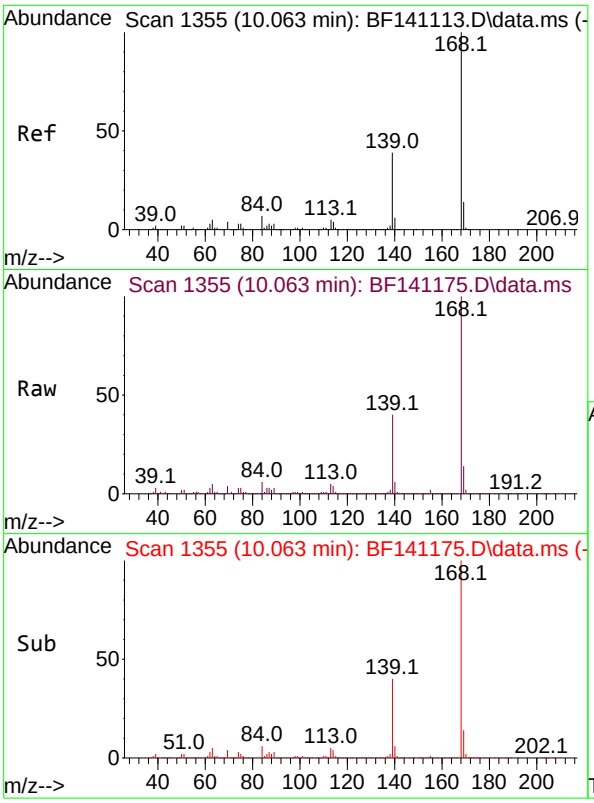


#54
2,4-Dinitrophenol
Concen: 3.440 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:184 Resp: 6772

Ion	Ratio	Lower	Upper
184	100		
63	130.6	48.7	73.1#
154	828.4	57.1	85.7#



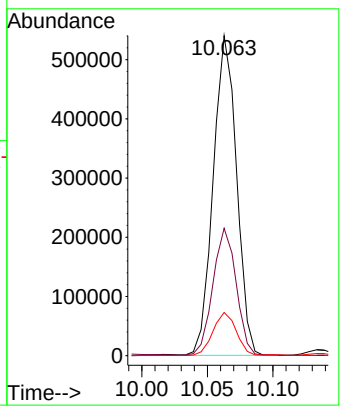


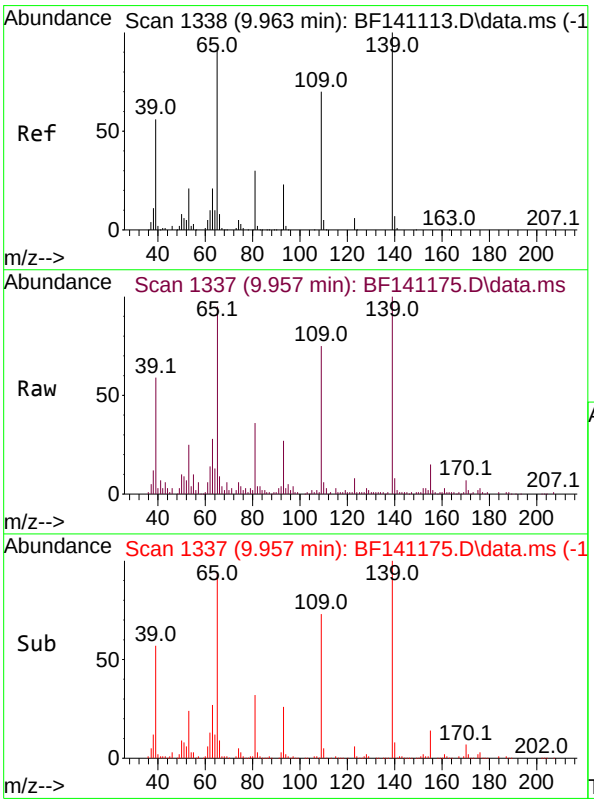
#55
Dibenzofuran
Concen: 30.632 ng
RT: 10.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:168 Resp: 667349

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.4	47.0
169	13.5	10.9	16.3

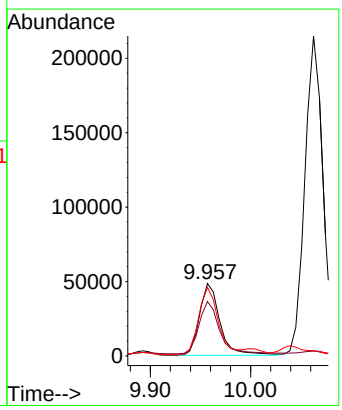


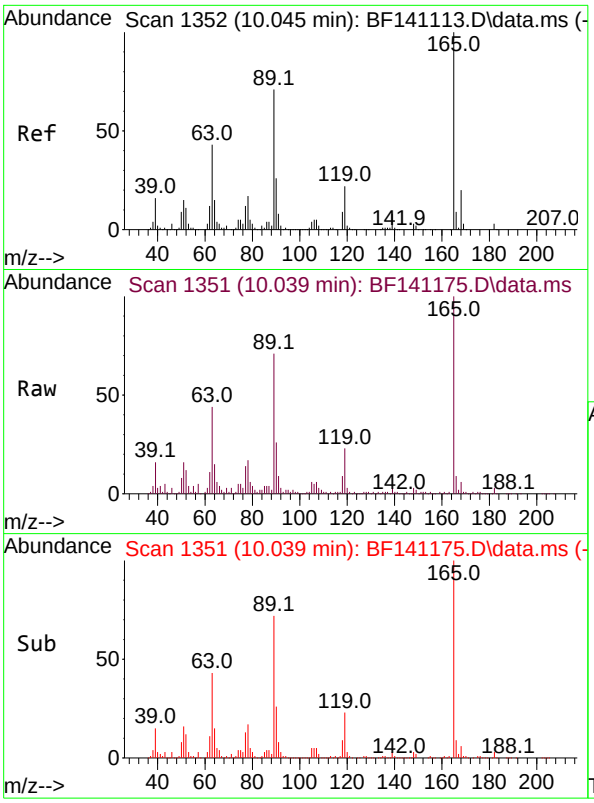


#56
4-Nitrophenol
Concen: 20.816 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:139 Resp: 68610

Ion	Ratio	Lower	Upper
139	100		
109	75.2	50.2	90.2
65	94.7	72.1	112.1



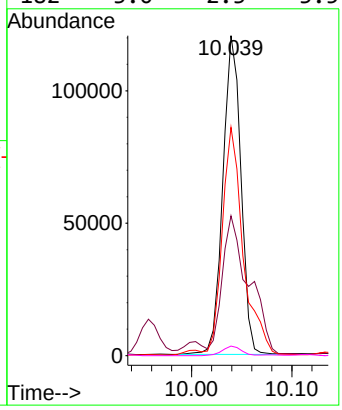


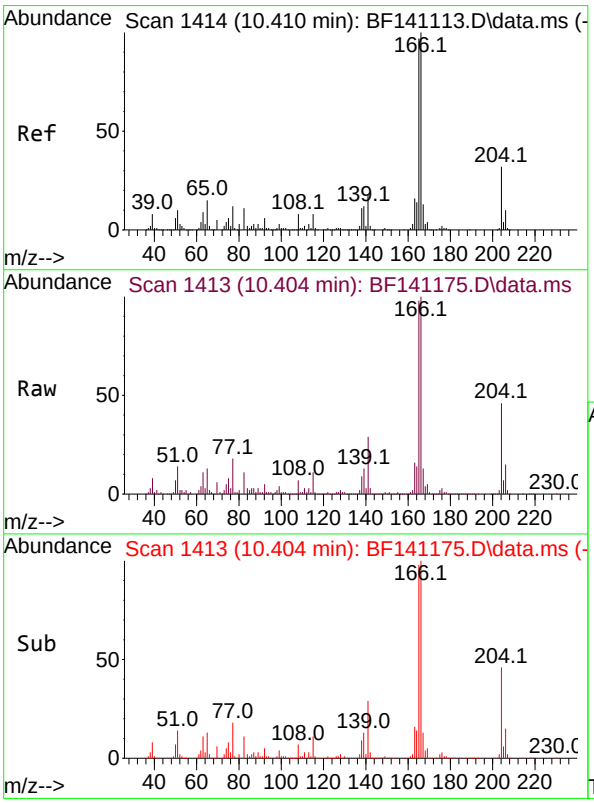
#57
2,4-Dinitrotoluene
Concen: 28.200 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:165 Resp: 150510

Ion	Ratio	Lower	Upper
165	100		
63	43.7	35.0	52.4
89	71.4	56.7	85.1
182	3.0	2.3	3.5

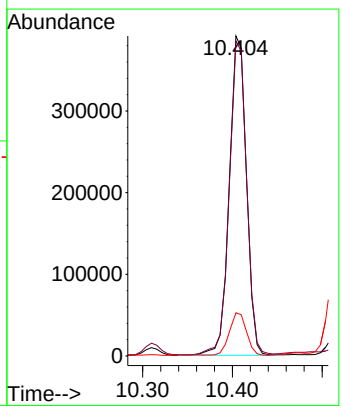


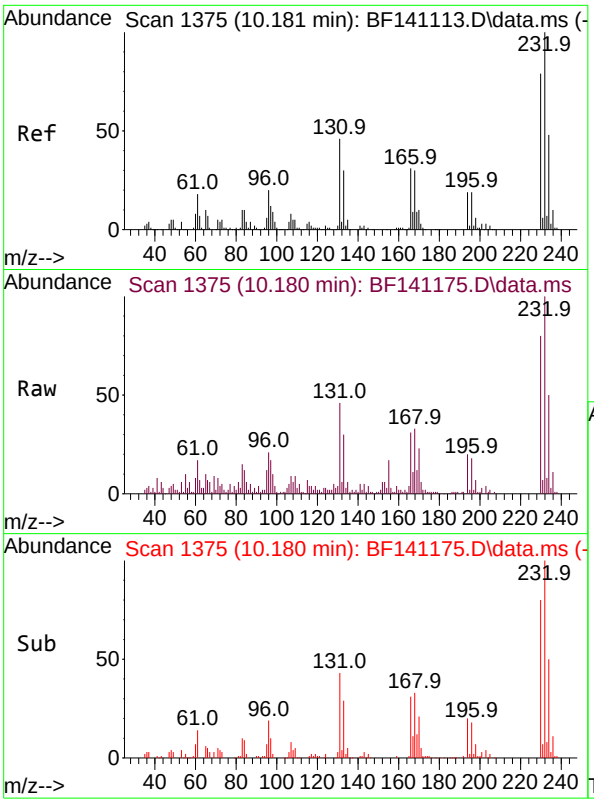


#58
Fluorene
Concen: 30.626 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:166 Resp: 518351

Ion	Ratio	Lower	Upper
166	100		
165	98.4	77.8	116.8
167	13.5	10.8	16.2



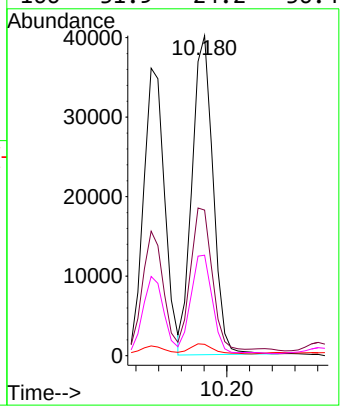


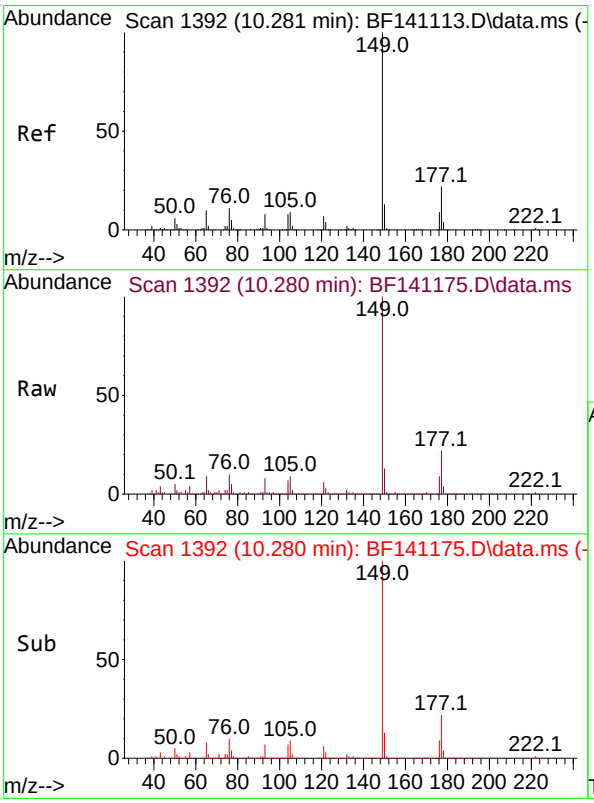
#59
2,3,4,6-Tetrachlorophenol
Concen: 11.396 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:232 Resp: 51375

Ion	Ratio	Lower	Upper
232	100		
131	45.4	36.2	54.4
130	3.5	2.0	3.0#
166	31.9	24.2	36.4

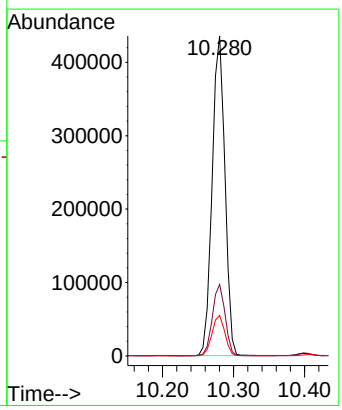


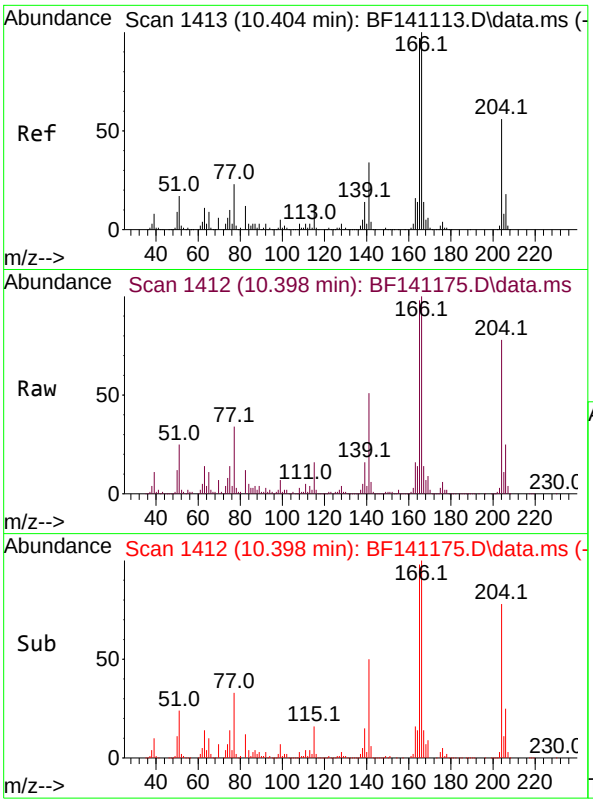


#60
Diethylphthalate
Concen: 31.282 ng
RT: 10.280 min Scan# 1392
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 543883

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.7	10.2	15.2



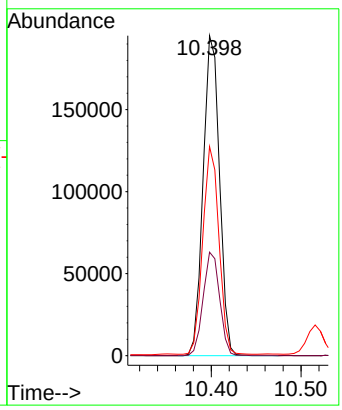


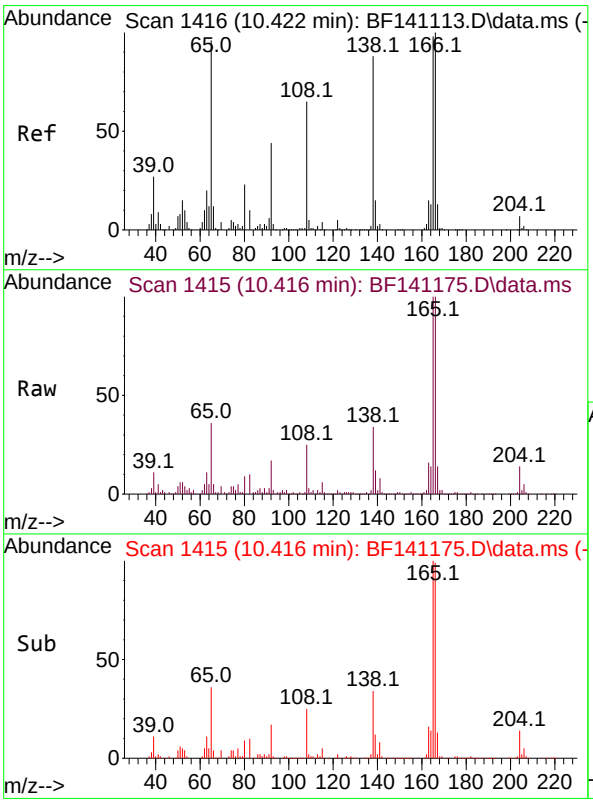
#61
4-Chlorophenyl-phenylether
Concen: 29.974 ng
RT: 10.398 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:204 Resp: 247267

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	65.3	49.1	73.7

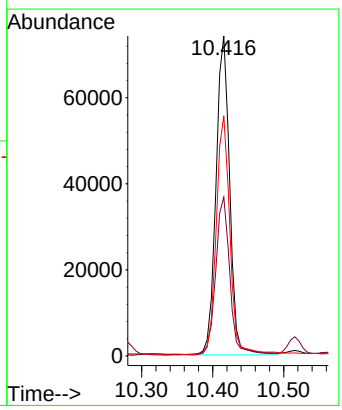


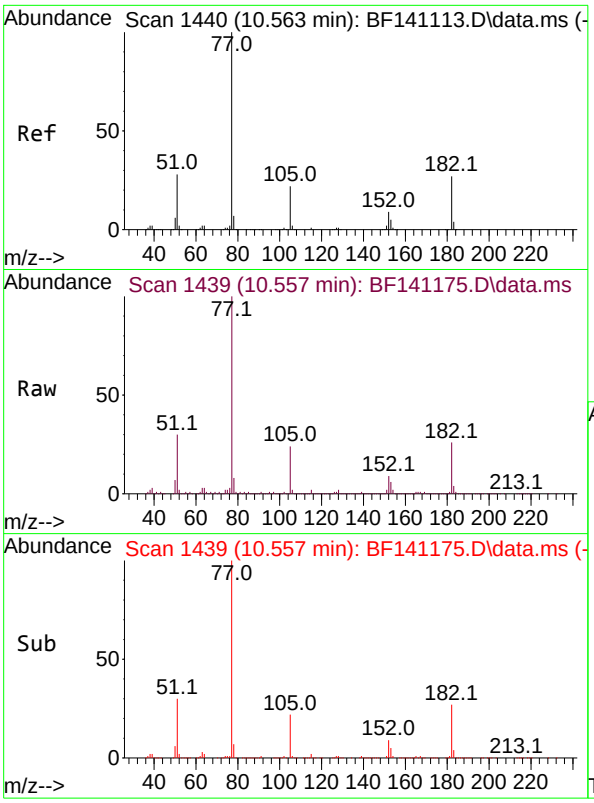


#62
4-Nitroaniline
Concen: 24.070 ng
RT: 10.416 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:138 Resp: 99151

Ion	Ratio	Lower	Upper
138	100		
92	49.6	29.4	69.4
108	75.1	53.7	93.7



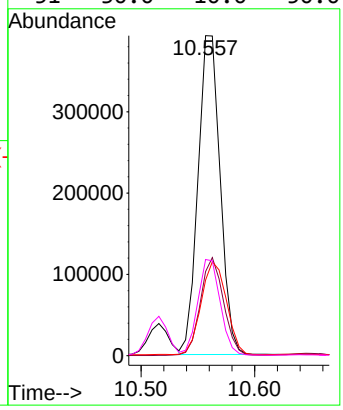


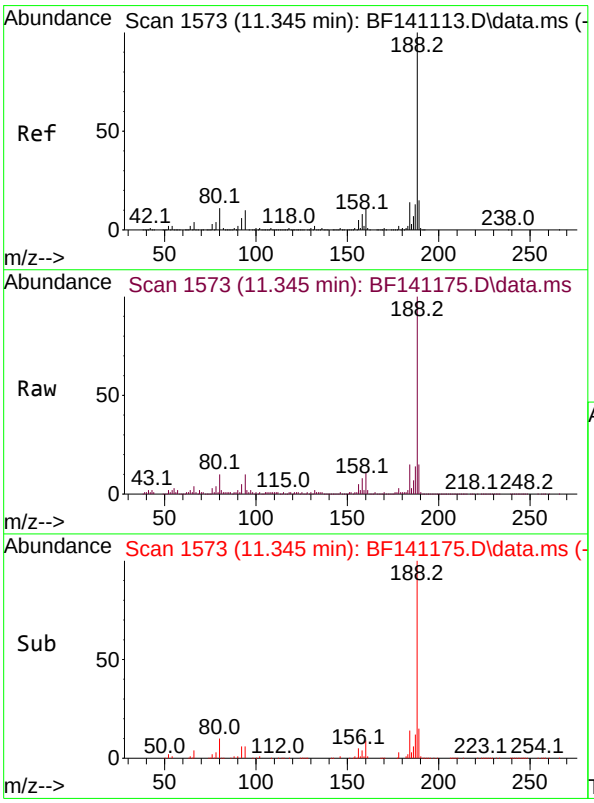
#63
Azobenzene
Concen: 31.058 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 77 Resp: 532827

Ion	Ratio	Lower	Upper
77	100		
182	26.3	6.1	46.1
105	23.7	2.1	42.1
51	30.0	10.0	50.0

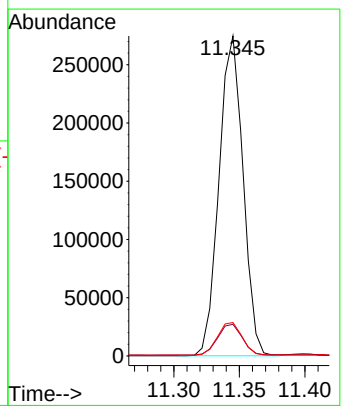


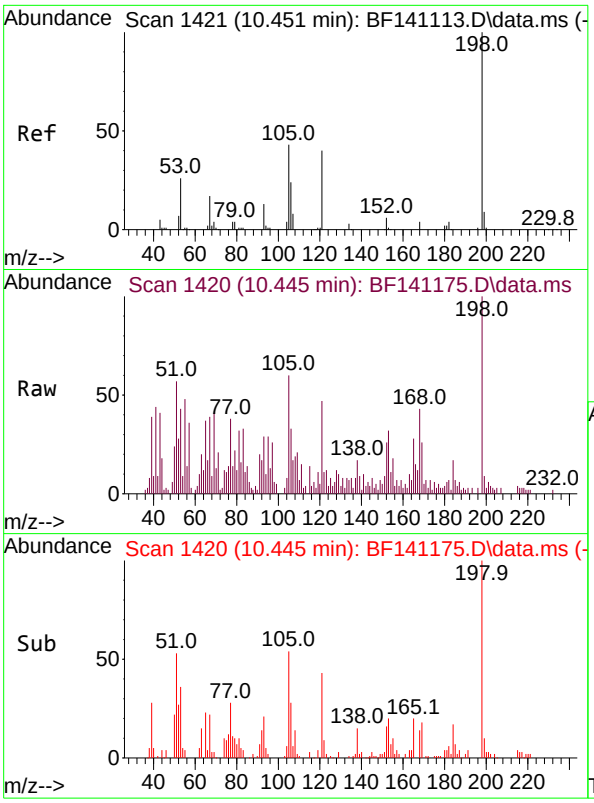


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:188 Resp: 349564

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.3	12.5
80	10.5	9.0	13.4



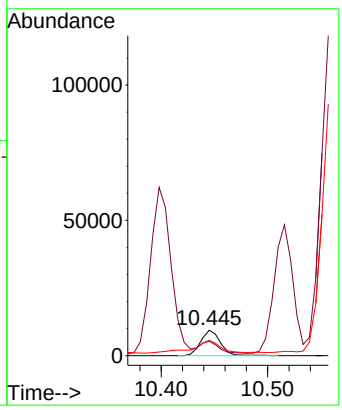


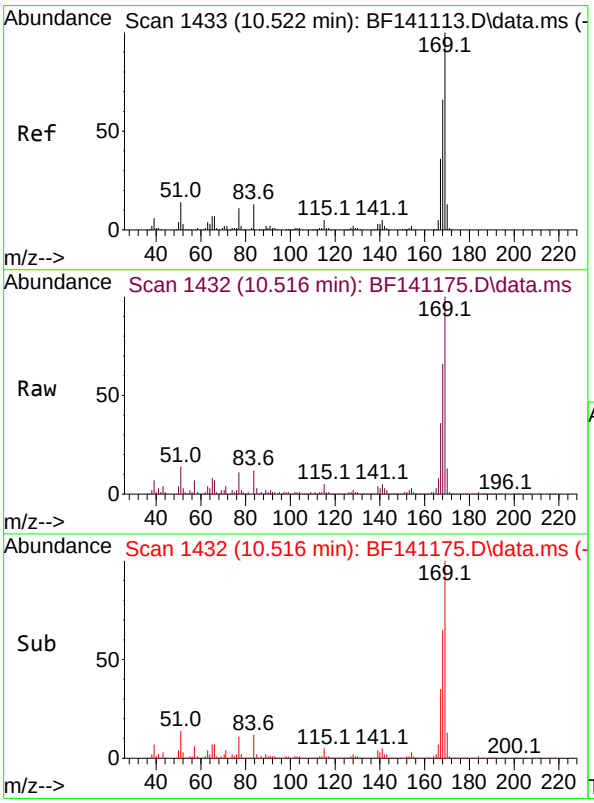
#65
4,6-Dinitro-2-methylphenol
Concen: 5.940 ng
RT: 10.445 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:198 Resp: 12033

Ion	Ratio	Lower	Upper
198	100		
51	57.2	27.1	67.1
105	59.8	24.2	64.2

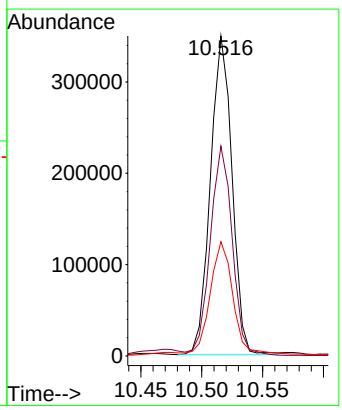


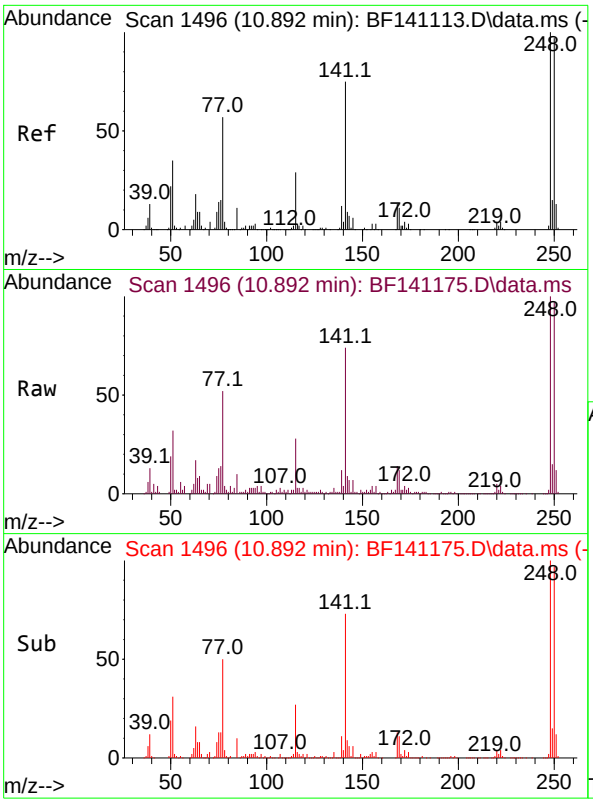


#66
n-Nitrosodiphenylamine
Concen: 38.243 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:169 Resp: 431187

Ion	Ratio	Lower	Upper
169	100		
168	65.5	52.5	78.7
167	35.7	28.9	43.3



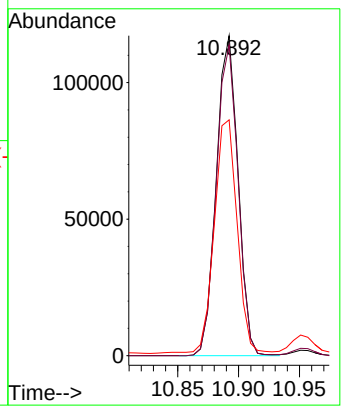


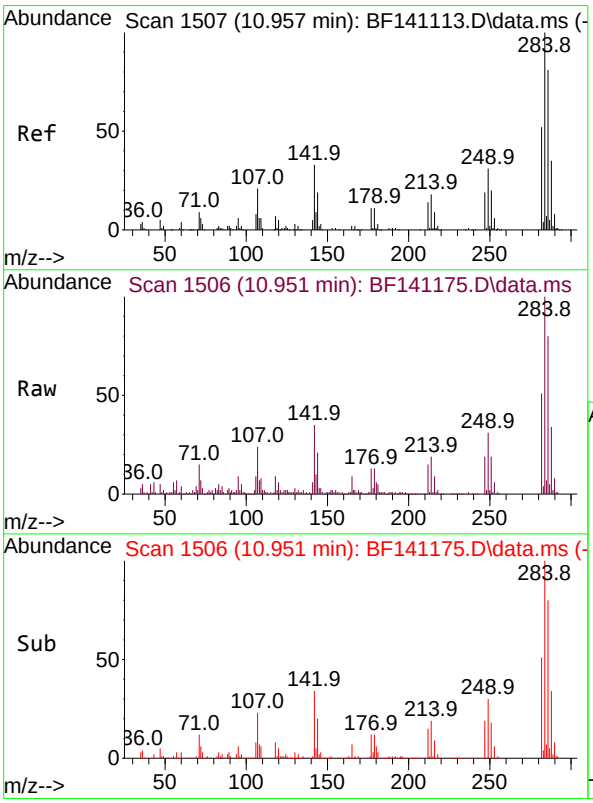
#67
4-Bromophenyl-phenylether
Concen: 36.228 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:248 Resp: 145801

Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.9	116.9
141	73.7	59.9	89.9

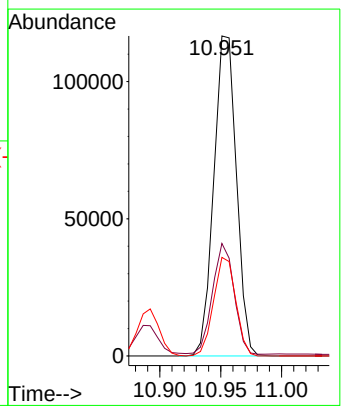


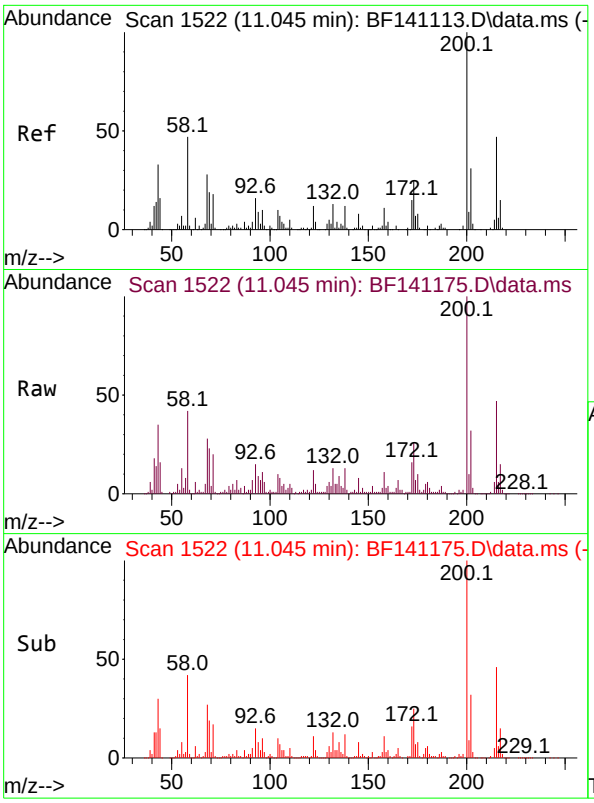


#68
Hexachlorobenzene
Concen: 33.684 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:284 Resp: 150906

Ion	Ratio	Lower	Upper
284	100		
142	35.2	26.3	39.5
249	30.8	24.9	37.3



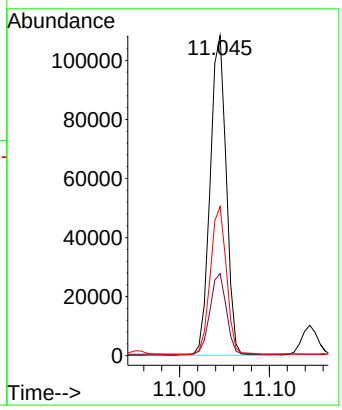


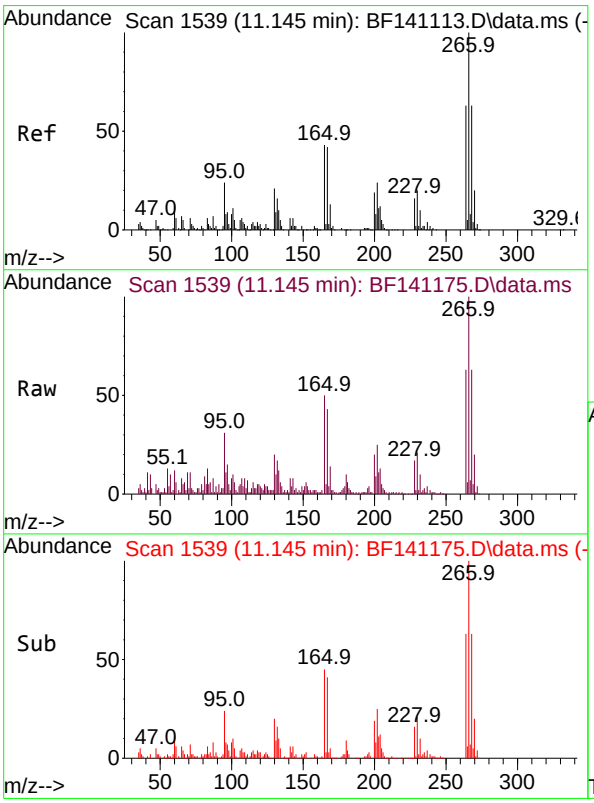
#69
Atrazine
Concen: 44.306 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:200 Resp: 134509

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.4	45.4
215	46.6	26.6	66.6

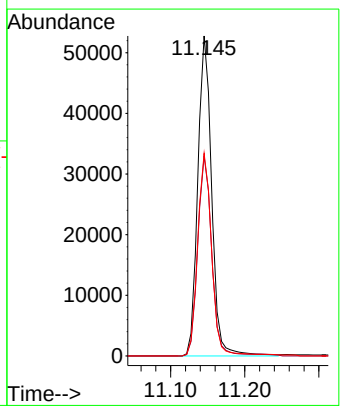


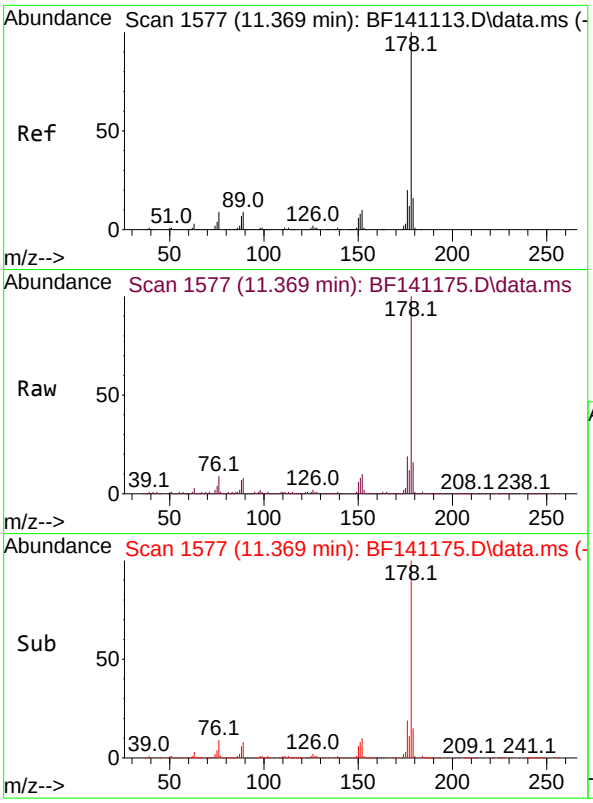


#70
Pentachlorophenol
Concen: 23.886 ng
RT: 11.145 min Scan# 1539
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:266 Resp: 68531

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.4	75.6
264	63.3	50.2	75.2



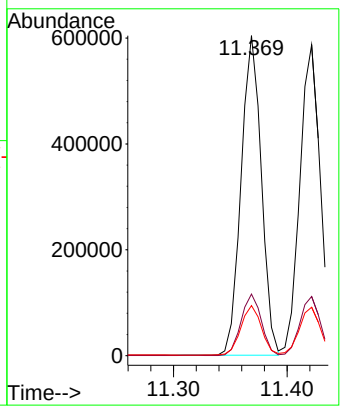


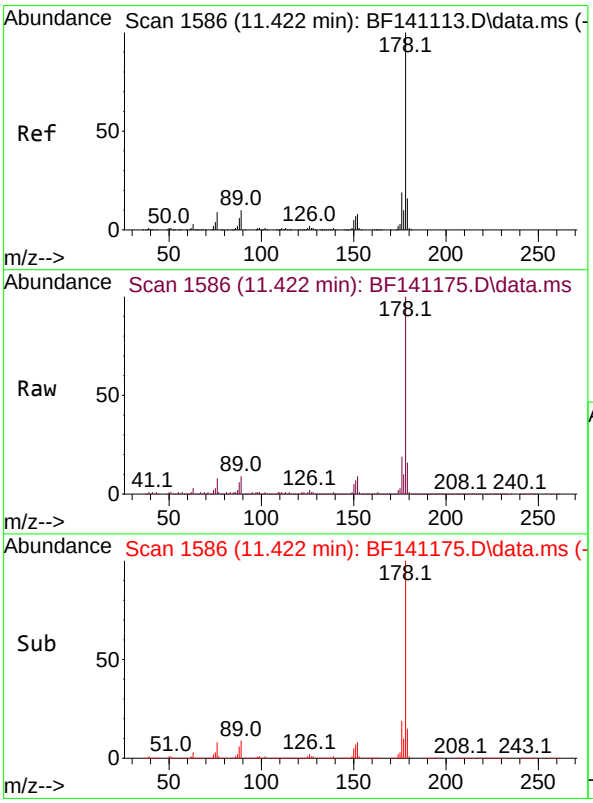
#71
Phenanthrene
Concen: 39.764 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:178 Resp: 746258

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.7	12.6	19.0

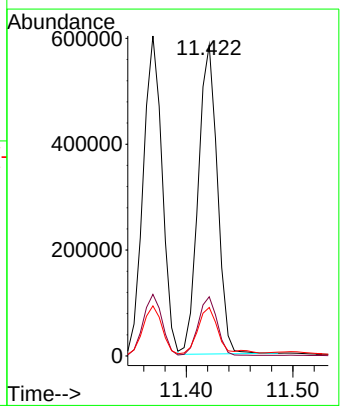


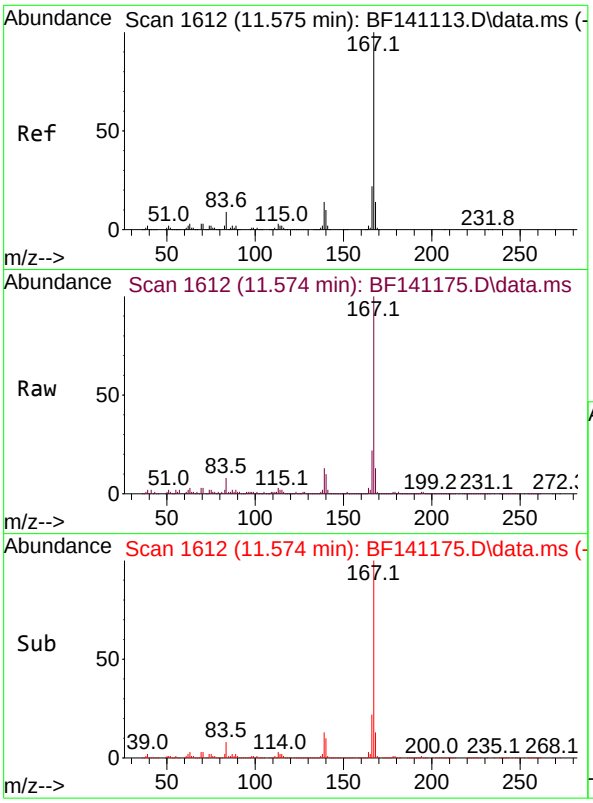


#72
Anthracene
Concen: 39.875 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:178 Resp: 727636

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.9	22.3
179	15.6	12.6	19.0



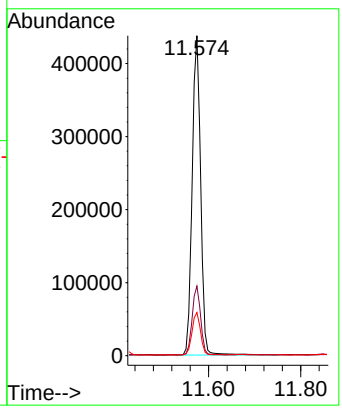


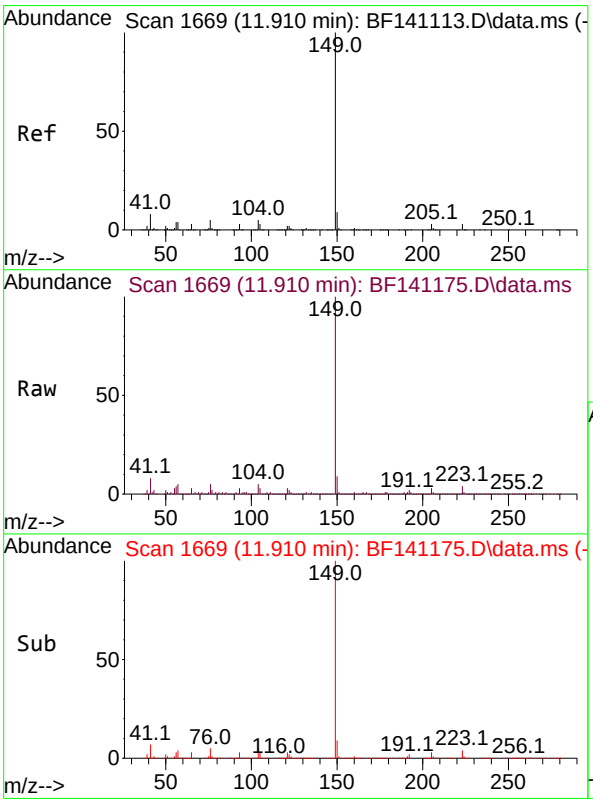
#73
Carbazole
Concen: 33.223 ng
RT: 11.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:167 Resp: 555900

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.5	10.9	16.3

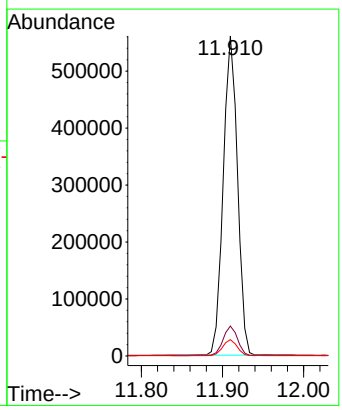


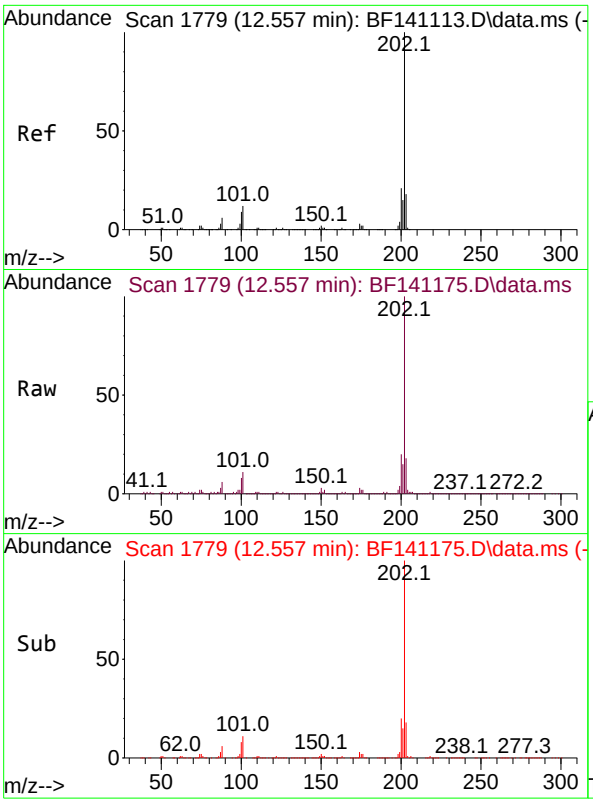


#74
Di-n-butylphthalate
Concen: 35.764 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 684830

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.1	4.2	6.2



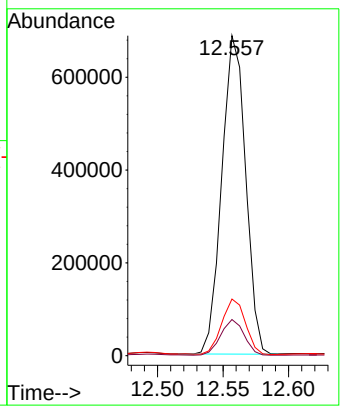


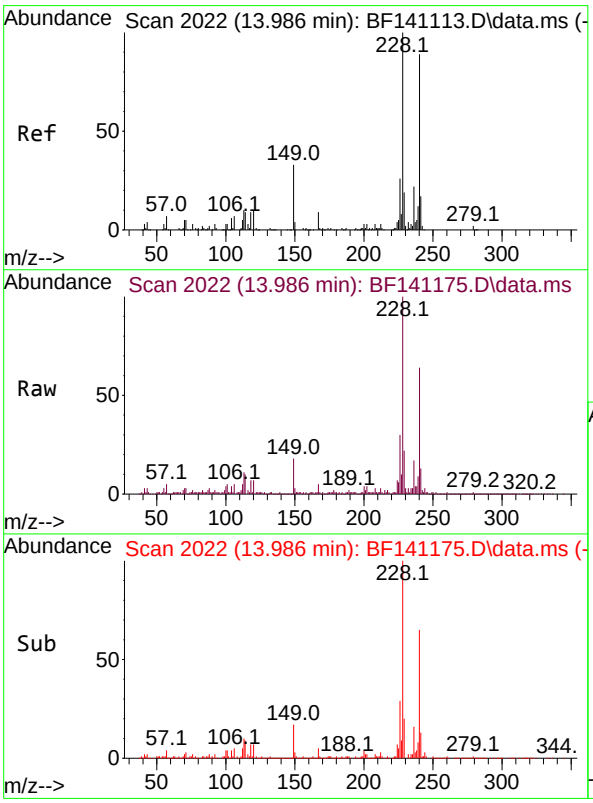
#75
Fluoranthene
Concen: 46.347 ng
RT: 12.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:202 Resp: 867978

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.3
203	17.7	0.0	37.7

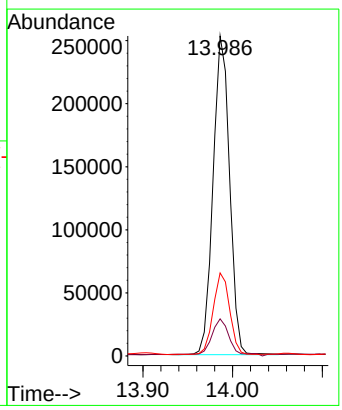


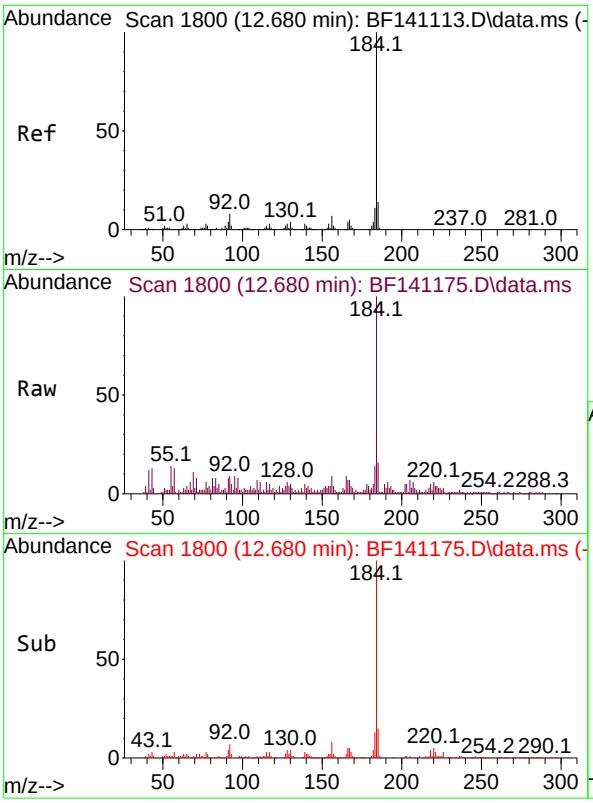


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:240 Resp: 322664

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.1	13.7
236	25.9	19.8	29.6



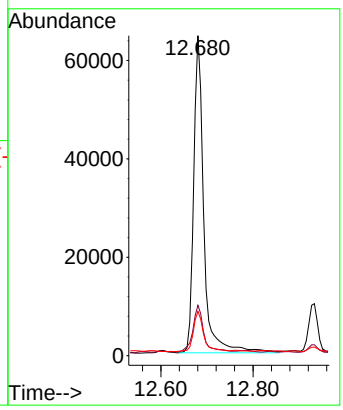


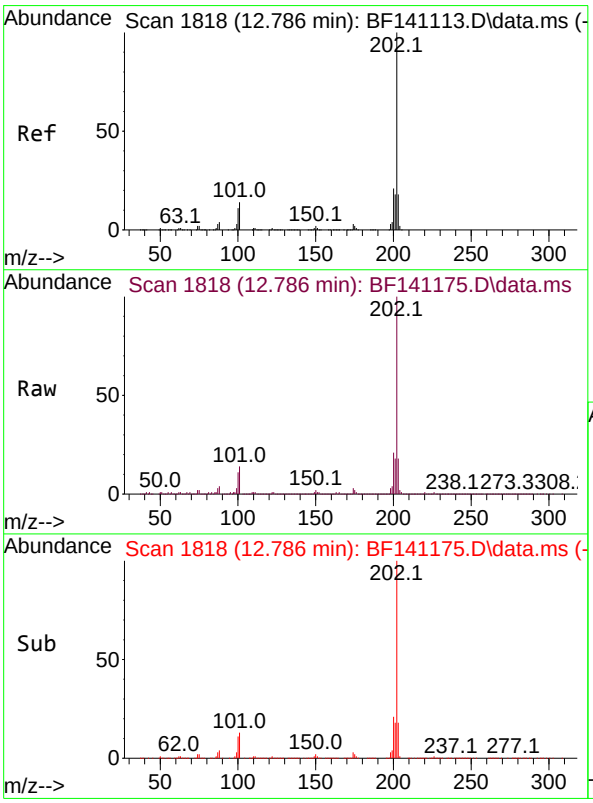
#77
Benzidine
Concen: 16.445 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:184 Resp: 98399

Ion	Ratio	Lower	Upper
184	100		
185	15.7	11.4	17.0
183	13.8	9.2	13.8#

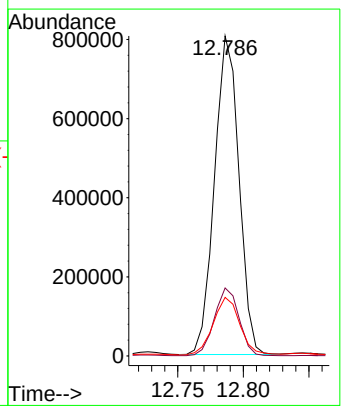


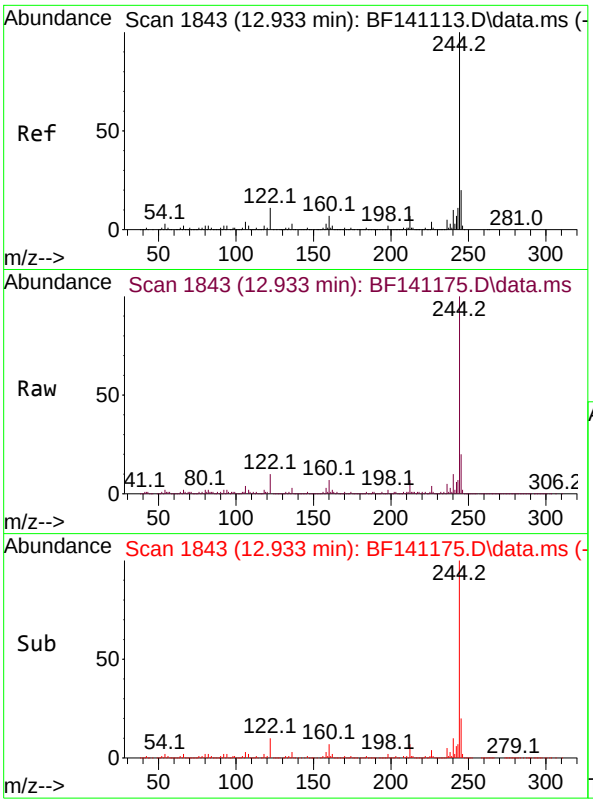


#78
Pyrene
Concen: 33.875 ng
RT: 12.786 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:202 Resp: 1043972

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	18.3	14.3	21.5



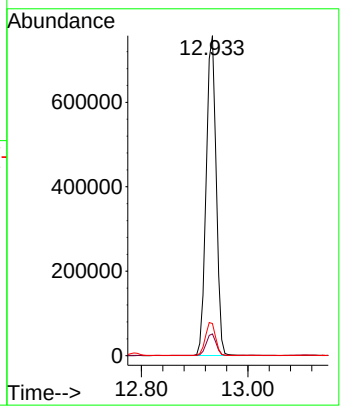


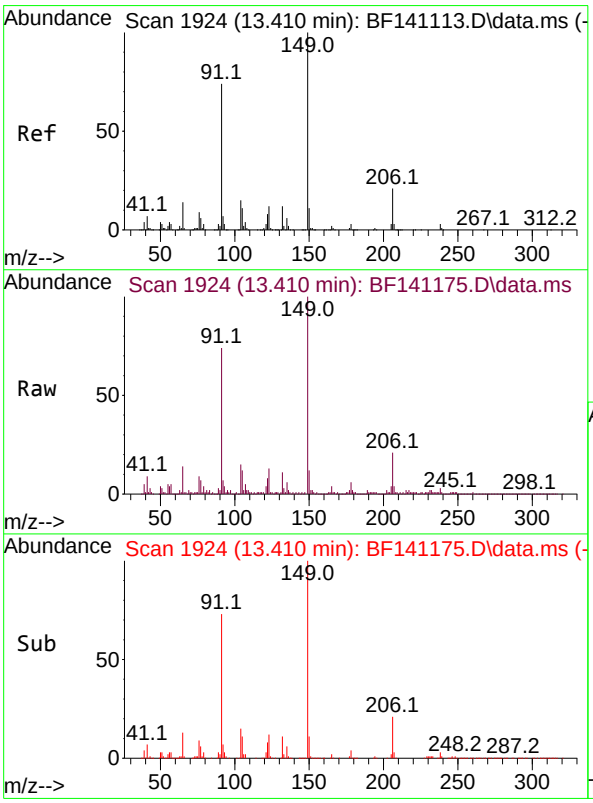
#79
Terphenyl-d14
Concen: 45.364 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:244 Resp: 984818

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.0	8.8	13.2

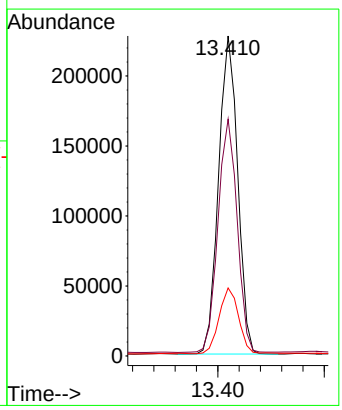


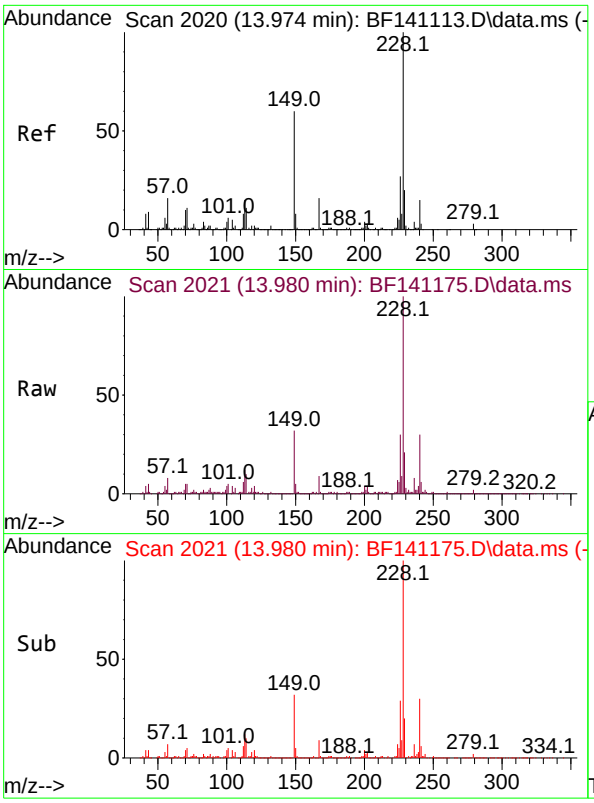


#80
Butylbenzylphthalate
Concen: 27.525 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 282822

Ion	Ratio	Lower	Upper
149	100		
91	74.0	59.0	88.6
206	21.2	16.5	24.7



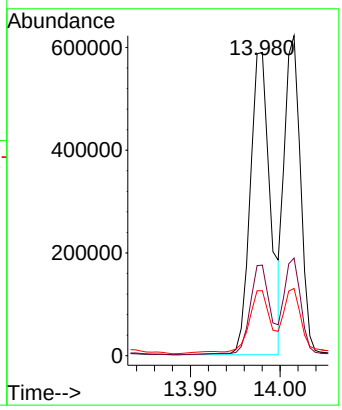


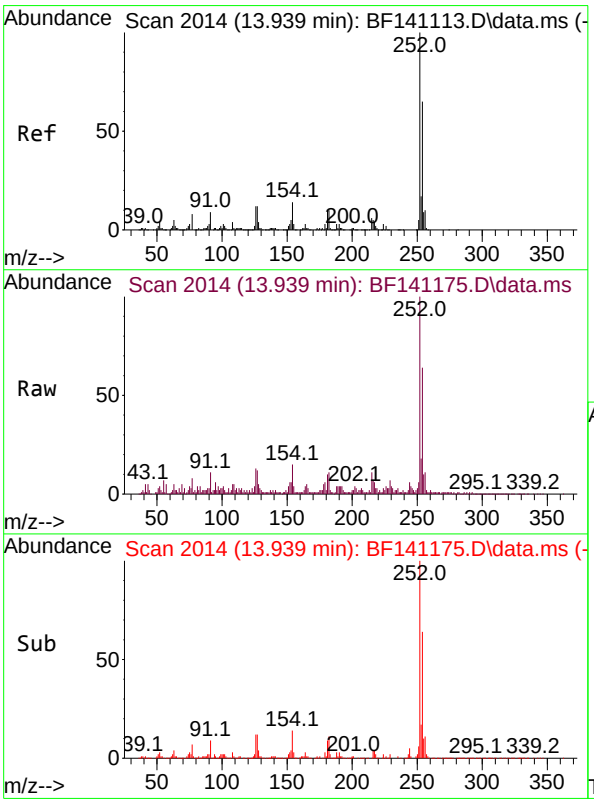
#81
Benzo(a)anthracene
Concen: 41.633 ng
RT: 13.980 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:228 Resp: 914236

Ion	Ratio	Lower	Upper
228	100		
226	29.9	21.7	32.5
229	21.4	15.7	23.5

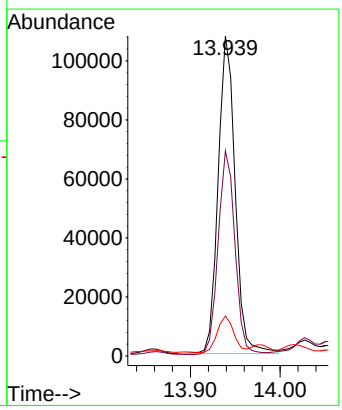


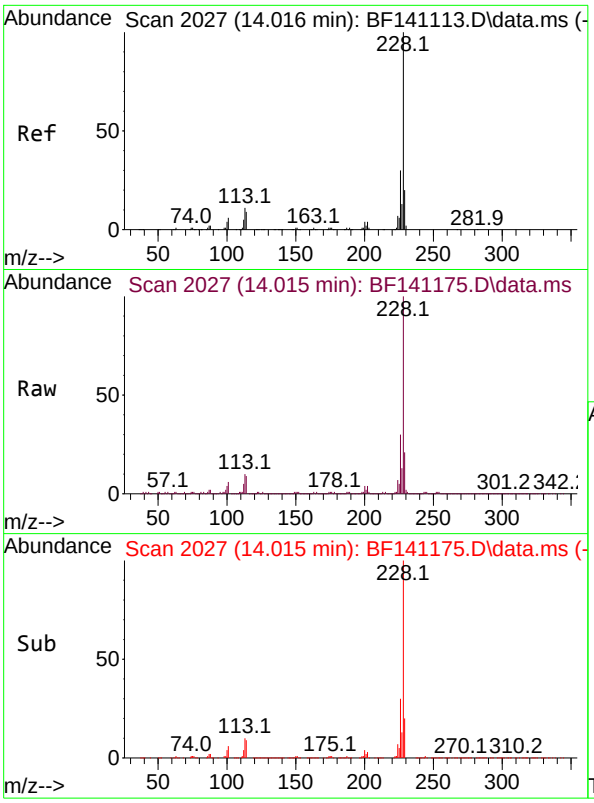


#82
3,3'-Dichlorobenzidine
Concen: 20.276 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:252 Resp: 141773

Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.0	78.0
126	12.5	9.4	14.0



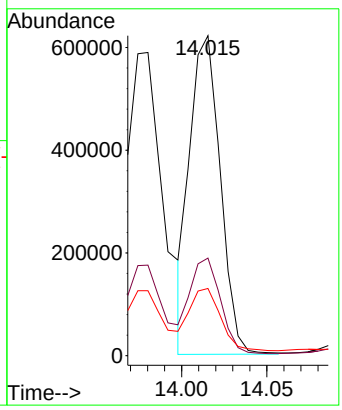


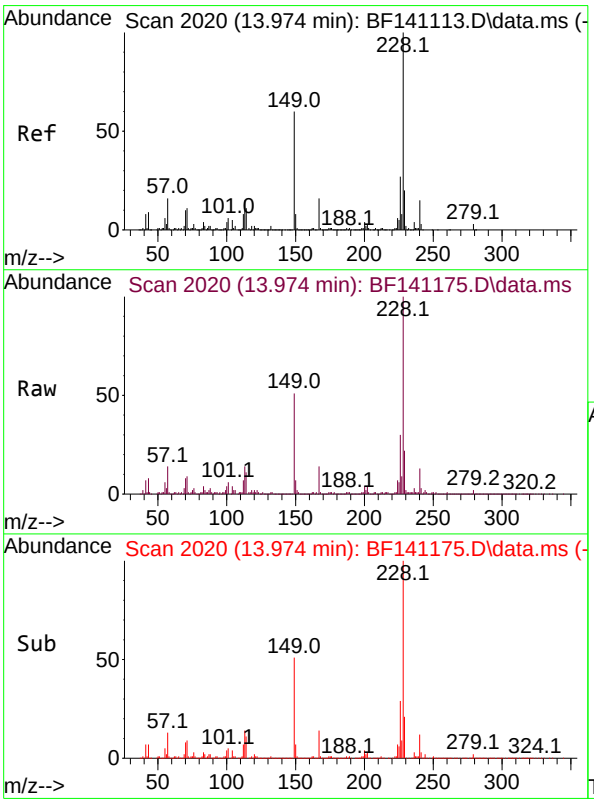
#83
Chrysene
Concen: 37.566 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:228 Resp: 771864

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	21.0	15.8	23.8

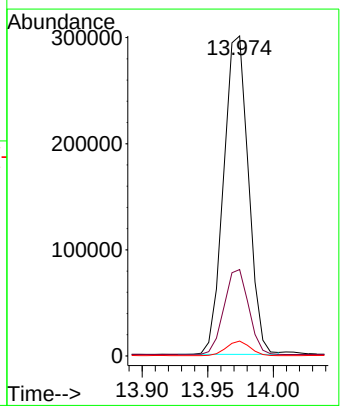


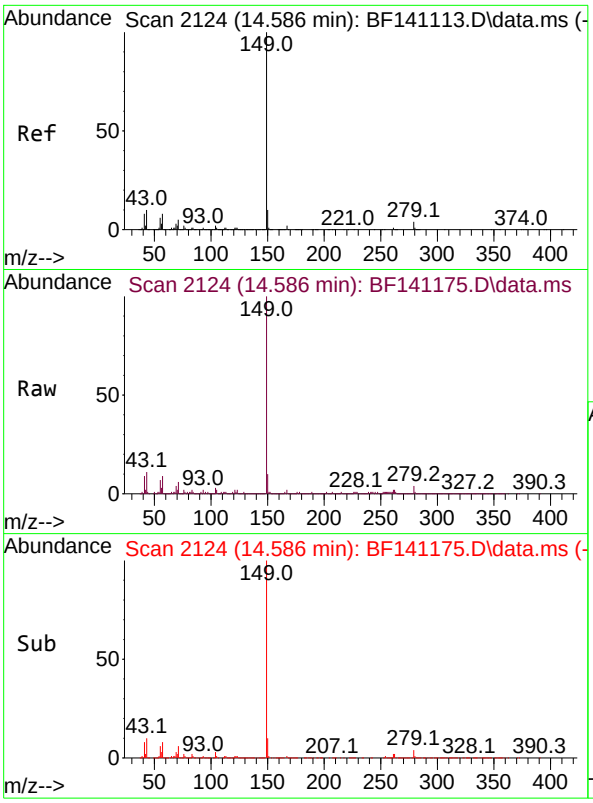


#84
Bis(2-ethylhexyl)phthalate
Concen: 31.980 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 394268

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.2
279	4.6	3.4	5.2



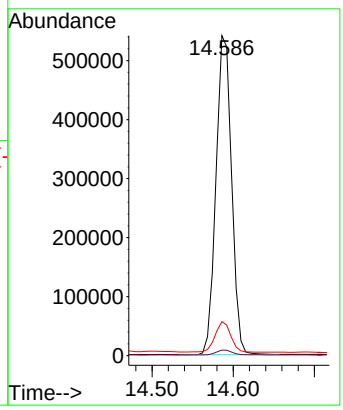


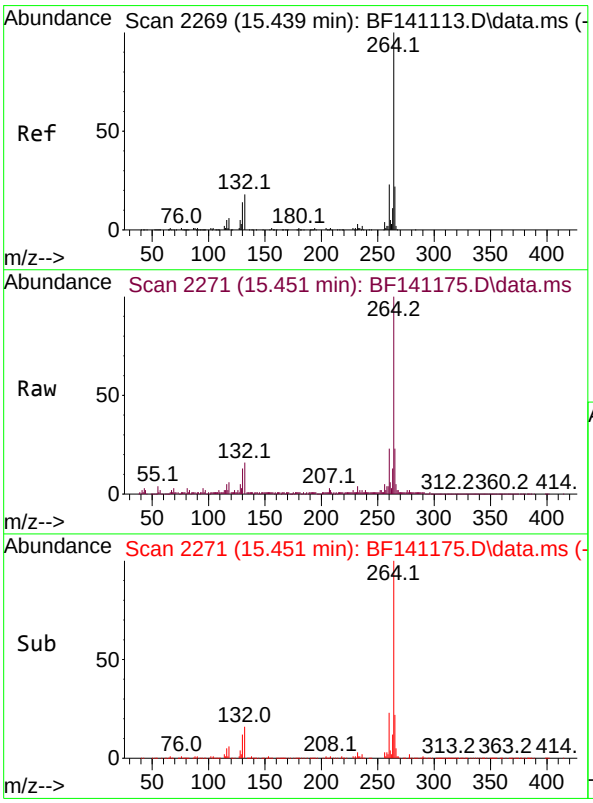
#85
Di-n-octyl phthalate
Concen: 38.895 ng
RT: 14.586 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:149 Resp: 724119

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.6	8.4	12.6

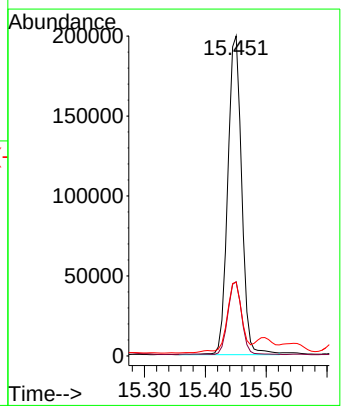


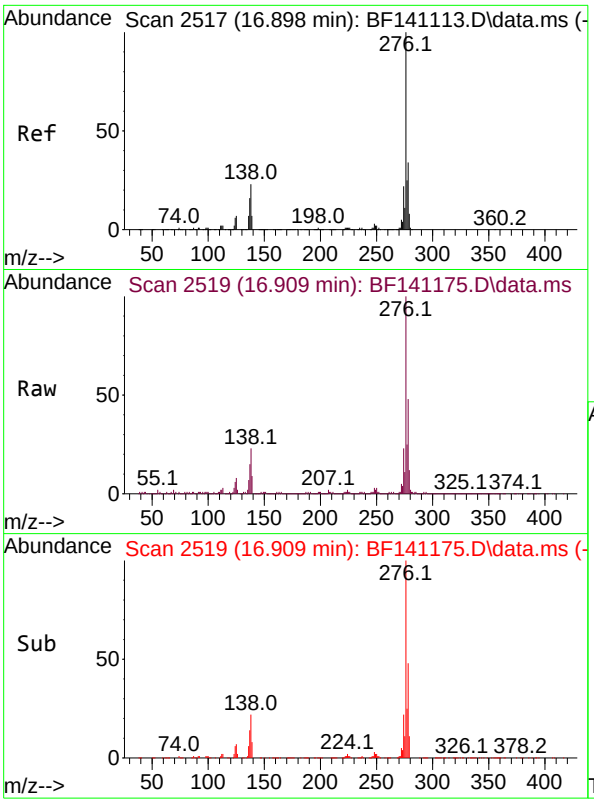


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:264 Resp: 314686

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	23.0	17.4	26.0



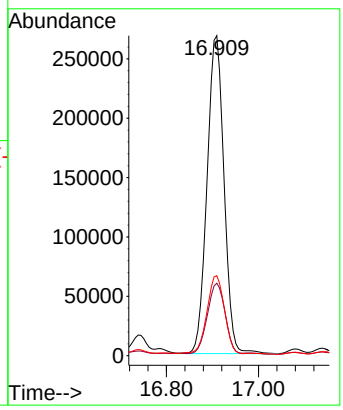


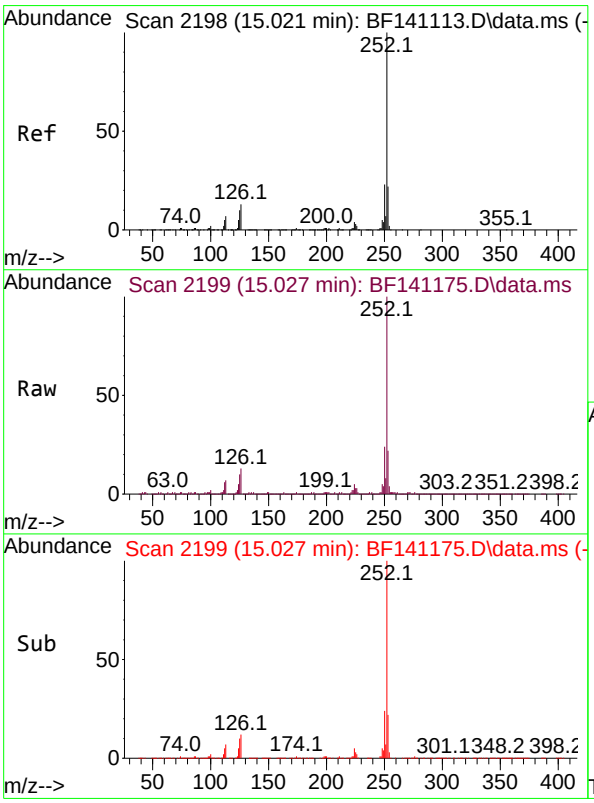
#87
Indeno(1,2,3-cd)pyrene
Concen: 29.752 ng
RT: 16.909 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:276 Resp: 685937

Ion	Ratio	Lower	Upper
276	100		
138	22.9	20.7	31.1
277	25.1	20.6	30.8

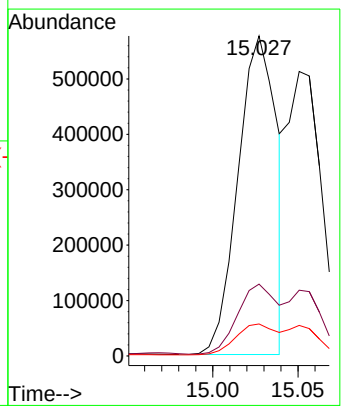


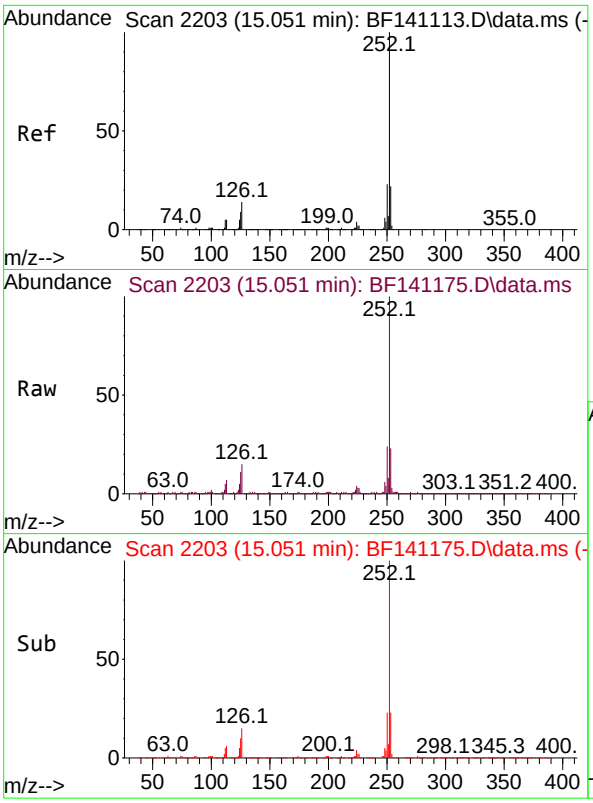


#88
Benzo(b)fluoranthene
Concen: 44.658 ng
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:252 Resp: 906206

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	10.0	8.1	12.1



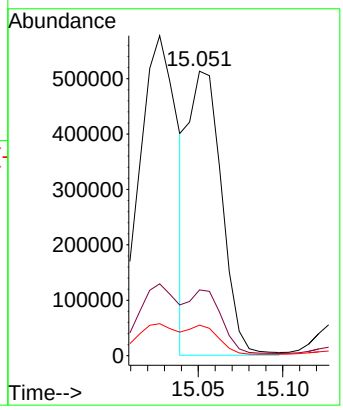


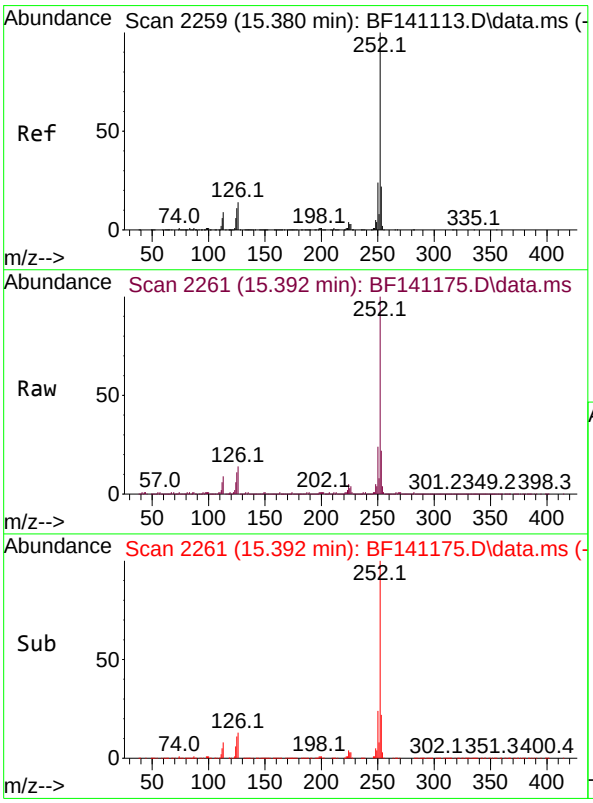
#89
Benzo(k)fluoranthene
Concen: 41.204 ng m
RT: 15.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:252 Resp: 706586

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	10.8	7.9	11.9

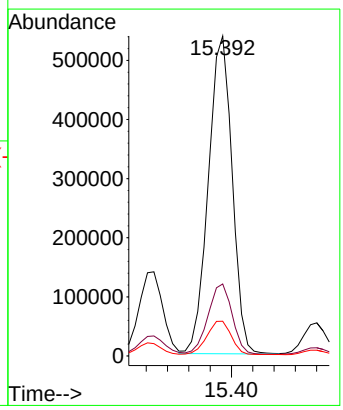


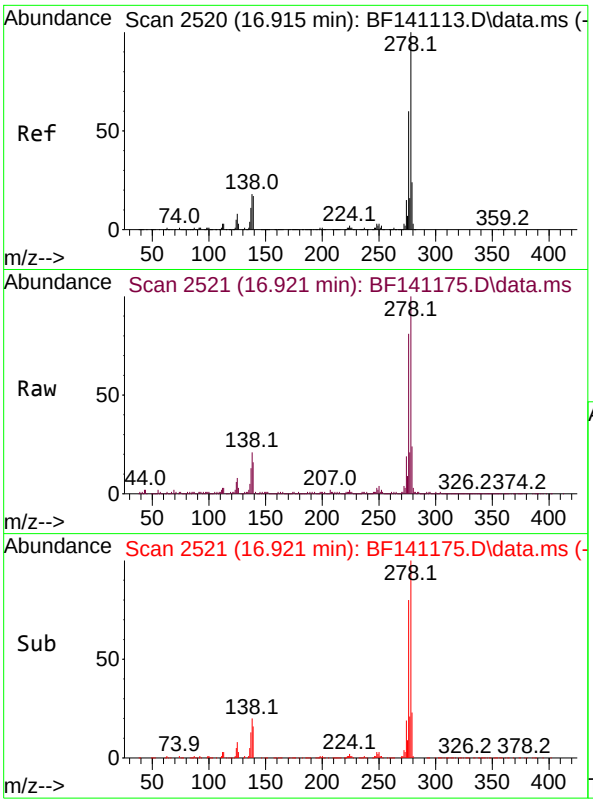


#90
Benzo(a)pyrene
Concen: 49.865 ng
RT: 15.392 min Scan# 2261
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:252 Resp: 834847

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	10.8	9.1	13.7



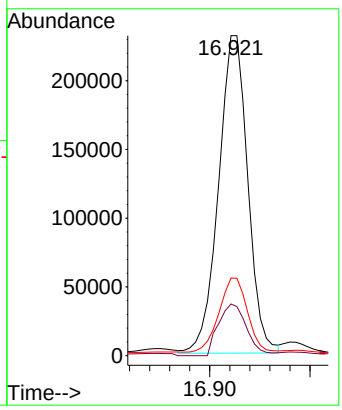


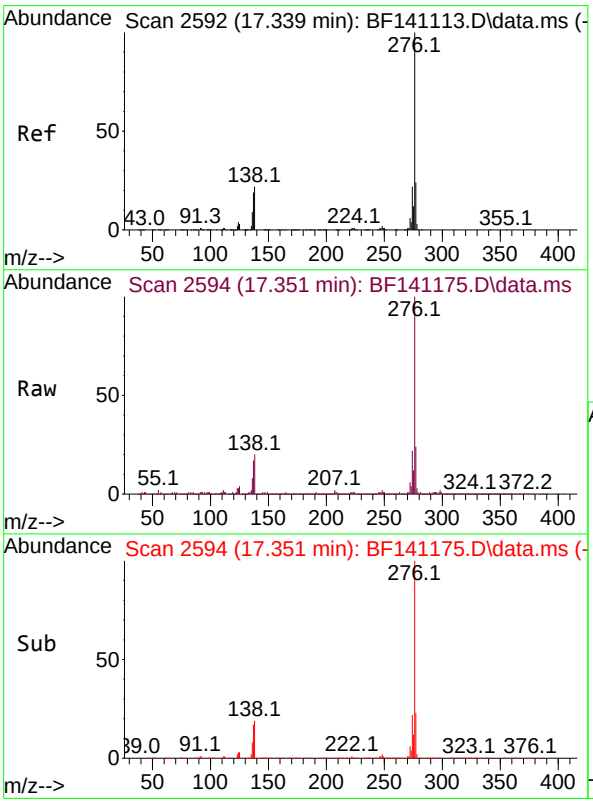
#91
Dibenzo(a,h)anthracene
Concen: 25.100 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:278 Resp: 468043

Ion	Ratio	Lower	Upper
278	100		
139	16.1	13.8	20.6
279	24.2	19.1	28.7

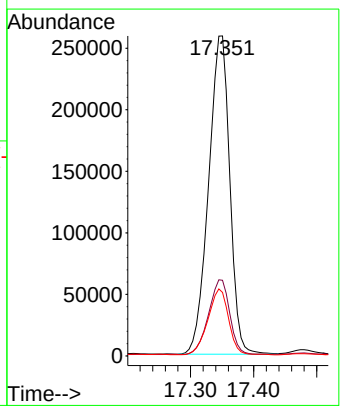




#92
Benzo(g,h,i)perylene
Concen: 31.124 ng
RT: 17.351 min Scan# 2594
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:276 Resp: 603676

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	19.8	17.4	26.2



Raw Data: **BF141176.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MSD	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.02 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
BF141176.D	1	01/13/25 08:54	01/15/25 16:40	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
100-52-7	Benzaldehyde	130	J	120	180	220	ug/Kg
108-95-2	Phenol	700		54.9	86.2	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	700		55.5	86.2	110	ug/Kg
95-57-8	2-Chlorophenol	670		55.3	86.2	110	ug/Kg
95-48-7	2-Methylphenol	700		53.4	86.2	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	660		60.2	86.2	110	ug/Kg
98-86-2	Acetophenone	690		57.6	86.2	110	ug/Kg
65794-96-9	3+4-Methylphenols	710		52.9	180	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	690		26.7	53.0	53.0	ug/Kg
67-72-1	Hexachloroethane	640		55.0	86.2	110	ug/Kg
98-95-3	Nitrobenzene	640		60.2	86.2	110	ug/Kg
78-59-1	Isophorone	700		56.1	86.2	110	ug/Kg
88-75-5	2-Nitrophenol	550		62.6	86.2	110	ug/Kg
105-67-9	2,4-Dimethylphenol	810		61.8	86.2	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	680		56.9	86.2	110	ug/Kg
120-83-2	2,4-Dichlorophenol	640		50.0	86.2	110	ug/Kg
91-20-3	Naphthalene	700		54.7	86.2	110	ug/Kg
106-47-8	4-Chloroaniline	290		54.7	86.2	110	ug/Kg
87-68-3	Hexachlorobutadiene	630		55.2	86.2	110	ug/Kg
105-60-2	Caprolactam	670		57.5	180	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	710		51.4	86.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	710		54.7	86.2	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	970		100	180	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	390		47.3	86.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	510		49.0	86.2	110	ug/Kg
92-52-4	1,1-Biphenyl	720		57.9	86.2	110	ug/Kg
91-58-7	2-Chloronaphthalene	680		55.2	86.2	110	ug/Kg
88-74-4	2-Nitroaniline	730		63.0	86.2	110	ug/Kg
131-11-3	Dimethylphthalate	720		54.1	86.2	110	ug/Kg

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MSD	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.02 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
BF141176.D	1	01/13/25 08:54	01/15/25 16:40	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	850		57.3	86.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	680		55.1	86.2	110	ug/Kg
99-09-2	3-Nitroaniline	560		59.1	86.2	110	ug/Kg
83-32-9	Acenaphthene	680		53.7	86.2	110	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	160	180	220	ug/Kg
100-02-7	4-Nitrophenol	540		76.9	180	220	ug/Kg
132-64-9	Dibenzofuran	700		55.9	86.2	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	700		57.1	86.2	110	ug/Kg
84-66-2	Diethylphthalate	710		53.1	86.2	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	700		56.7	86.2	110	ug/Kg
86-73-7	Fluorene	720		56.7	86.2	110	ug/Kg
100-01-6	4-Nitroaniline	620		70.9	86.2	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	99.8	J	77.5	180	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	840		54.1	86.2	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	780		52.3	86.2	110	ug/Kg
118-74-1	Hexachlorobenzene	740		56.3	86.2	110	ug/Kg
1912-24-9	Atrazine	990		60.6	86.2	110	ug/Kg
87-86-5	Pentachlorophenol	510		51.2	180	220	ug/Kg
85-01-8	Phenanthrene	890		55.7	86.2	110	ug/Kg
120-12-7	Anthracene	900		55.9	86.2	110	ug/Kg
86-74-8	Carbazole	730		53.2	86.2	110	ug/Kg
84-74-2	Di-n-butylphthalate	780		55.9	86.2	110	ug/Kg
206-44-0	Fluoranthene	930		54.1	86.2	110	ug/Kg
129-00-0	Pyrene	870		55.0	86.2	110	ug/Kg
85-68-7	Butylbenzylphthalate	690		64.2	86.2	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	460		65.3	180	220	ug/Kg
56-55-3	Benzo(a)anthracene	870		53.5	86.2	110	ug/Kg
218-01-9	Chrysene	900		52.7	86.2	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	770		60.3	86.2	110	ug/Kg
117-84-0	Di-n-octyl phthalate	830		72.9	180	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1100		53.7	86.2	110	ug/Kg

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	01/10/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	01/10/25
Client Sample ID:	TR-06-1-10-2025MSD	SDG No.:	Q1069
Lab Sample ID:	Q1068-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.5
Sample Wt/Vol:	50.02 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
BF141176.D	1	01/13/25 08:54	01/15/25 16:40	PB166035

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	890		54.7	86.2	110	ug/Kg
50-32-8	Benzo(a)pyrene	1200		61.6	86.2	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	730		51.8	86.2	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	610		53.8	86.2	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	770		53.1	86.2	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	720		57.5	86.2	110	ug/Kg
123-91-1	1,4-Dioxane	540		72.9	86.2	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	290		49.5	86.2	110	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	74.2		35 - 115		49%	SPK: 150
13127-88-3	Phenol-d6	88.2		34 - 127		59%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.1		37 - 122		62%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.6		44 - 115		63%	SPK: 100
118-79-6	2,4,6-Tribromophenol	37.1	*	39 - 132		25%	SPK: 150
1718-51-0	Terphenyl-d14	52.3	*	54 - 127		52%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.822				
1146-65-2	Naphthalene-d8	569000	8.104				
15067-26-2	Acenaphthene-d10	295000	9.863				
1517-22-2	Phenanthrene-d10	427000	11.345				
1719-03-5	Chrysene-d12	307000	13.992				
1520-96-3	Perylene-d12	256000	15.468				

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\BF011525\
Data File : BF141176.D
Acq On : 15 Jan 2025 16:40
Operator : RC/JU
Sample : Q1068-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Quant Time: Jan 15 17:10:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	143081	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	569188	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	294771	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	427420	20.000	ng		0.00
76) Chrysene-d12	13.992	240	307236	20.000	ng		0.00
86) Perylene-d12	15.468	264	256318	20.000	ng		0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	687064	74.180	ng		0.00
7) Phenol-d6	6.445	99	1035177	88.232	ng		0.00
23) Nitrobenzene-d5	7.381	82	666857	62.104	ng		0.00
42) 2,4,6-Tribromophenol	10.645	330	124689	37.124	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1207713	62.565	ng		0.00
79) Terphenyl-d14	12.933	244	1080678	52.280	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	99902	24.221	ng		99
3) Pyridine	3.316	79	249451	24.663	ng		96
4) n-Nitrosodimethylamine	3.257	42	144877	29.295	ng		98
6) Aniline	6.481	93	163222	15.670	ng		97
8) 2-Chlorophenol	6.604	128	300320	30.222	ng		96
9) Benzaldehyde	6.369	77	40776	5.901	ng		94
10) Phenol	6.463	94	396493	31.570	ng		99
11) bis(2-Chloroethyl)ether	6.557	93	295551	31.577	ng		97
12) 1,3-Dichlorobenzene	6.763	146	316476	28.555	ng		98
13) 1,4-Dichlorobenzene	6.840	146	323869	28.999	ng		99
14) 1,2-Dichlorobenzene	6.992	146	315295	30.265	ng		97
15) Benzyl Alcohol	6.957	79	280336	33.086	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.092	45	390750	29.918	ng		97
17) 2-Methylphenol	7.069	107	253262	31.569	ng		99
18) Hexachloroethane	7.334	117	116502	28.846	ng		99
19) n-Nitroso-di-n-propyla...	7.234	70	214591	31.050	ng		98
20) 3+4-Methylphenols	7.222	107	324187	32.030	ng	#	87
22) Acetophenone	7.228	105	420478	31.075	ng		97
24) Nitrobenzene	7.404	77	325628	29.097	ng		97
25) Isophorone	7.639	82	583759	31.812	ng		99
26) 2-Nitrophenol	7.716	139	127008	24.949	ng		97
27) 2,4-Dimethylphenol	7.757	122	250815	36.528	ng		99
28) bis(2-Chloroethoxy)met...	7.851	93	356419	30.949	ng		99
29) 2,4-Dichlorophenol	7.957	162	236851	29.043	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	268865	28.843	ng		100
31) Naphthalene	8.128	128	948739	31.607	ng		100
32) Benzoic acid	7.869	122	10799m	1.639	ng		
33) 4-Chloroaniline	8.175	127	134518	12.958	ng		99
34) Hexachlorobutadiene	8.245	225	159147	28.334	ng		99
35) Caprolactam	8.522	113	81493	30.523	ng		96
36) 4-Chloro-3-methylphenol	8.651	107	284843	31.937	ng		98
37) 2-Methylnaphthalene	8.816	142	614978	32.151	ng		99
38) 1-Methylnaphthalene	8.916	142	571584	30.321	ng		99
40) 1,2,4,5-Tetrachloroben...	8.981	216	274538	32.449	ng		99
41) Hexachlorocyclopentadiene	8.969	237	121583	43.925	ng		98
43) 2,4,6-Trichlorophenol	9.092	196	101888	17.856	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141176.D
Acq On : 15 Jan 2025 16:40
Operator : RC/JU
Sample : Q1068-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Quant Time: Jan 15 17:10:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

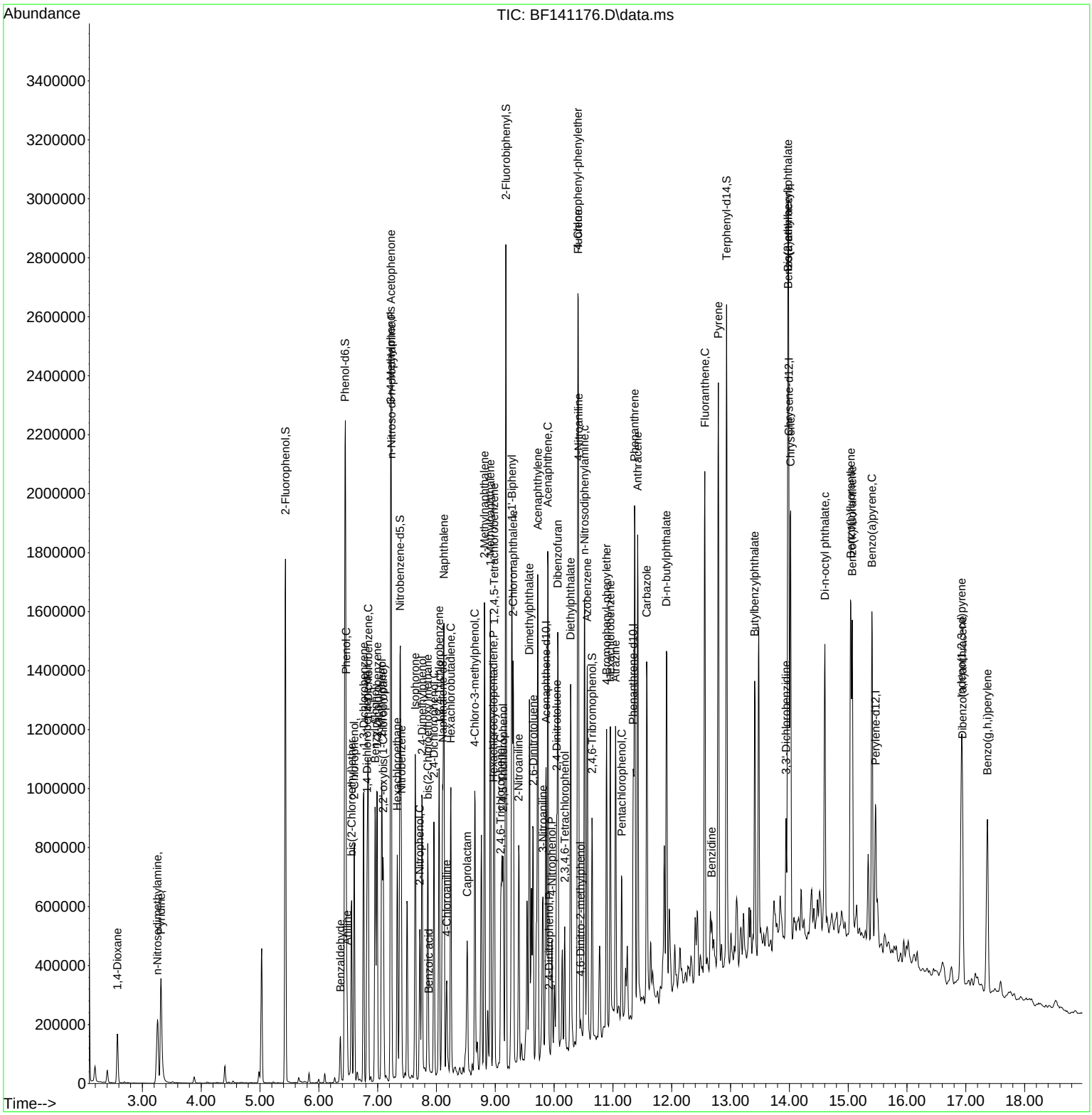
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	137849	22.875	ng		99
46) 1,1'-Biphenyl	9.281	154	744386	32.517	ng		99
47) 2-Chloronaphthalene	9.304	162	549279	30.807	ng		99
48) 2-Nitroaniline	9.398	65	173916	32.905	ng		98
49) Acenaphthylene	9.722	152	977297	38.365	ng		99
50) Dimethylphthalate	9.581	163	646040	32.646	ng		99
51) 2,6-Dinitrotoluene	9.645	165	141448	30.737	ng		98
52) Acenaphthene	9.892	154	549398	30.870	ng		99
53) 3-Nitroaniline	9.810	138	118024	25.238	ng		100
54) 2,4-Dinitrophenol	9.916	184	5836	2.668	ng	#	1
55) Dibenzofuran	10.063	168	772302	31.903	ng		99
56) 4-Nitrophenol	9.963	139	89059	24.317	ng		99
57) 2,4-Dinitrotoluene	10.045	165	186784	31.495	ng		99
58) Fluorene	10.410	166	609361	32.401	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.181	232	66467	13.269	ng		99
60) Diethylphthalate	10.280	149	620252	32.105	ng		100
61) 4-Chlorophenyl-phenyle...	10.404	204	289829	31.619	ng		98
62) 4-Nitroaniline	10.416	138	128687	28.115	ng		98
63) Azobenzene	10.563	77	634488	33.284	ng		95
65) 4,6-Dinitro-2-methylph...	10.451	198	11195	4.520	ng		83
66) n-Nitrosodiphenylamine	10.516	169	522412	37.894	ng		99
67) 4-Bromophenyl-phenylether	10.892	248	173354	35.228	ng		97
68) Hexachlorobenzene	10.957	284	184199	33.626	ng		99
69) Atrazine	11.045	200	166855	44.950	ng		99
70) Pentachlorophenol	11.151	266	80199	22.862	ng		97
71) Phenanthrene	11.369	178	928440	40.461	ng		99
72) Anthracene	11.422	178	906732	40.638	ng		100
73) Carbazole	11.575	167	673943	32.941	ng		100
74) Di-n-butylphthalate	11.910	149	828354	35.379	ng		100
75) Fluoranthene	12.563	202	966493	42.207	ng		99
77) Benzidine	12.680	184	84383	14.811	ng	#	94
78) Pyrene	12.792	202	1159012	39.496	ng		99
80) Butylbenzylphthalate	13.410	149	305345	31.209	ng		99
81) Benzo(a)anthracene	13.980	228	820834	39.257	ng		95
82) 3,3'-Dichlorobenzidine	13.945	252	137413	20.639	ng		98
83) Chrysene	14.021	228	795763	40.674	ng		98
84) Bis(2-ethylhexyl)phtha...	13.974	149	407859	34.743	ng		100
85) Di-n-octyl phthalate	14.604	149	663939	37.454	ng		98
87) Indeno(1,2,3-cd)pyrene	16.927	276	619424	32.986	ng		96
88) Benzo(b)fluoranthene	15.045	252	796990	48.220	ng		99
89) Benzo(k)fluoranthene	15.068	252	562619m	40.280	ng		
90) Benzo(a)pyrene	15.404	252	714424	52.390	ng		100
91) Dibenzo(a,h)anthracene	16.945	278	422648	27.827	ng		98
92) Benzo(g,h,i)perylene	17.368	276	551001	34.878	ng		99

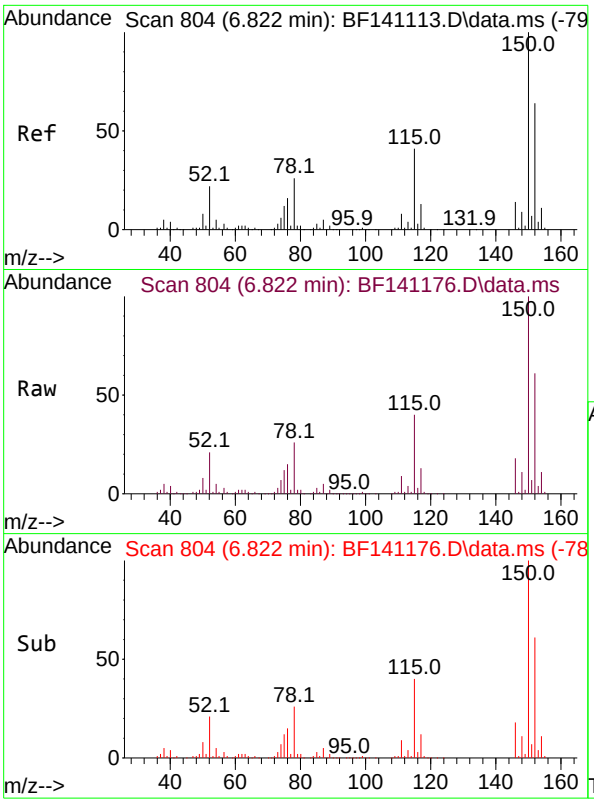
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141176.D
Acq On : 15 Jan 2025 16:40
Operator : RC/JU
Sample : Q1068-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Quant Time: Jan 15 17:10:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



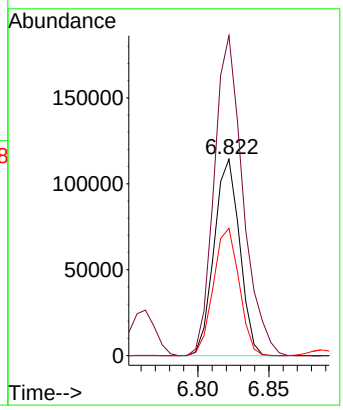


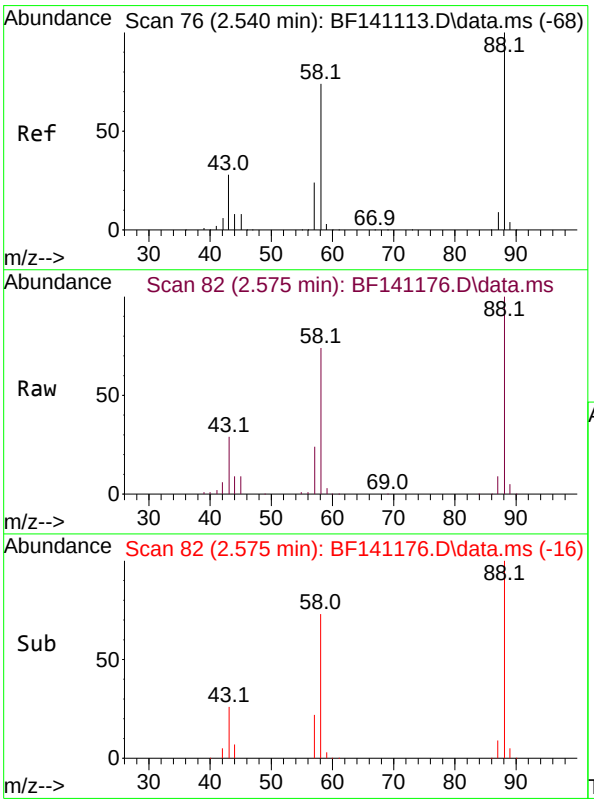
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:152 Resp: 143081

Ion	Ratio	Lower	Upper
152	100		
150	162.9	125.8	188.8
115	64.9	51.4	77.2

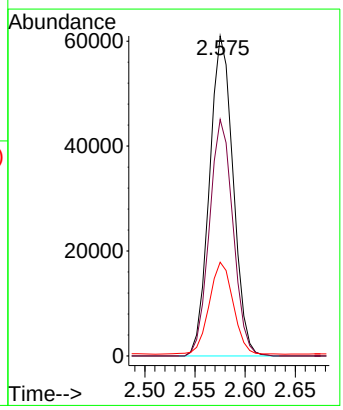


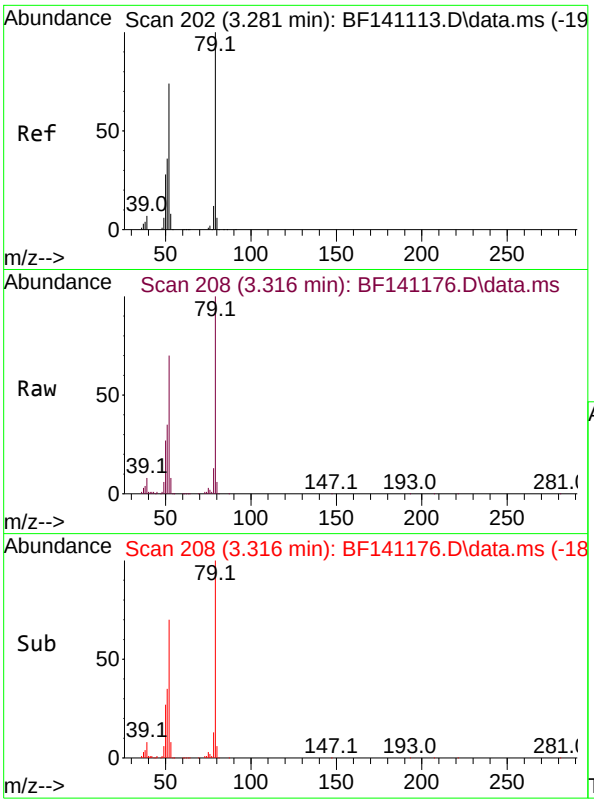


#2
1,4-Dioxane
Concen: 24.221 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.035 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 88 Resp: 99902

Ion	Ratio	Lower	Upper
88	100		
58	73.9	60.1	90.1
43	29.2	23.1	34.7



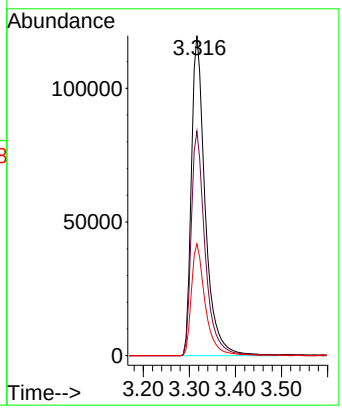


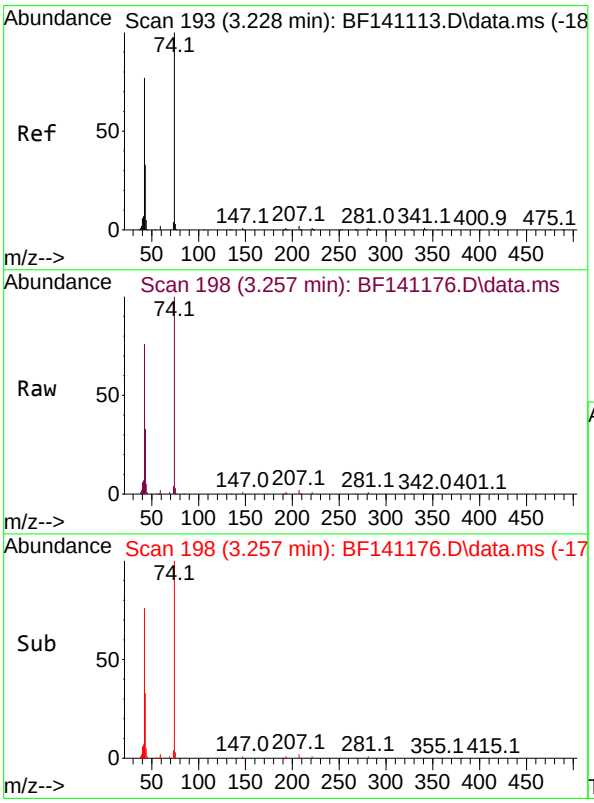
#3
Pyridine
Concen: 24.663 ng
RT: 3.316 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 79 Resp: 249451

Ion	Ratio	Lower	Upper
79	100		
52	70.2	58.9	88.3
51	35.0	29.1	43.7

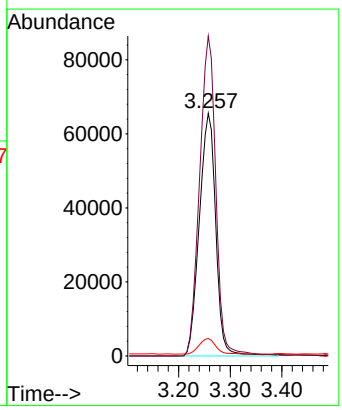


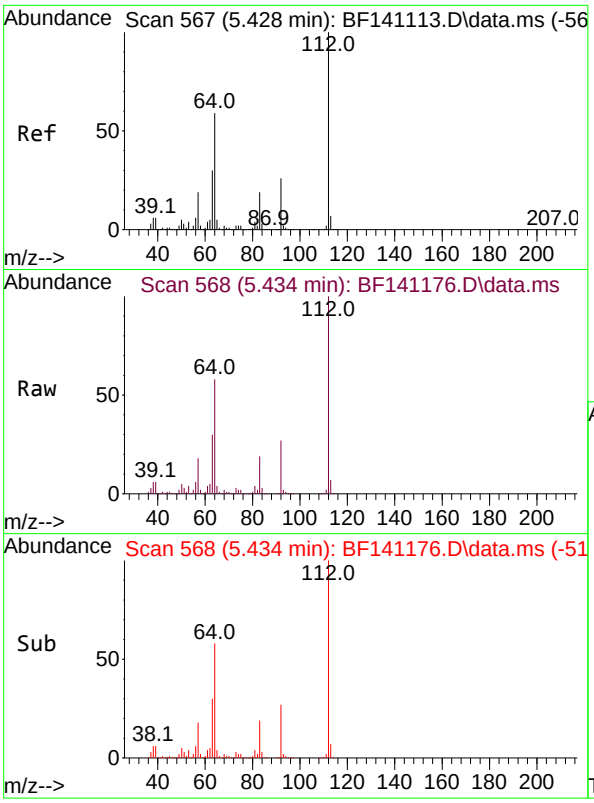


#4
n-Nitrosodimethylamine
Concen: 29.295 ng
RT: 3.257 min Scan# 198
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 42 Resp: 144877

Ion	Ratio	Lower	Upper
42	100		
74	131.8	103.8	155.6
44	7.2	5.3	7.9



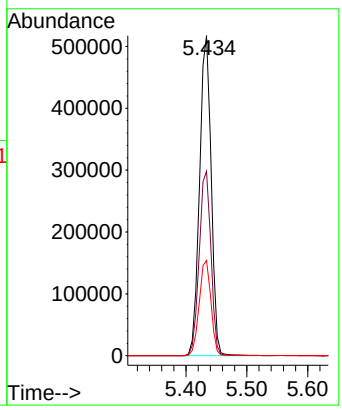


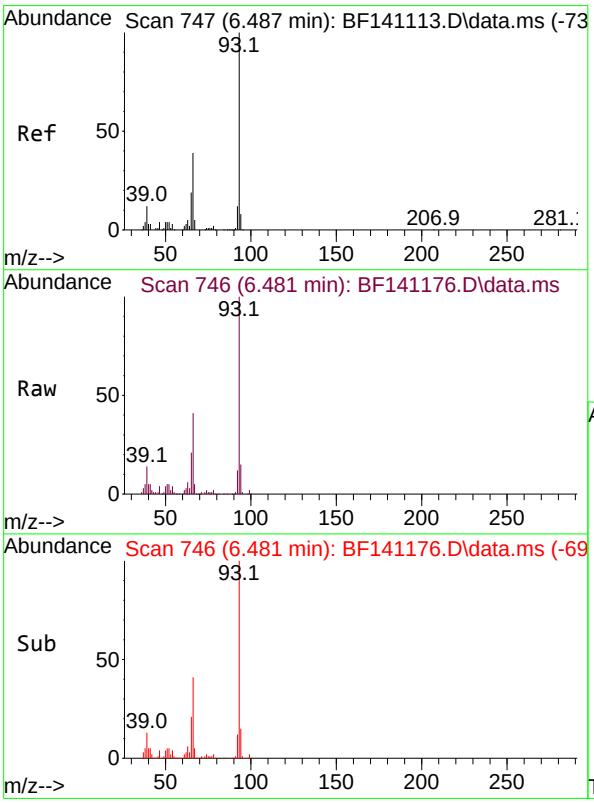
#5
2-Fluorophenol
Concen: 74.180 ng
RT: 5.434 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:112 Resp: 687064

Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.3	70.9
63	29.8	24.2	36.2

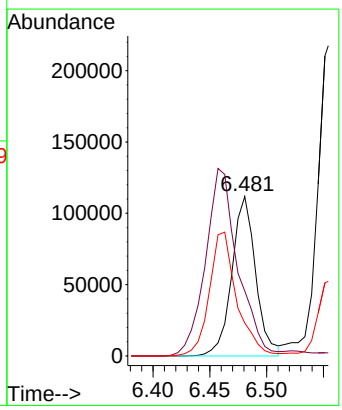


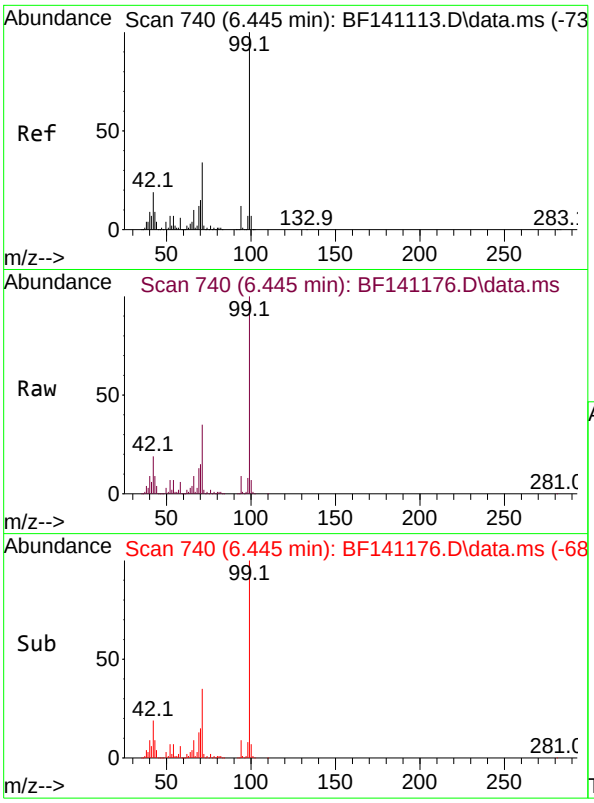


#6
Aniline
Concen: 15.670 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 93 Resp: 163222

Ion	Ratio	Lower	Upper
93	100		
66	40.7	31.5	47.3
65	20.7	15.3	22.9



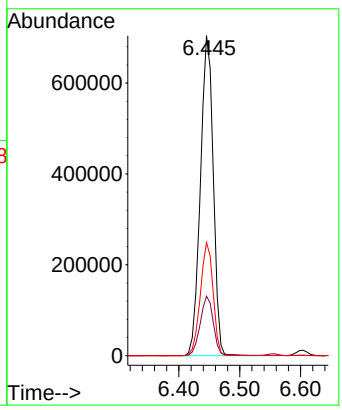


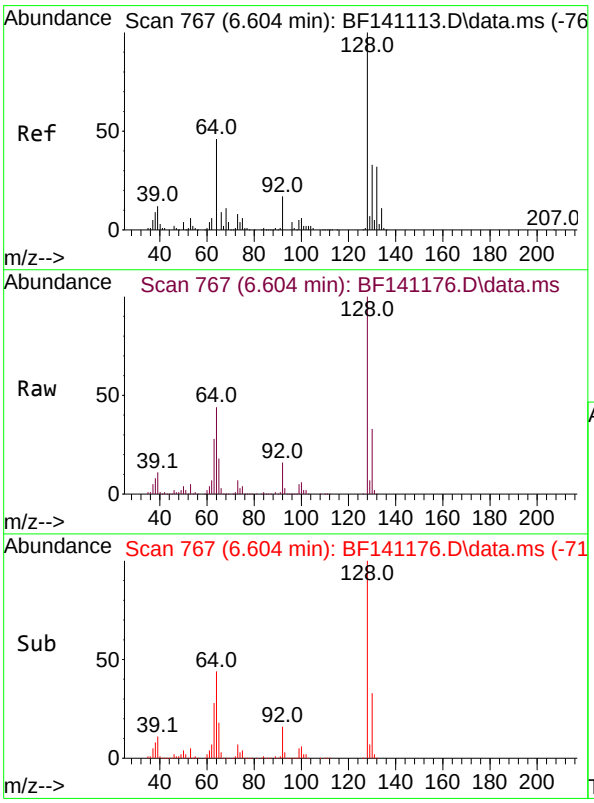
#7
Phenol-d6
Concen: 88.232 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 99 Resp: 1035177

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.0	22.4
71	35.4	27.6	41.4

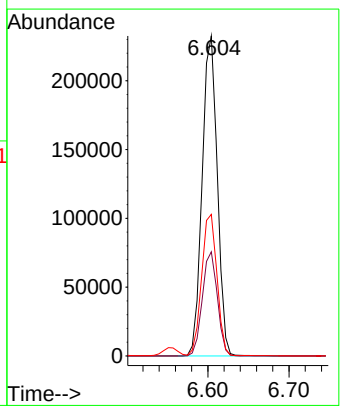


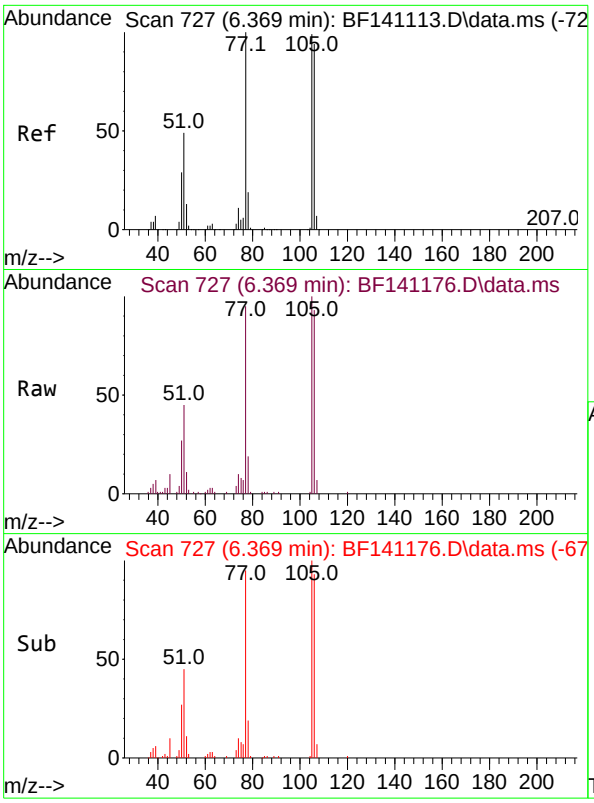


#8
2-Chlorophenol
Concen: 30.222 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:128 Resp: 300320

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.5	52.5
64	44.2	28.3	68.3



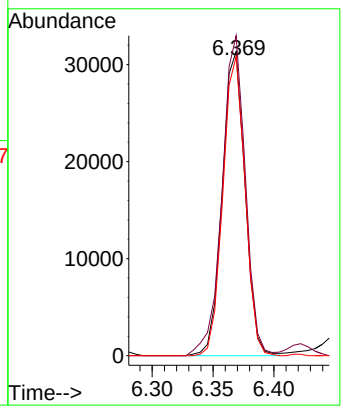


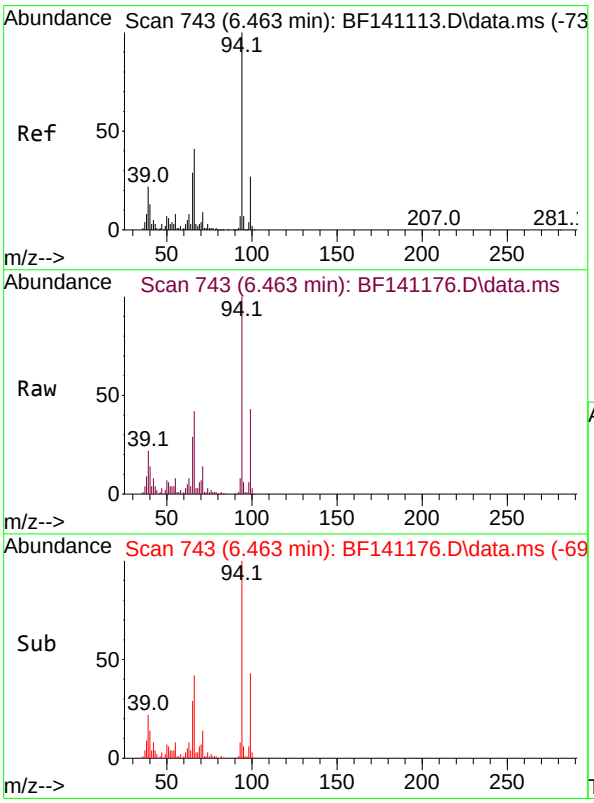
#9
Benzaldehyde
Concen: 5.901 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 77 Resp: 40776

Ion	Ratio	Lower	Upper
77	100		
105	105.2	78.9	118.9
106	98.4	73.6	113.6

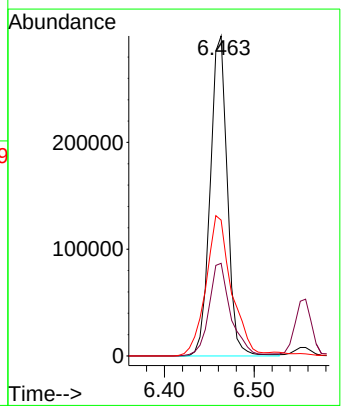


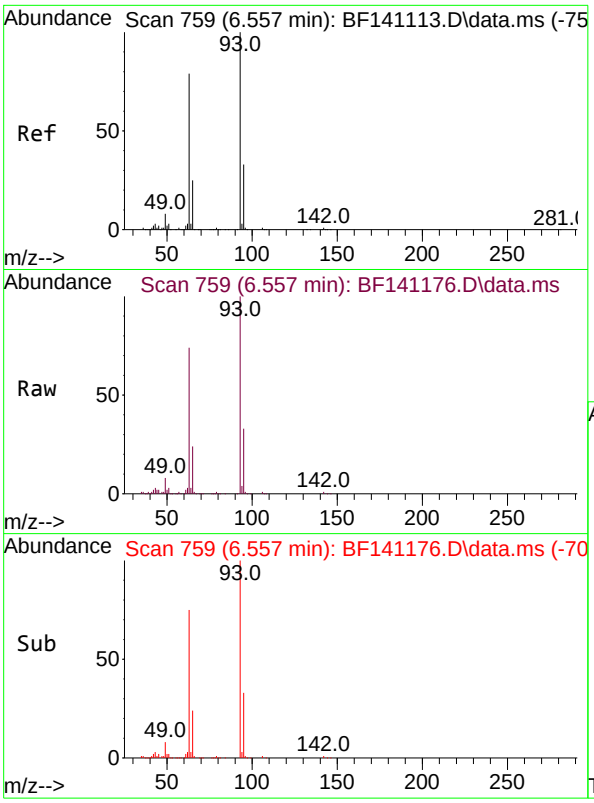


#10
Phenol
Concen: 31.570 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 94 Resp: 396493

Ion	Ratio	Lower	Upper
94	100		
65	29.0	8.9	48.9
66	42.4	21.2	61.2



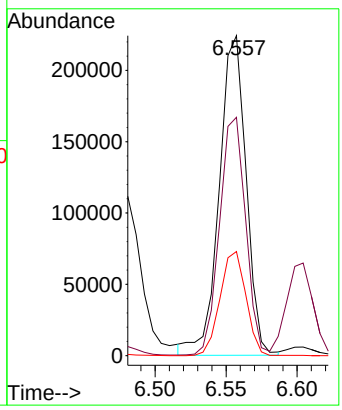


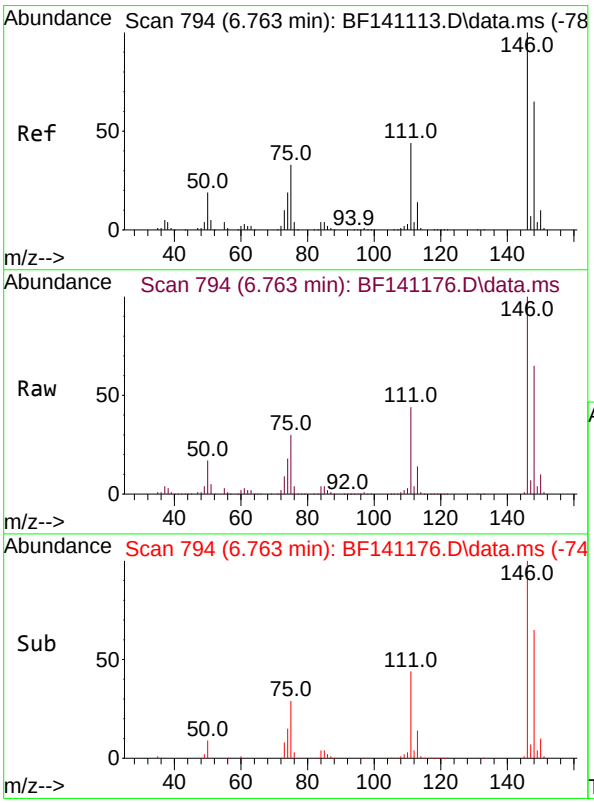
#11
bis(2-Chloroethyl)ether
Concen: 31.577 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 93 Resp: 295551

Ion	Ratio	Lower	Upper
93	100		
63	74.5	58.0	98.0
95	32.5	12.5	52.5

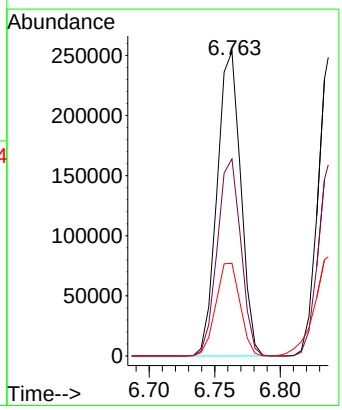


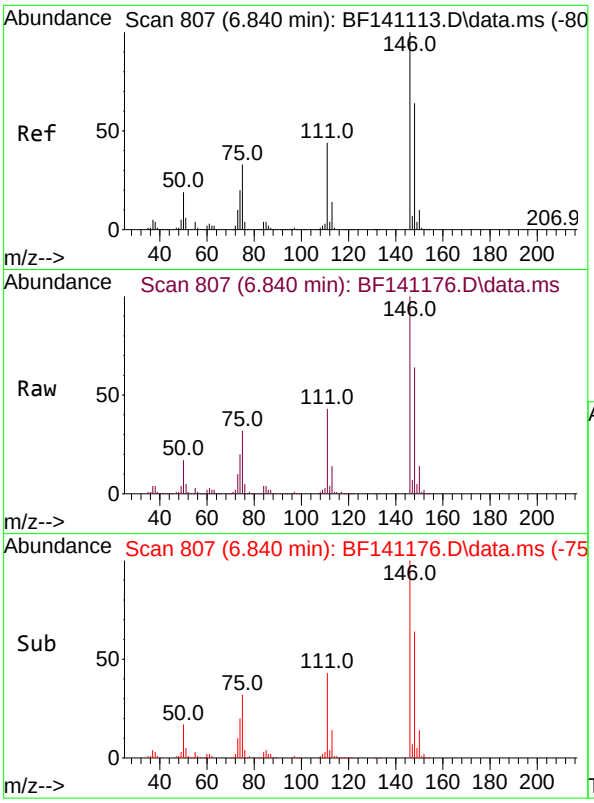


#12
1,3-Dichlorobenzene
Concen: 28.555 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:146 Resp: 316476

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.6	77.4
75	30.4	26.2	39.2



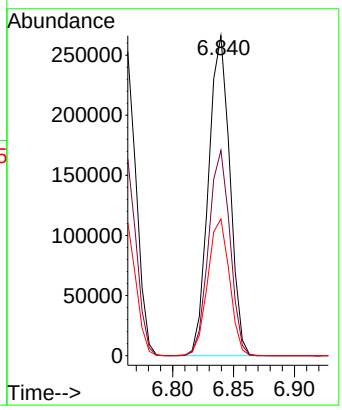


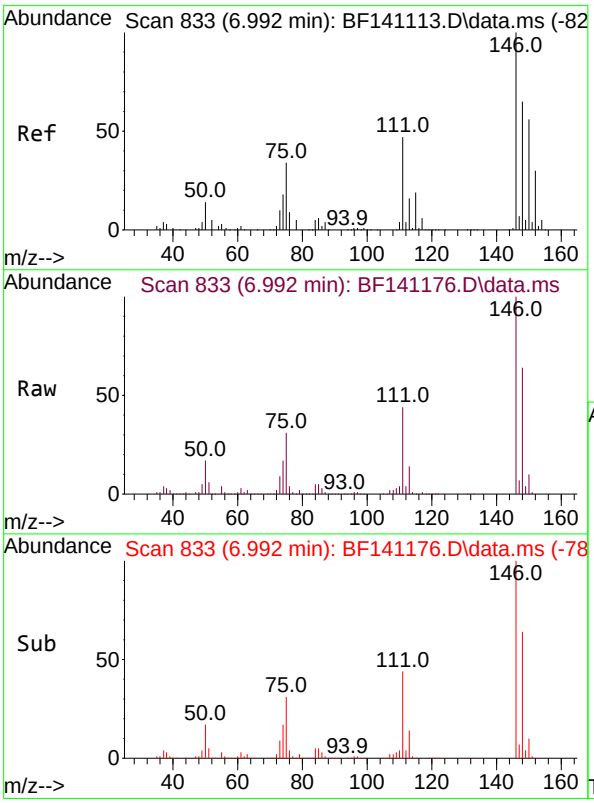
#13
1,4-Dichlorobenzene
Concen: 28.999 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:146 Resp: 323869

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	42.8	34.9	52.3

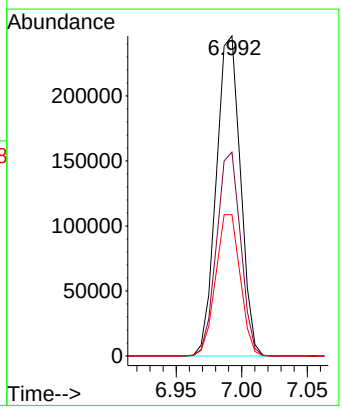


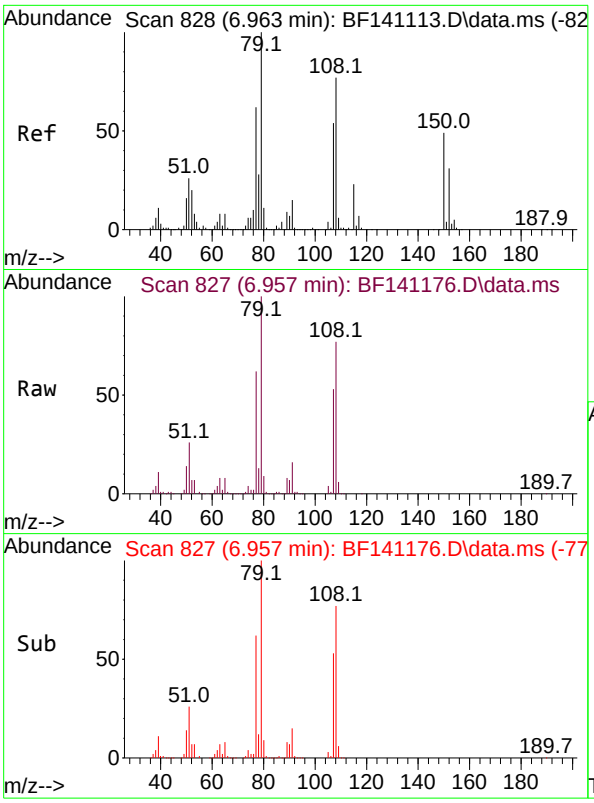


#14
1,2-Dichlorobenzene
Concen: 30.265 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:146 Resp: 315295

Ion	Ratio	Lower	Upper
146	100		
148	63.7	52.2	78.4
111	44.1	37.5	56.3



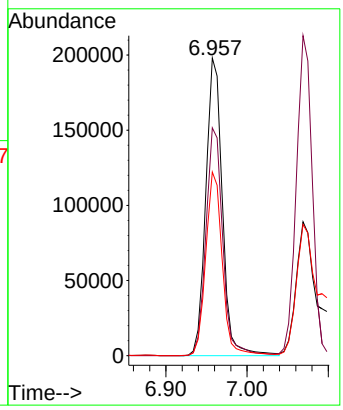


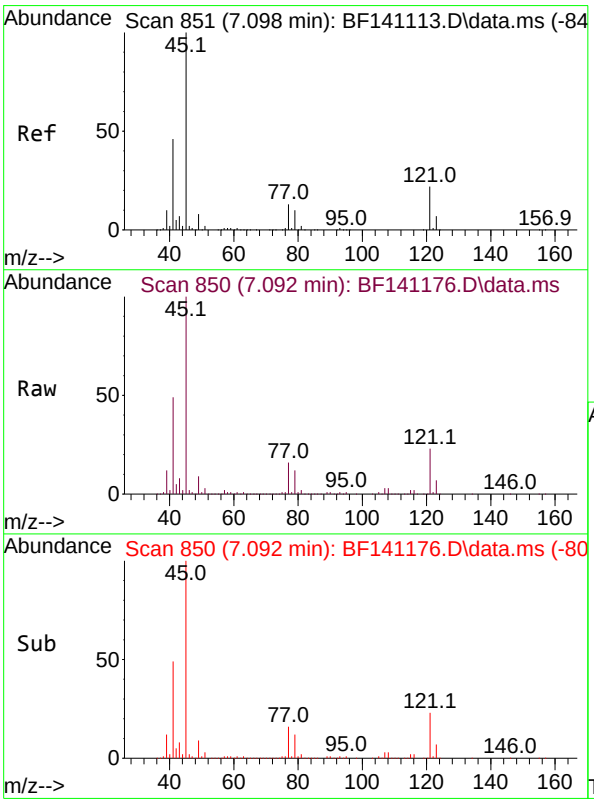
#15
Benzyl Alcohol
Concen: 33.086 ng
RT: 6.957 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 79 Resp: 280336

Ion	Ratio	Lower	Upper
79	100		
108	76.5	61.4	92.0
77	61.7	49.8	74.6

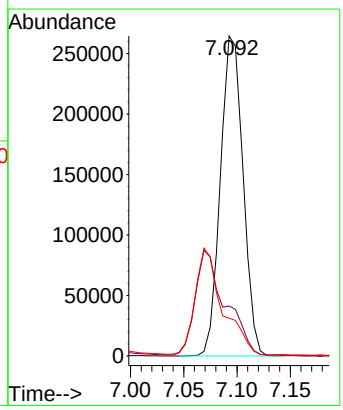


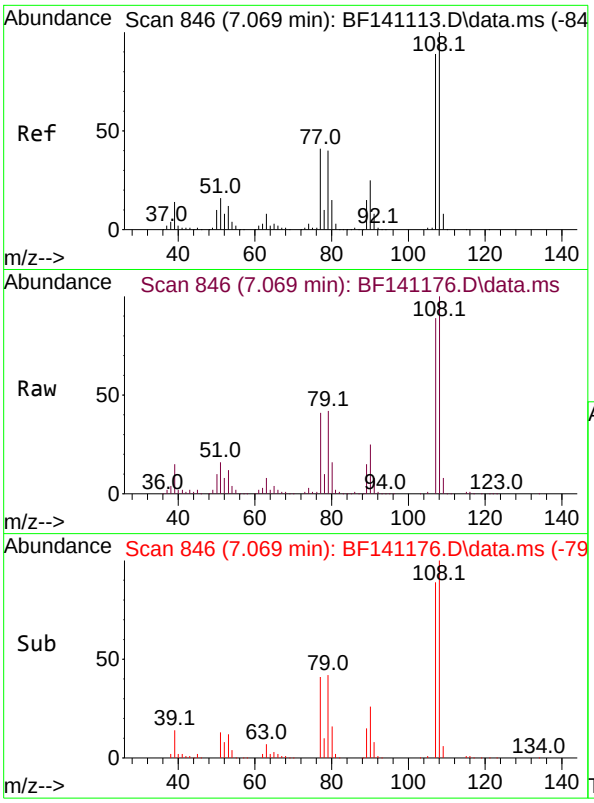


#16
2,2'-oxybis(1-Chloropropane)
Concen: 29.918 ng
RT: 7.092 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 45 Resp: 390750

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.1
79	11.8	0.0	31.0



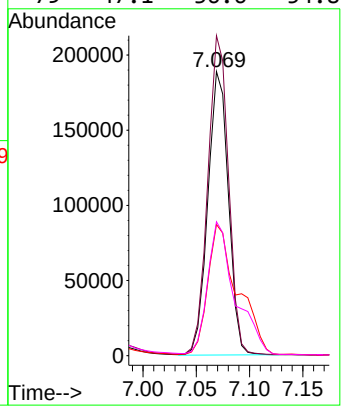


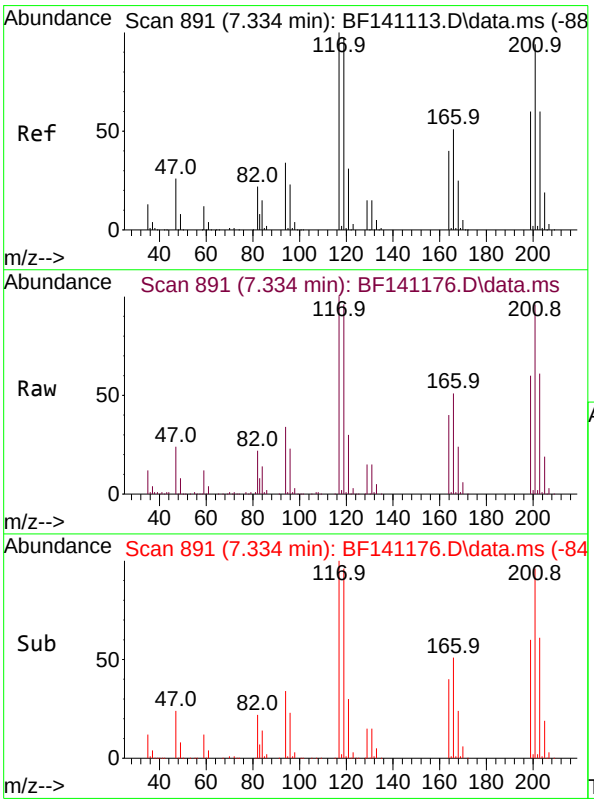
#17
2-Methylphenol
Concen: 31.569 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:107 Resp: 253262

Ion	Ratio	Lower	Upper
107	100		
108	112.6	90.1	135.1
77	46.2	36.6	55.0
79	47.1	36.6	54.8

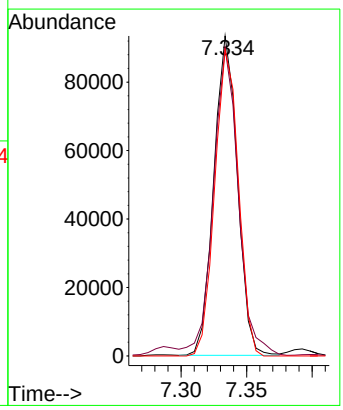


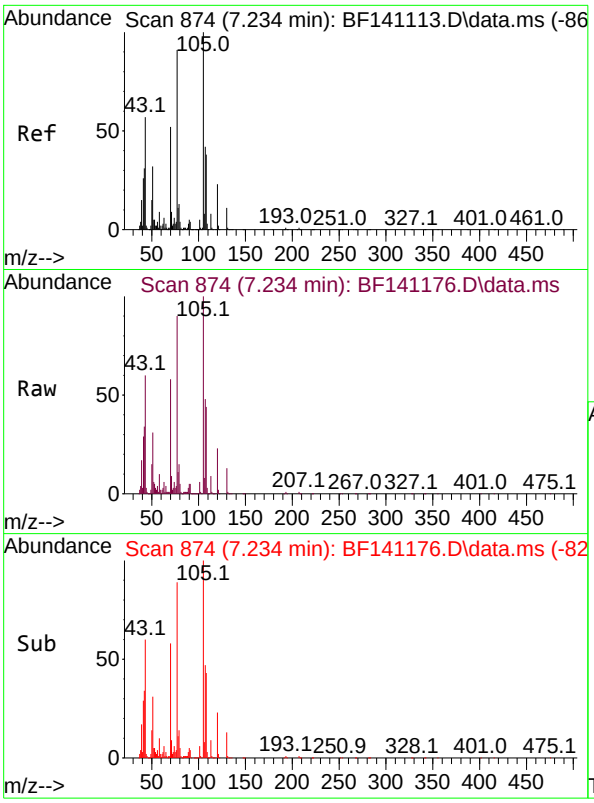


#18
Hexachloroethane
Concen: 28.846 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:117 Resp: 116502

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.6	116.4
201	95.7	75.1	112.7



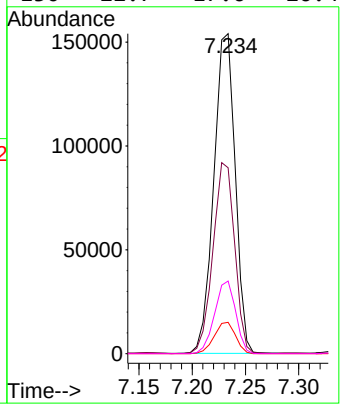


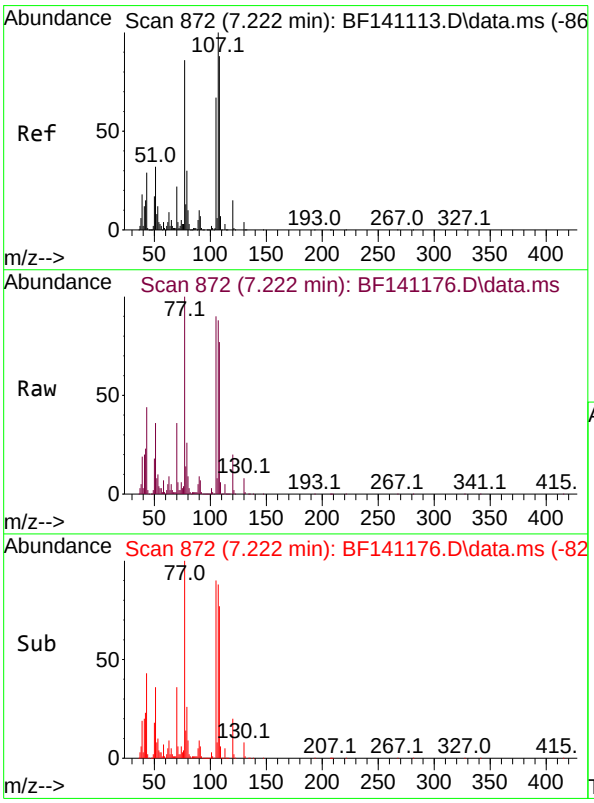
#19
n-Nitroso-di-n-propylamine
Concen: 31.050 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 70 Resp: 214591

Ion	Ratio	Lower	Upper
70	100		
42	58.1	47.8	71.6
101	9.8	7.9	11.9
130	22.7	17.6	26.4

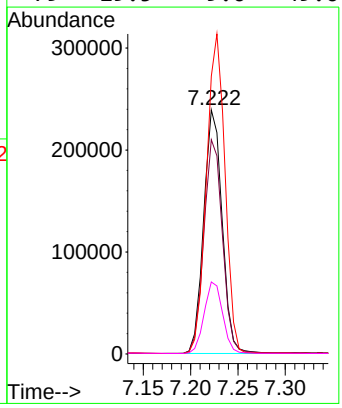


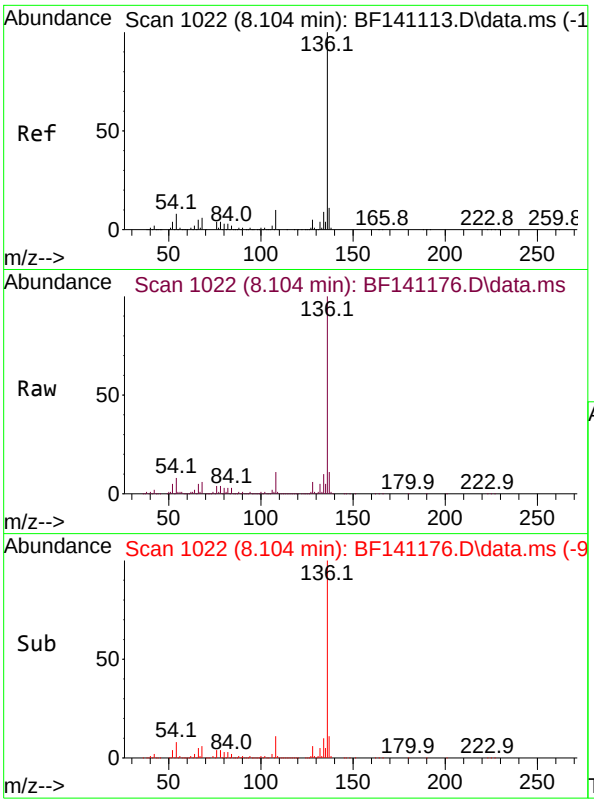


#20
3+4-Methylphenols
Concen: 32.030 ng
RT: 7.222 min Scan# 872
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:107 Resp: 324187

Ion	Ratio	Lower	Upper
107	100		
108	87.8	68.3	108.3
77	113.8	66.4	106.4#
79	29.5	9.6	49.6



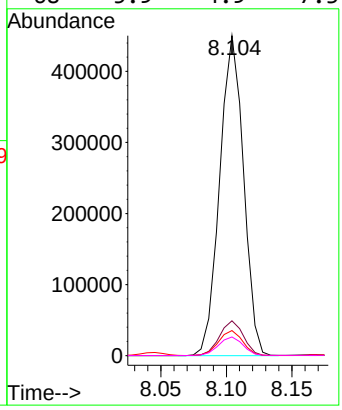


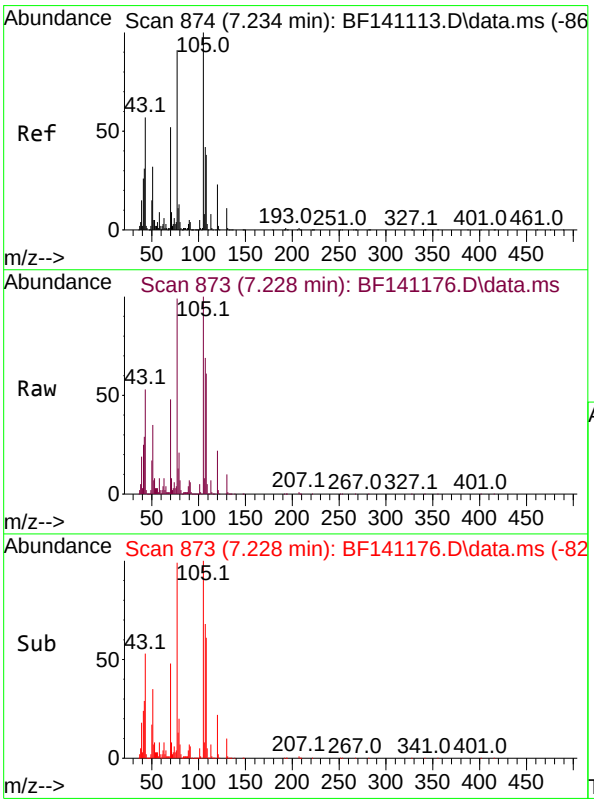
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:136 Resp: 569188

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.9	6.3	9.5
68	5.9	4.9	7.3

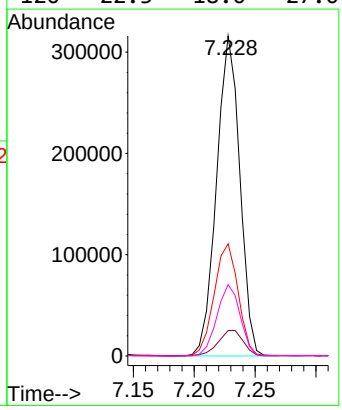


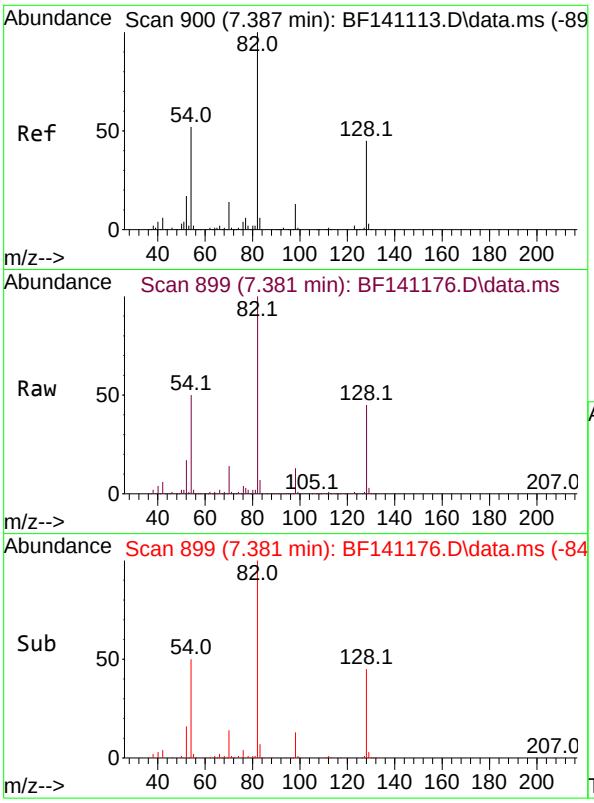


#22
Acetophenone
Concen: 31.075 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:105 Resp: 420478

Ion	Ratio	Lower	Upper
105	100		
71	7.9	7.1	10.7
51	35.1	25.4	38.2
120	22.3	18.0	27.0



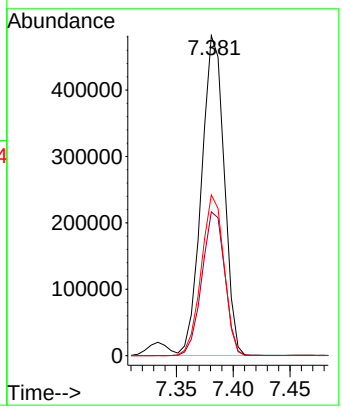


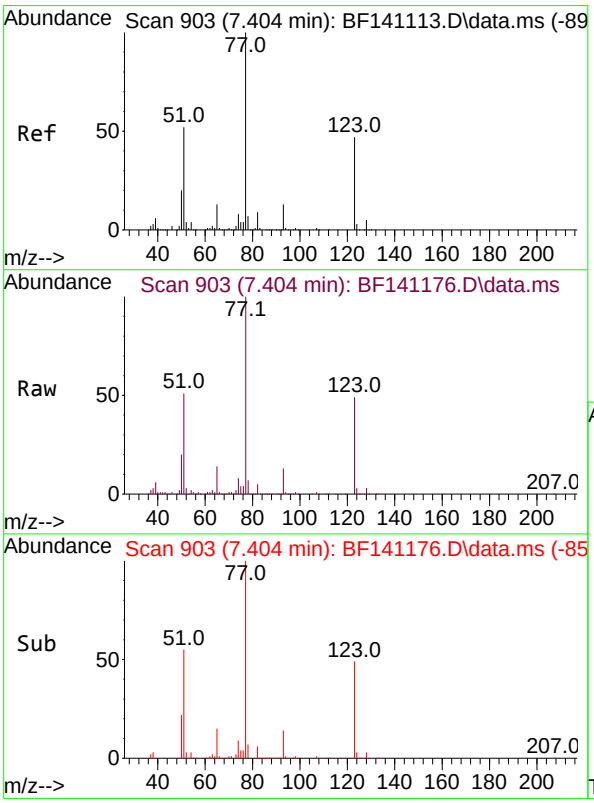
#23
Nitrobenzene-d5
Concen: 62.104 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 82 Resp: 666857

Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.1	54.1
54	50.2	41.0	61.4

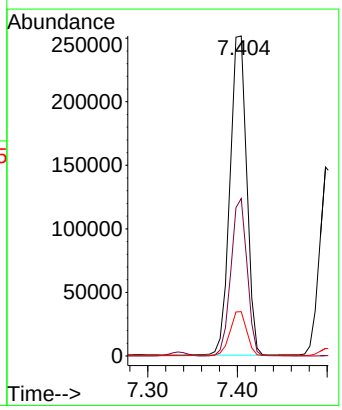


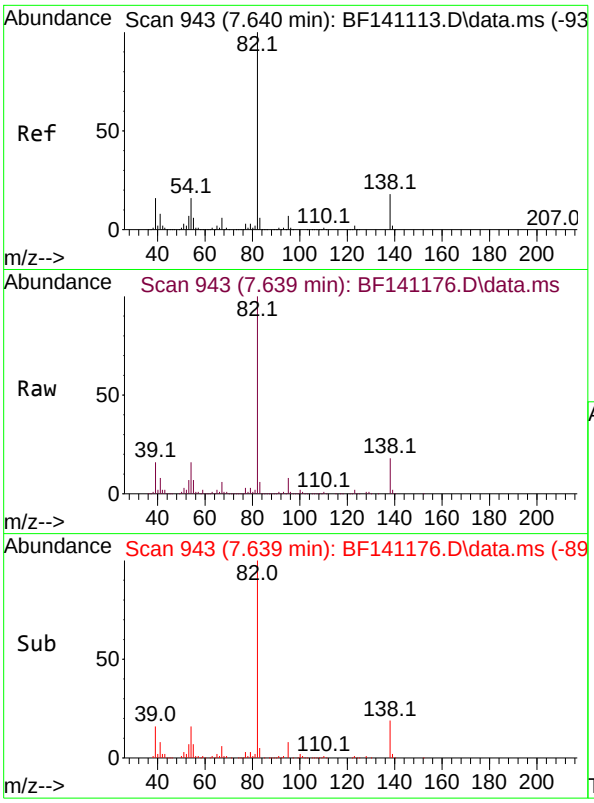


#24
Nitrobenzene
Concen: 29.097 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 77 Resp: 325628

Ion	Ratio	Lower	Upper
77	100		
123	49.2	37.7	56.5
65	13.8	10.6	16.0



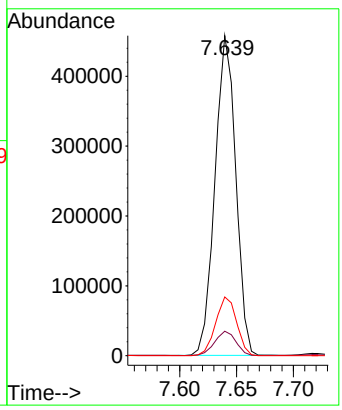


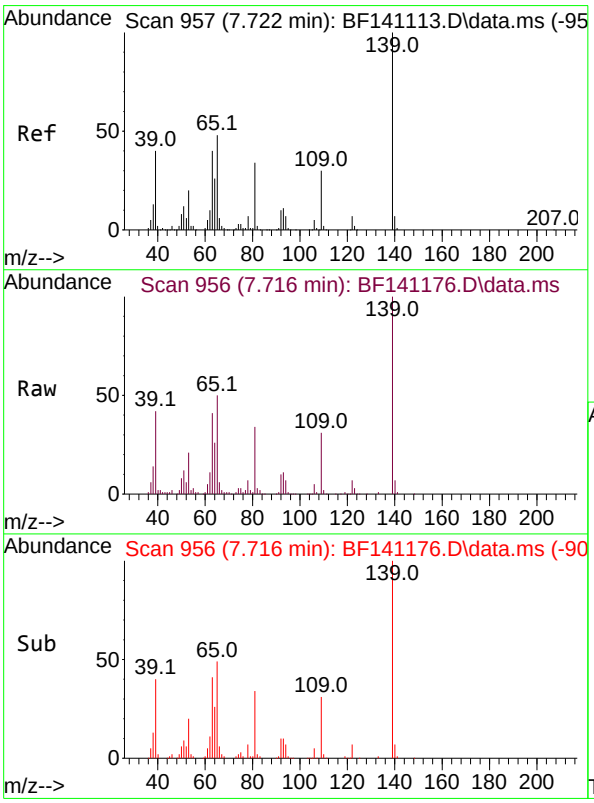
#25
Isophorone
Concen: 31.812 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 82 Resp: 583759

Ion	Ratio	Lower	Upper
82	100		
95	7.7	5.9	8.9
138	18.4	14.2	21.2

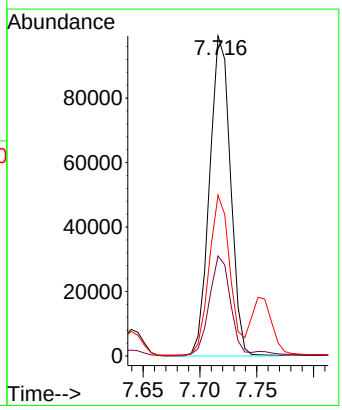


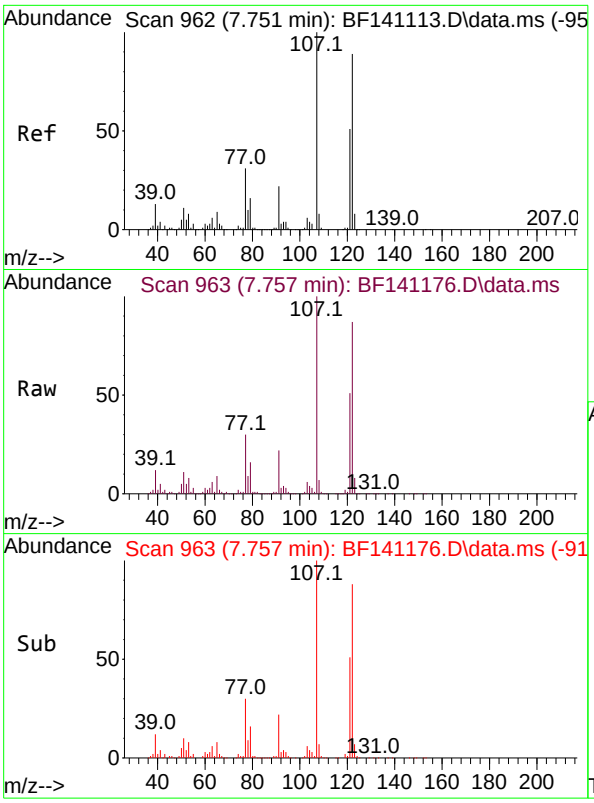


#26
2-Nitrophenol
Concen: 24.949 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:139 Resp: 127008

Ion	Ratio	Lower	Upper
139	100		
109	31.2	23.8	35.6
65	50.2	38.5	57.7



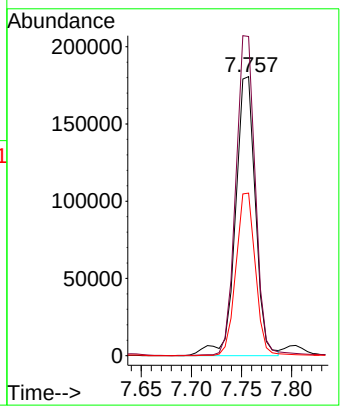


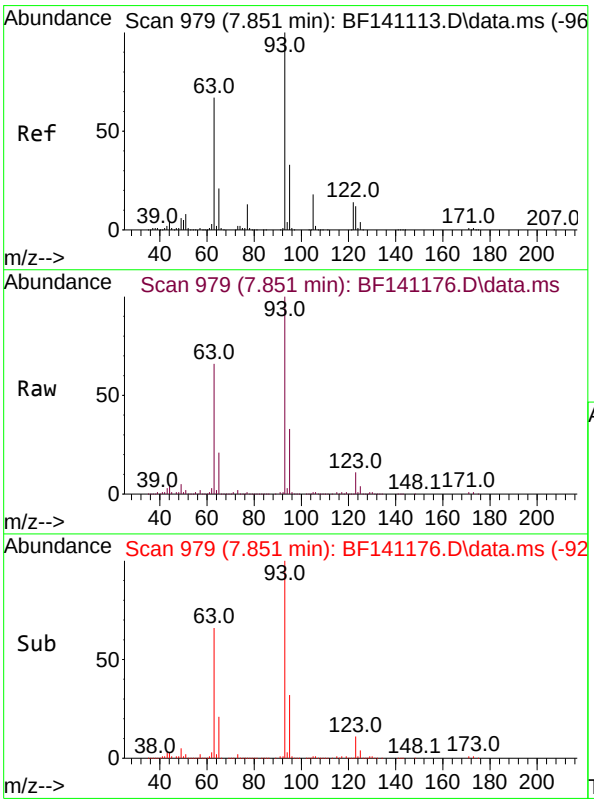
#27
2,4-Dimethylphenol
Concen: 36.528 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:122 Resp: 250815

Ion	Ratio	Lower	Upper
122	100		
107	114.4	90.3	135.5
121	58.2	46.5	69.7

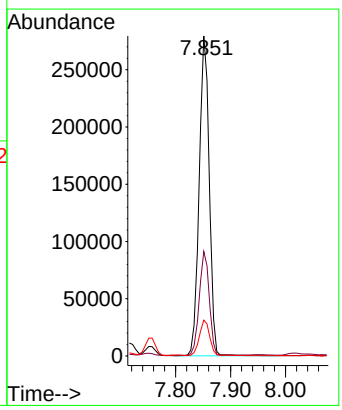


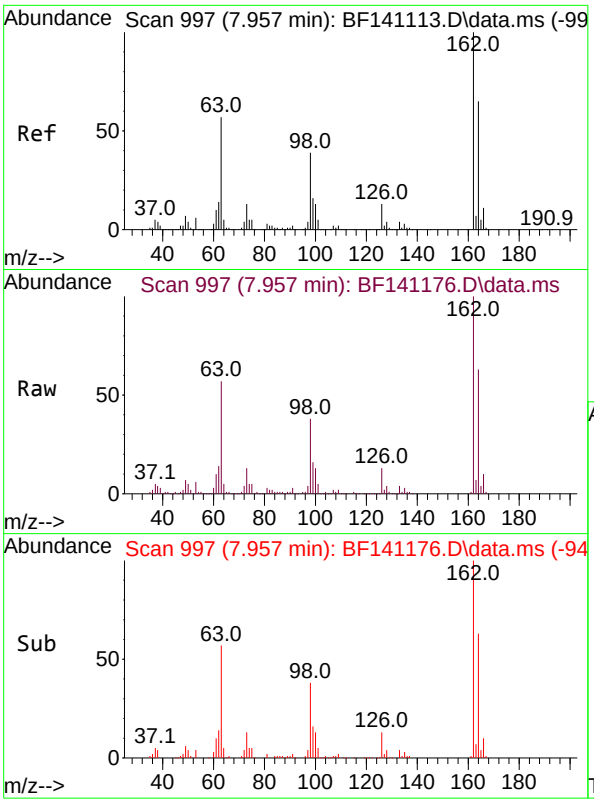


#28
bis(2-Chloroethoxy)methane
Concen: 30.949 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 93 Resp: 356419

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.4
123	11.2	10.1	15.1



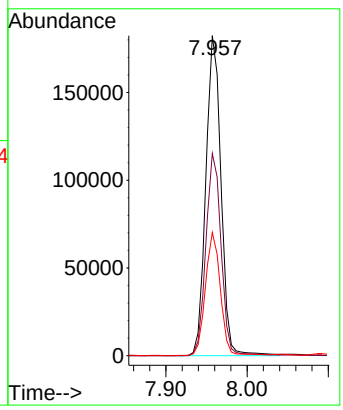


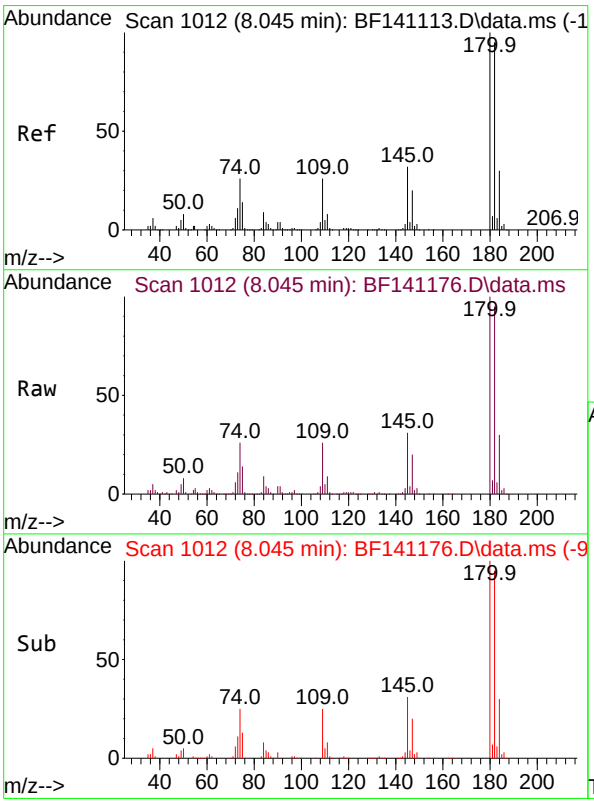
#29
2,4-Dichlorophenol
Concen: 29.043 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:162 Resp: 236851

Ion	Ratio	Lower	Upper
162	100		
164	63.2	44.5	84.5
98	38.5	18.5	58.5

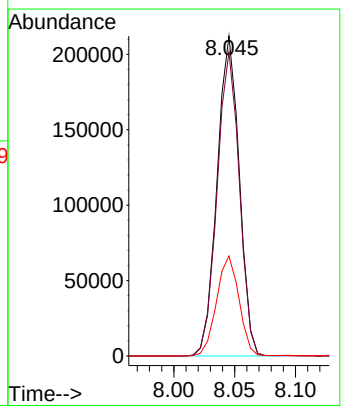


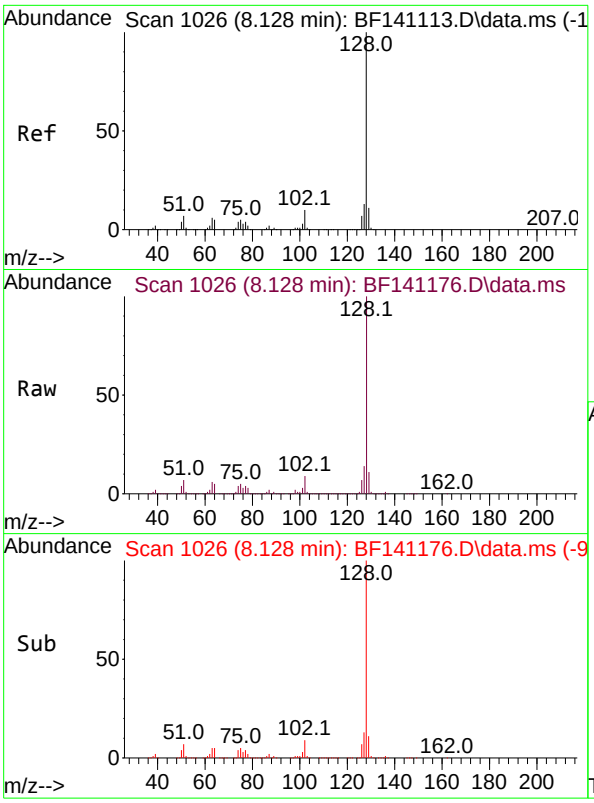


#30
1,2,4-Trichlorobenzene
Concen: 28.843 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:180 Resp: 268865

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.2	114.2
145	31.3	25.3	37.9



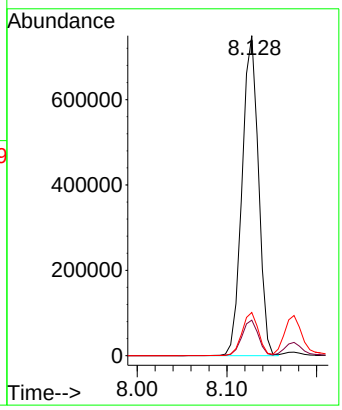


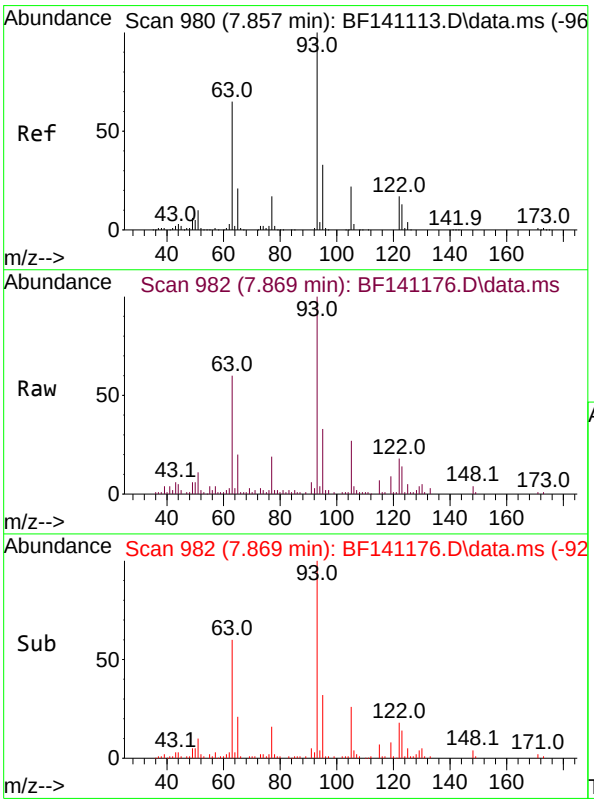
#31
Naphthalene
Concen: 31.607 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:128 Resp: 948739

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.5	10.8	16.2

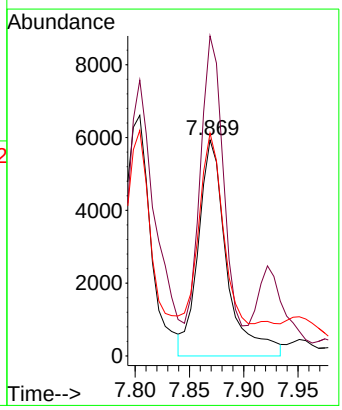


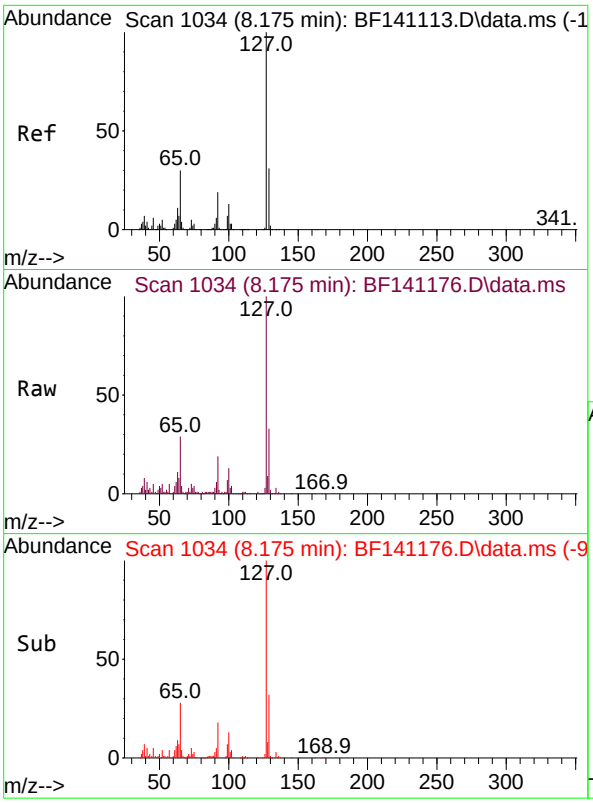


#32
Benzoic acid
Concen: 1.639 ng m
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:122 Resp: 10799

Ion	Ratio	Lower	Upper
122	100		
105	148.2	105.5	145.5#
77	103.2	75.1	115.1



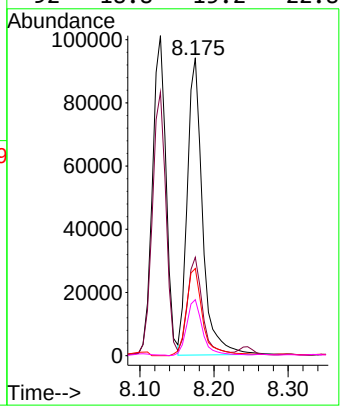


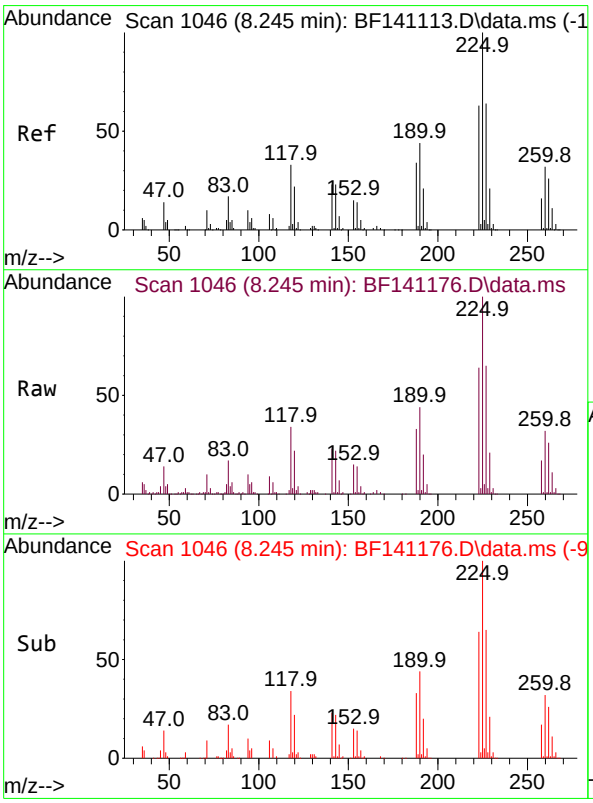
#33
4-Chloroaniline
Concen: 12.958 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:127 Resp: 134518

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.9	38.9
65	29.3	23.8	35.8
92	18.8	15.2	22.8

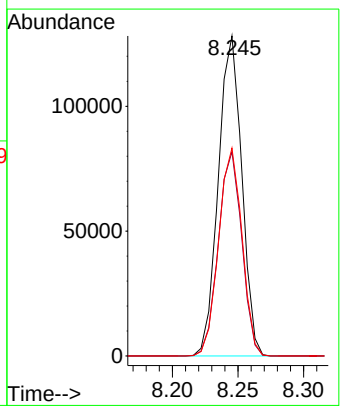


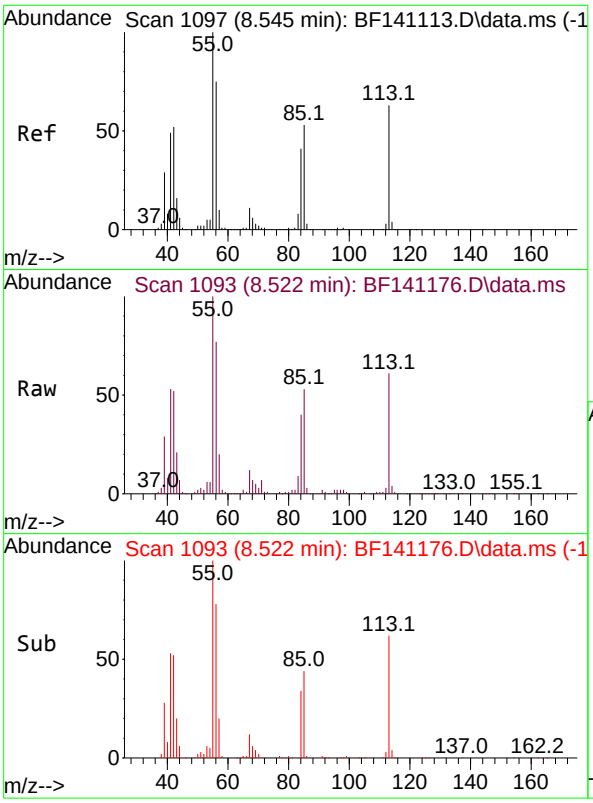


#34
Hexachlorobutadiene
Concen: 28.334 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:225 Resp: 159147

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	76.0
227	65.0	51.6	77.4



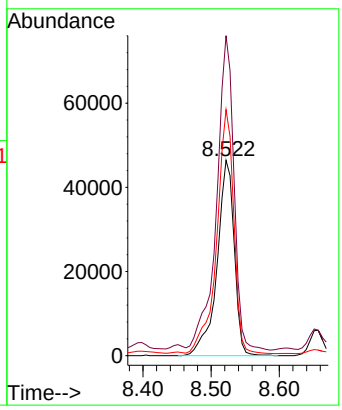


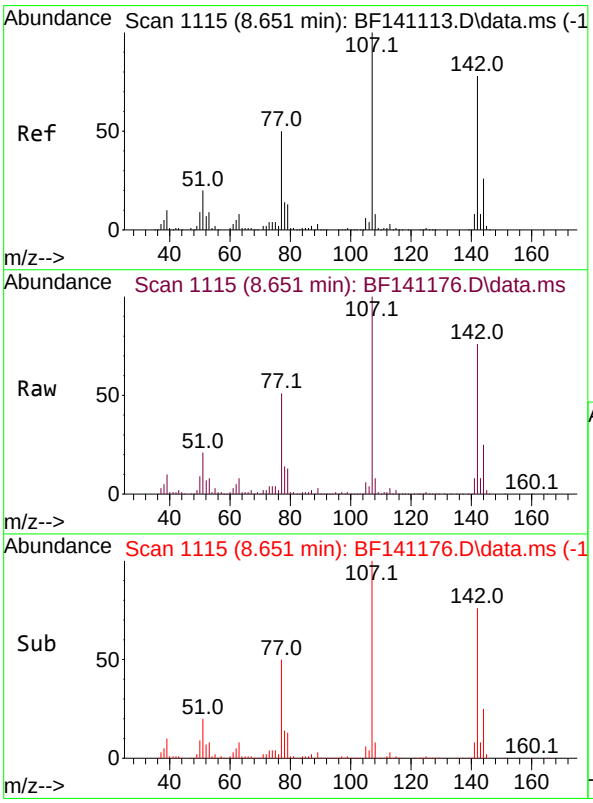
#35
Caprolactam
Concen: 30.523 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:113 Resp: 81493

Ion	Ratio	Lower	Upper
113	100		
55	163.8	139.7	179.7
56	126.0	99.4	139.4

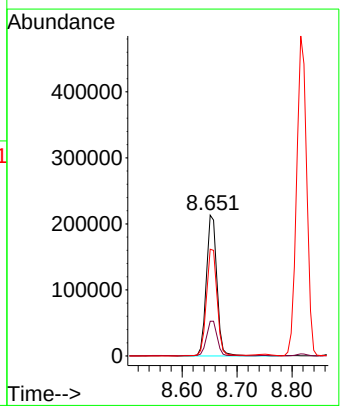


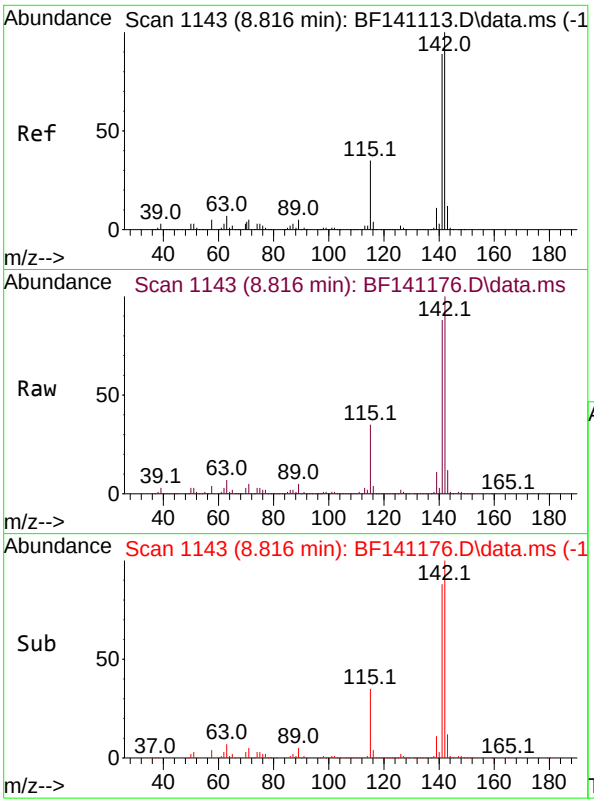


#36
4-Chloro-3-methylphenol
Concen: 31.937 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:107 Resp: 284843

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.4	30.6
142	75.9	62.2	93.2



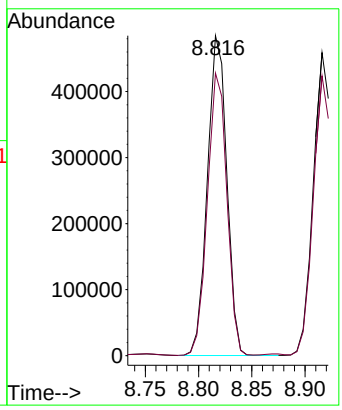


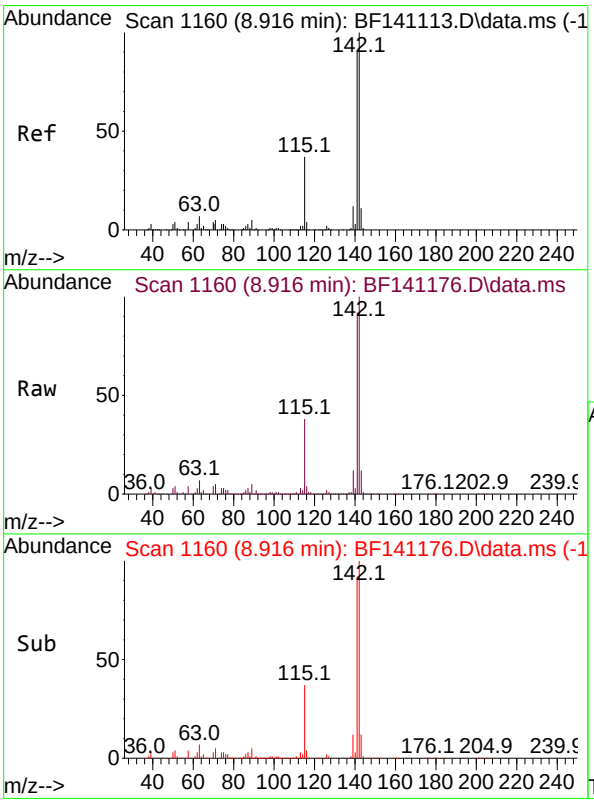
#37
2-Methylnaphthalene
Concen: 32.151 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:142 Resp: 614978

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.3	106.9

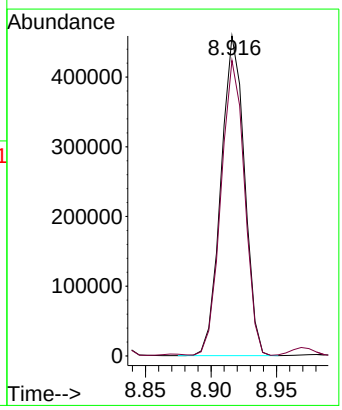


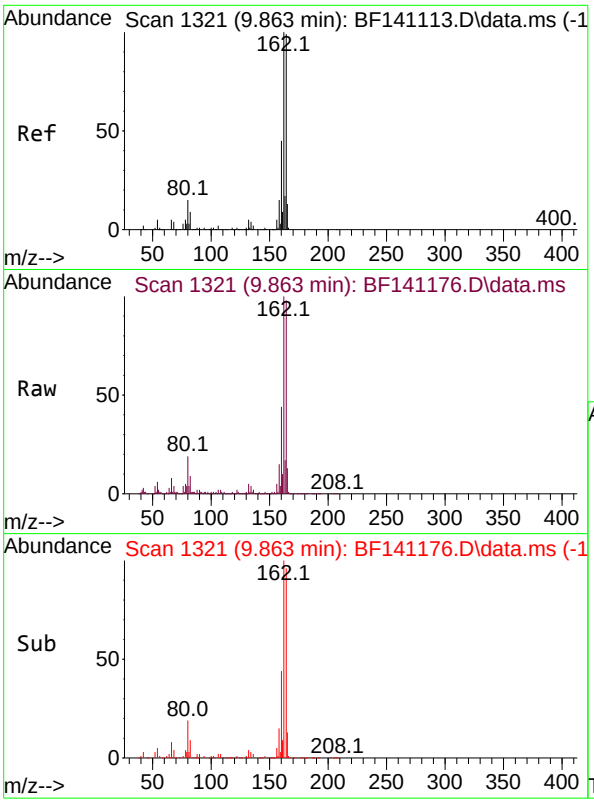


#38
1-Methylnaphthalene
Concen: 30.321 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:142 Resp: 571584

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



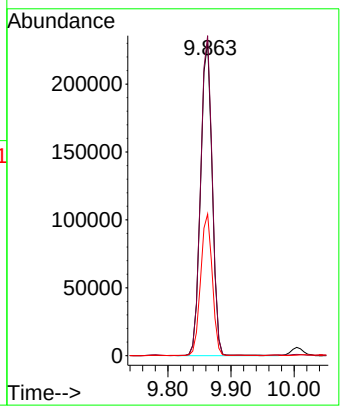


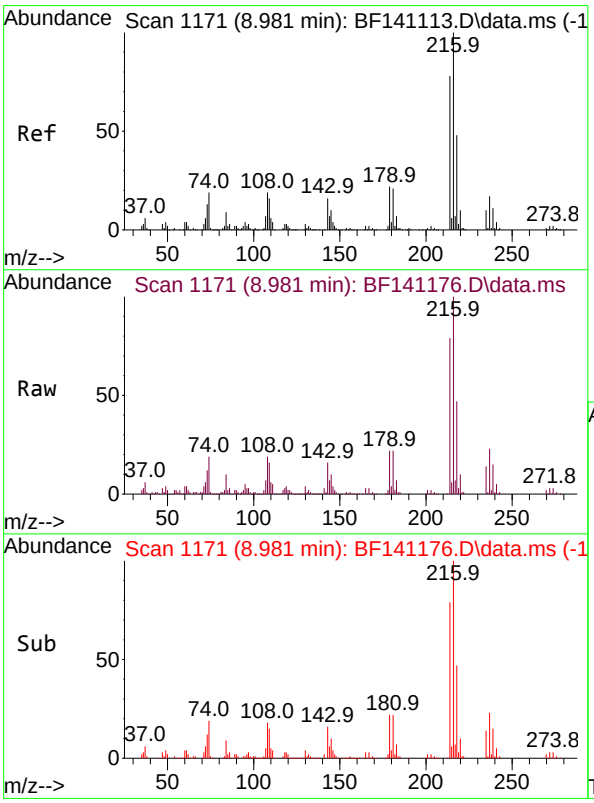
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:164 Resp: 294771

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.4
160	45.1	36.1	54.1

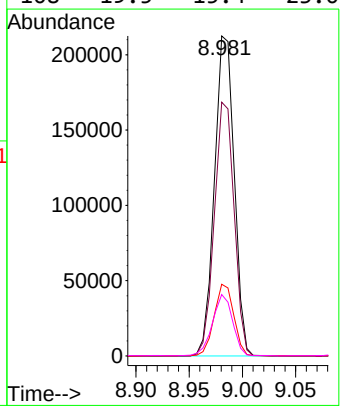


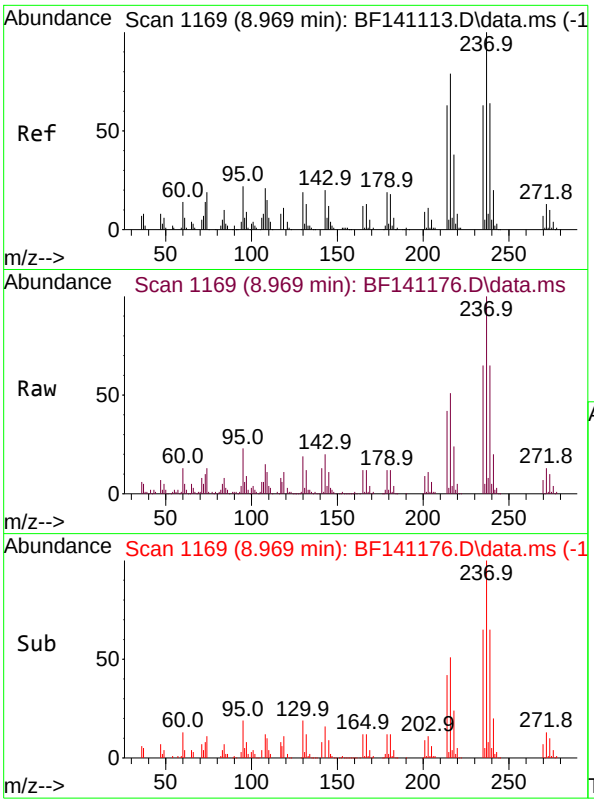


#40
1,2,4,5-Tetrachlorobenzene
Concen: 32.449 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:216 Resp: 274538

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.6	94.0
179	22.0	17.7	26.5
108	19.5	15.4	23.0



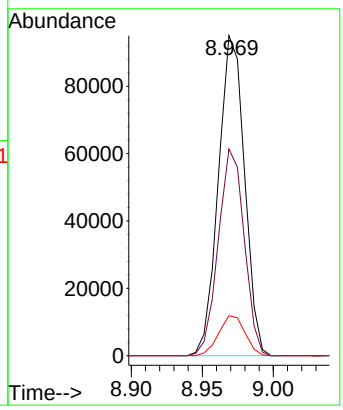


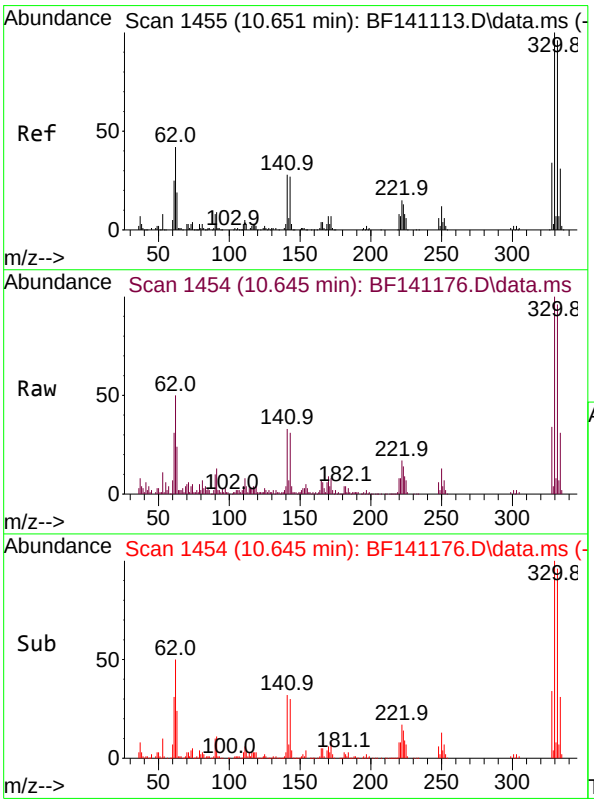
#41
Hexachlorocyclopentadiene
Concen: 43.925 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:237 Resp: 121583

Ion	Ratio	Lower	Upper
237	100		
235	64.6	43.0	83.0
272	12.5	0.0	33.0

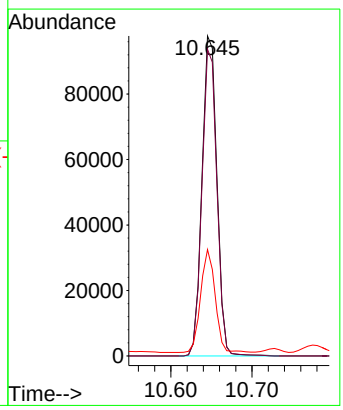


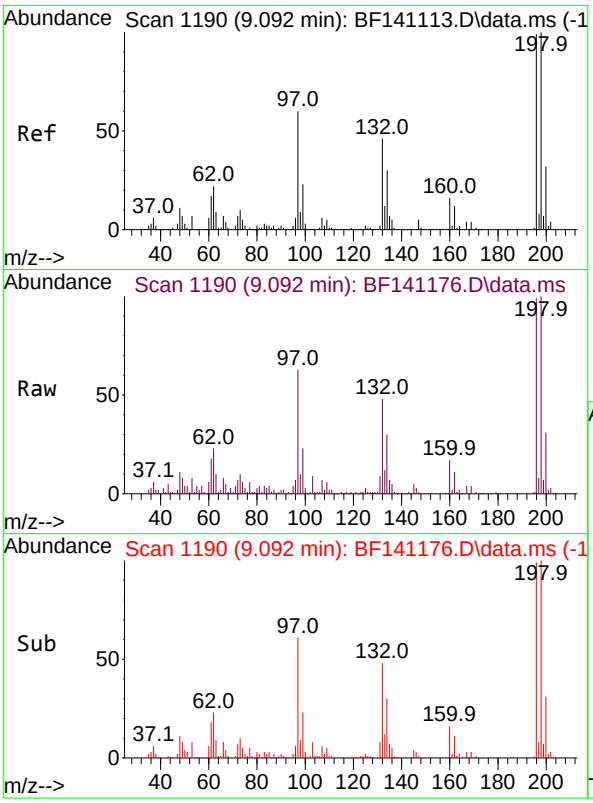


#42
2,4,6-Tribromophenol
Concen: 37.124 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:330 Resp: 124689

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.9	115.3
141	31.3	25.2	37.8



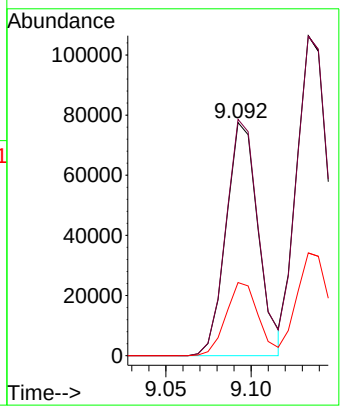


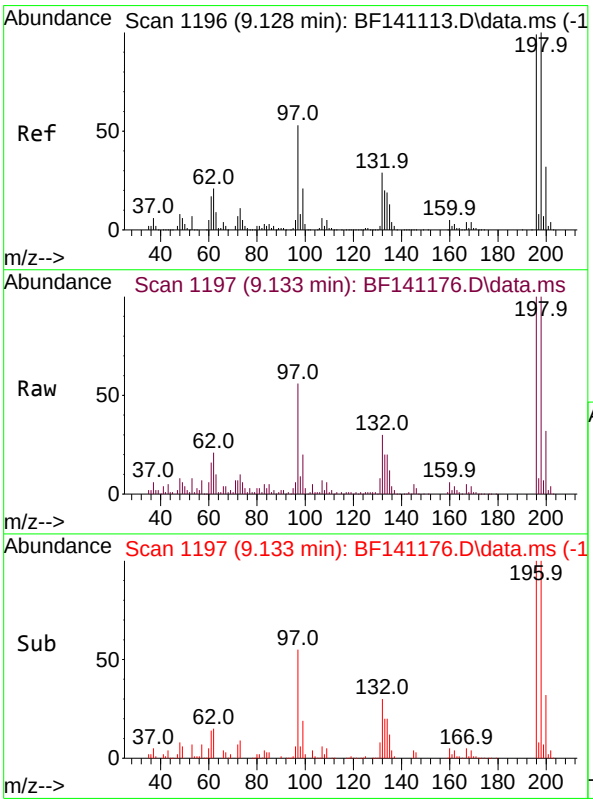
#43
2,4,6-Trichlorophenol
Concen: 17.856 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:196 Resp: 101888

Ion	Ratio	Lower	Upper
196	100		
198	101.4	80.8	121.2
200	31.4	25.7	38.5

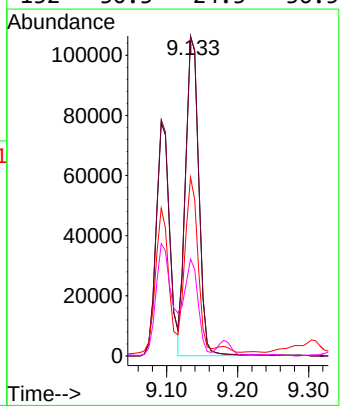


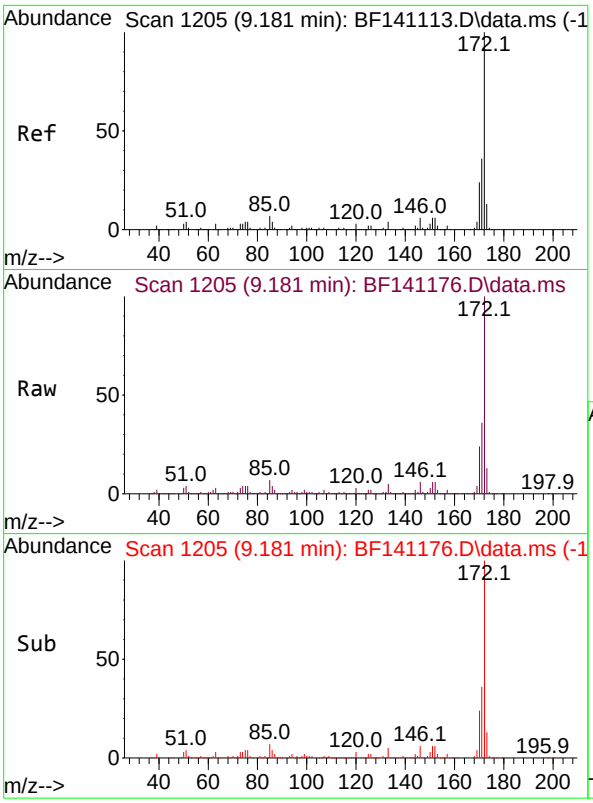


#44
2,4,5-Trichlorophenol
Concen: 22.875 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:196 Resp: 137849

Ion	Ratio	Lower	Upper
196	100		
198	99.9	80.6	120.8
97	55.8	43.1	64.7
132	30.3	24.3	36.5



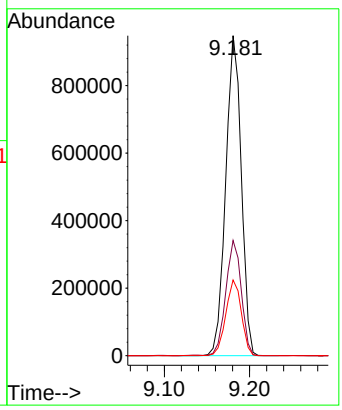


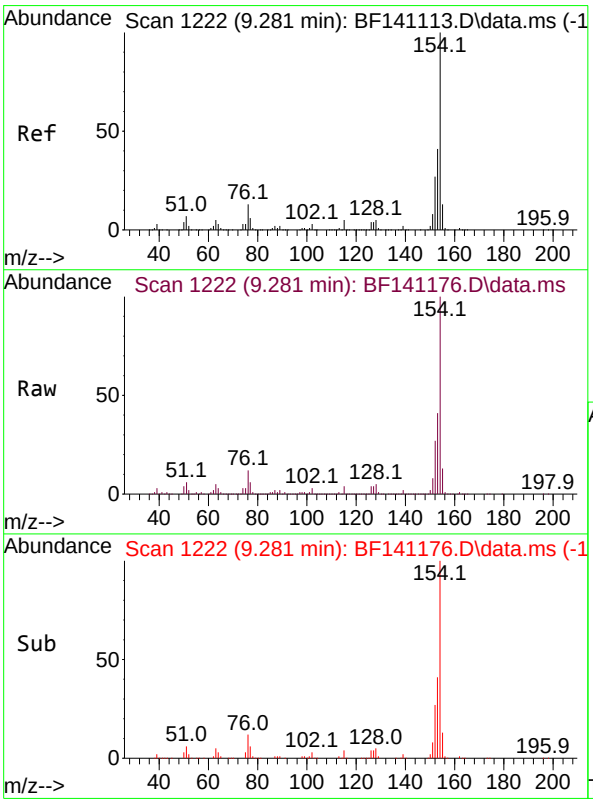
#45
2-Fluorobiphenyl
Concen: 62.565 ng
RT: 9.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:172 Resp: 1207713

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.7	43.1
170	23.6	19.0	28.6

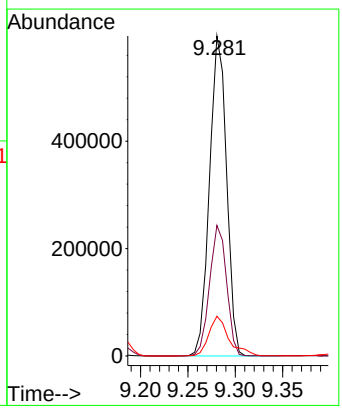


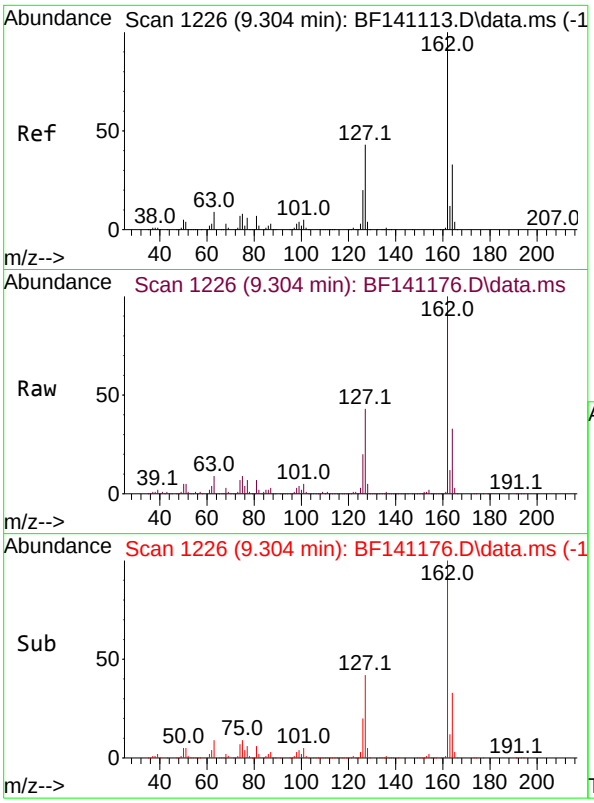


#46
1,1'-Biphenyl
Concen: 32.517 ng
RT: 9.281 min Scan# 1222
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:154 Resp: 744386

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.7	60.7
76	12.4	0.0	33.1



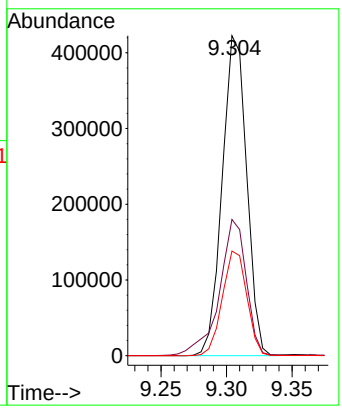


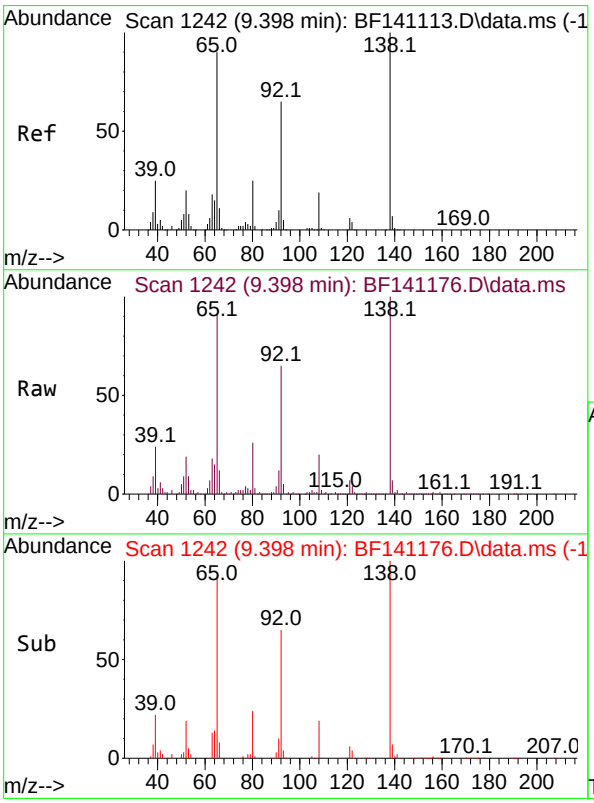
#47
2-Chloronaphthalene
Concen: 30.807 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:162 Resp: 549279

Ion	Ratio	Lower	Upper
162	100		
127	42.5	34.6	51.8
164	32.7	26.5	39.7

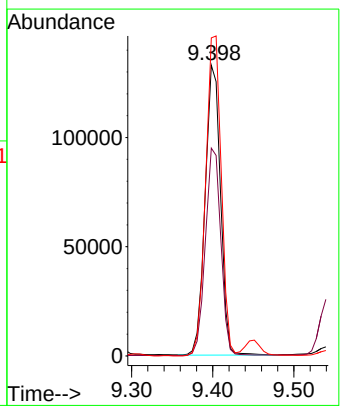


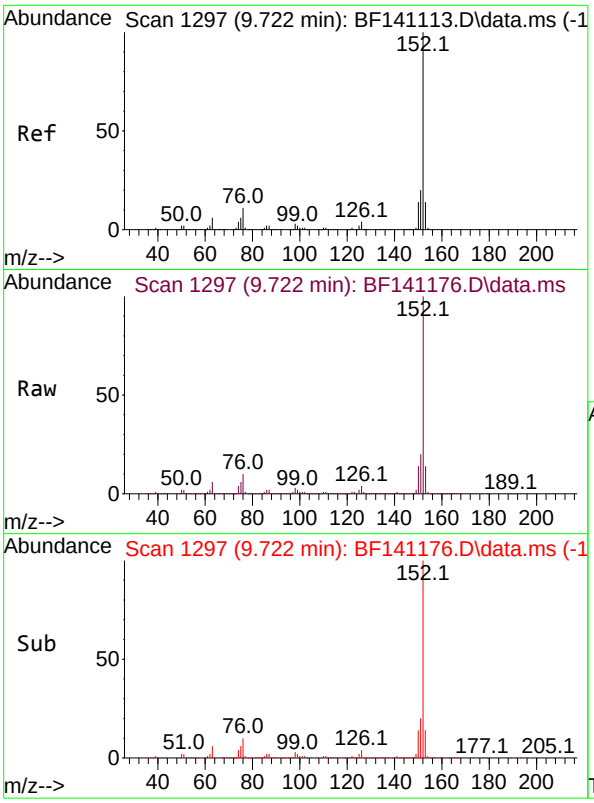


#48
2-Nitroaniline
Concen: 32.905 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 65 Resp: 173916

Ion	Ratio	Lower	Upper
65	100		
92	71.5	58.3	87.5
138	109.4	89.1	133.7



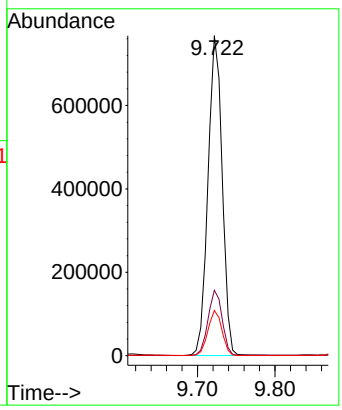


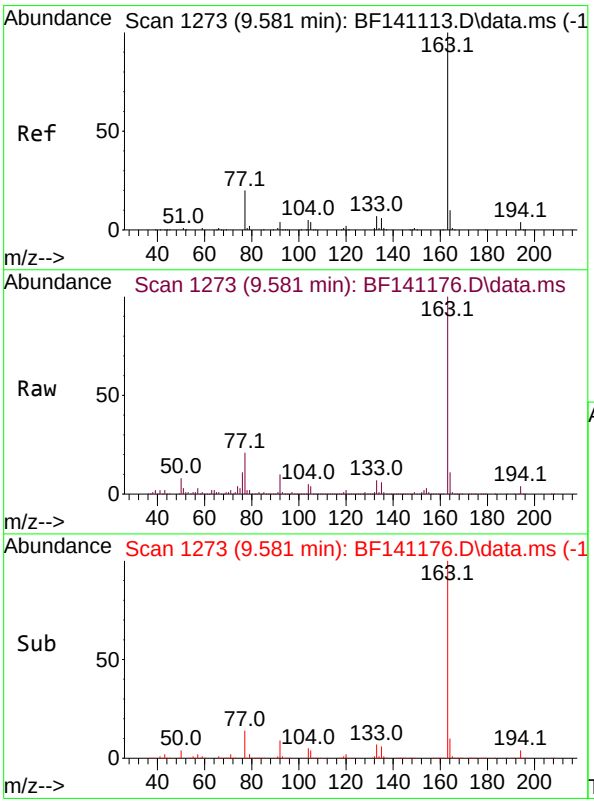
#49
Acenaphthylene
Concen: 38.365 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:152 Resp: 977297

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.1	24.1
153	14.1	11.1	16.7

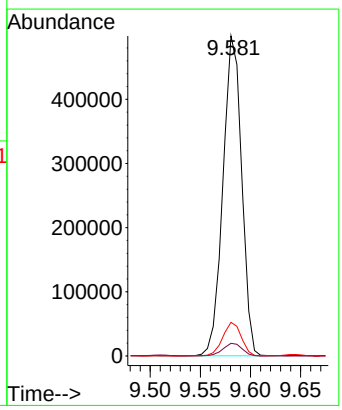


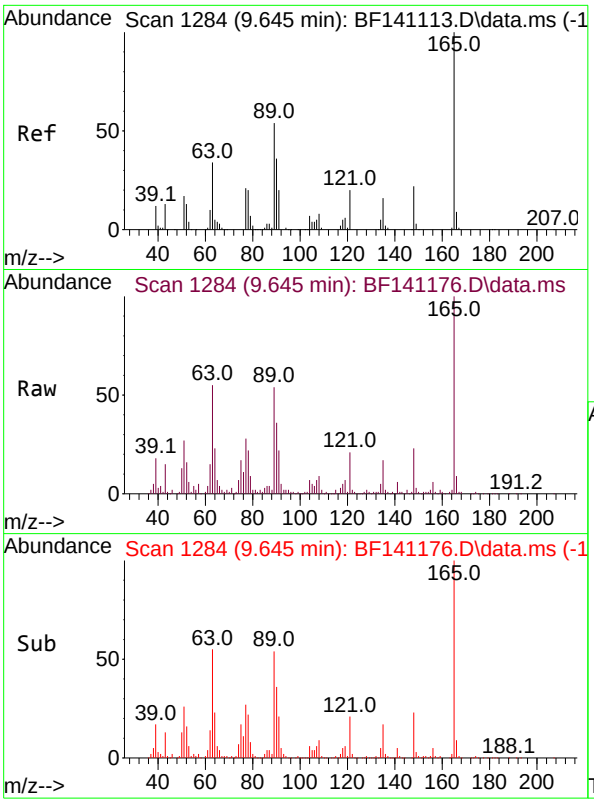


#50
Dimethylphthalate
Concen: 32.646 ng
RT: 9.581 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:163 Resp: 646040

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.5	8.2	12.4



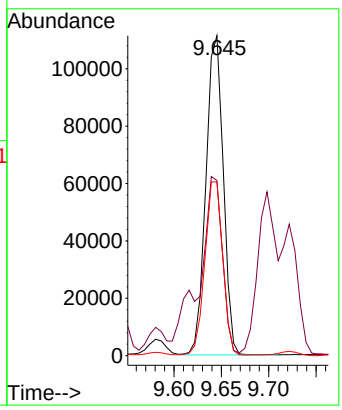


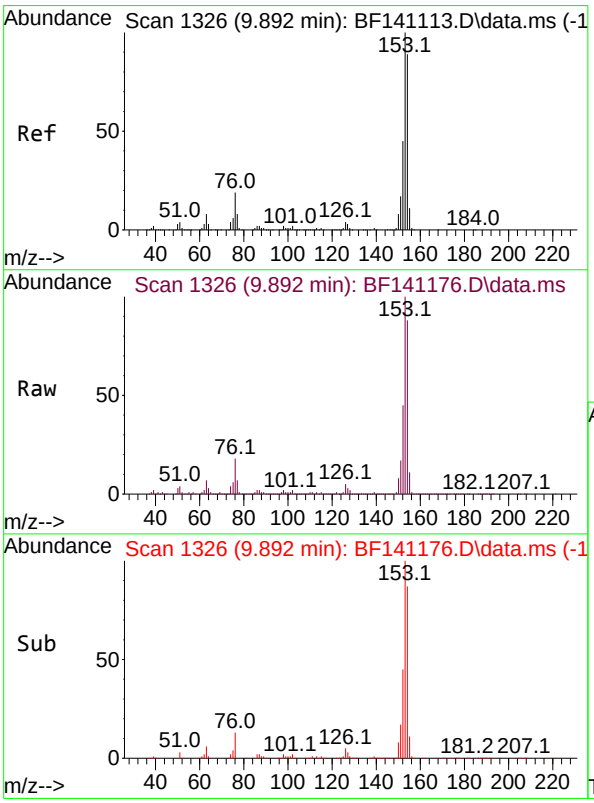
#51
2,6-Dinitrotoluene
Concen: 30.737 ng
RT: 9.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:165 Resp: 141448

Ion	Ratio	Lower	Upper
165	100		
63	54.8	42.3	63.5
89	54.3	43.1	64.7

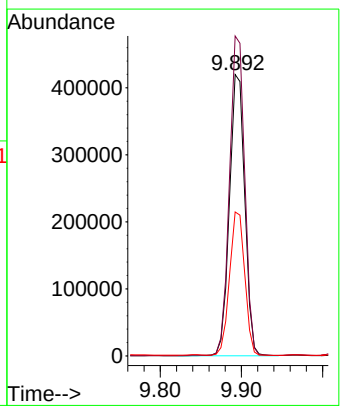


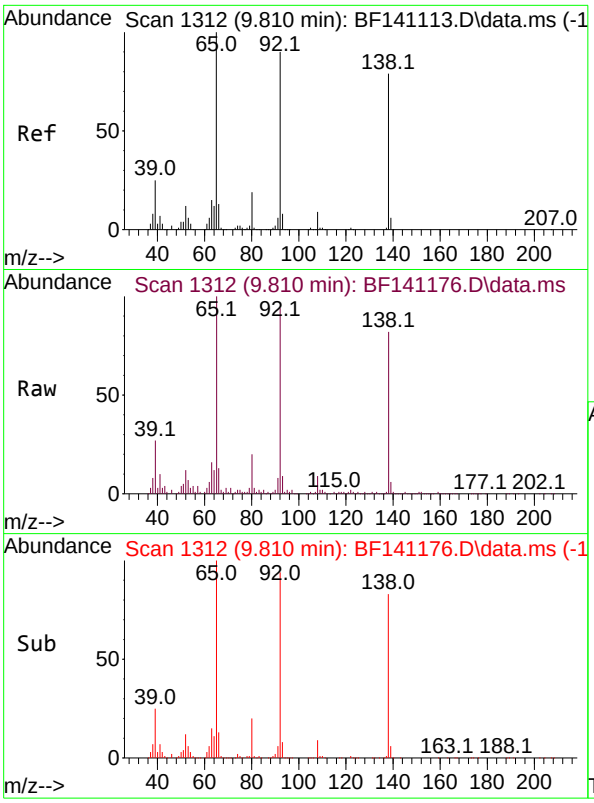


#52
Acenaphthene
Concen: 30.870 ng
RT: 9.892 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:154 Resp: 549398

Ion	Ratio	Lower	Upper
154	100		
153	113.7	89.8	134.6
152	51.2	40.8	61.2



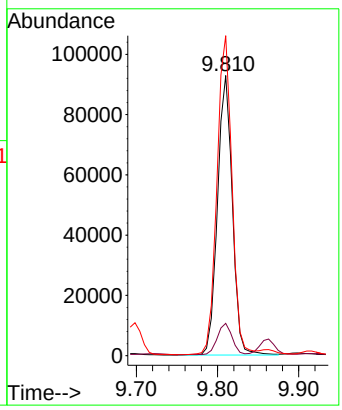


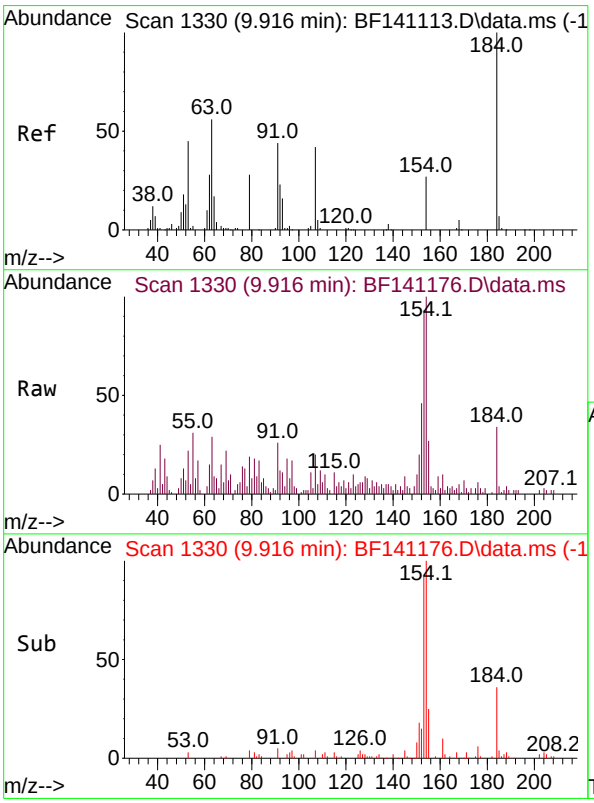
#53
3-Nitroaniline
Concen: 25.238 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:138 Resp: 118024

Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.8	13.2
92	114.2	91.3	136.9

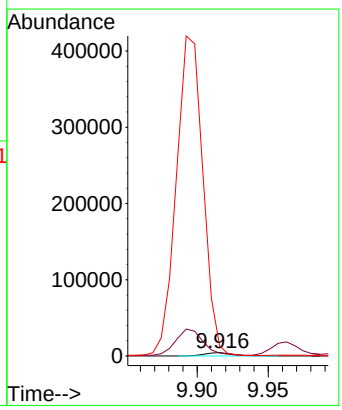


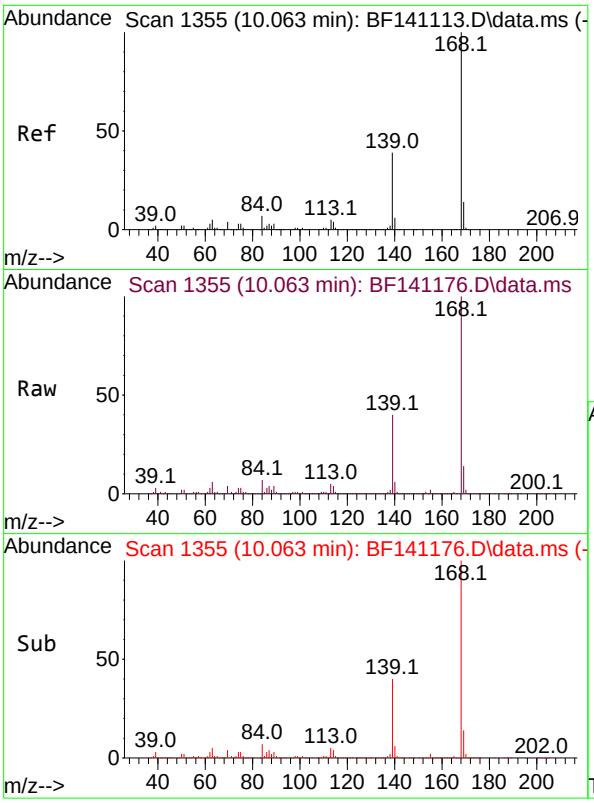


#54
2,4-Dinitrophenol
Concen: 2.668 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:184 Resp: 5836

Ion	Ratio	Lower	Upper
184	100		
63	87.2	48.7	73.1#
154	298.4	57.1	85.7#



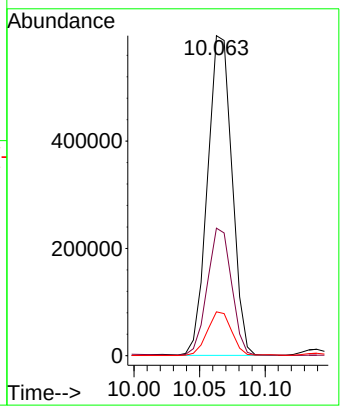


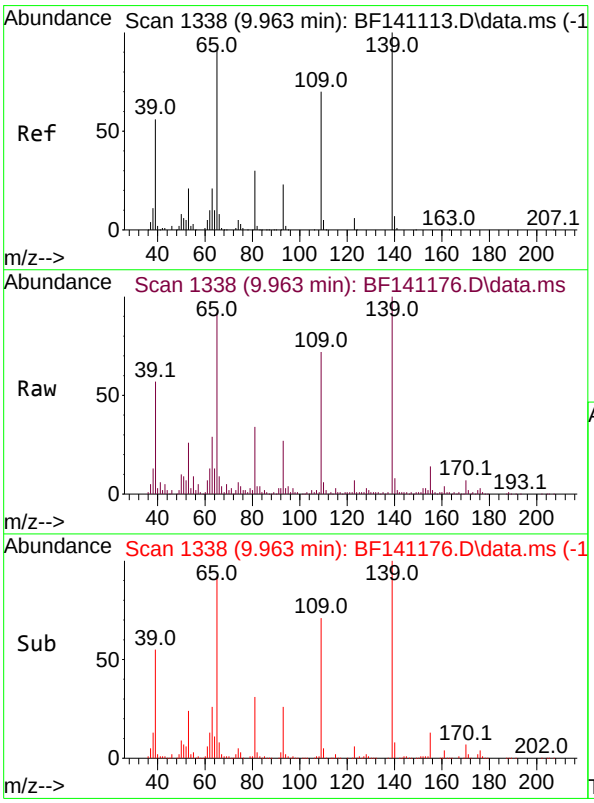
#55
Dibenzofuran
Concen: 31.903 ng
RT: 10.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:168 Resp: 772302

Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.4	47.0
169	13.7	10.9	16.3

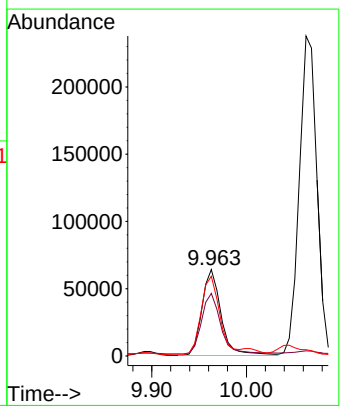


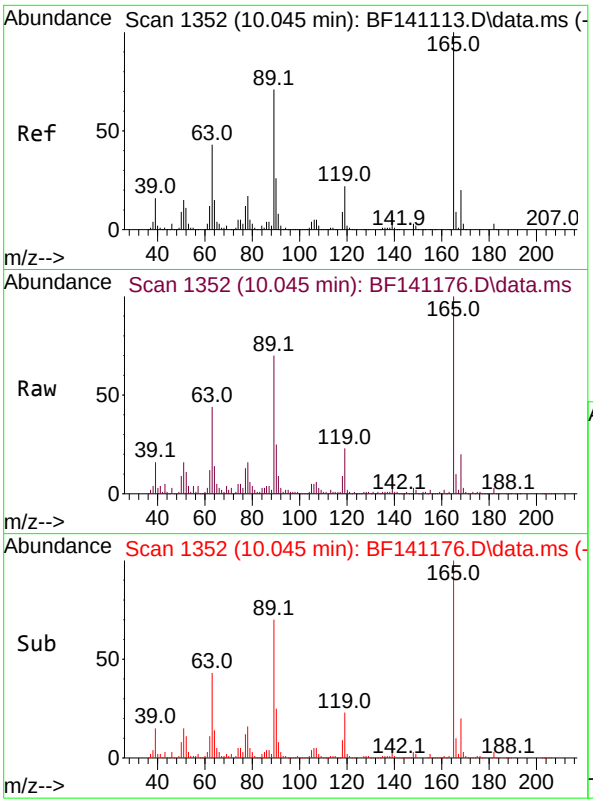


#56
4-Nitrophenol
Concen: 24.317 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:139 Resp: 89059

Ion	Ratio	Lower	Upper
139	100		
109	72.4	50.2	90.2
65	92.3	72.1	112.1



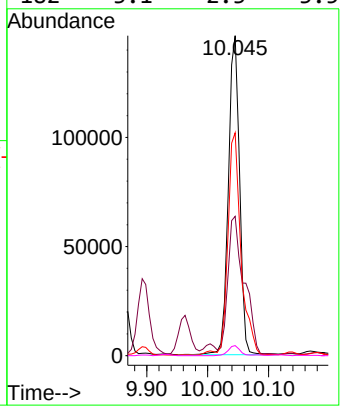


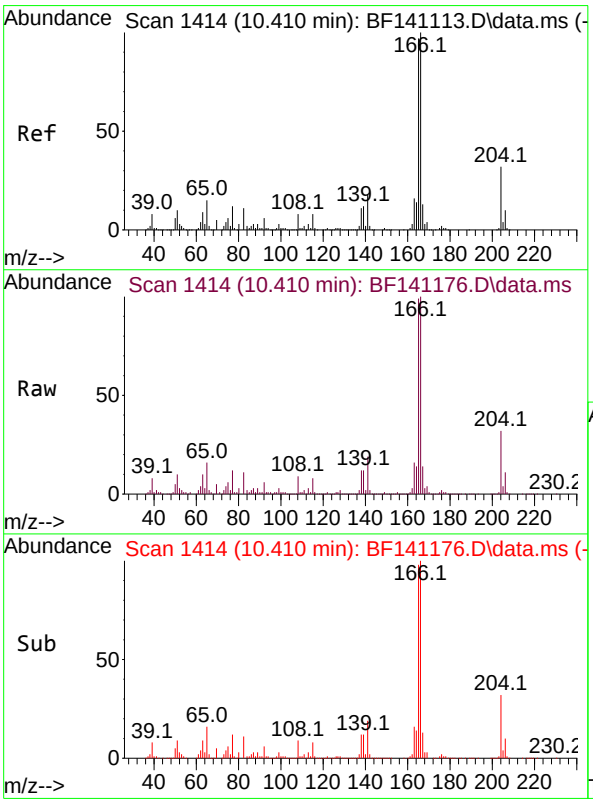
#57
2,4-Dinitrotoluene
Concen: 31.495 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:165 Resp: 186784

Ion	Ratio	Lower	Upper
165	100		
63	43.6	35.0	52.4
89	69.6	56.7	85.1
182	3.1	2.3	3.5

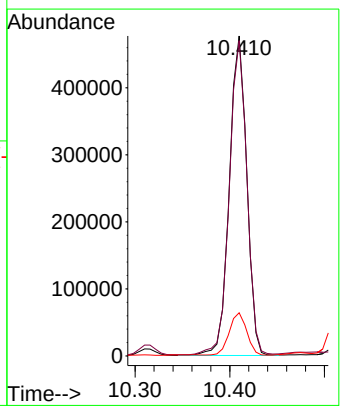


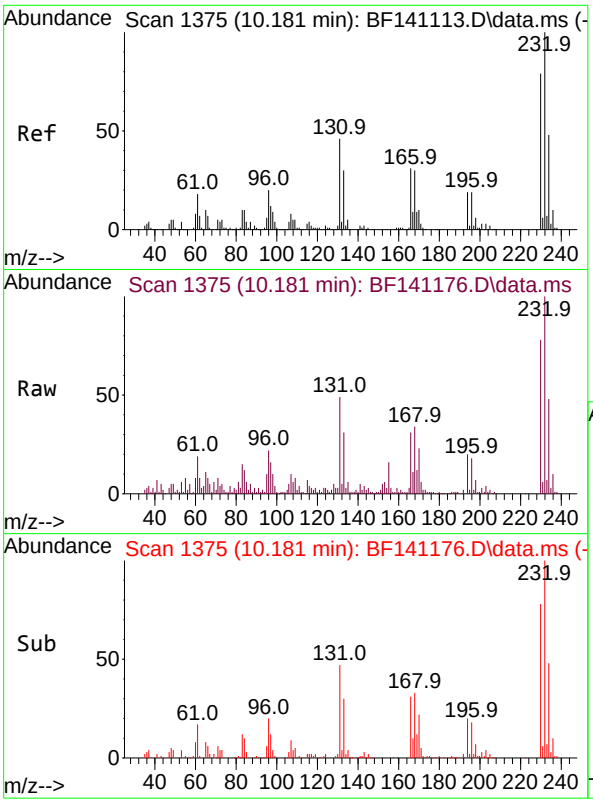


#58
Fluorene
Concen: 32.401 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:166 Resp: 609361

Ion	Ratio	Lower	Upper
166	100		
165	98.6	77.8	116.8
167	13.5	10.8	16.2



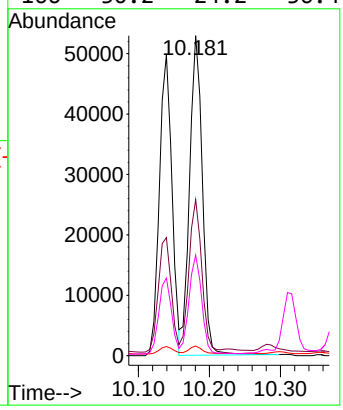


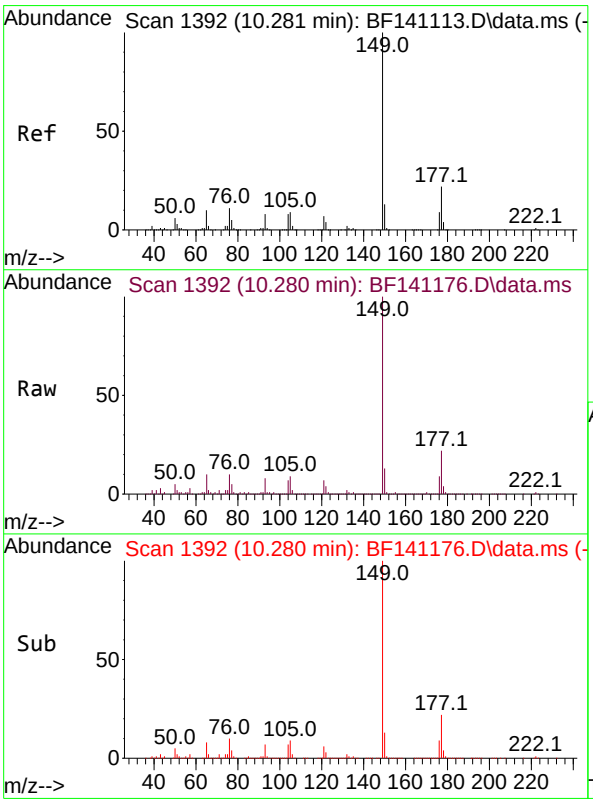
#59
2,3,4,6-Tetrachlorophenol
Concen: 13.269 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:232 Resp: 66467

Ion	Ratio	Lower	Upper
232	100		
131	46.0	36.2	54.4
130	2.2	2.0	3.0
166	30.2	24.2	36.4

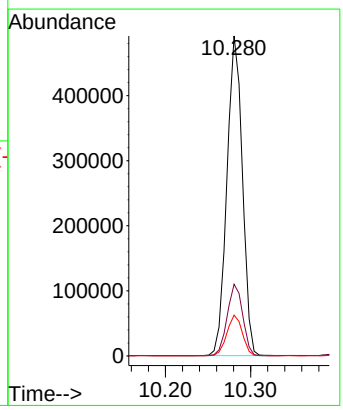


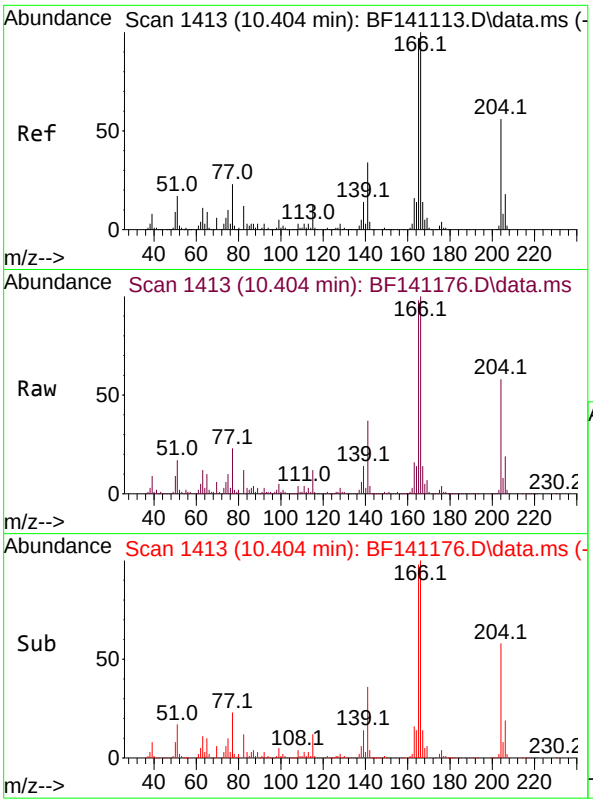


#60
Diethylphthalate
Concen: 32.105 ng
RT: 10.280 min Scan# 1392
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:149 Resp: 620252

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.7	10.2	15.2



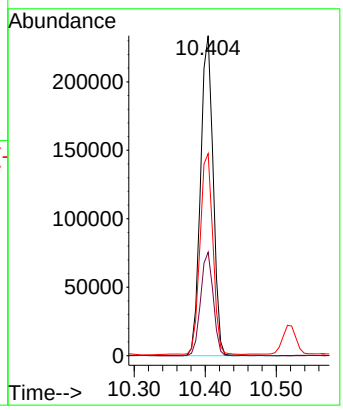


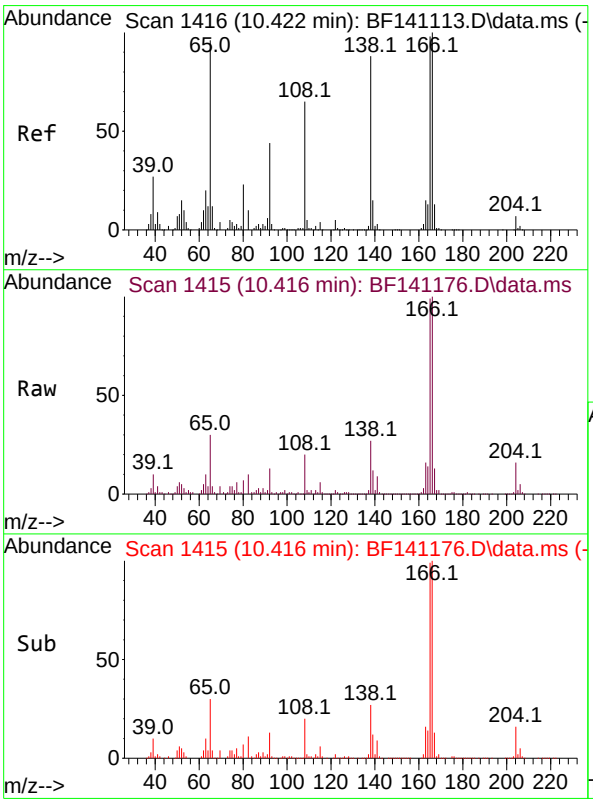
#61
4-Chlorophenyl-phenylether
Concen: 31.619 ng
RT: 10.404 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:204 Resp: 289829

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	63.1	49.1	73.7

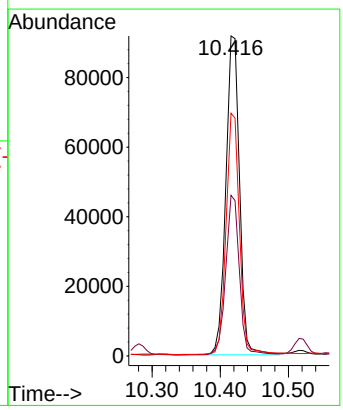


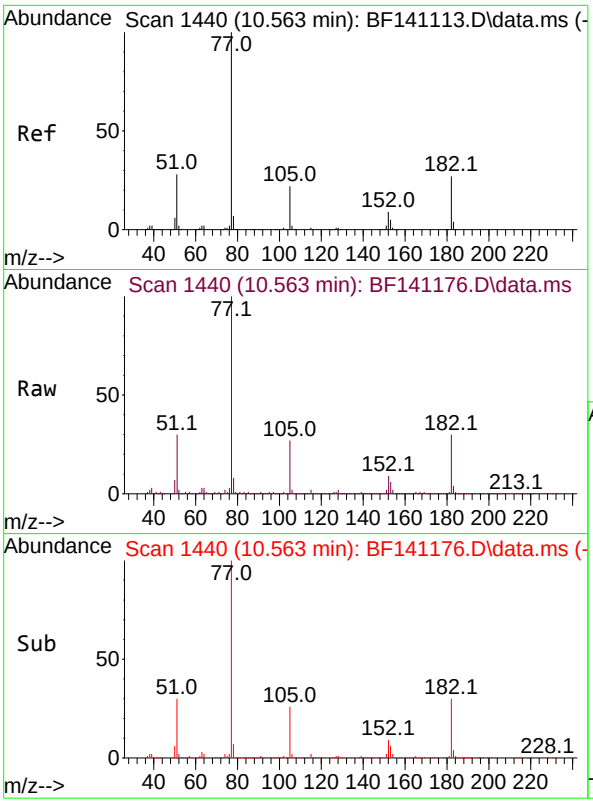


#62
4-Nitroaniline
Concen: 28.115 ng
RT: 10.416 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:138 Resp: 128687

Ion	Ratio	Lower	Upper
138	100		
92	50.2	29.4	69.4
108	75.9	53.7	93.7



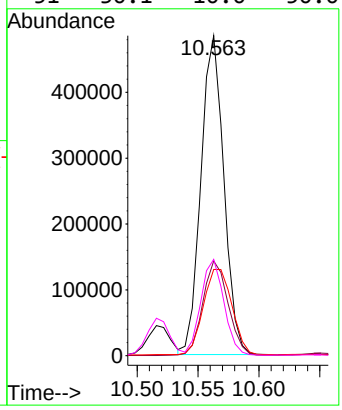


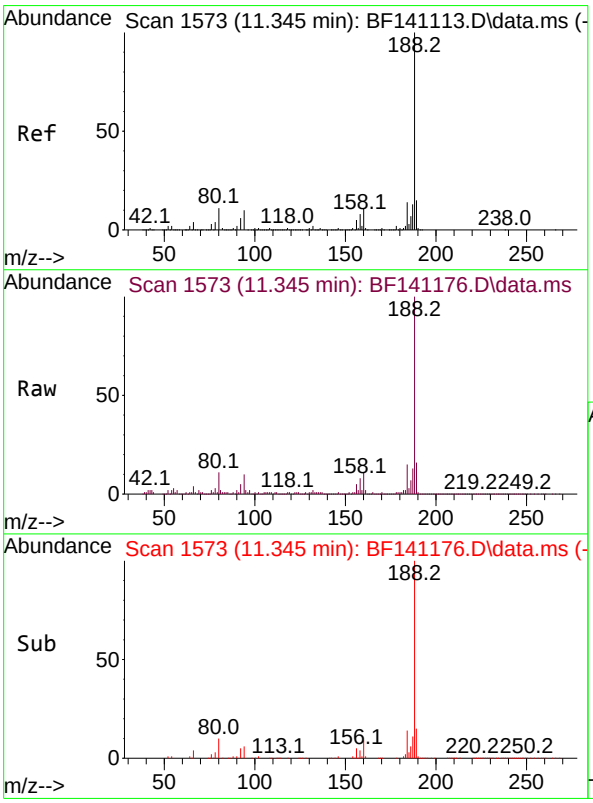
#63
Azobenzene
Concen: 33.284 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 77 Resp: 634488

Ion	Ratio	Lower	Upper
77	100		
182	29.6	6.1	46.1
105	27.0	2.1	42.1
51	30.1	10.0	50.0

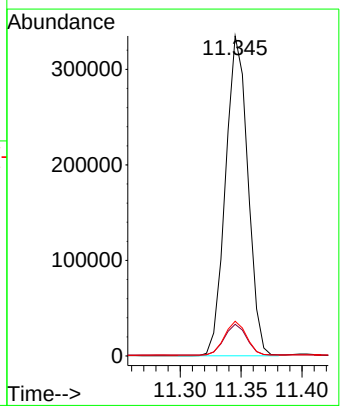


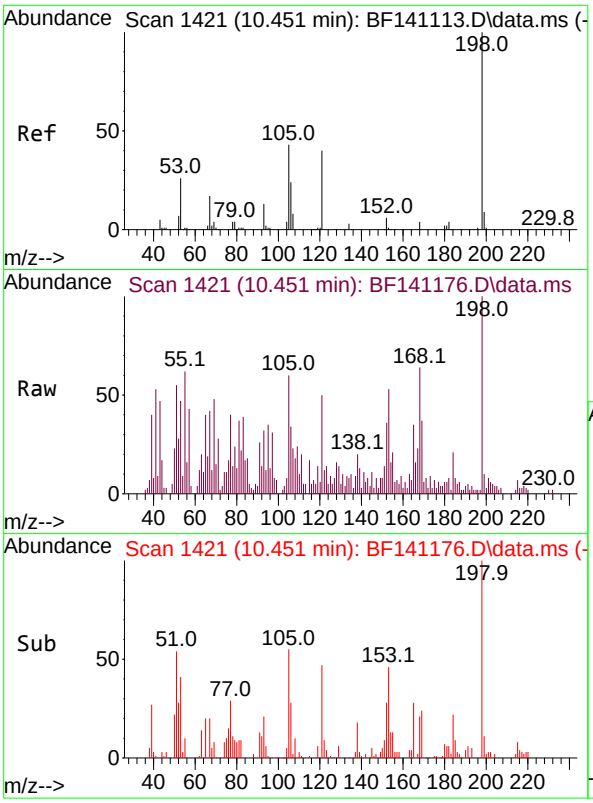


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:188 Resp: 427420

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.3	12.5
80	10.8	9.0	13.4



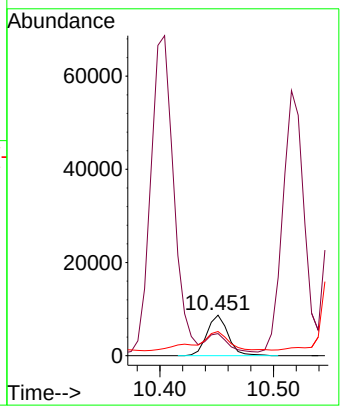


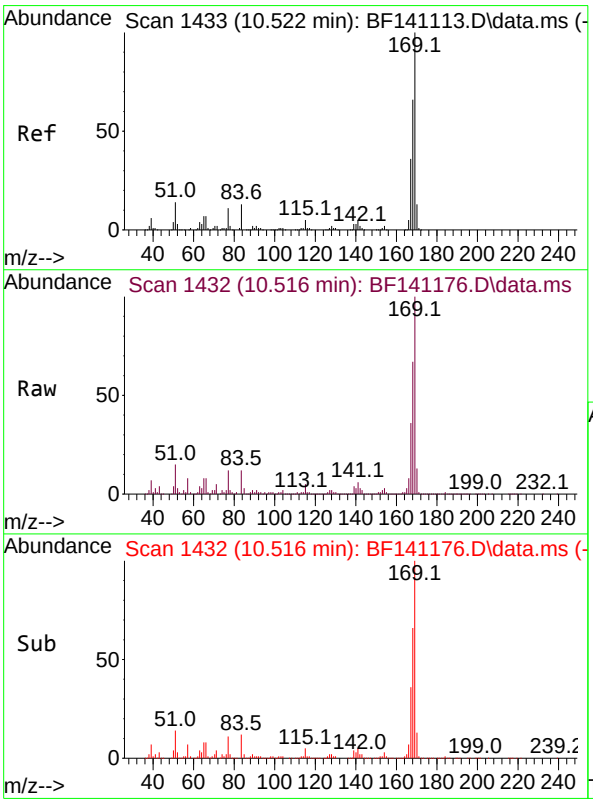
#65
4,6-Dinitro-2-methylphenol
Concen: 4.520 ng
RT: 10.451 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:198 Resp: 11195

Ion	Ratio	Lower	Upper
198	100		
51	54.6	27.1	67.1
105	59.8	24.2	64.2

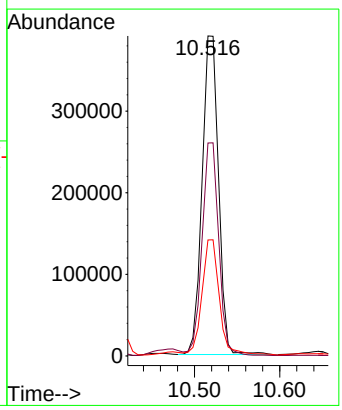


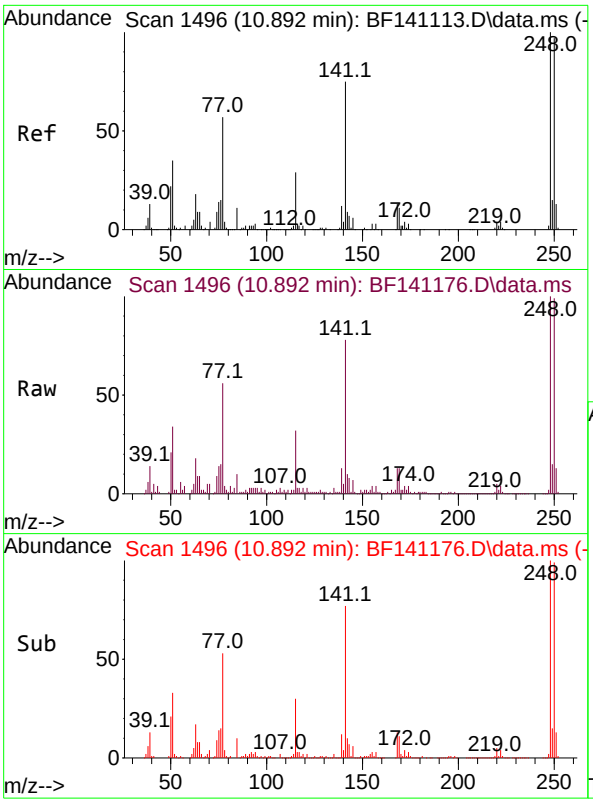


#66
n-Nitrosodiphenylamine
Concen: 37.894 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:169 Resp: 522412

Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.5	78.7
167	36.3	28.9	43.3



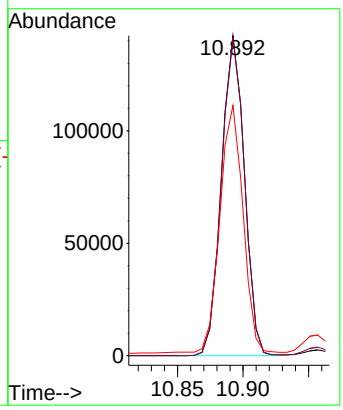


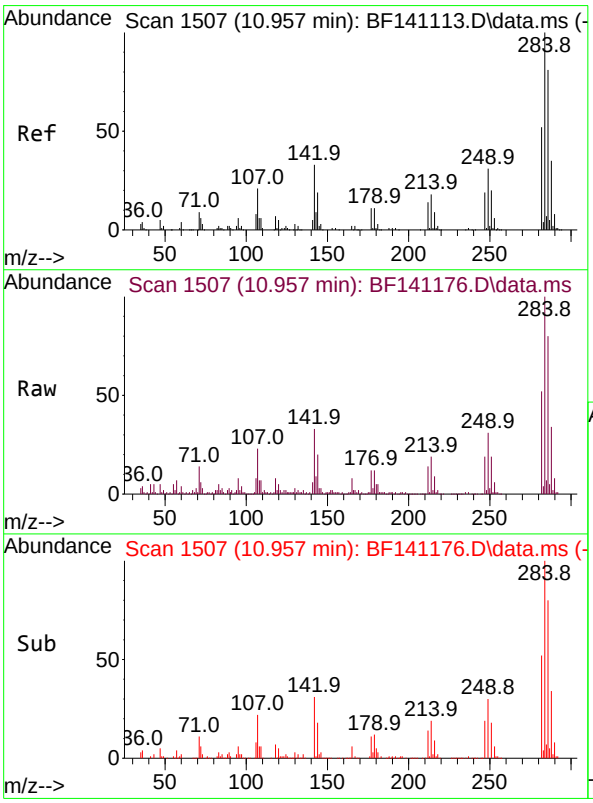
#67
4-Bromophenyl-phenylether
Concen: 35.228 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:248 Resp: 173354

Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.9	116.9
141	78.2	59.9	89.9

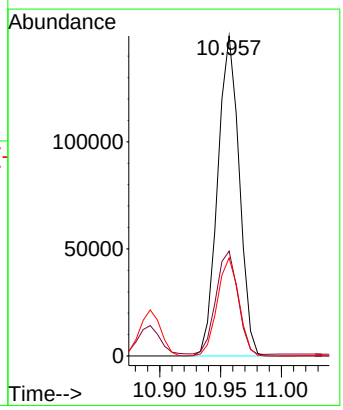


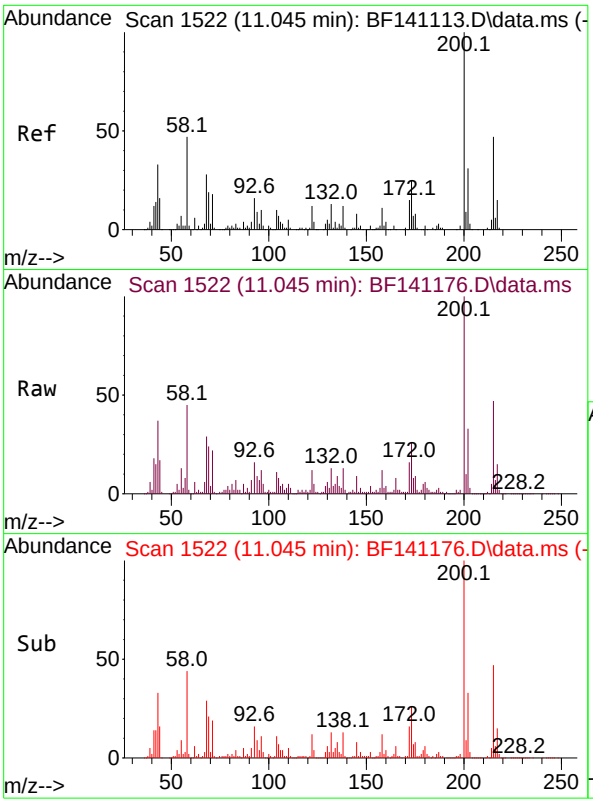


#68
Hexachlorobenzene
Concen: 33.626 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:284 Resp: 184199

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.3	39.5
249	30.6	24.9	37.3



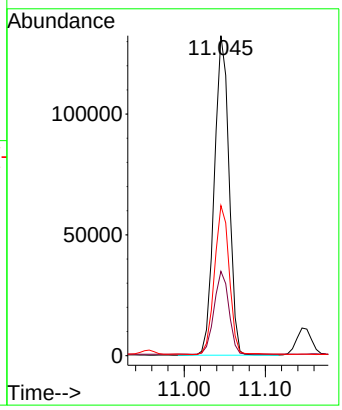


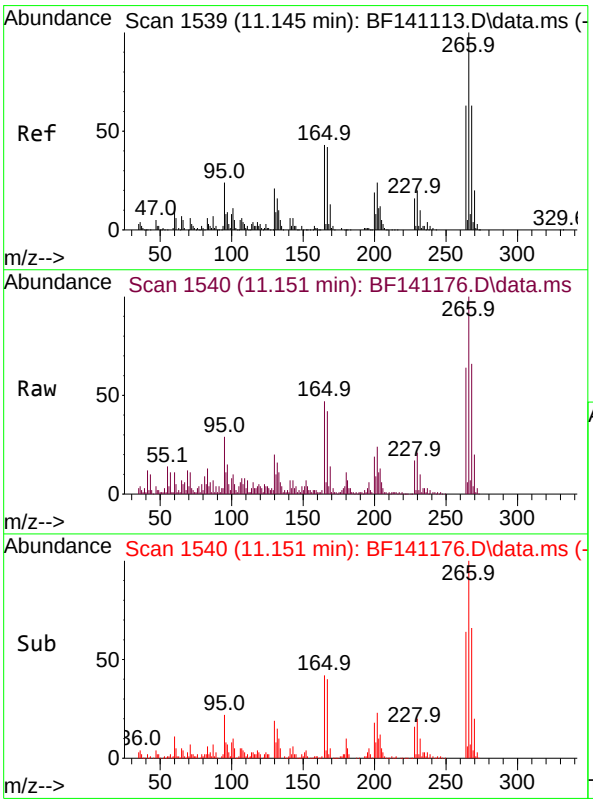
#69
Atrazine
Concen: 44.950 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:200 Resp: 166855

Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.4	45.4
215	46.9	26.6	66.6

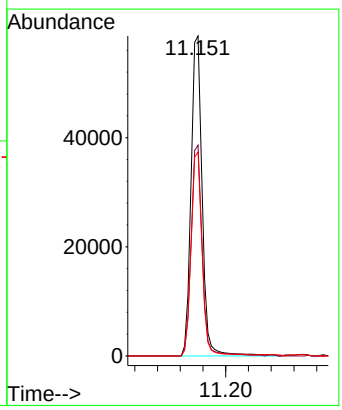


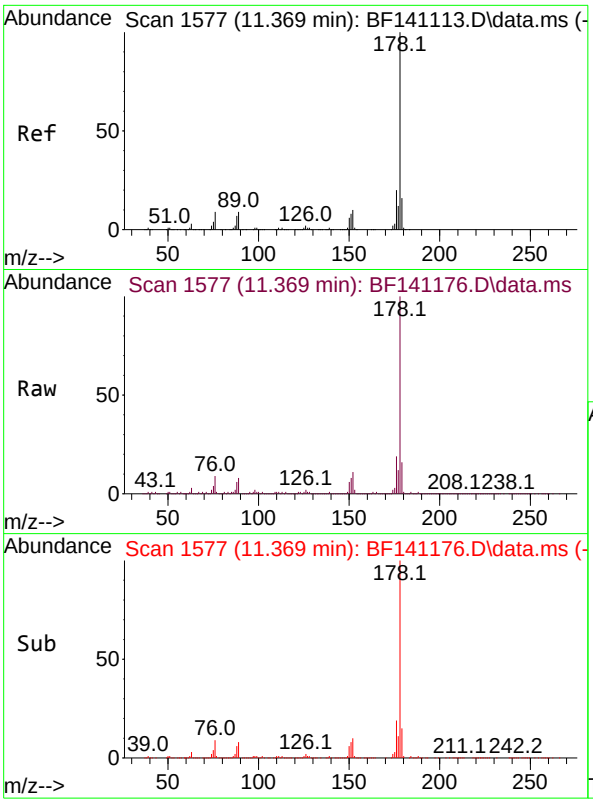


#70
Pentachlorophenol
Concen: 22.862 ng
RT: 11.151 min Scan# 1540
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:266 Resp: 80199

Ion	Ratio	Lower	Upper
266	100		
268	65.9	50.4	75.6
264	63.7	50.2	75.2



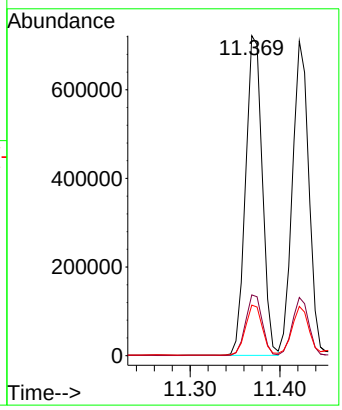


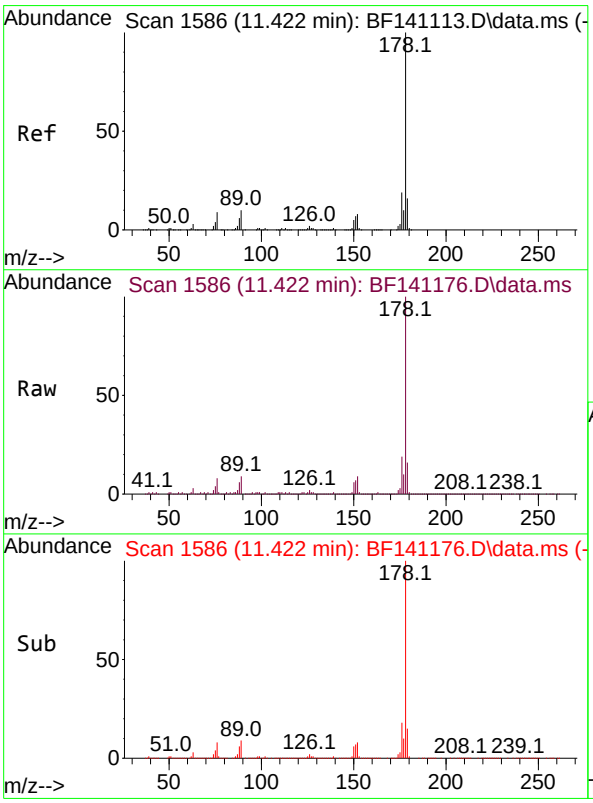
#71
Phenanthrene
Concen: 40.461 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:178 Resp: 928440

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.7	23.5
179	15.8	12.6	19.0

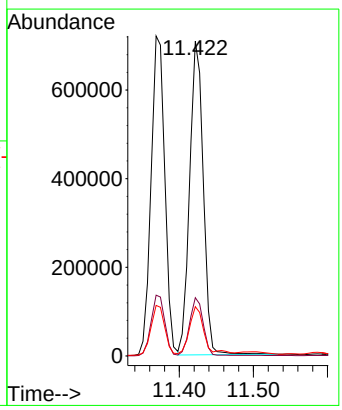


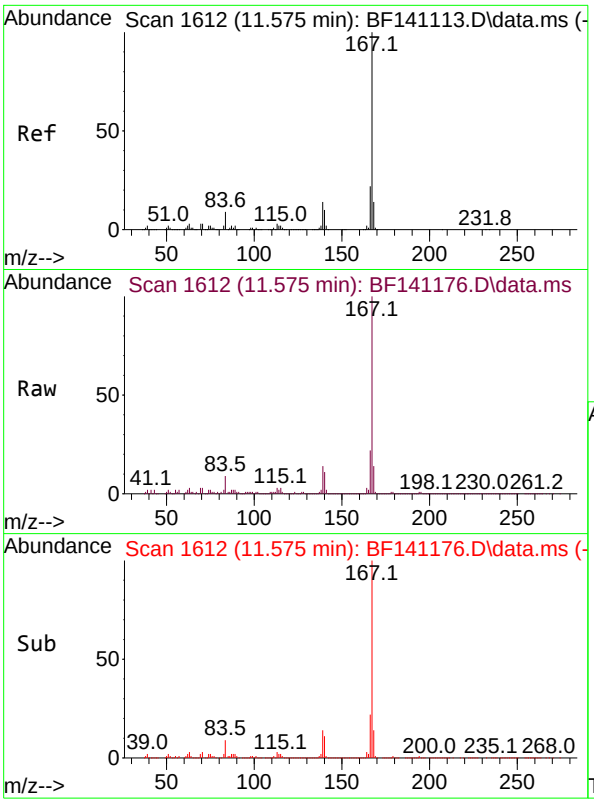


#72
Anthracene
Concen: 40.638 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:178 Resp: 906732

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.7	12.6	19.0



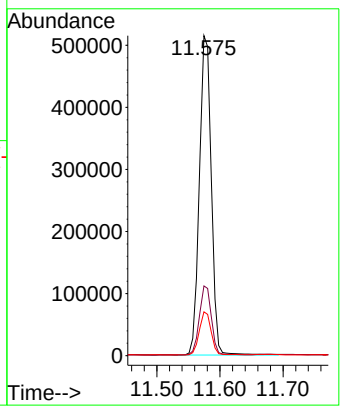


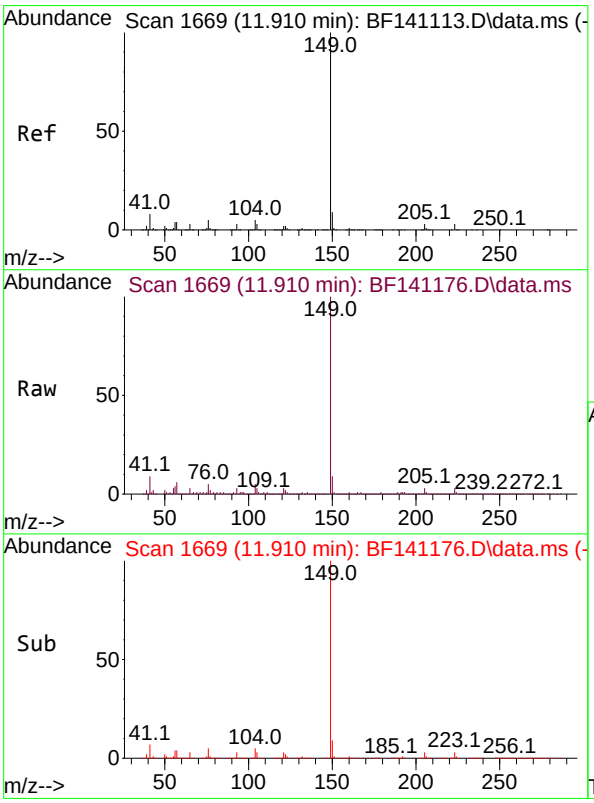
#73
Carbazole
Concen: 32.941 ng
RT: 11.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:167 Resp: 673943

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.7	10.9	16.3

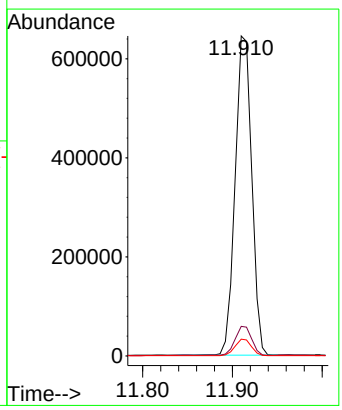


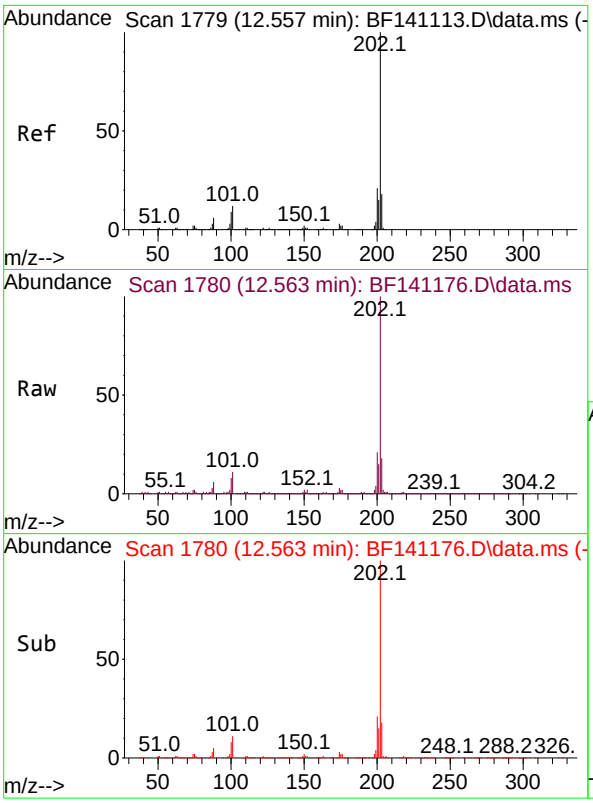


#74
Di-n-butylphthalate
Concen: 35.379 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:149 Resp: 828354

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.3	4.2	6.2



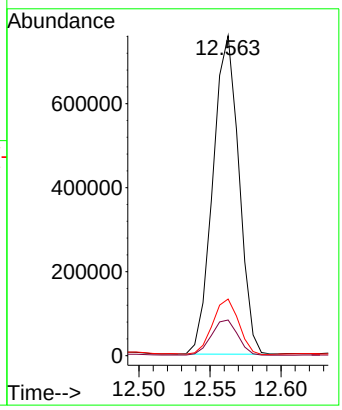


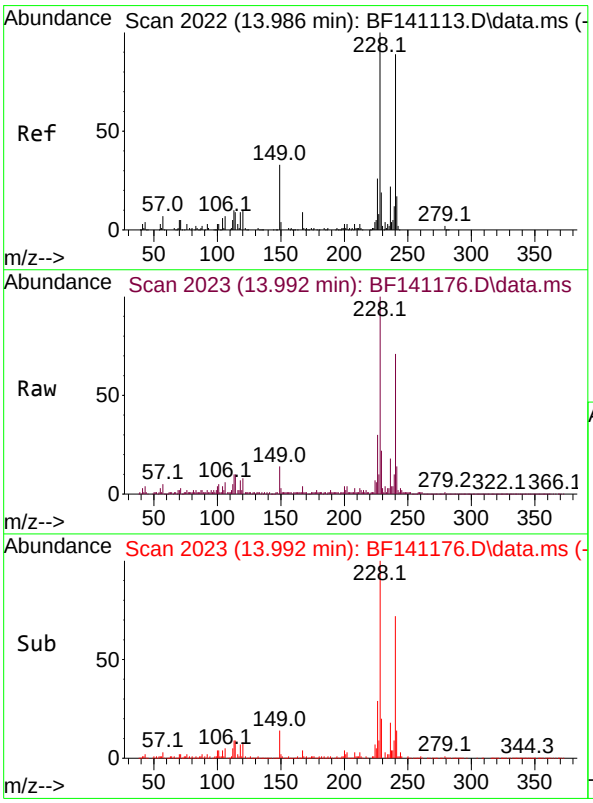
#75
Fluoranthene
Concen: 42.207 ng
RT: 12.563 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:202 Resp: 966493

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.3
203	17.7	0.0	37.7

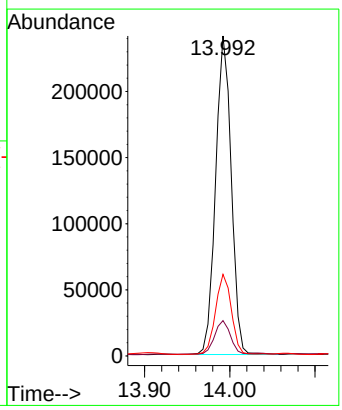


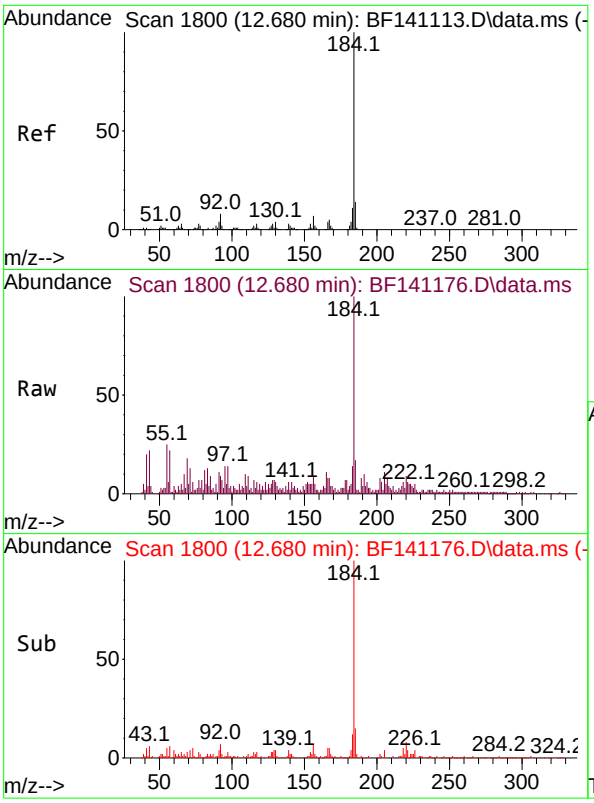


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:240 Resp: 307236

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.1	13.7
236	25.5	19.8	29.6



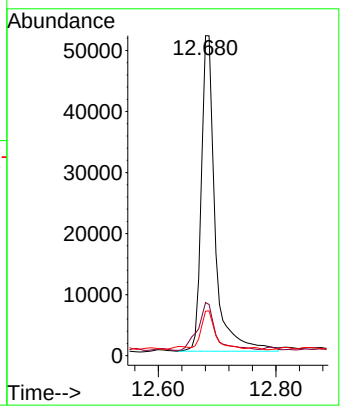


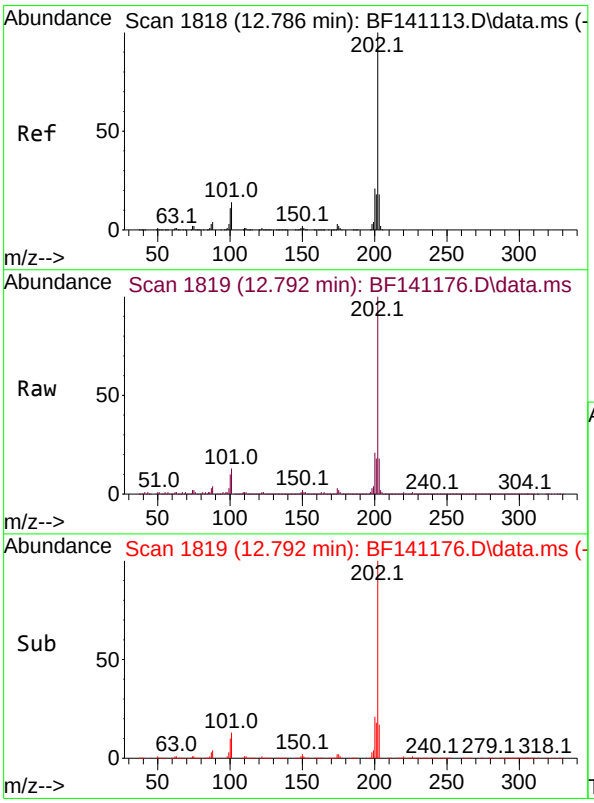
#77
Benzidine
Concen: 14.811 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:184 Resp: 84383

Ion	Ratio	Lower	Upper
184	100		
185	16.6	11.4	17.0
183	13.9	9.2	13.8#

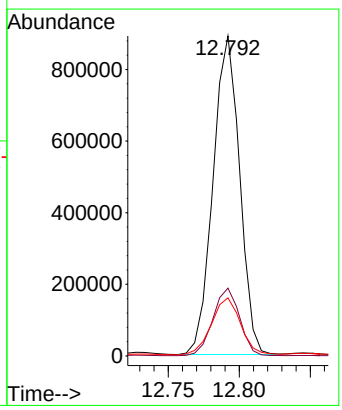


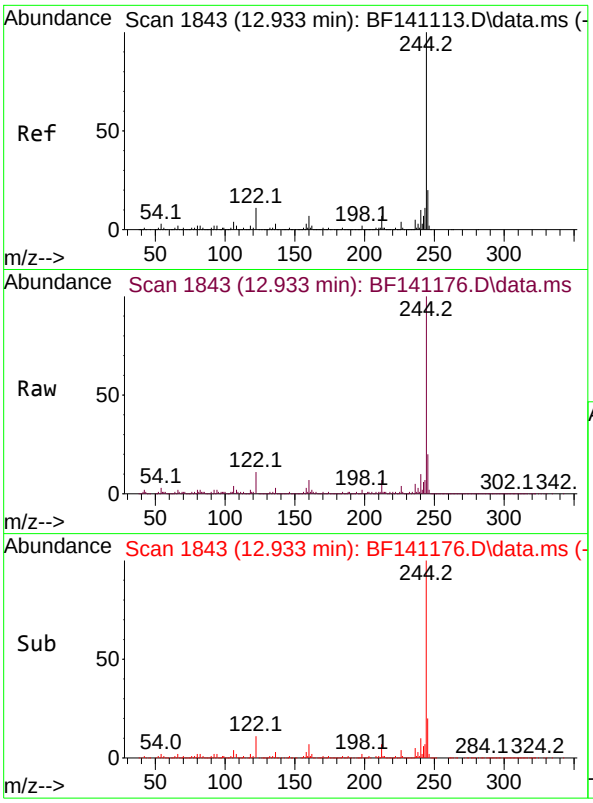


#78
Pyrene
Concen: 39.496 ng
RT: 12.792 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:202 Resp: 1159012

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.1	14.3	21.5



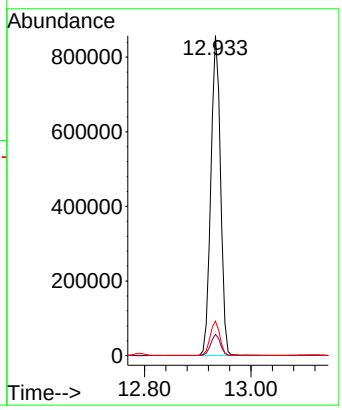


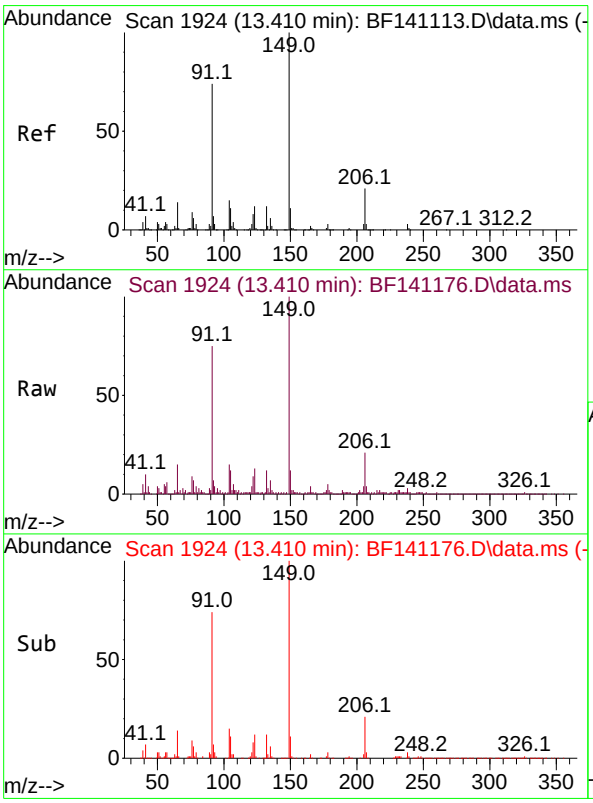
#79
Terphenyl-d14
Concen: 52.280 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:244 Resp: 1080678

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	10.8	8.8	13.2

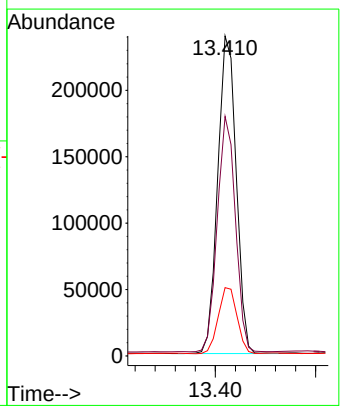


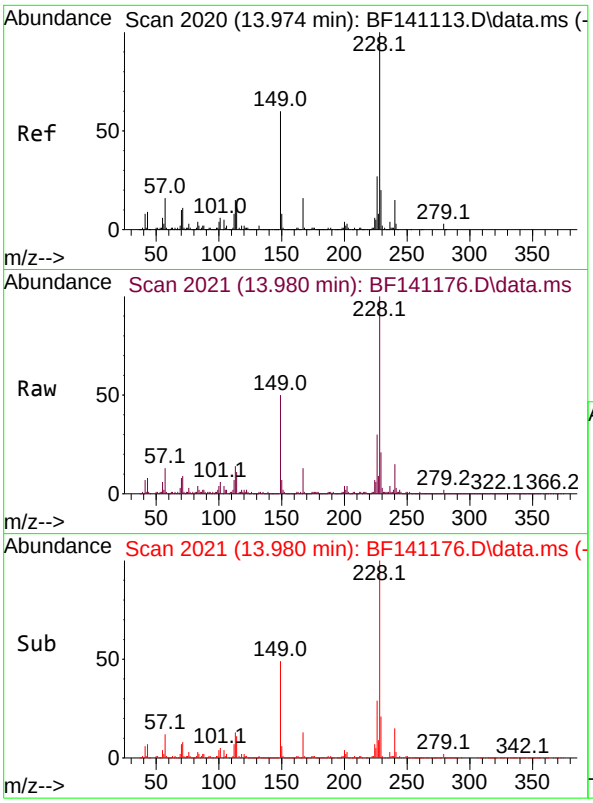


#80
Butylbenzylphthalate
Concen: 31.209 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:149 Resp: 305345

Ion	Ratio	Lower	Upper
149	100		
91	74.9	59.0	88.6
206	21.4	16.5	24.7



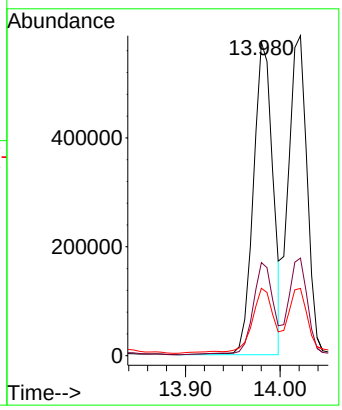


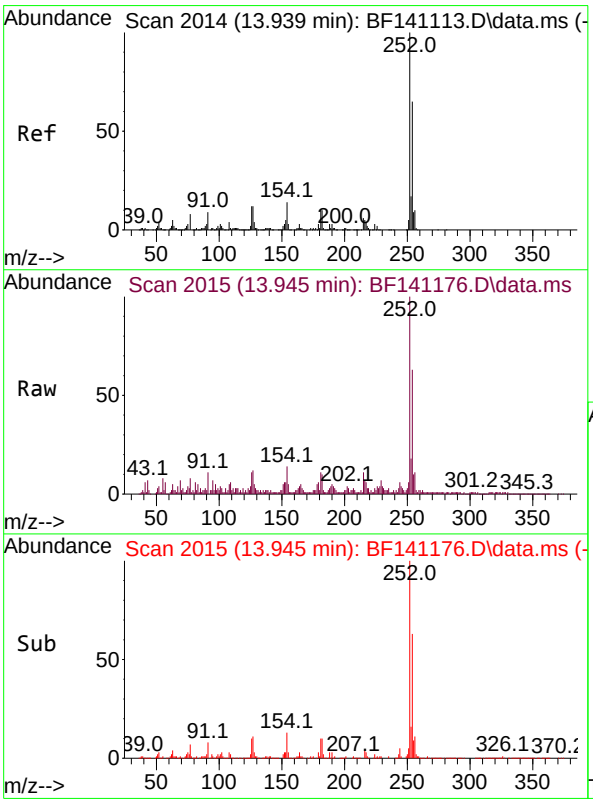
#81
Benzo(a)anthracene
Concen: 39.257 ng
RT: 13.980 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:228 Resp: 820834

Ion	Ratio	Lower	Upper
228	100		
226	29.8	21.7	32.5
229	21.5	15.7	23.5

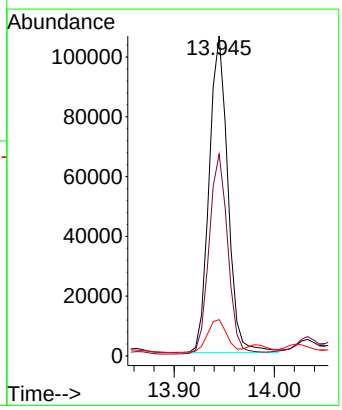


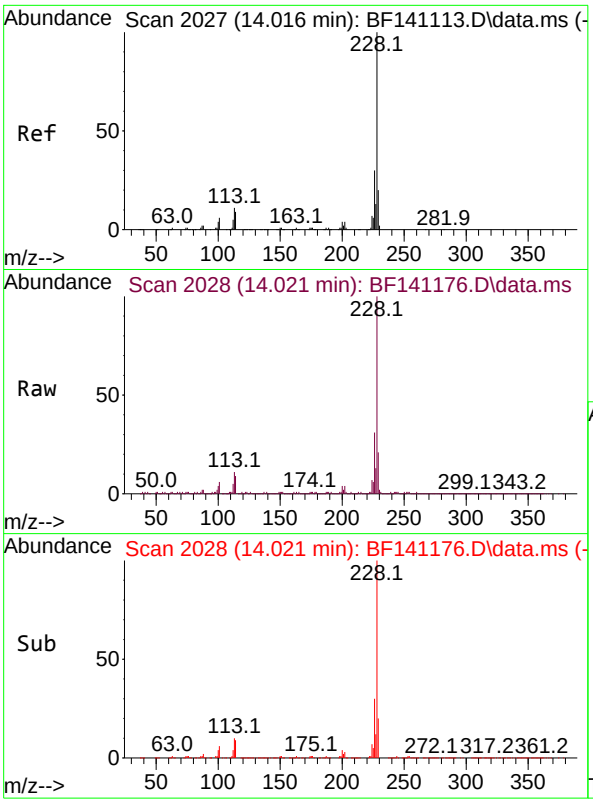


#82
3,3'-Dichlorobenzidine
Concen: 20.639 ng
RT: 13.945 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:252 Resp: 137413

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.0	78.0
126	11.4	9.4	14.0



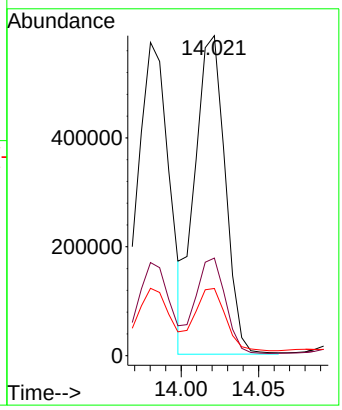


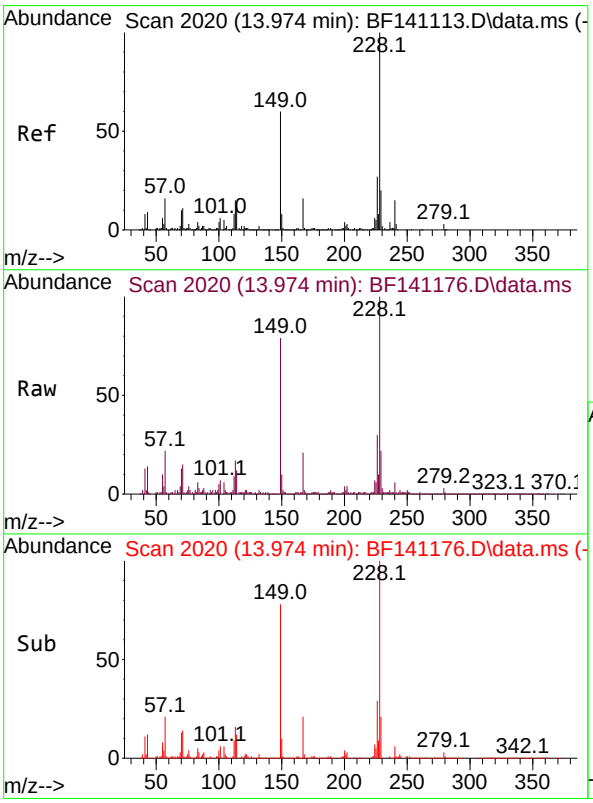
#83
Chrysene
Concen: 40.674 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:228 Resp: 795763

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	21.0	15.8	23.8

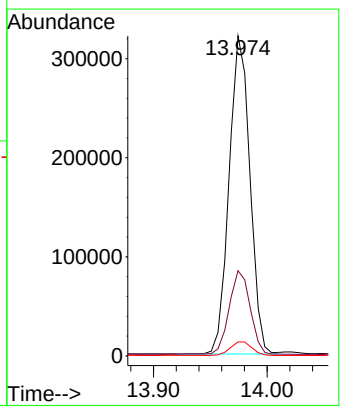


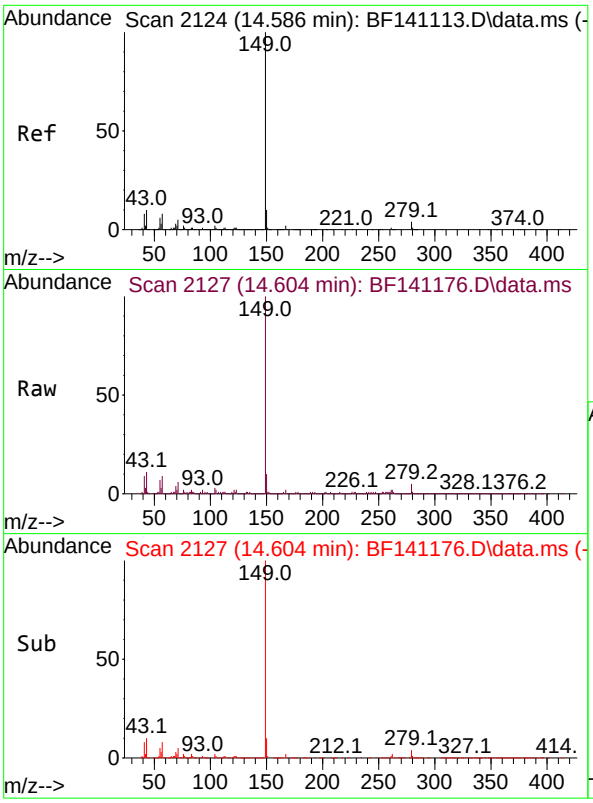


#84
Bis(2-ethylhexyl)phthalate
Concen: 34.743 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:149 Resp: 407859

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.2
279	4.4	3.4	5.2



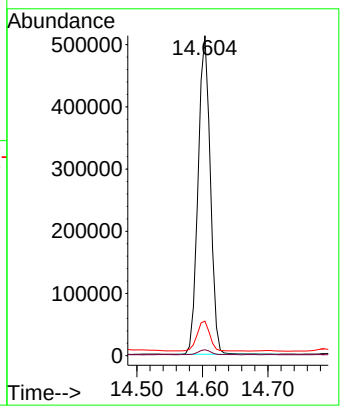


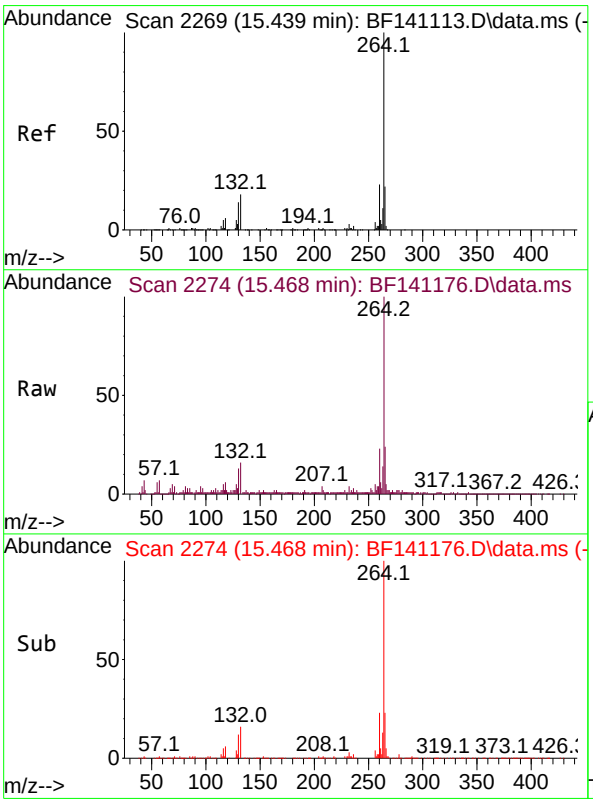
#85
Di-n-octyl phthalate
Concen: 37.454 ng
RT: 14.604 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:149 Resp: 663939

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.8	8.4	12.6

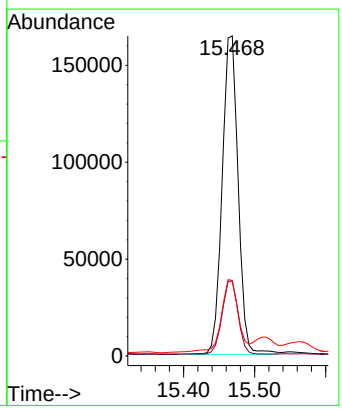


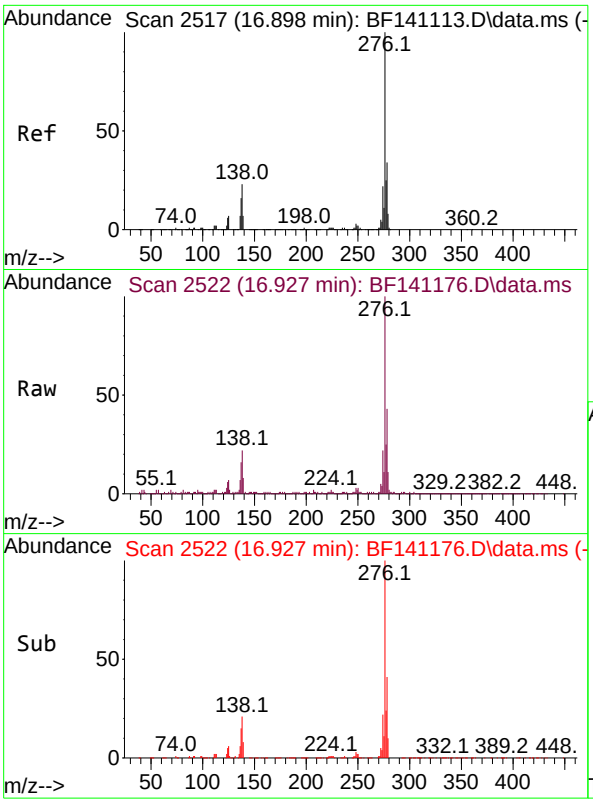


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:264 Resp: 256318

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	23.6	17.4	26.0



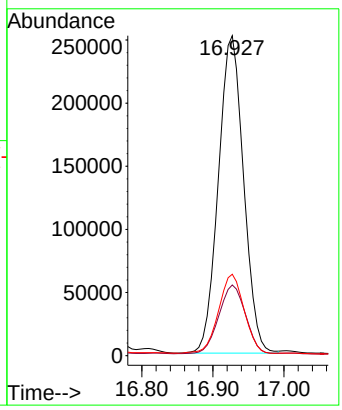


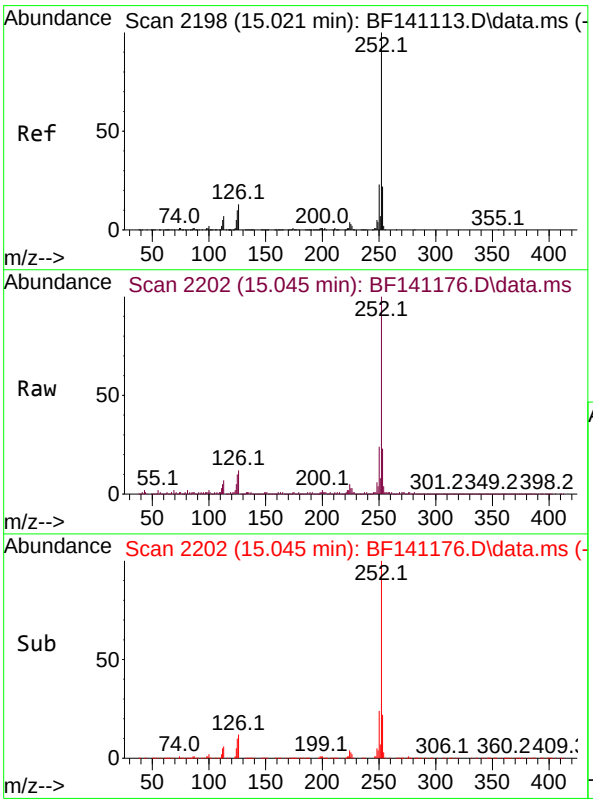
#87
Indeno(1,2,3-cd)pyrene
Concen: 32.986 ng
RT: 16.927 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:276 Resp: 619424

Ion	Ratio	Lower	Upper
276	100		
138	22.9	20.7	31.1
277	25.0	20.6	30.8

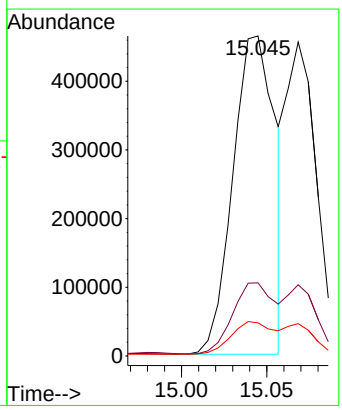


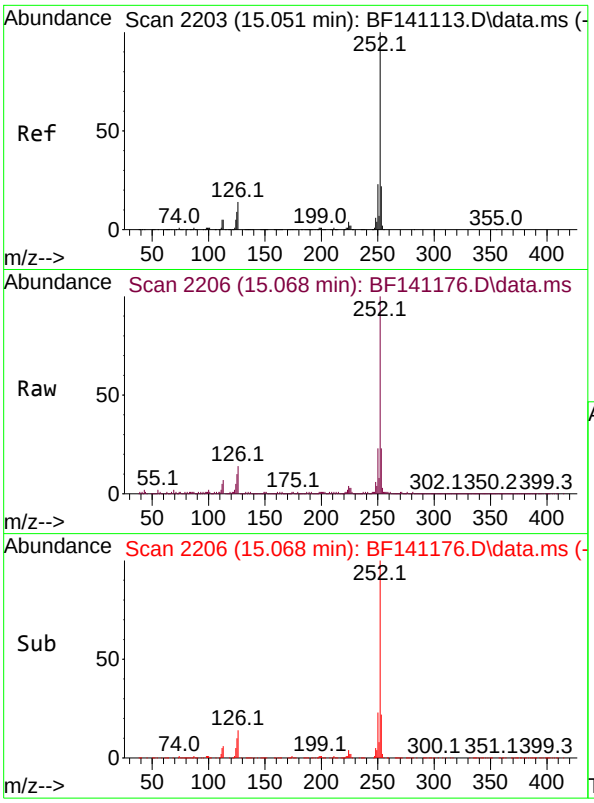


#88
Benzo(b)fluoranthene
Concen: 48.220 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.024 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:252 Resp: 796990

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	10.4	8.1	12.1



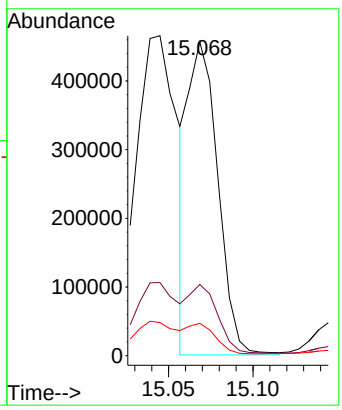


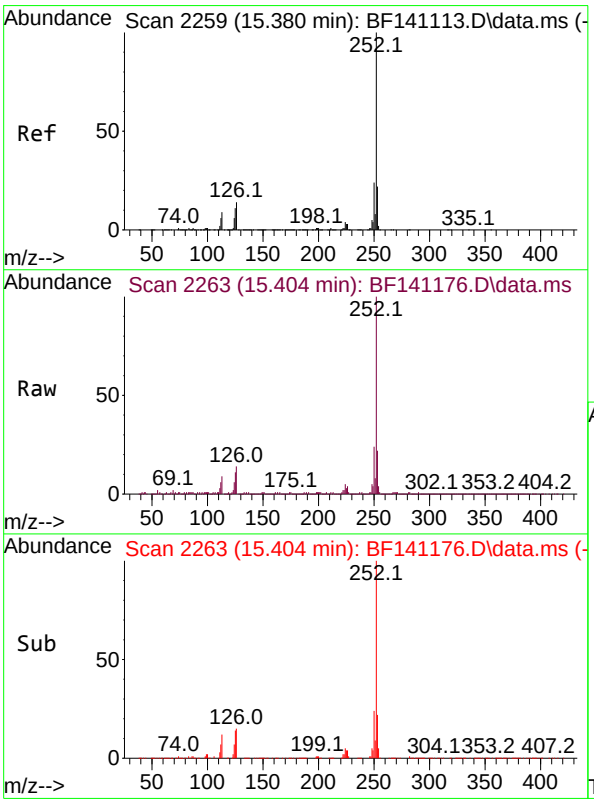
#89
Benzo(k)fluoranthene
Concen: 40.280 ng m
RT: 15.068 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:252 Resp: 562619

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	10.3	7.9	11.9

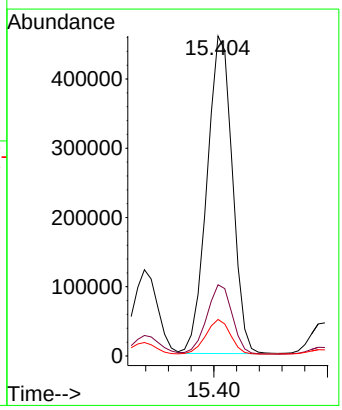


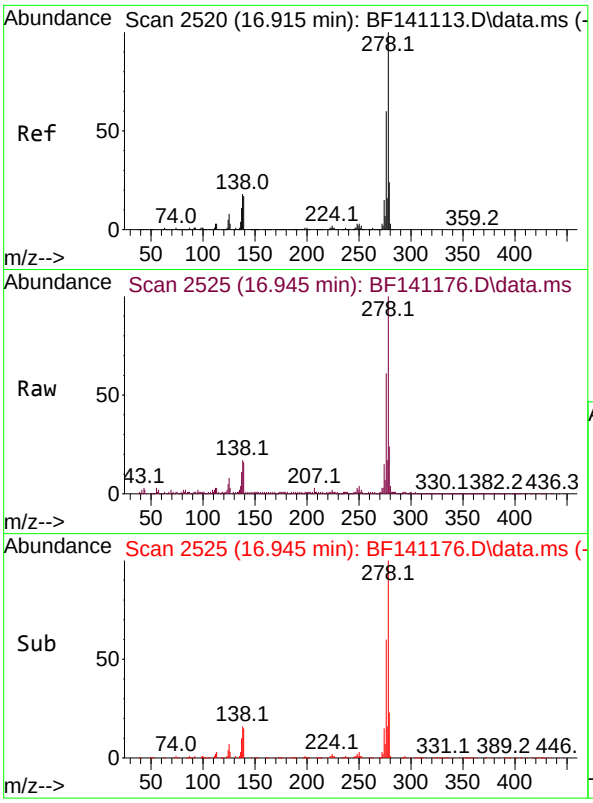


#90
Benzo(a)pyrene
Concen: 52.390 ng
RT: 15.404 min Scan# 2263
Delta R.T. 0.024 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:252 Resp: 714424

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	11.4	9.1	13.7



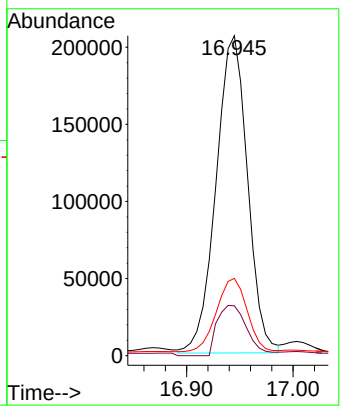


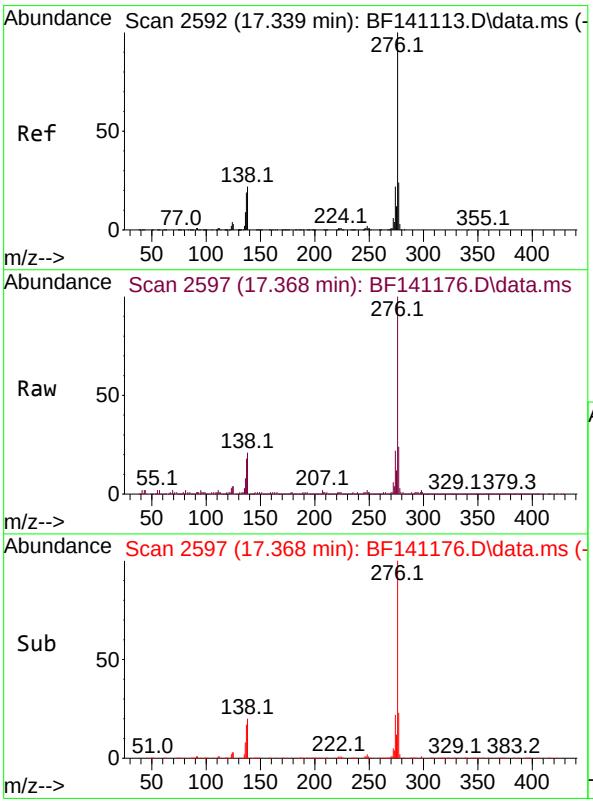
#91
Dibenzo(a,h)anthracene
Concen: 27.827 ng
RT: 16.945 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:278 Resp: 422648

Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.8	20.6
279	24.2	19.1	28.7

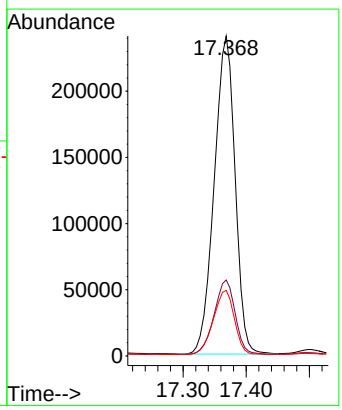




#92
Benzo(g,h,i)perylene
Concen: 34.878 ng
RT: 17.368 min Scan# 2597
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:276 Resp: 551001

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	20.5	17.4	26.2



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF011025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BF141117.D	Caprolactam	yogesh	1/13/2025 12:24:19 AM	Jagrut	1/13/2025 11:53:40 AM	Peak Integrated by Software
SSTDICC080	BF141119.D	Aniline	yogesh	1/13/2025 12:24:20 AM	Jagrut	1/13/2025 11:53:42 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	BF011525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166035BS	BF141165.D	Caprolactam	Jagrut	1/15/2025 5:54:52 PM	mohammad	1/16/2025 7:51:52 AM	Peak Integrated by Software
PB166061BS	BF141172.D	Caprolactam	Jagrut	1/15/2025 5:55:02 PM	mohammad	1/16/2025 7:51:52 AM	Peak Integrated by Software
Q1068-01MS	BF141175.D	Benzo(k)fluoranthene	Jagrut	1/15/2025 5:55:05 PM	mohammad	1/16/2025 7:51:52 AM	Peak Integrated by Software
Q1068-01MS	BF141175.D	Benzoic acid	Jagrut	1/15/2025 5:55:05 PM	mohammad	1/16/2025 7:51:52 AM	Peak Integrated by Software
Q1068-01MSD	BF141176.D	Benzo(k)fluoranthene	Jagrut	1/15/2025 5:55:08 PM	mohammad	1/16/2025 7:51:52 AM	Peak Integrated by Software
Q1068-01MSD	BF141176.D	Benzoic acid	Jagrut	1/15/2025 5:55:08 PM	mohammad	1/16/2025 7:51:52 AM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF011025

Review By	yogesh	Review On	1/13/2025 12:24:27 AM		
Supervise By	Jagrut	Supervise On	1/13/2025 11:38:11 AM		
SubDirectory	BF011025	HP Acquire Method	BNA_F	HP Processing Method	bf011025

STD. NAME	STD REF.#
Tune/Reschk	SP6701
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12647,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141108.D	10 Jan 2025 11:32	RC/JU	Ok
2	SSTDICC2.5	BF141109.D	10 Jan 2025 11:58	RC/JU	Ok
3	SSTDICC005	BF141110.D	10 Jan 2025 12:25	RC/JU	Ok
4	SSTDICC010	BF141111.D	10 Jan 2025 13:17	RC/JU	Ok
5	SSTDICC020	BF141112.D	10 Jan 2025 14:10	RC/JU	Ok
6	SSTDICCC040	BF141113.D	10 Jan 2025 14:36	RC/JU	Ok
7	SSTDICC050	BF141114.D	10 Jan 2025 15:03	RC/JU	Not Ok
8	SSTDICC060	BF141115.D	10 Jan 2025 15:29	RC/JU	Not Ok
9	SSTDICC080	BF141116.D	10 Jan 2025 15:56	RC/JU	Not Ok
10	SSTDICC050	BF141117.D	10 Jan 2025 16:53	RC/JU	Ok,M
11	SSTDICC060	BF141118.D	10 Jan 2025 17:19	RC/JU	Ok
12	SSTDICC080	BF141119.D	10 Jan 2025 17:45	RC/JU	Ok,M
13	SSTDICV040	BF141120.D	10 Jan 2025 18:12	RC/JU	Ok
14	PB166008BL	BF141121.D	10 Jan 2025 18:38	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF011525

Review By	Jagrut	Review On	1/15/2025 5:55:24 PM				
Supervise By	mohammad	Supervise On	1/16/2025 7:51:52 AM				
SubDirectory	BF011525	HP Acquire Method	BNA_F		HP Processing Method	bf011025	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12647,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141162.D	15 Jan 2025 09:08	RC/JU	Ok
2	SSTDCCC040	BF141163.D	15 Jan 2025 09:34	RC/JU	Ok
3	PB166052BL	BF141164.D	15 Jan 2025 10:00	RC/JU	Ok
4	PB166035BS	BF141165.D	15 Jan 2025 10:26	RC/JU	Ok,M
5	PB166026TB	BF141166.D	15 Jan 2025 10:52	RC/JU	Ok
6	PB166008BS	BF141167.D	15 Jan 2025 11:19	RC/JU	Ok,M
7	PB166008BSD	BF141168.D	15 Jan 2025 11:45	RC/JU	Ok,M
8	PB166035BL	BF141169.D	15 Jan 2025 12:11	RC/JU	Ok
9	PB166052BS	BF141170.D	15 Jan 2025 12:38	RC/JU	Ok,M
10	PB166061BL	BF141171.D	15 Jan 2025 13:12	RC/JU	Ok
11	PB166061BS	BF141172.D	15 Jan 2025 13:38	RC/JU	Ok,M
12	Q1069-01	BF141173.D	15 Jan 2025 14:13	RC/JU	ReRun
13	Q1069-01RX	BF141174.D	15 Jan 2025 14:39	RC/JU	Confirms
14	Q1068-01MS	BF141175.D	15 Jan 2025 15:05	RC/JU	Ok,M
15	Q1068-01MSD	BF141176.D	15 Jan 2025 16:40	RC/JU	Ok,M
16	SSTDCCC040	BF141177.D	15 Jan 2025 17:10	RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF011025

Review By	yogesh	Review On	1/13/2025 12:24:27 AM		
Supervise By	Jagrut	Supervise On	1/13/2025 11:38:11 AM		
SubDirectory	BF011025	HP Acquire Method	BNA_F	HP Processing Method	bf011025

STD. NAME	STD REF.#
Tune/Reschk	SP6701
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12647,10ul/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	BF141108.D	10 Jan 2025 11:32		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141109.D	10 Jan 2025 11:58		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141110.D	10 Jan 2025 12:25	Compound #54 removed from 5ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141111.D	10 Jan 2025 13:17		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF141112.D	10 Jan 2025 14:10		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF141113.D	10 Jan 2025 14:36	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141114.D	10 Jan 2025 15:03	Not Used	RC/JU	Not Ok
8	SSTDICC060	SSTDICC060	BF141115.D	10 Jan 2025 15:29	Not Used	RC/JU	Not Ok
9	SSTDICC080	SSTDICC080	BF141116.D	10 Jan 2025 15:56	Not Used	RC/JU	Not Ok
10	SSTDICC050	SSTDICC050	BF141117.D	10 Jan 2025 16:53		RC/JU	Ok,M
11	SSTDICC060	SSTDICC060	BF141118.D	10 Jan 2025 17:19		RC/JU	Ok
12	SSTDICC080	SSTDICC080	BF141119.D	10 Jan 2025 17:45	Compound #9 removed from 80ppm	RC/JU	Ok,M
13	SSTDICV040	ICVBF011025	BF141120.D	10 Jan 2025 18:12	Com# 69 & 77 failed in ICV for DOD	RC/JU	Ok
14	PB166008BL	PB166008BL	BF141121.D	10 Jan 2025 18:38		RC/JU	Ok

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF011525

Review By	Jagrut	Review On	1/15/2025 5:55:24 PM		
Supervise By	mohammad	Supervise On	1/16/2025 7:51:52 AM		
SubDirectory	BF011525	HP Acquire Method	BNA_F	HP Processing Method	bf011025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12647,10ul/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	BF141162.D	15 Jan 2025 09:08		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141163.D	15 Jan 2025 09:34		RC/JU	Ok
3	PB166052BL	PB166052BL	BF141164.D	15 Jan 2025 10:00		RC/JU	Ok
4	PB166035BS	PB166035BS	BF141165.D	15 Jan 2025 10:26		RC/JU	Ok,M
5	PB166026TB	PB166026TB	BF141166.D	15 Jan 2025 10:52		RC/JU	Ok
6	PB166008BS	PB166008BS	BF141167.D	15 Jan 2025 11:19		RC/JU	Ok,M
7	PB166008BSD	PB166008BSD	BF141168.D	15 Jan 2025 11:45		RC/JU	Ok,M
8	PB166035BL	PB166035BL	BF141169.D	15 Jan 2025 12:11		RC/JU	Ok
9	PB166052BS	PB166052BS	BF141170.D	15 Jan 2025 12:38		RC/JU	Ok,M
10	PB166061BL	PB166061BL	BF141171.D	15 Jan 2025 13:12		RC/JU	Ok
11	PB166061BS	PB166061BS	BF141172.D	15 Jan 2025 13:38		RC/JU	Ok,M
12	Q1069-01	RW7B-CARBON-2025(	BF141173.D	15 Jan 2025 14:13	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
13	Q1069-01RX	RW7B-CARBON-2025(	BF141174.D	15 Jan 2025 14:39	Surrogate Fail	RC/JU	Confirms
14	Q1068-01MS	TR-06-1-10-2025MS	BF141175.D	15 Jan 2025 15:05		RC/JU	Ok,M
15	Q1068-01MSD	TR-06-1-10-2025MSD	BF141176.D	15 Jan 2025 16:40		RC/JU	Ok,M
16	SSTDCCC040	SSTDCCC040EC	BF141177.D	15 Jan 2025 17:10		RC/JU	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 1/13/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:30
In Date: 01/10/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 01/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134230

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
Q1060-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q1060-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q1060-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q1060-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1060-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1060-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1060-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1060-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1060-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1060-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1064-01	LAW-25-0003	11	1.14	8.60	9.74	8.75	88.5	
Q1065-01	MOO-25-0002	12	1.00	1.00	2.00	2.00	100.0	debris
Q1067-01	PIPE-1	13	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1067-02	PIPE-2	14	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1067-03	PIPE-3	15	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1068-01	TR-06-1-10-2025	16	1.15	8.84	9.99	9.15	90.5	
Q1068-02	TR-06-1-10-2025	17	1.15	8.84	9.99	9.15	90.5	
Q1068-03	TR-06-1-10-2025	18	1.19	8.70	9.89	9.03	90.1	
Q1069-01	RW7B-CARBON-20250109	19	1.17	8.65	9.82	5.98	55.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

134230

WorkList Name : %1-011025 **WorkList ID :** 186855 **Department :** Wet-Chemistry **Date :** 01-10-2025 08:31:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1060-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1060-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1064-01	LAW-25-0003	Solid	Percent Solids	Cool 4 deg C	CHEM02	M11	01/10/2025	Chemtech -SO
Q1065-01	MOO-25-0002	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1067-01	PIPE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1067-02	PIPE-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1067-03	PIPE-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1068-01	TR-06-1-10-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1068-02	TR-06-1-10-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1068-03	TR-06-1-10-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	M11	01/10/2025	Chemtech -SO
Q1069-01	RW7B-CARBON-20250109	Solid	Percent Solids	Cool 4 deg C	TETR06	M11	01/09/2025	Chemtech -SO

Date/Time 01-10-25 15:30

Raw Sample Received by: SB WDC

Raw Sample Relinquished by: CR

Date/Time 01.10.25 17:00

Raw Sample Received by: CR

Raw Sample Relinquished by: SB WDC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166035

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	01/13/2025
Matrix :	Solid			**Extraction Start Time :**	08:54
Weigh By:	RS	**Extraction By:**	RS	**Extraction End Date :**	01/13/2025
Balance check:	EH	**Filter By:**	RS	**Extraction End Time :**	12:10
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	BH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Surrogate	1.0ML	100/150 PPM	SP6638
MDL 1	1.0ML	N/A	SP6706
MDL 2	1.0ML	N/A	SP6708
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	EP2578
Baked Na2SO4	N/A	EP2577
Methylene Chloride	N/A	E3848
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

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial# 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
01/13/25	RP (Ext. Lab)	AC/SVOC
12:15	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166035

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/13/2025

Sample ID	Client Sample ID	Test	(g) mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166035BL	SBLK035	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			U6-1
PB166035BS	SLCS035	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
Q1068-01	TR-06-1-10-2025	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	A		3
Q1068-01MS	TR-06-1-10-2025MS	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	A		4
Q1068-01MSD	TR-06-1-10-2025MSD	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	A		5
Q1069-01	RW7B-CARBON-20250109	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	A		6

* **Extracts relinquished on the same date as received.**

1/13/25

166039
8:35 BW

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1069 **WorkList ID :** 186880 **Department :** Extraction **Date :** 01-13-2025 08:12:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1068-01	TR-06-1-10-2025	Solid	Pesticide-TCL	Cool 4 deg C	PSEG03	M11	01/10/2025	8081B
Q1068-01	TR-06-1-10-2025	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	M11	01/10/2025	8270E
Q1069-01	RW7B-CARBON-20250109	Solid	SVOC-TCL BNA -20	Cool 4 deg C	TETR06	M11	01/09/2025	8270E

Date/Time 01/13/25 8:50
Raw Sample Received by: RT (Eet (ats)
Raw Sample Relinquished by: JD(SM)

Date/Time 01/13/25 9:10
Raw Sample Received by: JD(SM)
Raw Sample Relinquished by: RT (Sat (ats)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166061

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	01/15/2025
Matrix :	Solid			**Extraction Start Time :**	09:15
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	01/15/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:15
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: [ ] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [√] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6681
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	EP2578
Baked Na2SO4	N/A	EP2577
Methylene Chloride	N/A	E3871
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

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
01/15/25	RJ (Ext. Lab)	RC/SVOC
12:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166061

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 01/15/2025

Sample ID	Client Sample ID	Test	g mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166061BL	SBLK061	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U2-1
PB166061BS	SLCS061	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1069-01	RW7B-CARBON-20250109	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	D		3

* **Extracts relinquished on the same date as received.**

1/15/25

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092

RE-EXTRACTION NOTIFICATION

DATE: 01/15/25 Initiated by: JY

Fraction: SVOC

Reason: ✓ Low Surrogate Recovery

____ Other _____

Samples affected:	Matrix	Sample Date	Prep. Batch	Extra Sample Yes No	Verified By	New Prep. Batch
S 1069-01	Soil	01-09-25	PB166035	Yes	R	~~# 166034~~ 166061 R1 1/15

R 1/15/25

Extraction Supervisor Signature: _____ Date: 01/15/25

Form Initiator's Signature: JY Date: 01/15/25

QA Control # A3041248

(166061)
9:15

WORKLIST(Hardcopy Internal Chain)

WorkList Name : q1069s **WorkList ID :** 186915 **Department :** Extraction **Date :** 01-15-2025 09:09:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1069-01	RW7B-CARBON-20250109	Solid	SVOC-TCL BNA -20	Cool 4 deg C	TETR06	M11	01/09/2025	8270E

Date/Time 01/15/25 9:10
Raw Sample Received by: RS (Ext Only)
Raw Sample Relinquished by: JDCSM)

Date/Time 01/15/25 9:30
Raw Sample Received by: JDCSM)
Raw Sample Relinquished by: RS (Ext Only)

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Prep Standard - Chemical Standard Summary

Order ID : Q1069

Test : SVOC-TCL BNA -20

Prepbatch ID : PB166035,PB166061,

Sequence ID/Qc Batch ID: BF011425,BF011525,

Standard ID :
EP2577,EP2578,SP6638,SP6672,SP6673,SP6674,SP6675,SP6676,SP6677,SP6678,SP6679,SP6680,SP6681,SP6685,SP6686,SP6701,SP6705,SP6706,SP6708,SP6717,

Chemical ID :
10ul/1000ul sample,E2865,E3551,E3815,E3827,E3828,E3846,E3848,E3871,S10103,S10246,S10247,S10393,S10583,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11085,S11086,S11093,S11099,S11103,S11138,S11141,S11160,S11494,S11495,S11649,S11776,S11777,S11778,S11779,S11780,S11781,S12079,S12113,S12114,S12134,S12135,S12136,S12137,S12138,S12139,S12140,S12141,S12142,S12187,S12188,S12189,S12207,S12208,S12275,S12276,S12327,S12461,S12462,S12463,S12464,S12465,S12466,S12467,S12468,S12469,S12470,S12510,S12511,S12512,S12513,S12514,S12515,S12516,S12517,S12518,S12647,S12790,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2577	01/06/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/06/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6672	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.05000ml of S12114 + 0.20000ml of S11093 + 0.20000ml of S11494 + 0.20000ml of S11495 + 0.20000ml of S12276 + 0.26700ml of S10103 + 0.40000ml of S11103 + 0.40000ml of S12275 + 0.45000ml of S12113 + 0.50000ml of S11085 + 0.50000ml of S11086 + 0.50000ml of S12079 + 0.50000ml of S12790 + 0.80000ml of S11160 + 1.00000ml of S11099 + 3.83300ml of E3828 = Final Quantity: 10.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6673	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.20000ml of E3828 + 0.80000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6674	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.40000ml of E3828 + 0.60000ml of SP6672 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6675	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.50000ml of E3828 + 0.50000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6676	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6672 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6677	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.80000ml of E3828 + 0.20000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6678	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.90000ml of E3828 + 0.10000ml of SP6672 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6679	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.95000ml of E3828 + 0.05000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6680	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.50000ml of E3828 + 0.50000ml of SP6679 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6681	11/14/2024	02/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/18/2024

FROM 0.20000ml of S12142 + 0.40000ml of S10393 + 0.40000ml of S10583 + 0.40000ml of S11138 + 0.40000ml of S11141 + 0.40000ml of S11649 + 0.40000ml of S11776 + 0.70000ml of S11780 + 0.80000ml of S12461 + 0.80000ml of S12469 + 0.90000ml of S12510 + 1.00000ml of S12134 + 1.00000ml of S12141 + 1.20000ml of S12462 + 1.20000ml of S12463 + 1.20000ml of S12464 + 1.20000ml of S12465 + 1.20000ml of S12466 + 1.20000ml of S12467 + 1.20000ml of S12468 + 1.30000ml of S11777 + 1.30000ml of S11778 + 1.30000ml of S11779 + 1.30000ml of S12135 + 1.30000ml of S12136 + 1.30000ml of S12137 + 1.30000ml of S12138 + 1.30000ml of S12139 + 1.30000ml of S12140 + 1.30000ml of S12511 + 1.30000ml of S12512 + 1.30000ml of S12513 + 1.30000ml of S12514 + 1.30000ml of S12515 + 1.30000ml of S12516 + 1.30000ml of S12517 + 163.00000ml of E3827 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6701	12/30/2024	01/15/2025	Rahul Chavli	None	None	mohammad ahmed 01/02/2025

FROM 0.35000ml of S10247 + 6.65000ml of E3848 = Final Quantity: 7.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1366	LOQ & LOD 20 PPM	SP6705	01/03/2025	04/30/2025	Jagrut Upadhyay	None	None	mohammad ahmed 01/03/2025

FROM 0.20000ml of S11781 + 0.40000ml of S12142 + 0.40000ml of S12470 + 0.40000ml of S12518 + 18.60000ml of E3848 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2082	LOQ & LOD 4 PPM	SP6706	01/03/2025	04/30/2025	Jagrut Upadhyay	None	None	mohammad ahmed 01/03/2025

FROM 16.00000ml of E3848 + 4.00000ml of SP6705 = Final Quantity: 20.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2081	LOQ & LOD 8 PPM	SP6708	01/03/2025	04/30/2025	Jagrut Upadhyay	None	None	mohammad ahmed 01/03/2025

FROM 4.80000ml of E3848 + 3.20000ml of SP6705 = Final Quantity: 8.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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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 #
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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

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

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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	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

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 #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 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	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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	03/13/2025	09/13/2024 / yogesh	05/18/2022 / Christian	S10393

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CHEMICAL RECEIPT LOG BOOK

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	02/12/2025	08/12/2024 / Rahul	07/05/2022 / Christian	S10583

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	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,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

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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,CH2Cl2,5ml	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,CH2Cl2,5ml	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,CH2Cl2,5ml	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,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	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

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CHEMICAL RECEIPT LOG BOOK

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	03/11/2025	09/11/2024 / Rahul	02/07/2023 / Christian	S11085

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	05/12/2025	11/12/2024 / Jagrut	02/07/2023 / Christian	S11086

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	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11093

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	495831	05/12/2025	11/12/2024 / Jagrut	02/07/2023 / Christian	S11099

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	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11103

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]	A0194698	02/12/2025	08/12/2024 / Rahul	02/20/2023 / Christian	S11138

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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	02/12/2025	08/12/2024 / Rahul	02/20/2023 / Christian	S11141

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	05/12/2025	11/12/2024 / Jagrut	03/06/2023 / Christian	S11160

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	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

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	03/13/2025	09/13/2024 / anahy	11/09/2023 / Yogesh	S11649

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	03/13/2025	09/13/2024 / anahy	11/21/2023 / Rahul	S11776

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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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11777

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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11778

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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11779

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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11780

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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

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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	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12134

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12135

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12136

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12137

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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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12138

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12139

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12140

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, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12141

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, CH2Cl2 [New Solvent 100% CH2Cl2]	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	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

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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,CH2Cl2,5ml	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,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

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	03/11/2025	09/11/2024 / Rahul	05/24/2024 / Rahul	S12275

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

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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, CH2Cl2, 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	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12461

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	S12462

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	S12463

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	S12464

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	S12465

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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] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12466

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	S12467

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	S12468

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	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12510

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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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12511

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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12512

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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12513

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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12514

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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12515

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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12516

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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] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

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] [CS 4978-2]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

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	07/08/2025	01/08/2025 / anahy	09/20/2024 / anahy	S12647

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	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12790

CPI INTERNATIONAL

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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
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 gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

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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-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
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 gravimetricllly.

CPI INTERNATIONAL

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Santa Rosa, CA 95403

(707)525-5788
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(707)545-7901 Fax

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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 gravimetricly.

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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 gravimetricly.

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

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Certified By: Erica Castiglione
Erica Castiglione
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 gravimetricly.

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Received on 02/07/23 by CG

~~S11088~~ S11096 to S11099

Manufacturer's Quality System
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Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	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	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

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Certified By: Briana Smith

Briana Smith
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 gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*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: Briana Smith

Briana Smith
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 gravimetricly.

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Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °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 ± 11.49

Received on
02/07/23
by CG

S11101
to
S11103

*Not a certified value

Certified By: S. Hunter

Scott Hunter
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 gravimetricly.

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Received on 03/08/22 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 +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

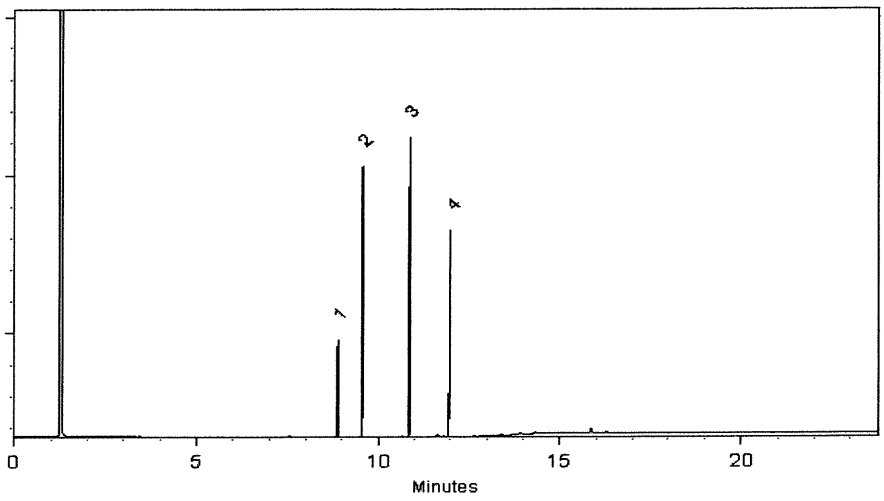
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received on 03/08/22 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 +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

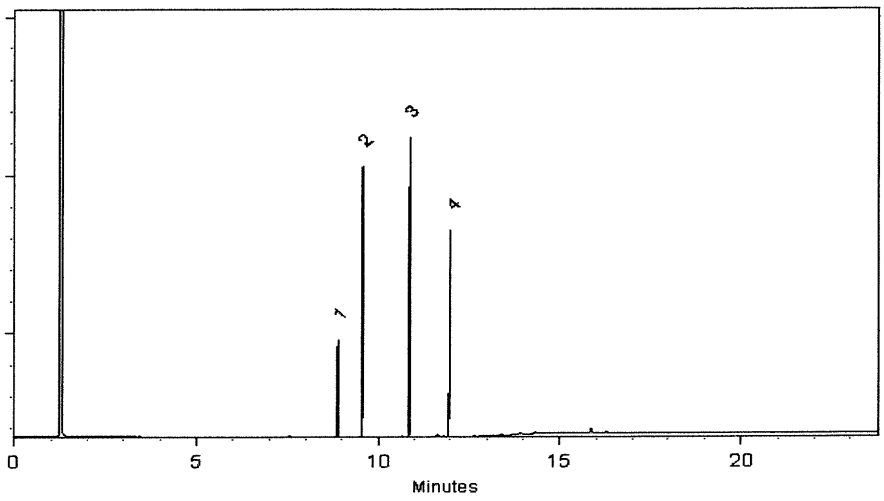
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 05/19/22

S10393 to S10402

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

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 (Lot MKCN1089)		+/- 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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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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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 Suckar - 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/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:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

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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Received on 02/06/23 by CG

S11071 to S11075

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	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 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)

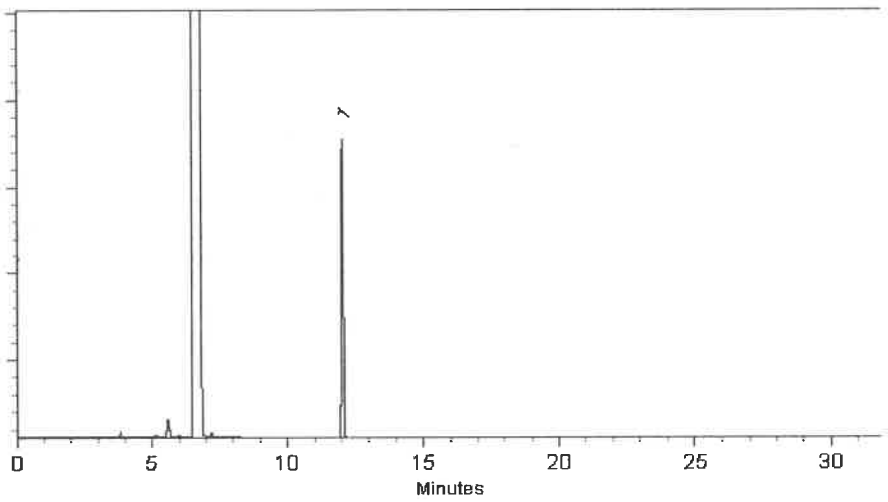
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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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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 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 +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

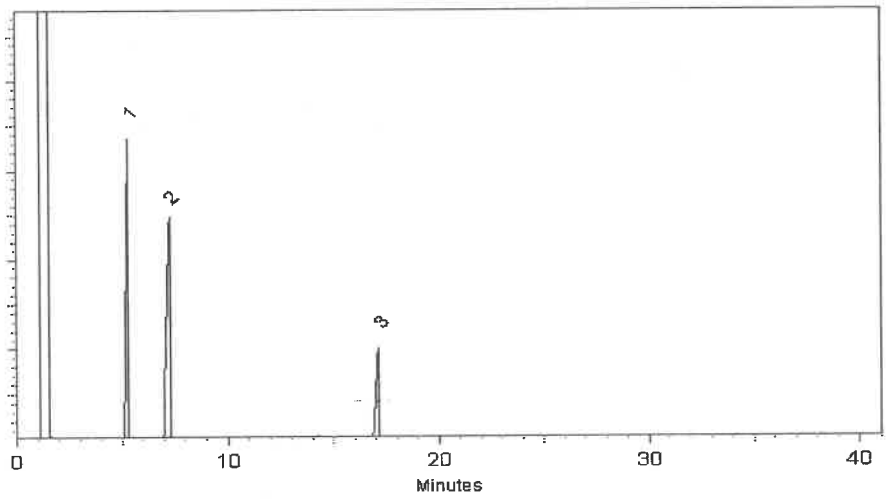
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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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 +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

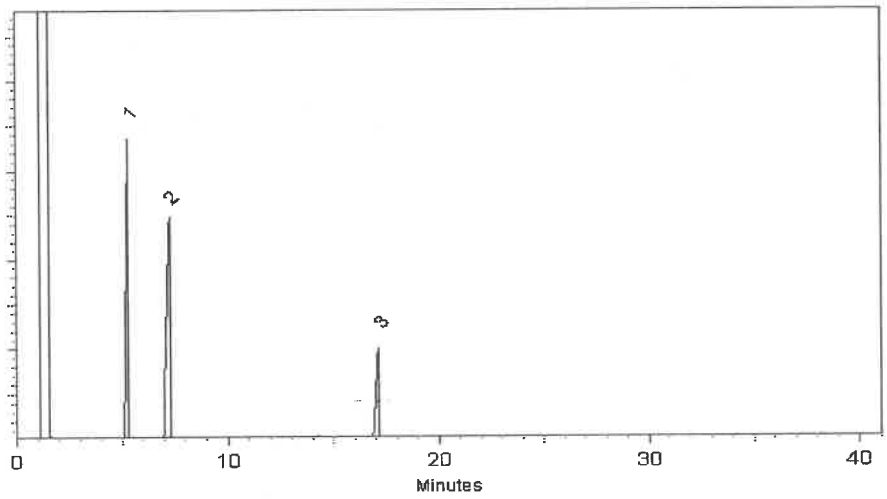
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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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 +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

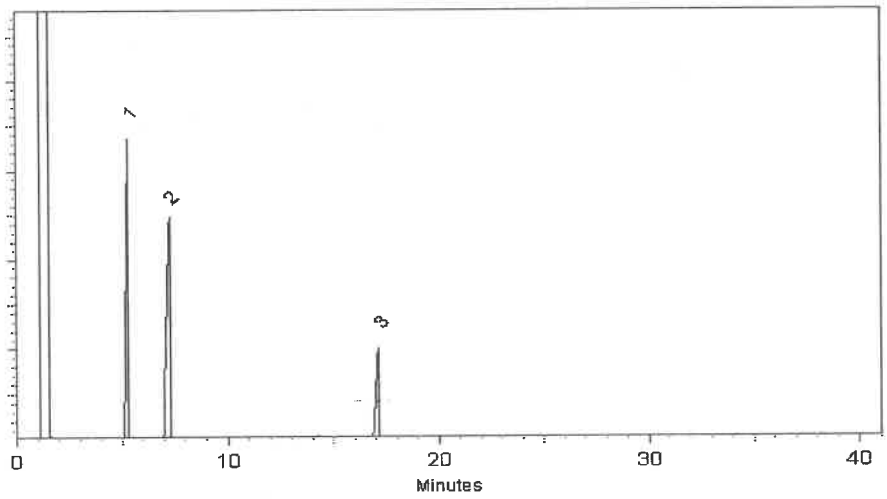
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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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
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

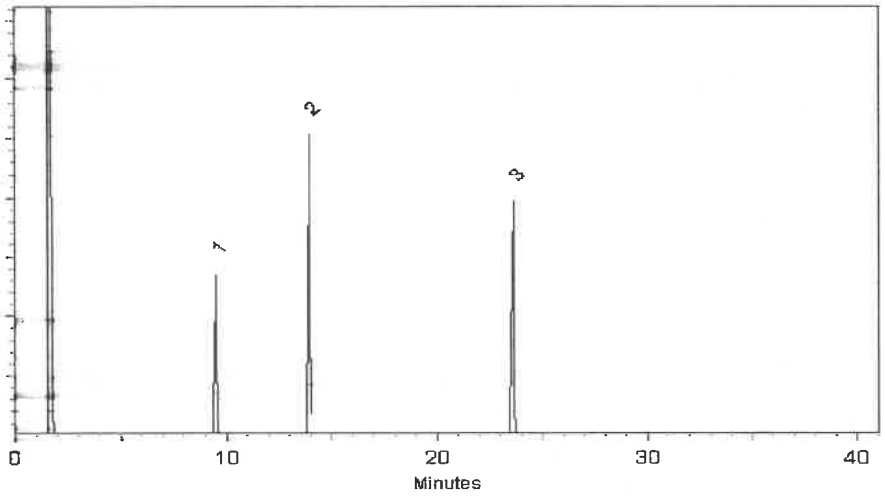
Carrier Gas:
hydrogen-constant pressure 10 psi.

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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Received by CG on 12/28/22
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

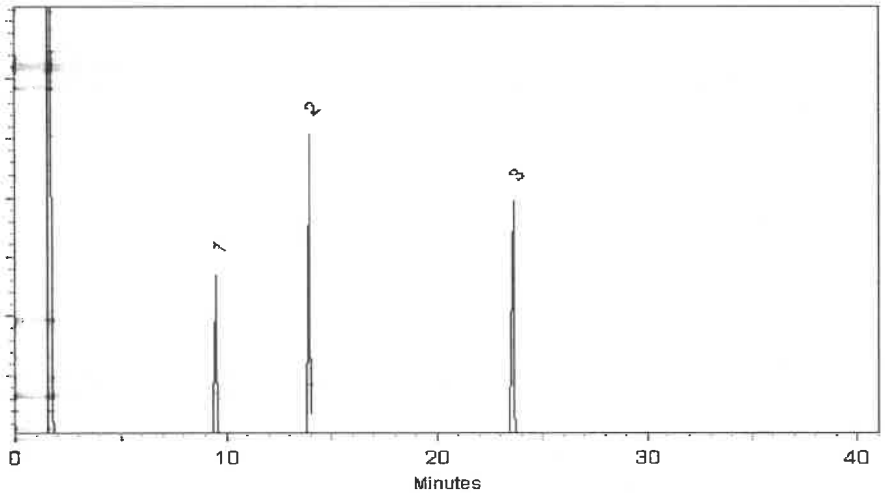
Carrier Gas:
hydrogen-constant pressure 10 psi.

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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Received by CG on 12/28/22
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

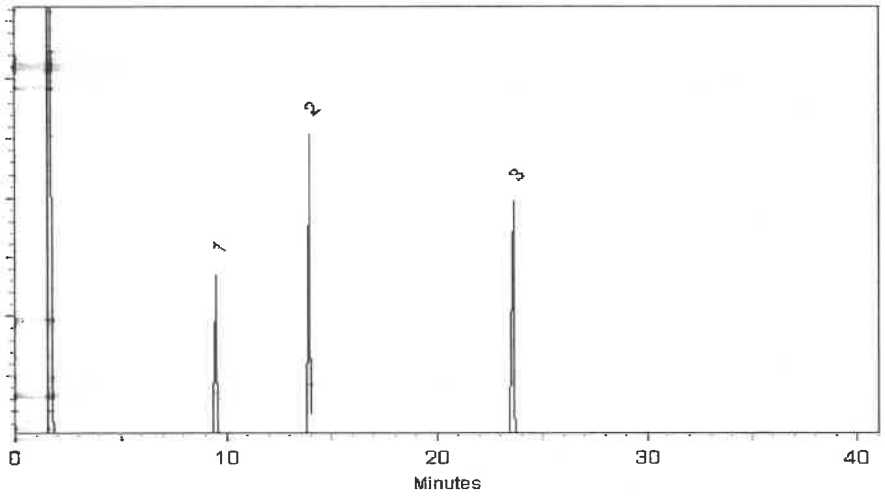
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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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

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Received by CG on 12/28/22
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

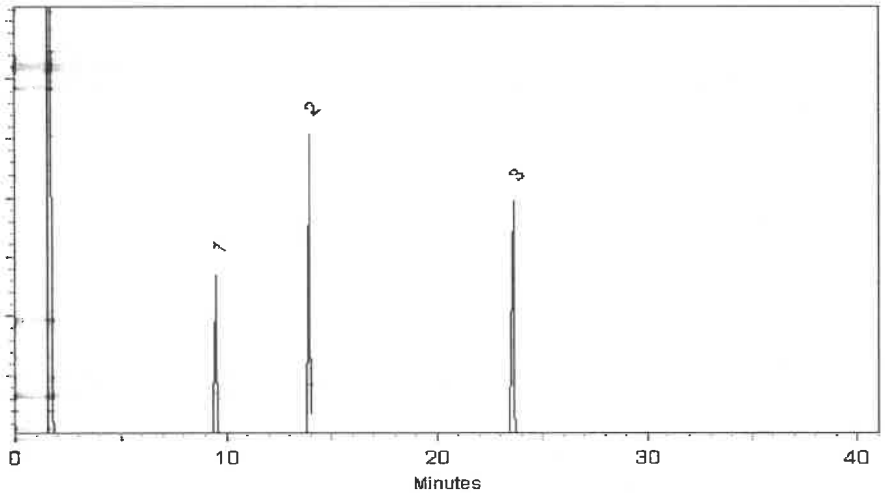
Carrier Gas:
hydrogen-constant pressure 10 psi.

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



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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

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Received by CG on 12/28/22
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

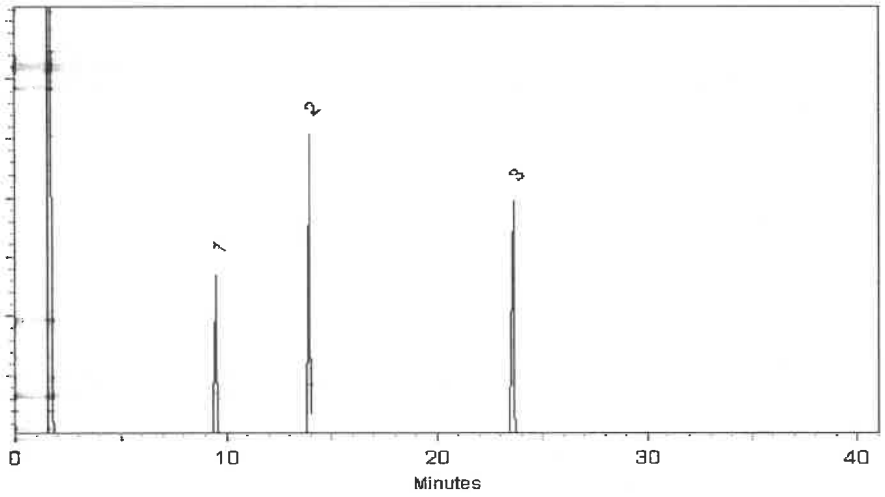
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
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.

Received by CG on 12/28/22
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

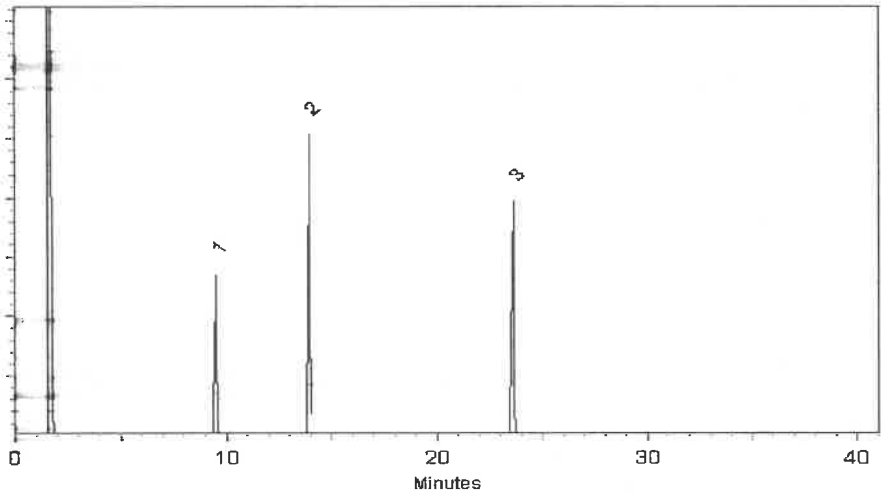
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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Received by CG on 12/28/22
$10981 to $11010

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 +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed 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)

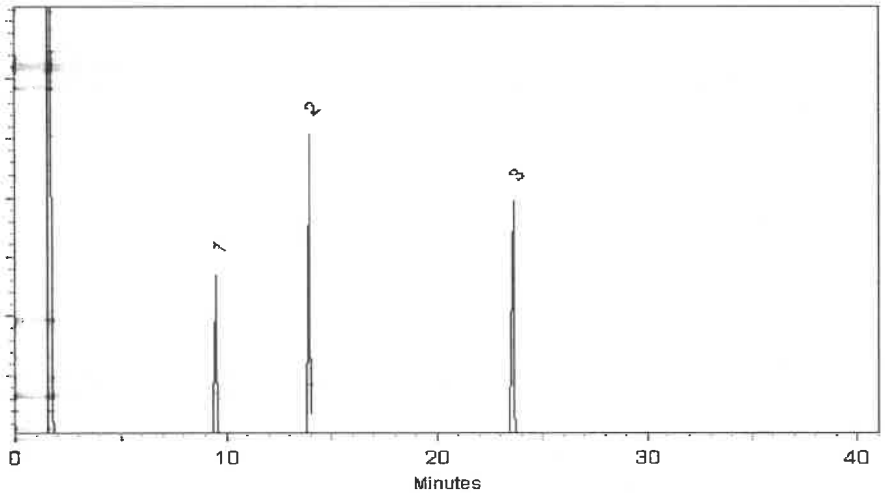
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

RESTEK
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. : 555870 **Lot No.:** A0194698

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol 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

CERTIFI

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	25,195.0 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 #FM 8

tified 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.

lues 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage 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 inimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily T 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 n, 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 dards 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, ides complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
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. : 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 #FM

tified 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.

lues 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage 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 ı, 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.

ssolved 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	<= 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

James T Ethier
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 QUIMICOS 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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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.

RG-02-01, Ed. 3

Recd. by RI on 7/24/23 E3551

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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

E3827

Recd by RP on ~~11/6~~ 11/7/24
RP 11/7

JCroak
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)

avantor™ | J.T.Baker

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)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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

JCroak

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

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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 12/13/24

E 3846

JCroak

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

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

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)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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 3848

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087,U.S.A.Phone 610.386.1700

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

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)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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

CPI INTERNATIONAL

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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	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 to 511498 } Y.P. 08/11/2023

*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 gravimetricly.

CPI INTERNATIONAL

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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	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 to 511498 } Y.P. 08/11/2023

*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 gravimetricly.

RESTEK
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 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 ↓ 511658 Y.P. 11/13/23

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

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

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.)

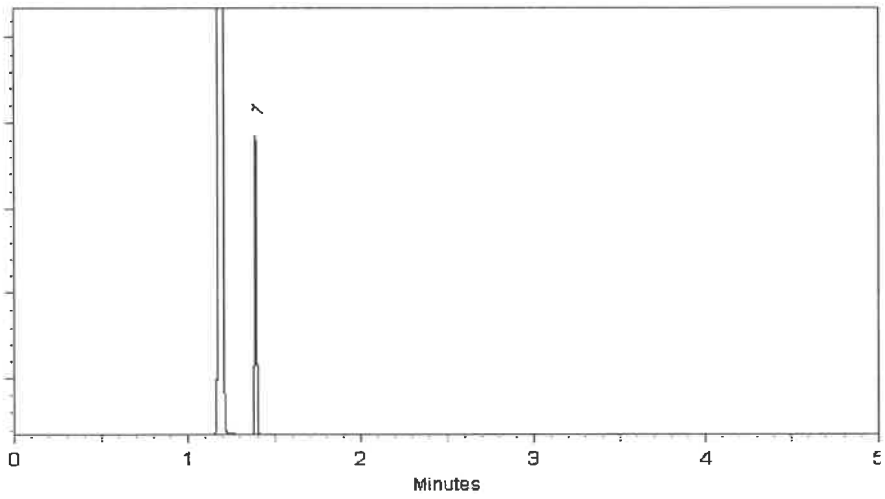
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

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Purity Notes:

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- 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:

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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:

- 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. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

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

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.)

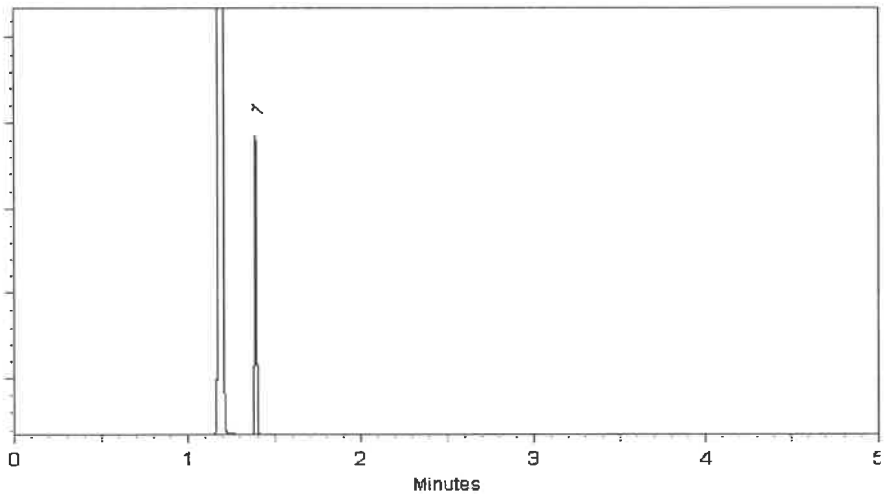
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

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Manufacturing Notes:

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Catalog No. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

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

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.)

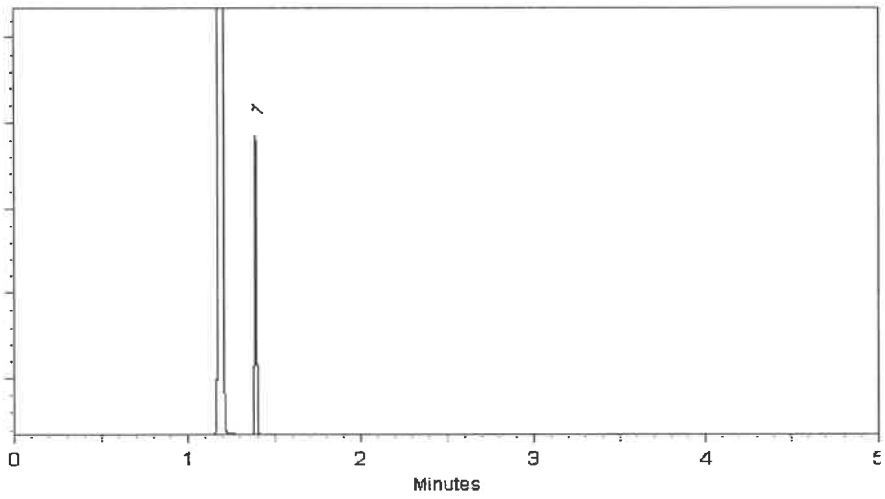
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

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Purity Notes:

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Catalog No. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

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

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.)

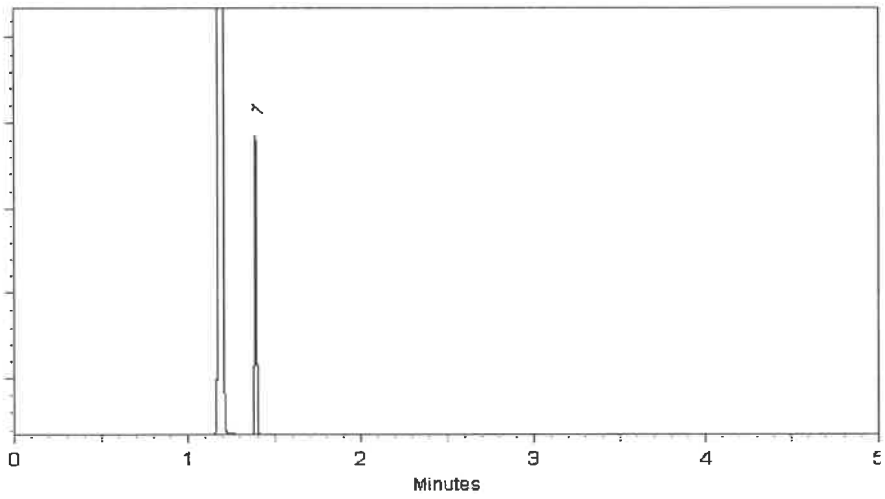
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

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Catalog No. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

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

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.)

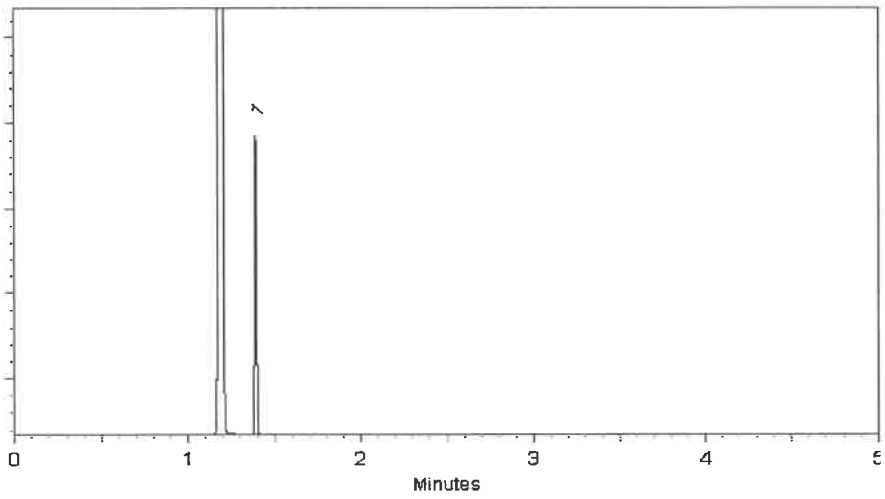
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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

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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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

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

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.)

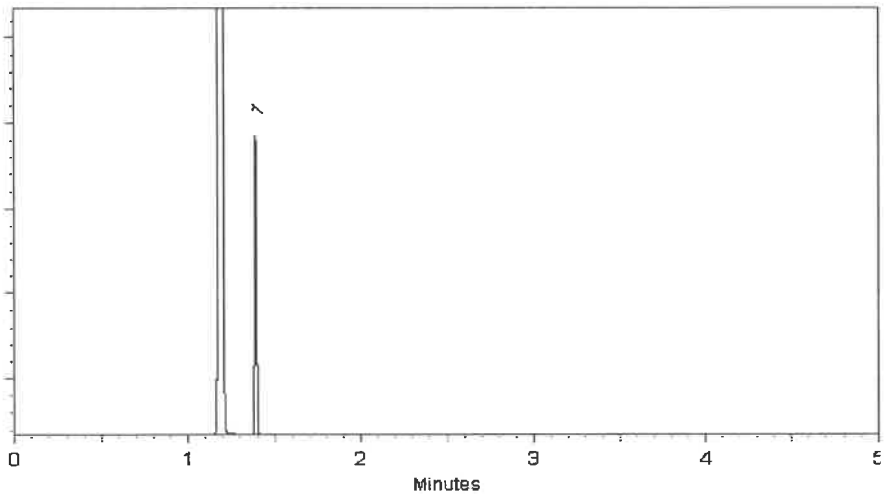
Inj. Temp:
250°C

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 - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.

CPI INTERNATIONAL

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

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

S12075
↓
S12079
RC
02/01/24

*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 gravimetricly.

CPI INTERNATIONAL

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Santa Rosa, CA 95403

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Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

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

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

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 gravimetricly.

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Date Received:_____

Certificate of Analysis

Rev 0

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

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

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 gravimetricly.

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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

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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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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

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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%

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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%

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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%

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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%

RESTEK
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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%

RESTEK
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

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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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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

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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

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CAS # 75-09-2
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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

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

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	BCCK0887	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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ACCREDITED 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.:** 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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

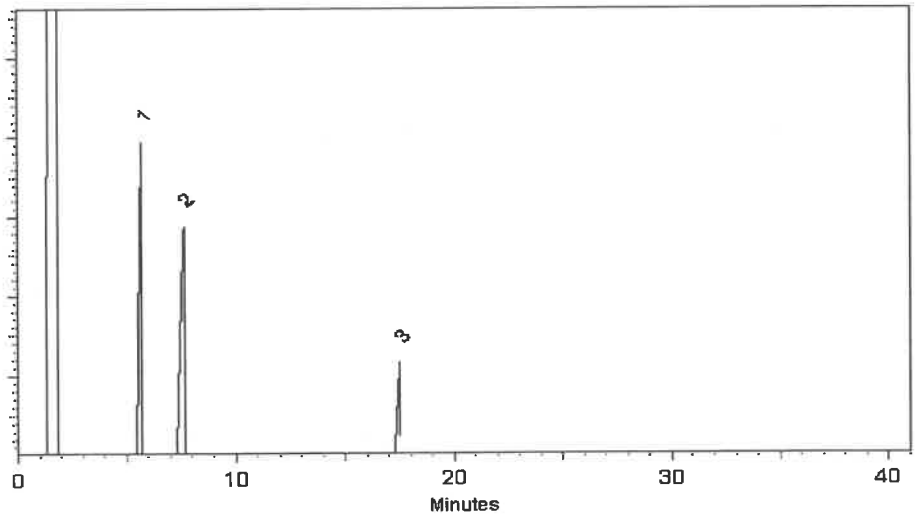
Inj. Temp:
250°C

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 Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

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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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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

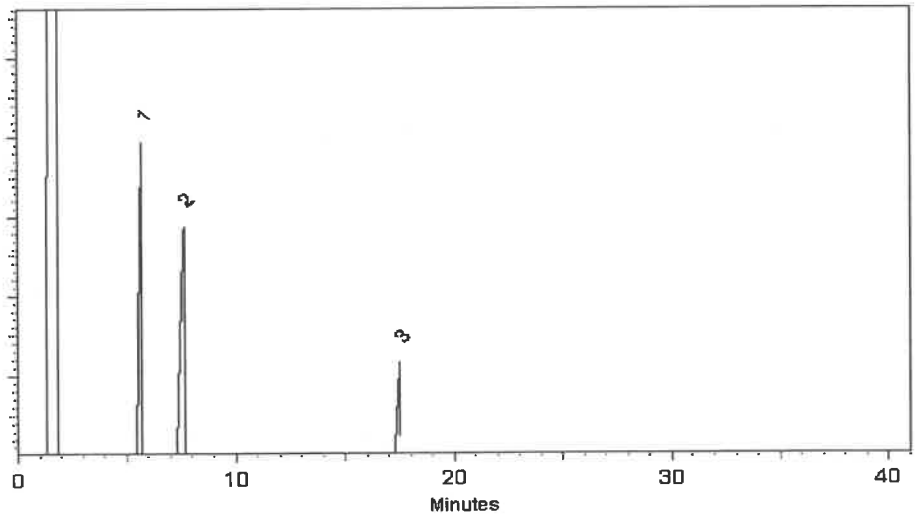
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

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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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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

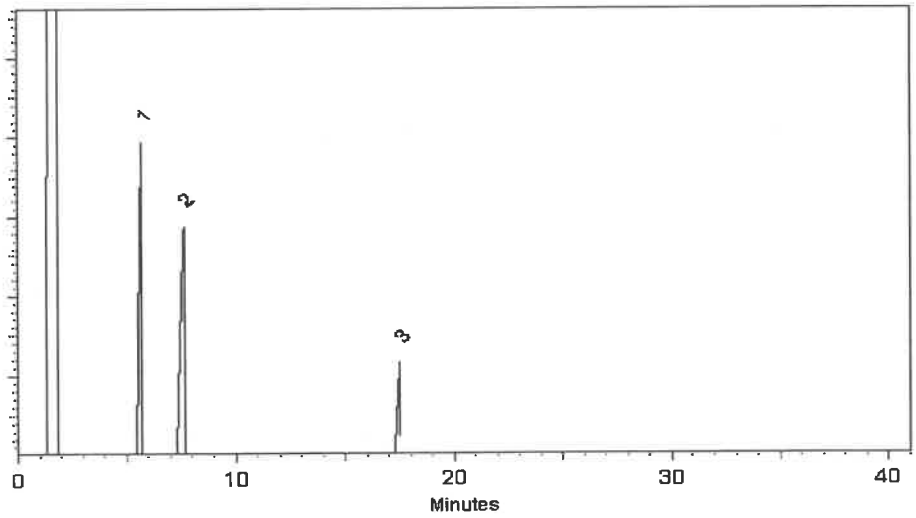
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

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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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

S12207 ↓ S12221 RC/ 03/18/24

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

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-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.)

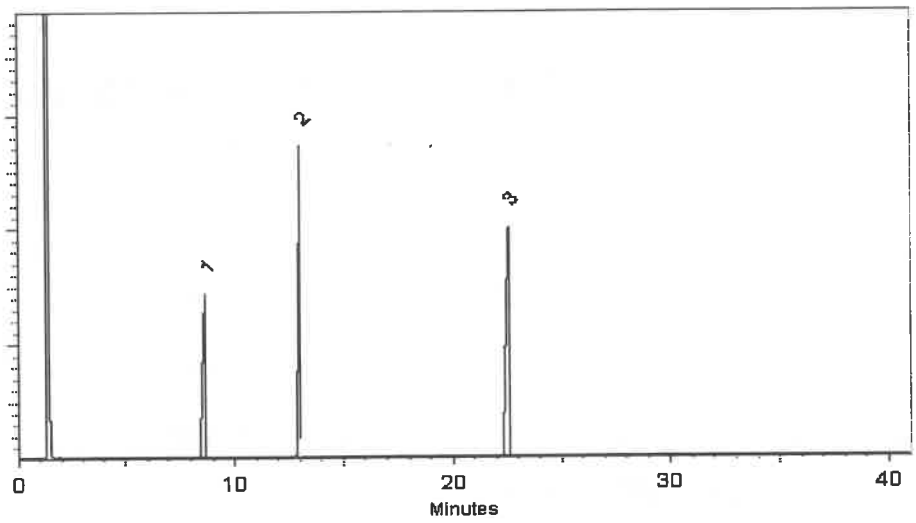
Inj. Temp:
250°C

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.

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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ACCREDITED 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. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

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

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-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.)

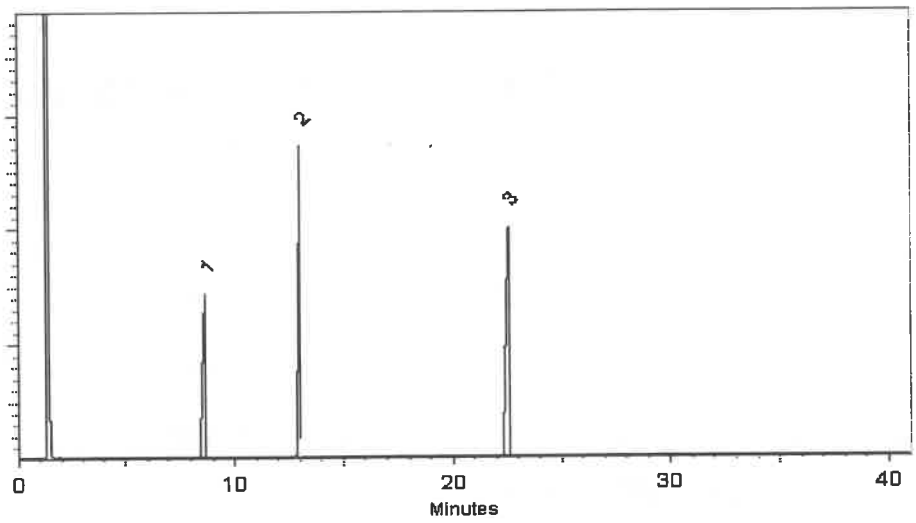
Inj. Temp:
250°C

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.

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

CPI INTERNATIONAL

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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °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 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
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 gravimetricly.

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Santa Rosa, CA 95403

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(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

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °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 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
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 gravimetricly.

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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S12312 ↓ S12331 } RC/ 05/30/24

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

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.)

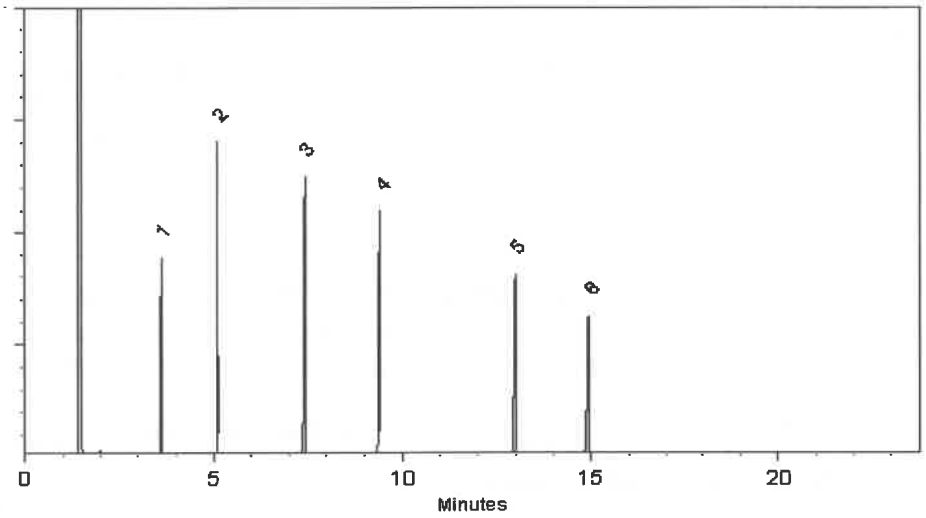
Inj. Temp:
250°C

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 - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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 ↓ S12508 RC 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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Solvent: Methylene chloride
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Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

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CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

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S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

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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 ↓ S12508 RC 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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. : 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)
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Rebecca Gingerich - Operations Tech II

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Description : Custom 8270 Plus Standard #1

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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

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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)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 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

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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 ↓ S12568 } RC/ 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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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)
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

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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 ↓ S12568 } RC/ 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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- 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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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Certificate of Analysis

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

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S12509 ↓ S12568 } RC/ 7/24/24

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Description : Custom 8270 Plus Standard #2

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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)
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S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

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Purity 99%

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Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

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Certificate of Analysis

chromatographic plus

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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
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

CPI INTERNATIONAL

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

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

S12280 ↓ S12284 RC/ 05/24/24

New numbers Generated.

S12790 ↓ S12794 RC/ 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 gravimetricly.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q1069

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: SEE CONTRACT PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: Carbon IDW	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Dave Brayack	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: david.brayack@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4909 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX:_____10_____ DAYS*
HARD COPY:_____10_____DAYS*
EDD_____10_____DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ❑ RESEULTS ONLY
- ❑ RESULTS + QC
- ❑ New Jersey REDUCED
- ❑ New Jersey CLP
- ❑ USEPA CLP
- ❑ New York State ASP "B"
- ❑ New York State ASP "A"
- ❑ Other_____
- ❑ EDD Format_____

ANALYSIS

1	2	3	4	5	6	7	8	9
TCL SVOC (total)	Flash point	TCLP VOC	TCLP Metals (RCRA 8)	PCB	pH			

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	RW7B-Carbon-20250109	Granular Activated Carbon		X	1/9/25	14:00	6	1	1	1	1	1	1				<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	1/9/25 1530	1. 1-9-25 1530
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	1-9-25 1615	3.

Conditions of bottles or coolers at receipt: ❑ Compliant ❑ Non Compliant ❑ Cooler Temp 2.5°C
MeOH extraction requires an additional 4oz. Jar for percent solid ❑ Ice in Cooler?:_____
Comments: 5 Day TAT - CTO-WE13 RW7B Carbon Sampling

Page 1 of 1

SHIPPED VIA: CLIENT: ❑ Hand Delivered ❑ Overnight
CHEMTECH: ❑ Picked Up ❑ Overnight

Shipment Complete ❑ YES ❑ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

CHEMTECH 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

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141117.D
Acq On : 10 Jan 2025 16:53
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Jan 10 22:22:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	163037	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	625072	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	333513	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	593257	20.000	ng		0.00
76) Chrysene-d12	13.998	240	341879	20.000	ng		0.01
86) Perylene-d12	15.468	264	333662	20.000	ng		0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	1007728	95.484	ng		0.00
7) Phenol-d6	6.445	99	1279370	95.699	ng		0.00
23) Nitrobenzene-d5	7.386	82	1156878	98.108	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	383942	101.033	ng		0.00
45) 2-Fluorobiphenyl	9.180	172	2040487	93.427	ng		0.00
79) Terphenyl-d14	12.939	244	2188278	95.134	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.546	88	233484	49.679	ng		98
3) Pyridine	3.287	79	555795	48.225	ng		98
4) n-Nitrosodimethylamine	3.240	42	280365	49.752	ng		98
6) Aniline	6.487	93	564714	47.577	ng		99
8) 2-Chlorophenol	6.604	128	545244	48.153	ng		99
9) Benzaldehyde	6.369	77	318659	42.669	ng		100
10) Phenol	6.463	94	678615	47.420	ng		98
11) bis(2-Chloroethyl)ether	6.557	93	521191	48.869	ng		98
12) 1,3-Dichlorobenzene	6.763	146	613813	48.605	ng		99
13) 1,4-Dichlorobenzene	6.839	146	609332	47.881	ng		99
14) 1,2-Dichlorobenzene	6.992	146	565717	47.656	ng		99
15) Benzyl Alcohol	6.963	79	474583	49.156	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.098	45	711735	47.824	ng		100
17) 2-Methylphenol	7.069	107	444678	48.644	ng		100
18) Hexachloroethane	7.334	117	224751	48.837	ng		98
19) n-Nitroso-di-n-propyla...	7.239	70	373068	47.373	ng		98
20) 3+4-Methylphenols	7.228	107	546998	47.429	ng	#	85
22) Acetophenone	7.234	105	711333	47.871	ng		98
24) Nitrobenzene	7.404	77	599817	48.807	ng		99
25) Isophorone	7.645	82	982492	48.754	ng		99
26) 2-Nitrophenol	7.722	139	287436	51.416	ng		99
27) 2,4-Dimethylphenol	7.751	122	374236	49.629	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	614567	48.594	ng		99
29) 2,4-Dichlorophenol	7.957	162	447208	49.935	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	495397	48.394	ng		99
31) Naphthalene	8.128	128	1598576	48.495	ng		100
32) Benzoic acid	7.869	122	391608	54.138	ng		98
33) 4-Chloroaniline	8.175	127	544930	47.801	ng		99
34) Hexachlorobutadiene	8.245	225	302873	49.102	ng		99
35) Caprolactam	8.545	113	148641	50.598	ng		94
36) 4-Chloro-3-methylphenol	8.651	107	488345	49.859	ng		99
37) 2-Methylnaphthalene	8.816	142	1021264	48.619	ng		98
38) 1-Methylnaphthalene	8.916	142	992651	47.950	ng		99
40) 1,2,4,5-Tetrachloroben...	8.980	216	460261	48.082	ng		99
41) Hexachlorocyclopentadiene	8.969	237	157828	50.395	ng		99
43) 2,4,6-Trichlorophenol	9.092	196	318276	49.299	ng		99

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	342288	50.201	ng		98
46) 1,1'-Biphenyl	9.286	154	1243305	48.003	ng		99
47) 2-Chloronaphthalene	9.310	162	979002	48.530	ng		99
48) 2-Nitroaniline	9.398	65	304048	50.844	ng		96
49) Acenaphthylene	9.722	152	1398990	48.539	ng		100
50) Dimethylphthalate	9.586	163	1098805	49.076	ng		100
51) 2,6-Dinitrotoluene	9.645	165	262596	50.434	ng		96
52) Acenaphthene	9.898	154	988008	49.066	ng		99
53) 3-Nitroaniline	9.810	138	266881	50.440	ng		97
54) 2,4-Dinitrophenol	9.916	184	139903	56.530	ng	#	86
55) Dibenzofuran	10.069	168	1321844	48.261	ng		100
56) 4-Nitrophenol	9.963	139	220382	53.183	ng		95
57) 2,4-Dinitrotoluene	10.045	165	353808	52.728	ng		97
58) Fluorene	10.410	166	1011650	47.543	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	277818	49.019	ng		98
60) Diethylphthalate	10.286	149	1074789	49.171	ng		100
61) 4-Chlorophenyl-phenyle...	10.404	204	494329	47.665	ng		97
62) 4-Nitroaniline	10.427	138	269415	52.024	ng		98
63) Azobenzene	10.563	77	1054277	48.881	ng		99
65) 4,6-Dinitro-2-methylph...	10.457	198	192136	55.890	ng		95
66) n-Nitrosodiphenylamine	10.522	169	894530	46.748	ng		99
67) 4-Bromophenyl-phenylether	10.892	248	326554	47.810	ng		99
68) Hexachlorobenzene	10.957	284	361542	47.551	ng		99
69) Atrazine	11.051	200	272232	52.837	ng		99
70) Pentachlorophenol	11.145	266	250381	51.422	ng		99
71) Phenanthrene	11.374	178	1503408	47.203	ng		99
72) Anthracene	11.422	178	1473797	47.589	ng		100
73) Carbazole	11.580	167	1386206	48.815	ng		100
74) Di-n-butylphthalate	11.916	149	1600680	49.255	ng		100
75) Fluoranthene	12.563	202	1558556	49.037	ng		99
77) Benzidine	12.680	184	290459	45.814	ng		99
78) Pyrene	12.792	202	1571607	48.129	ng		99
80) Butylbenzylphthalate	13.416	149	578964	53.179	ng		98
81) Benzo(a)anthracene	13.986	228	1136119	48.830	ng		100
82) 3,3'-Dichlorobenzidine	13.951	252	364178	49.156	ng		99
83) Chrysene	14.021	228	1057551	48.577	ng		99
84) Bis(2-ethylhexyl)phtha...	13.980	149	700052	53.591	ng		99
85) Di-n-octyl phthalate	14.610	149	1055383	53.503	ng		100
87) Indeno(1,2,3-cd)pyrene	16.933	276	1185030	48.477	ng		99
88) Benzo(b)fluoranthene	15.045	252	1096957	50.984	ng		100
89) Benzo(k)fluoranthene	15.074	252	865456	47.598	ng		99
90) Benzo(a)pyrene	15.410	252	874134	49.243	ng		100
91) Dibenzo(a,h)anthracene	16.956	278	959595	48.535	ng		99
92) Benzo(g,h,i)perylene	17.380	276	996659	48.464	ng		99

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

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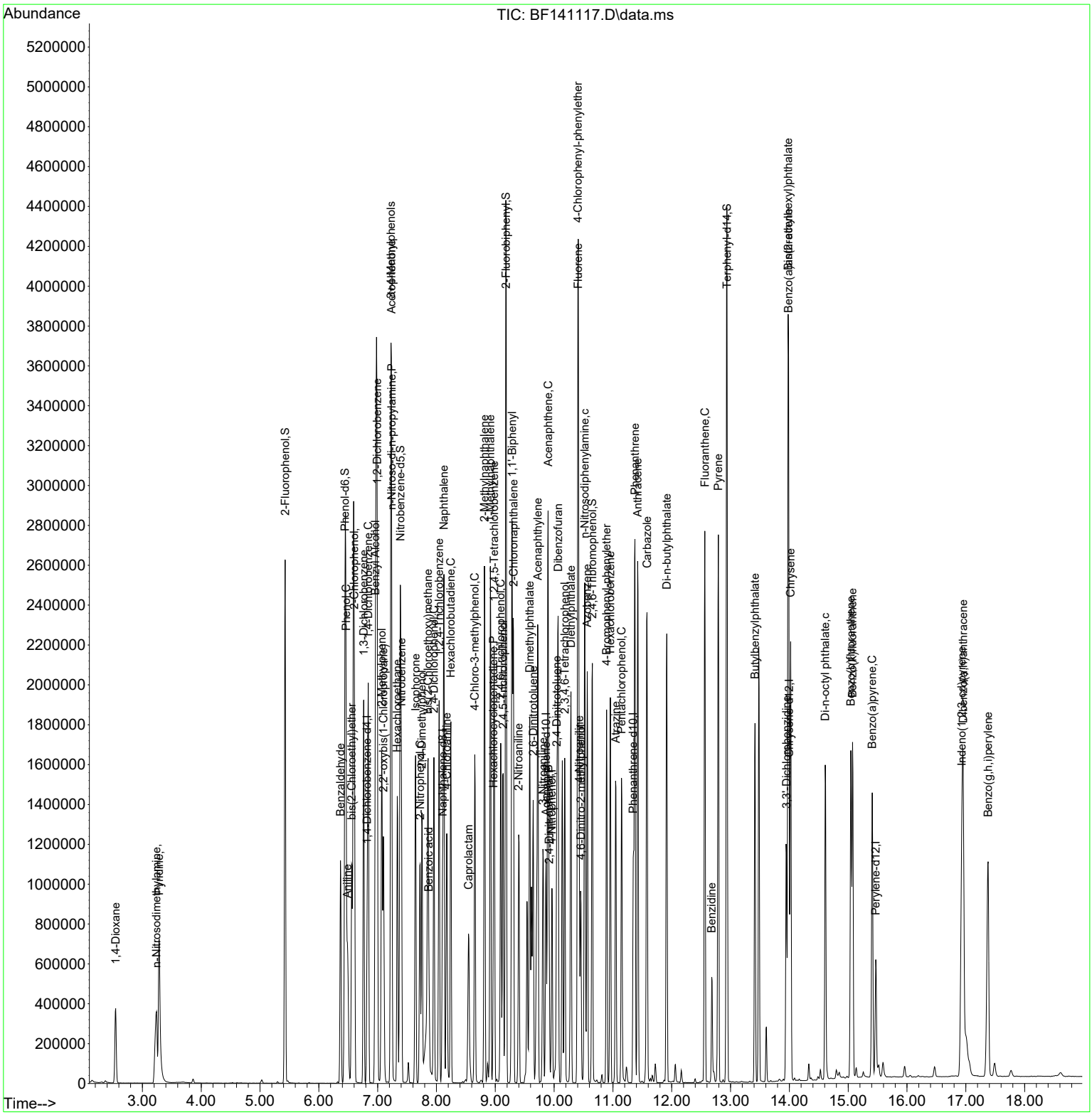
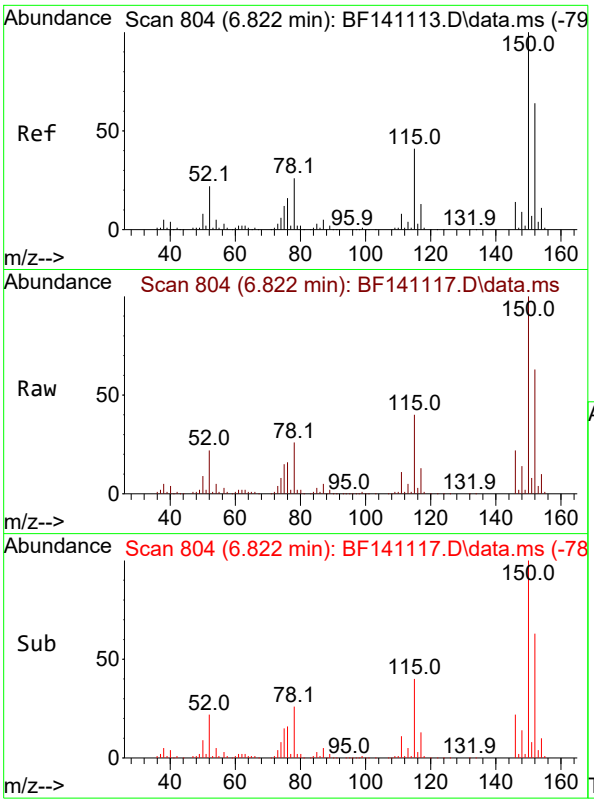
Response via : Initial Calibration



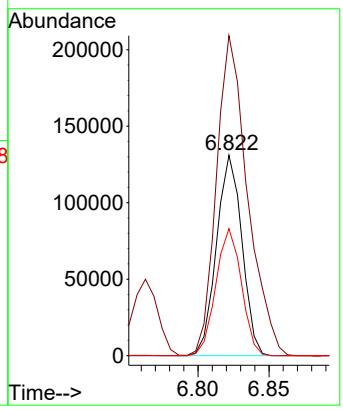


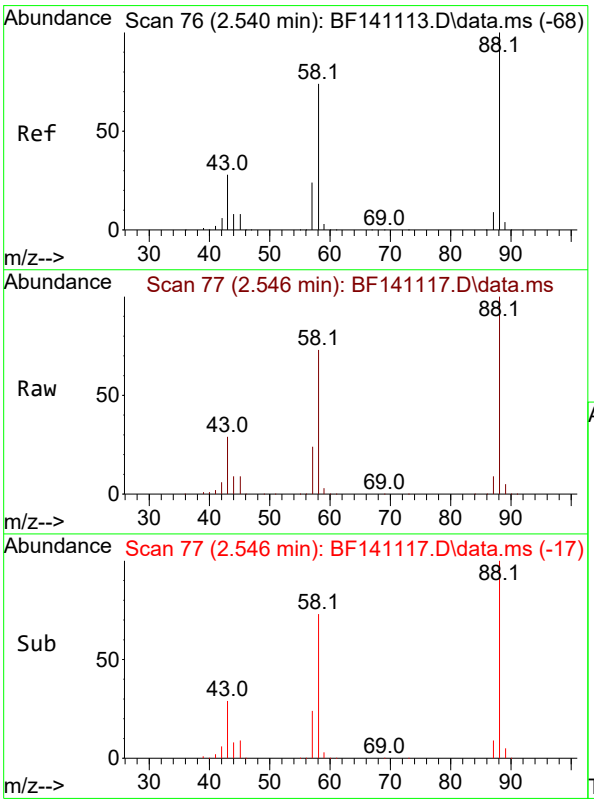
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 163037

Ion	Ratio	Lower	Upper
152	100		
150	159.6	125.8	188.8
115	63.4	51.4	77.2

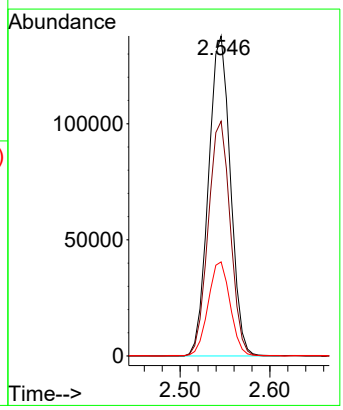


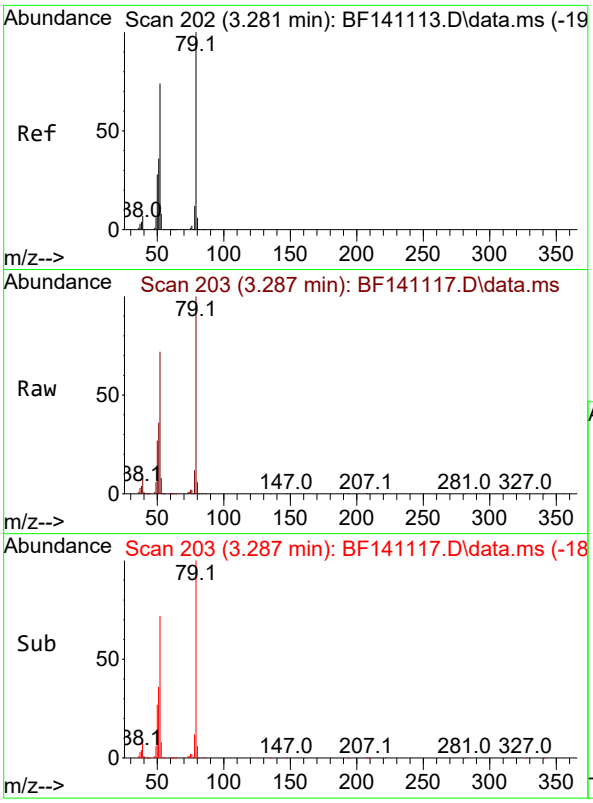


#2
1,4-Dioxane
Concen: 49.679 ng
RT: 2.546 min Scan# 77
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 88 Resp: 233484

Ion	Ratio	Lower	Upper
88	100		
58	73.8	60.1	90.1
43	29.7	23.1	34.7



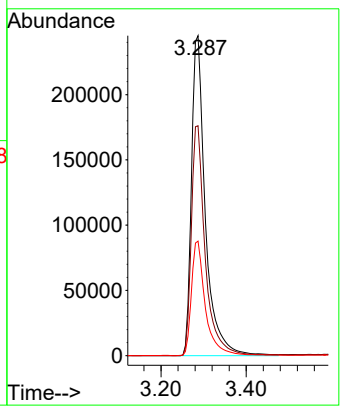


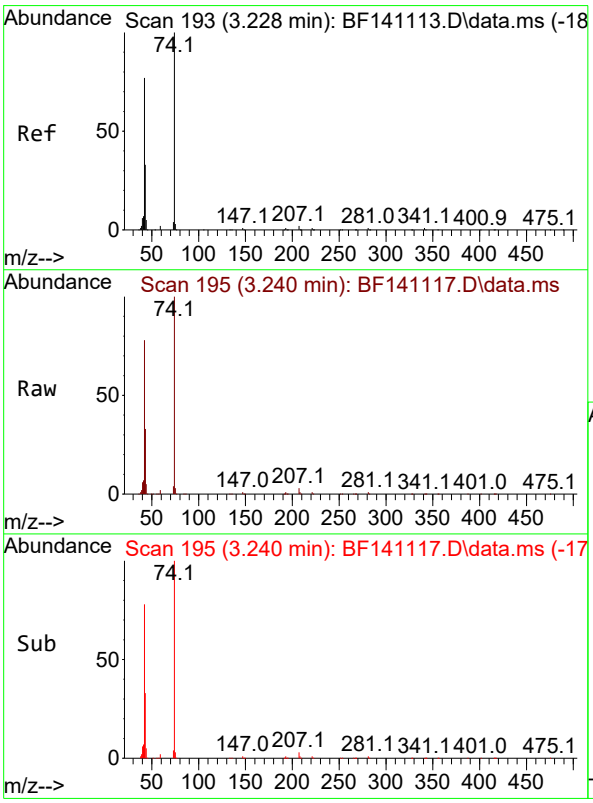
#3
Pyridine
Concen: 48.225 ng
RT: 3.287 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 555795

Ion	Ratio	Lower	Upper
79	100		
52	71.9	58.9	88.3
51	35.8	29.1	43.7

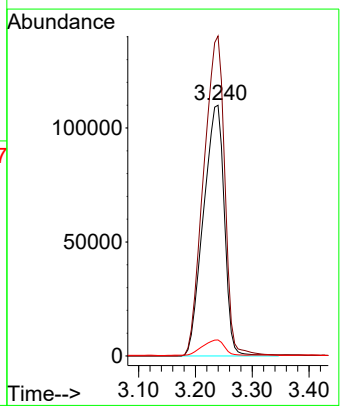


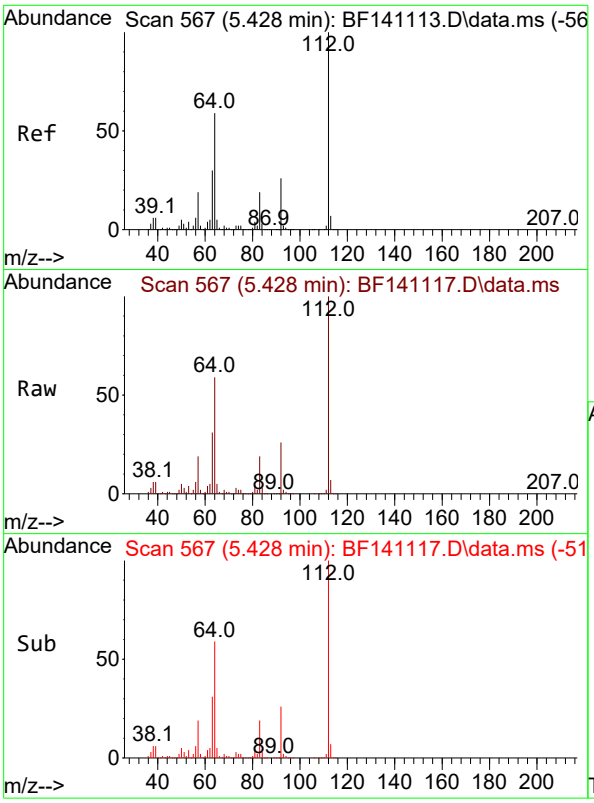


#4
n-Nitrosodimethylamine
Concen: 49.752 ng
RT: 3.240 min Scan# 195
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 42 Resp: 280365

Ion	Ratio	Lower	Upper
42	100		
74	127.7	103.8	155.6
44	6.4	5.3	7.9



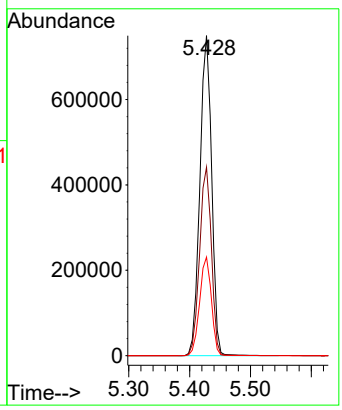


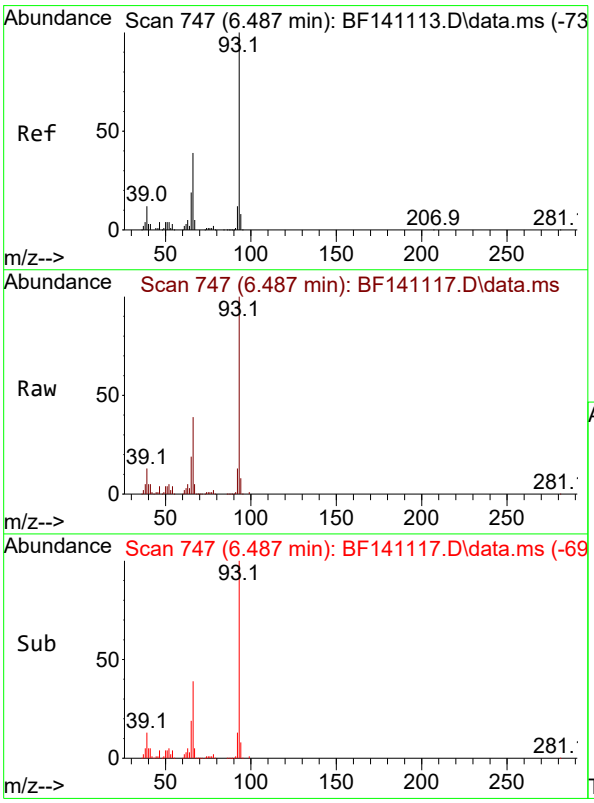
#5
2-Fluorophenol
Concen: 95.484 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 1007728

Ion	Ratio	Lower	Upper
112	100		
64	58.9	47.3	70.9
63	30.8	24.2	36.2

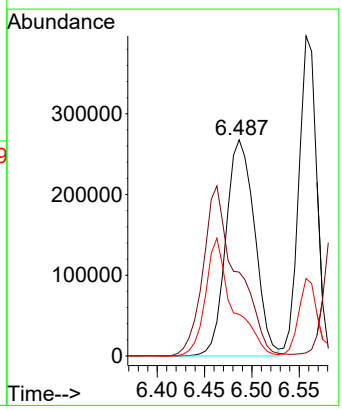


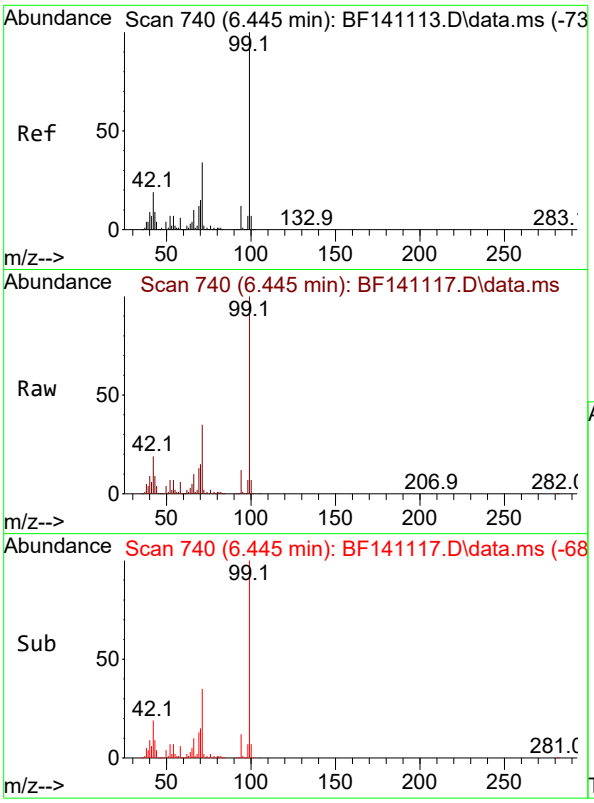


#6
Aniline
Concen: 47.577 ng
RT: 6.487 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 93 Resp: 564714

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.5	47.3
65	19.3	15.3	22.9



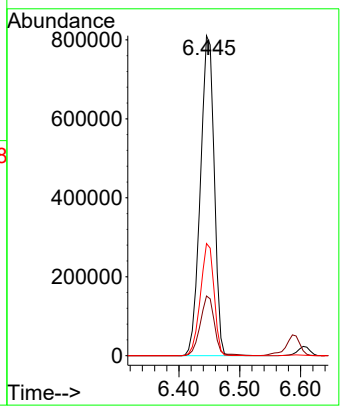


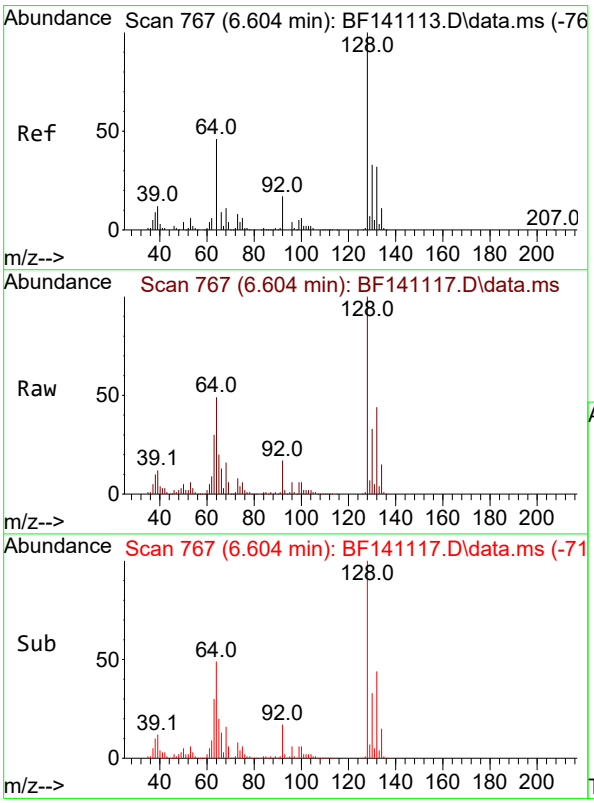
#7
Phenol-d6
Concen: 95.699 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 1279370

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.0	22.4
71	35.1	27.6	41.4

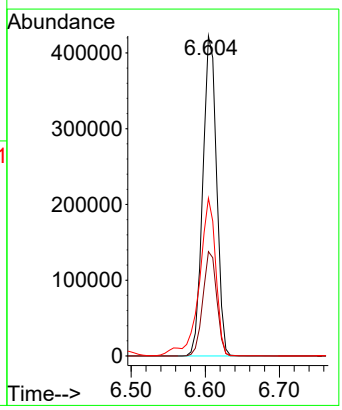


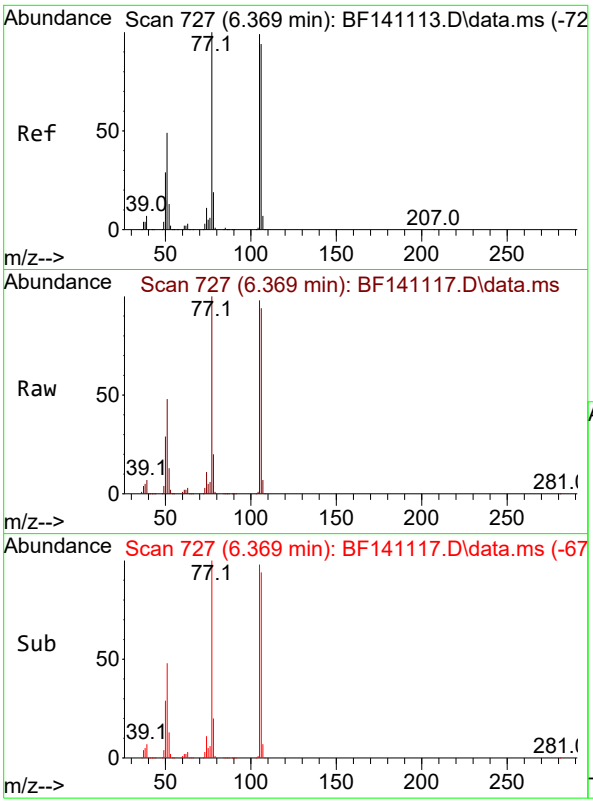


#8
2-Chlorophenol
Concen: 48.153 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:128 Resp: 545244

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.5	52.5
64	49.3	28.3	68.3



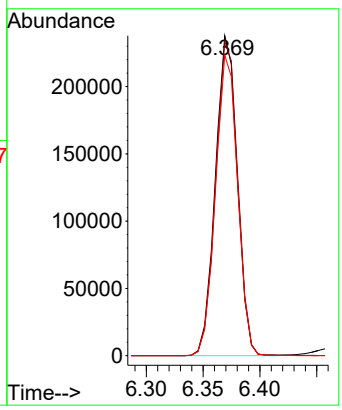


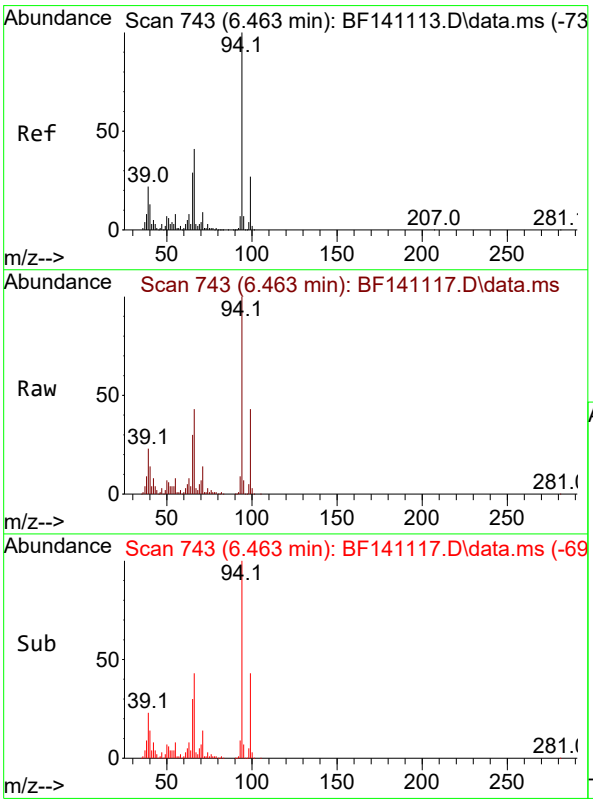
#9
Benzaldehyde
Concen: 42.669 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 318659

Ion	Ratio	Lower	Upper
77	100		
105	98.3	78.9	118.9
106	93.9	73.6	113.6

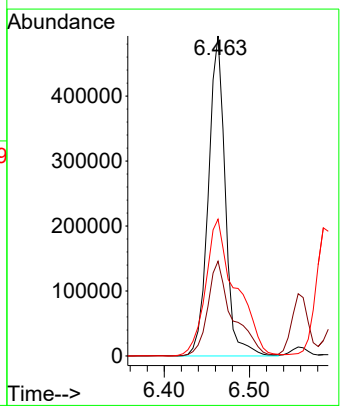


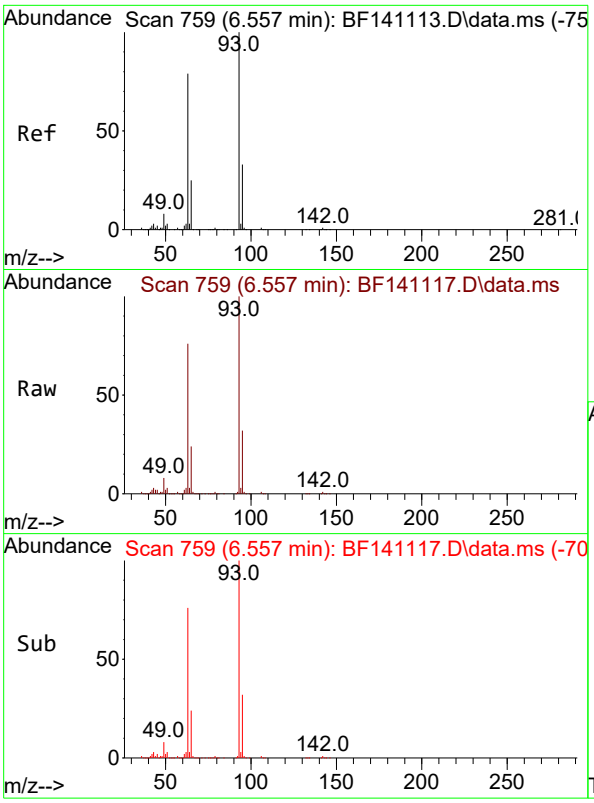


#10
Phenol
Concen: 47.420 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 94 Resp: 678615

Ion	Ratio	Lower	Upper
94	100		
65	29.6	8.9	48.9
66	42.8	21.2	61.2



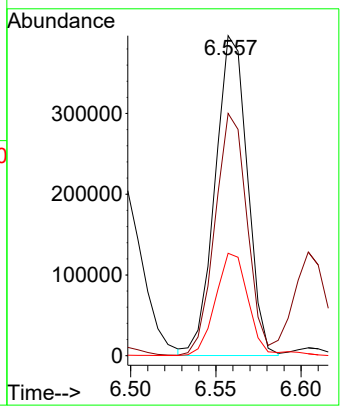


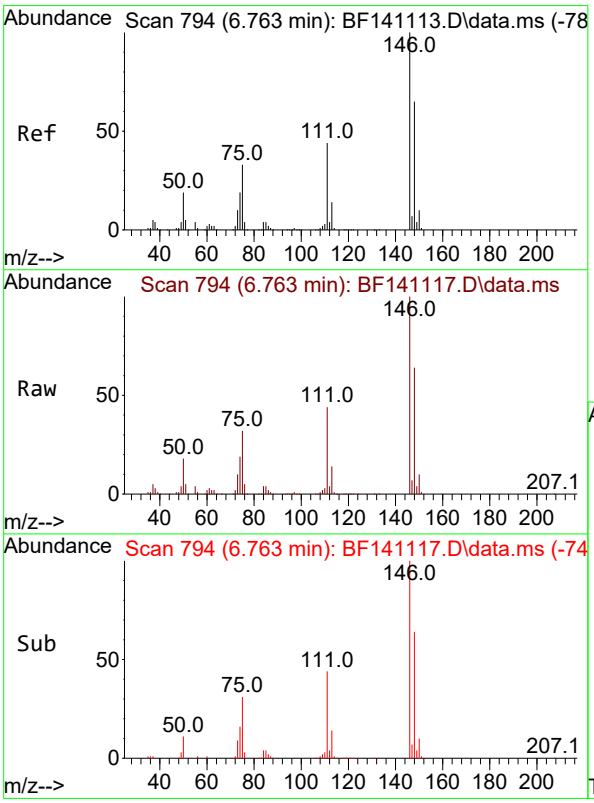
#11
bis(2-Chloroethyl)ether
Concen: 48.869 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 521191

Ion	Ratio	Lower	Upper
93	100		
63	75.7	58.0	98.0
95	32.0	12.5	52.5

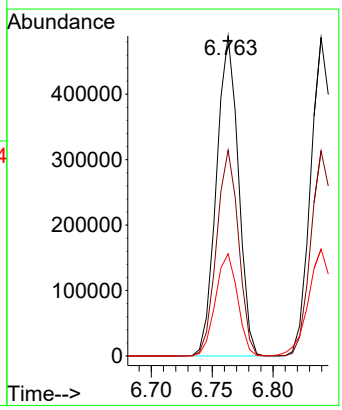


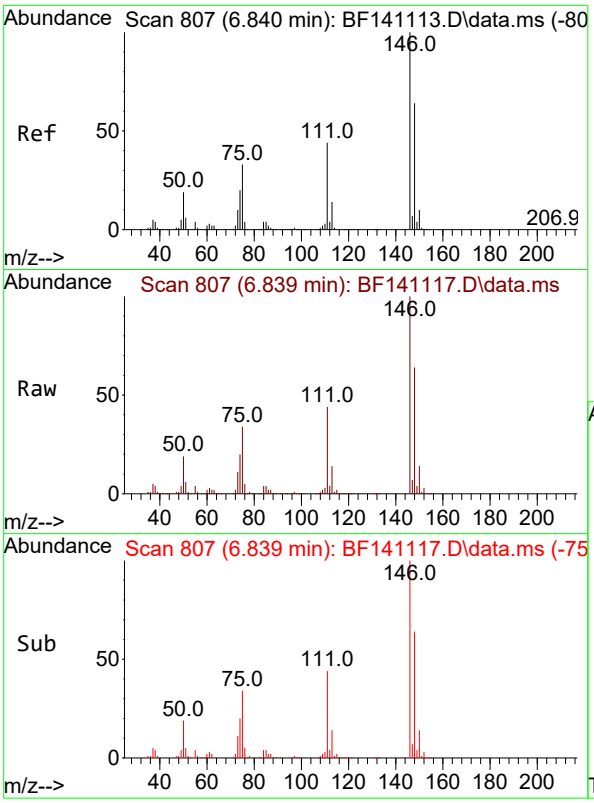


#12
1,3-Dichlorobenzene
Concen: 48.605 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:146 Resp: 613813

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.6	77.4
75	32.0	26.2	39.2



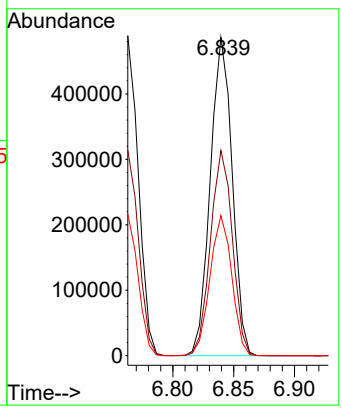


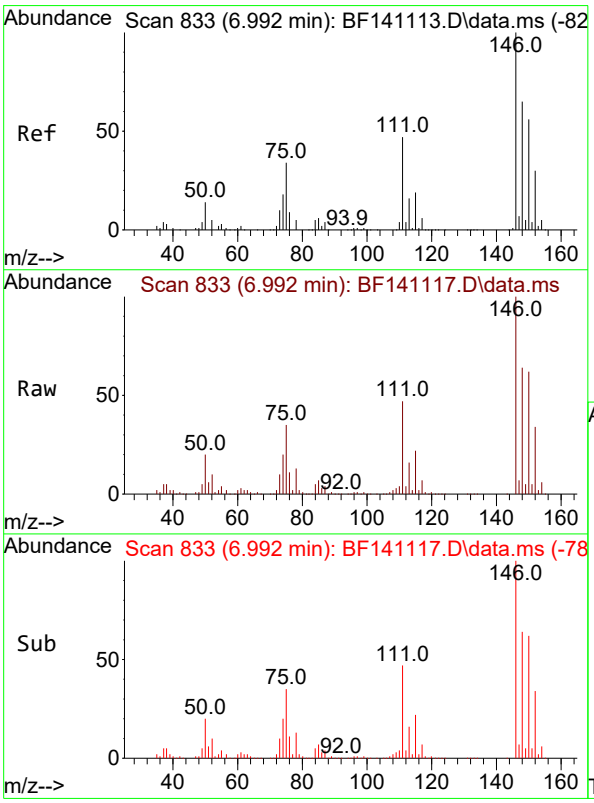
#13
1,4-Dichlorobenzene
Concen: 47.881 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 609332

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	44.0	34.9	52.3

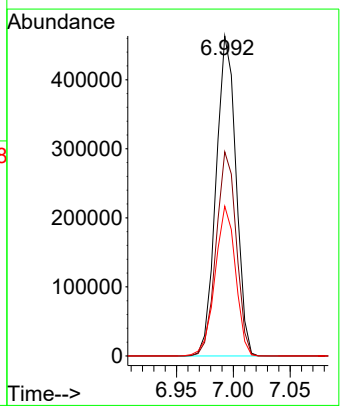


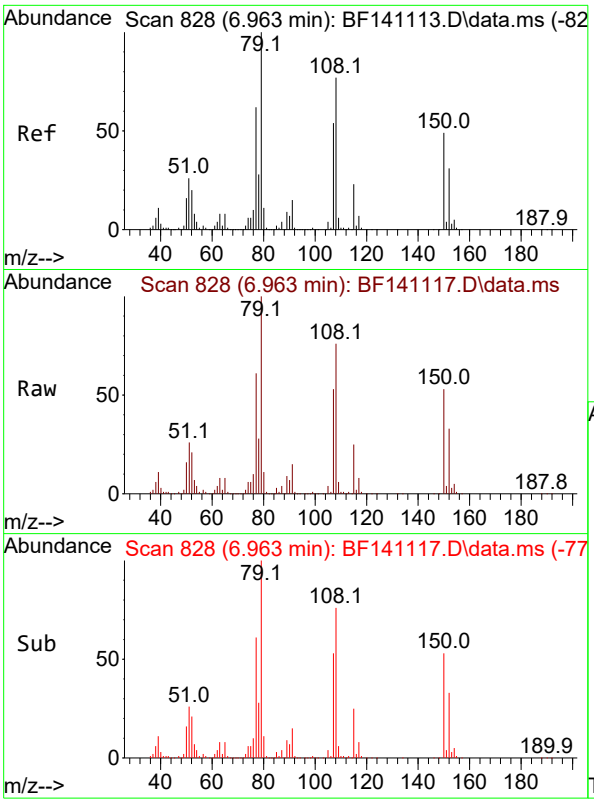


#14
1,2-Dichlorobenzene
Concen: 47.656 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:146 Resp: 565717

Ion	Ratio	Lower	Upper
146	100		
148	63.8	52.2	78.4
111	46.8	37.5	56.3



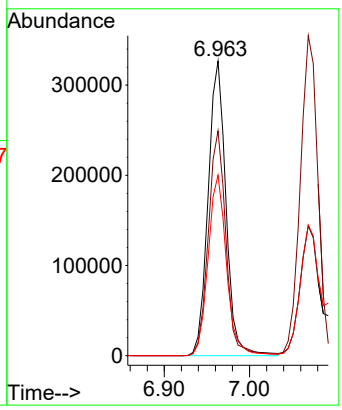


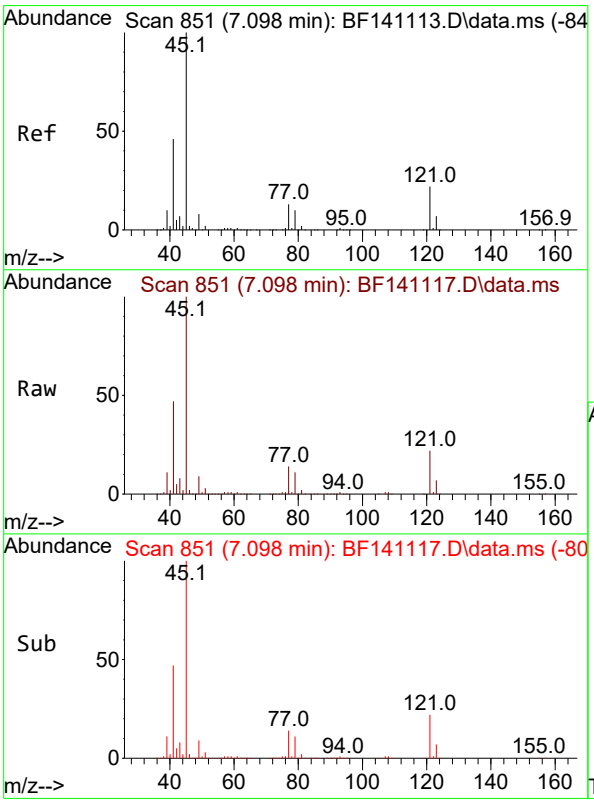
#15
Benzyl Alcohol
Concen: 49.156 ng
RT: 6.963 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 474583

Ion	Ratio	Lower	Upper
79	100		
108	76.3	61.4	92.0
77	61.3	49.8	74.6

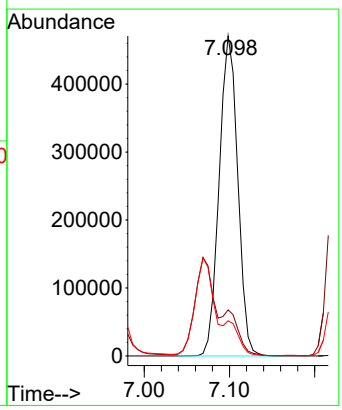


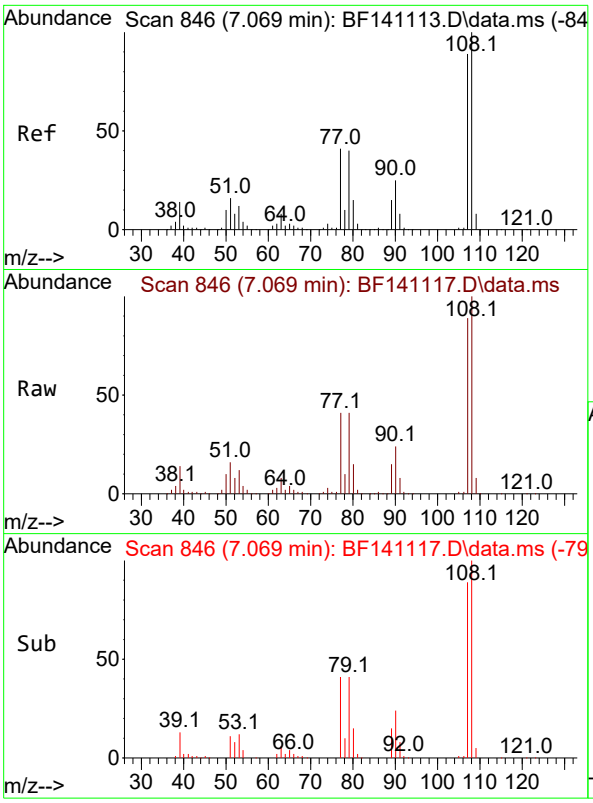


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.824 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 45 Resp: 711735

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.1
79	11.0	0.0	31.0



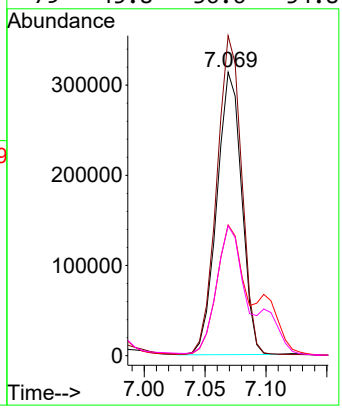


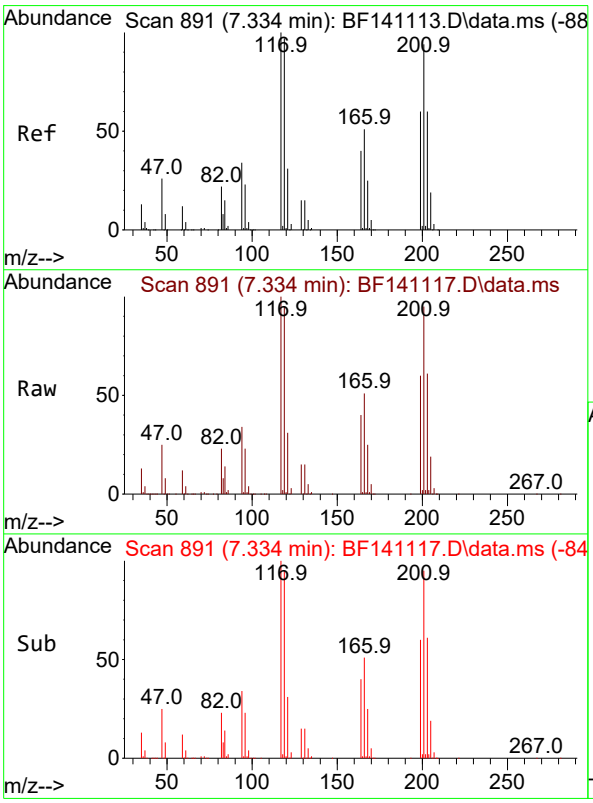
#17
2-Methylphenol
Concen: 48.644 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 444678

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.1	135.1
77	46.1	36.6	55.0
79	45.8	36.6	54.8

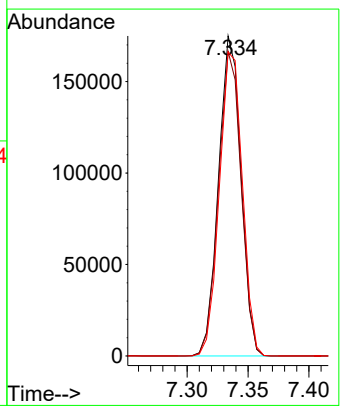


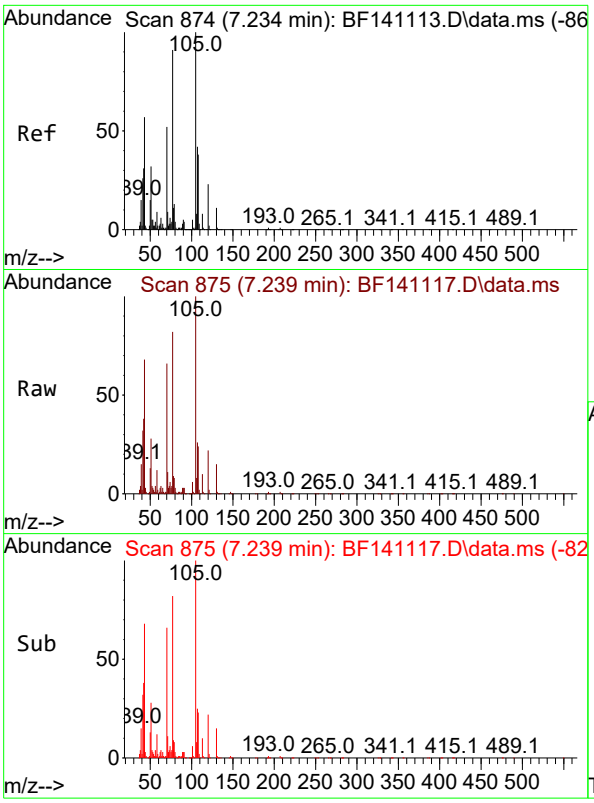


#18
Hexachloroethane
Concen: 48.837 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:117 Resp: 224751

Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.6	116.4
201	95.1	75.1	112.7



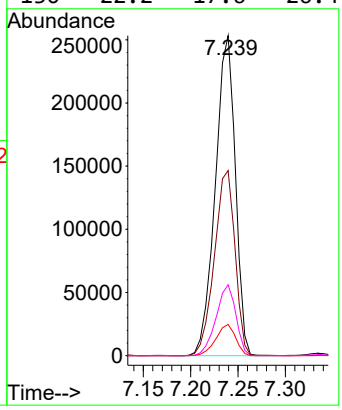


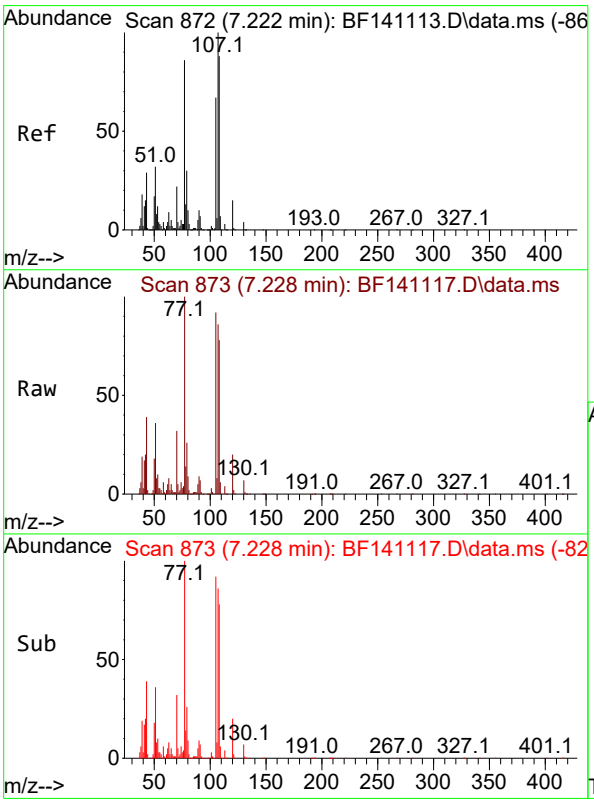
#19
n-Nitroso-di-n-propylamine
Concen: 47.373 ng
RT: 7.239 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 373068

Ion	Ratio	Lower	Upper
70	100		
42	57.9	47.8	71.6
101	9.7	7.9	11.9
130	22.2	17.6	26.4

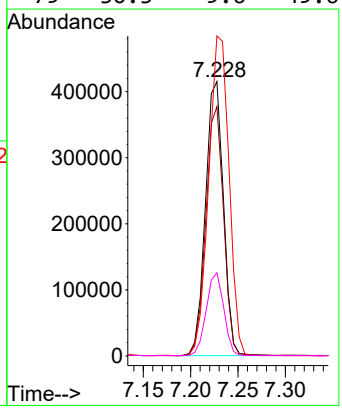


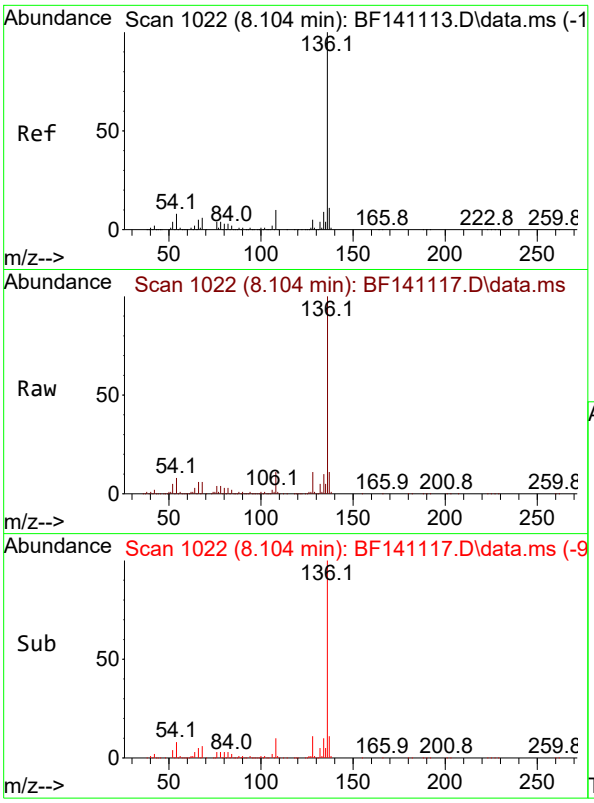


#20
3+4-Methylphenols
Concen: 47.429 ng
RT: 7.228 min Scan# 873
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:107 Resp: 546998

Ion	Ratio	Lower	Upper
107	100		
108	90.9	68.3	108.3
77	116.6	66.4	106.4#
79	30.3	9.6	49.6



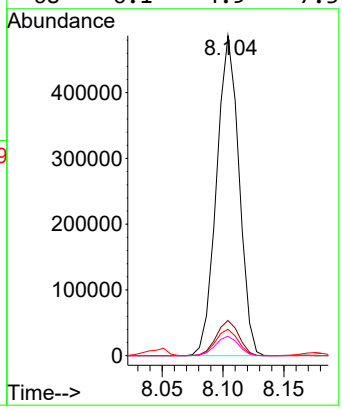


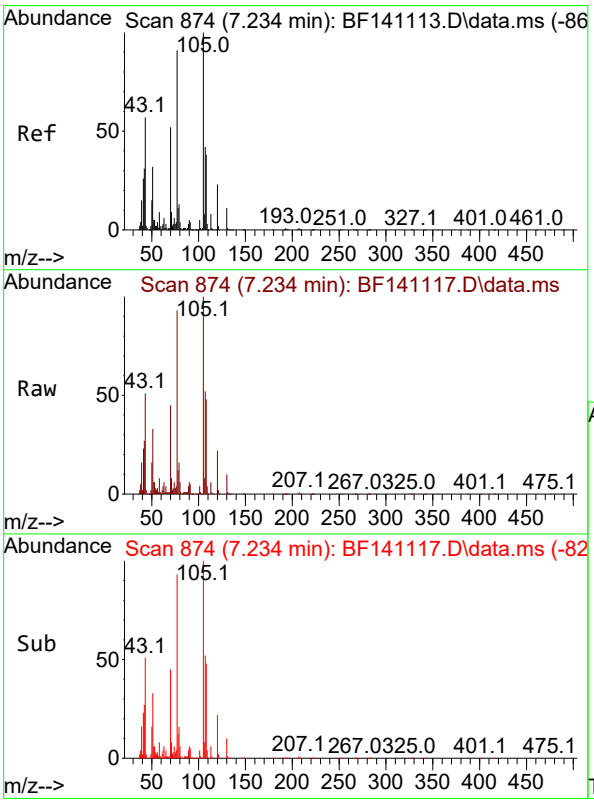
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 625072

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.3	6.3	9.5
68	6.1	4.9	7.3

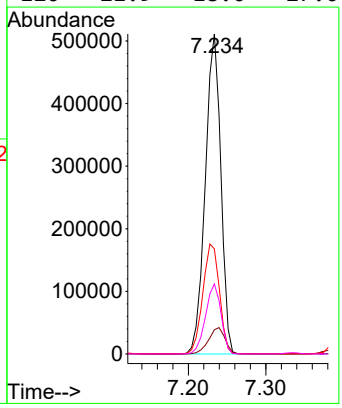


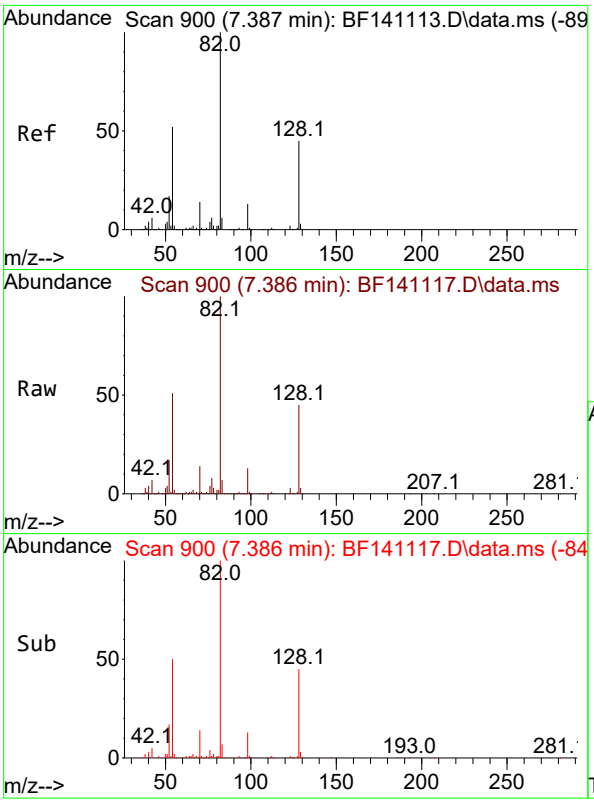


#22
Acetophenone
Concen: 47.871 ng
RT: 7.234 min Scan# 874
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:105 Resp: 711333

Ion	Ratio	Lower	Upper
105	100		
71	7.5	7.1	10.7
51	32.9	25.4	38.2
120	21.9	18.0	27.0



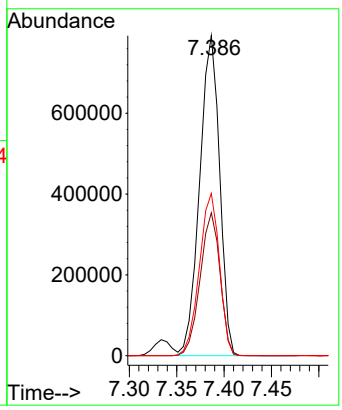


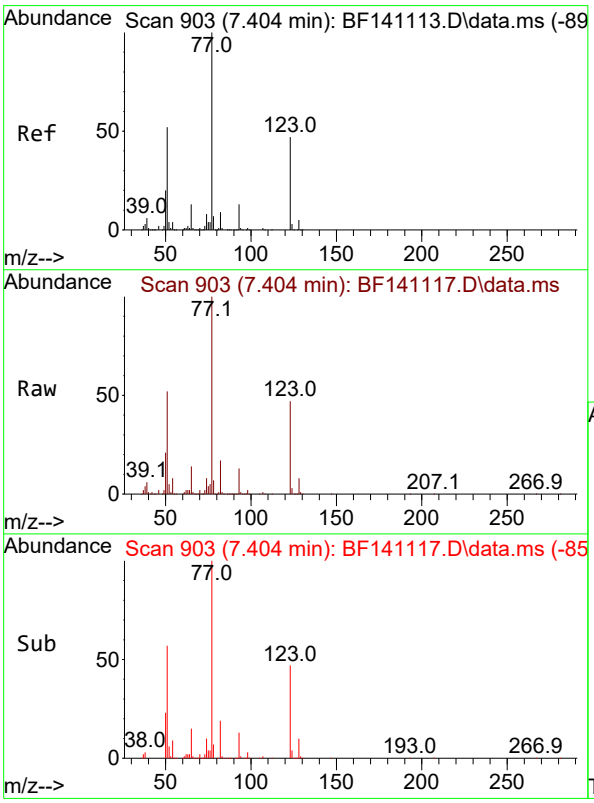
#23
Nitrobenzene-d5
Concen: 98.108 ng
RT: 7.386 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1156878

Ion	Ratio	Lower	Upper
82	100		
128	44.6	36.1	54.1
54	50.7	41.0	61.4

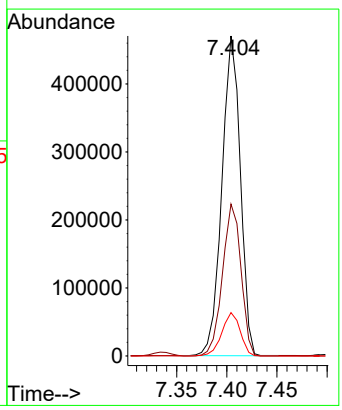


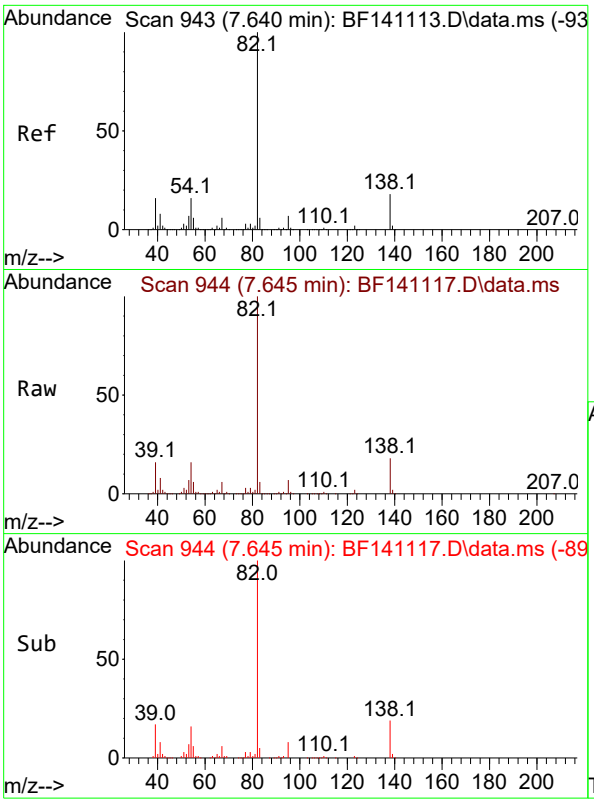


#24
Nitrobenzene
Concen: 48.807 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 77 Resp: 599817

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.7	56.5
65	13.6	10.6	16.0



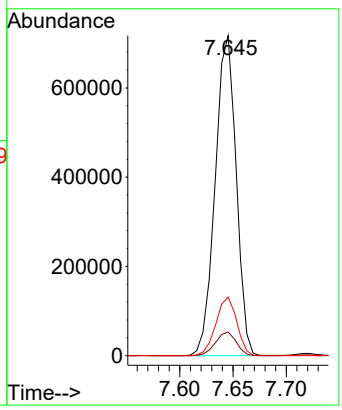


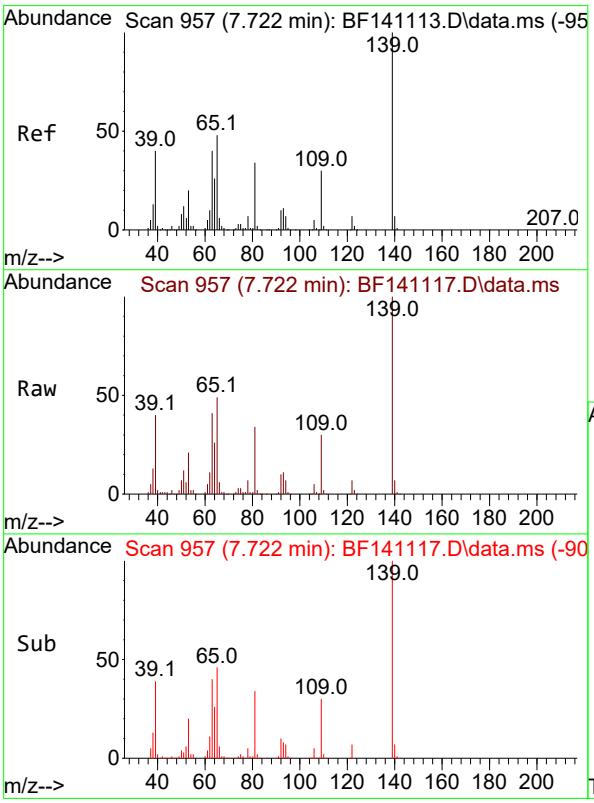
#25
Isophorone
Concen: 48.754 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 982492

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	18.3	14.2	21.2

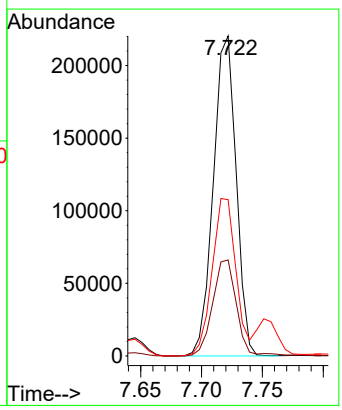


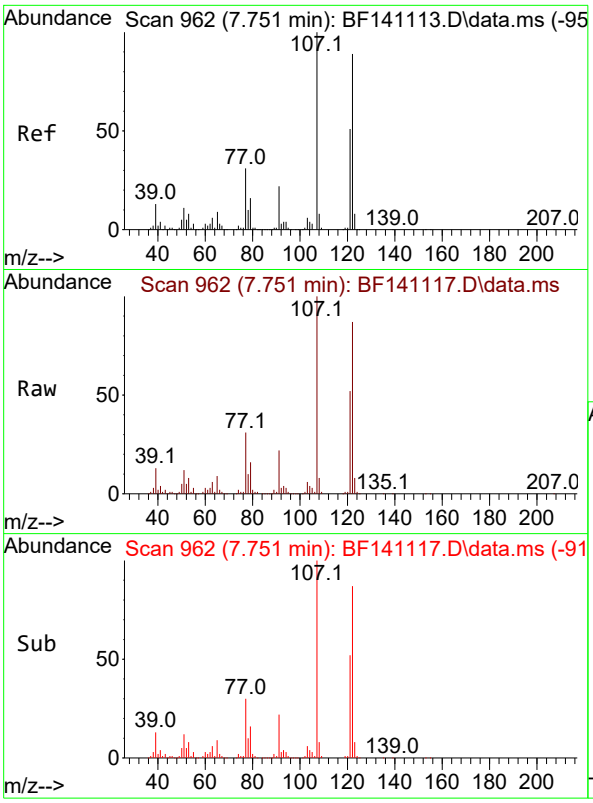


#26
2-Nitrophenol
Concen: 51.416 ng
RT: 7.722 min Scan# 957
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:139 Resp: 287436

Ion	Ratio	Lower	Upper
139	100		
109	30.0	23.8	35.6
65	48.8	38.5	57.7



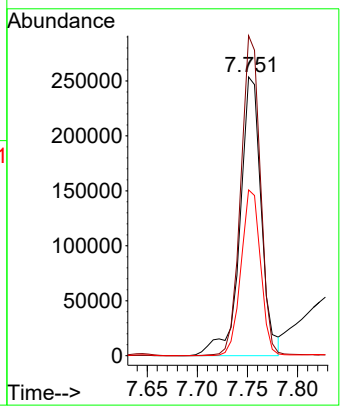


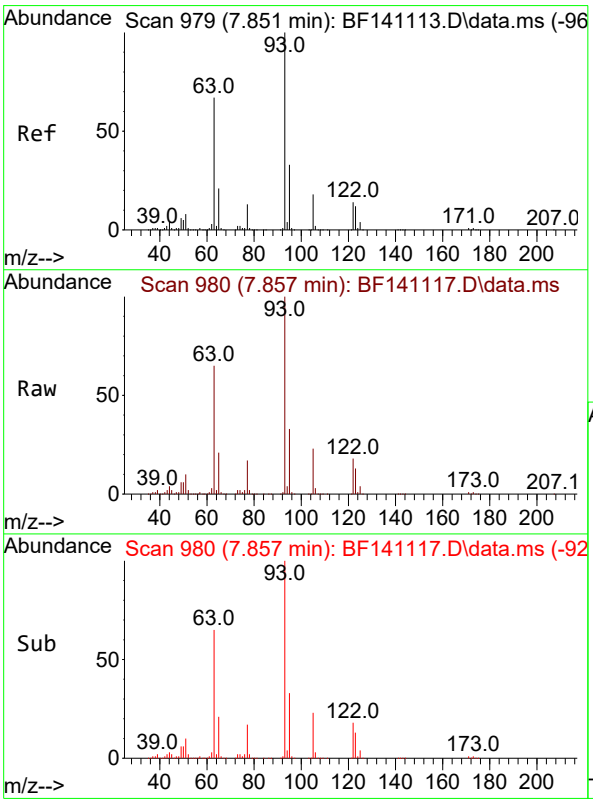
#27
2,4-Dimethylphenol
Concen: 49.629 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 374236

Ion	Ratio	Lower	Upper
122	100		
107	114.8	90.3	135.5
121	59.5	46.5	69.7

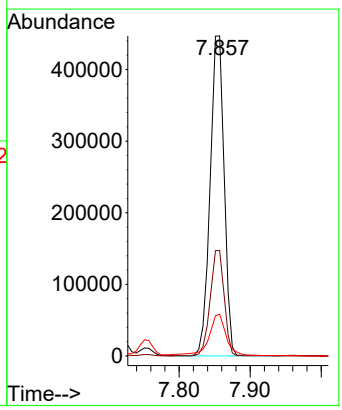


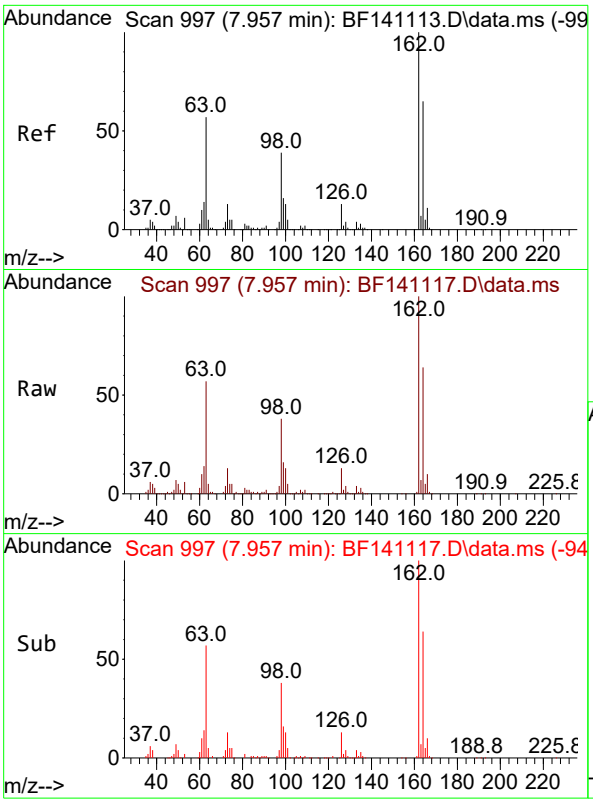


#28
bis(2-Chloroethoxy)methane
Concen: 48.594 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 93 Resp: 614567

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.2	39.4
123	13.1	10.1	15.1



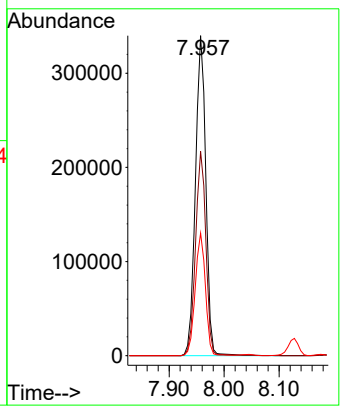


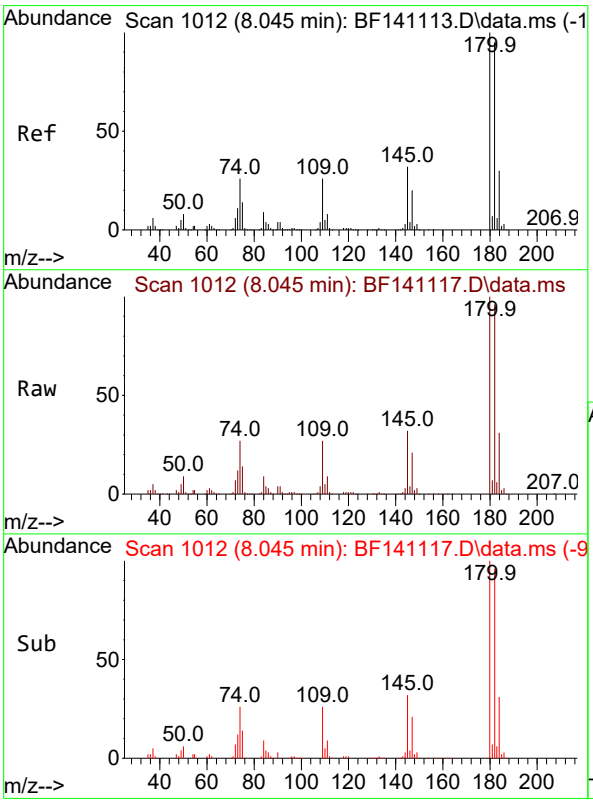
#29
2,4-Dichlorophenol
Concen: 49.935 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 447208

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.5	84.5
98	38.3	18.5	58.5

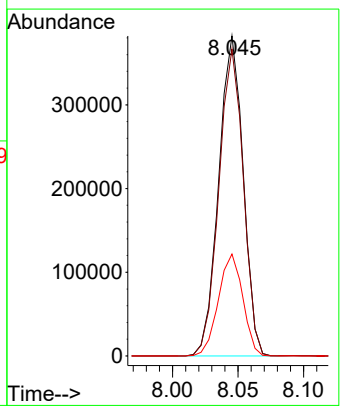


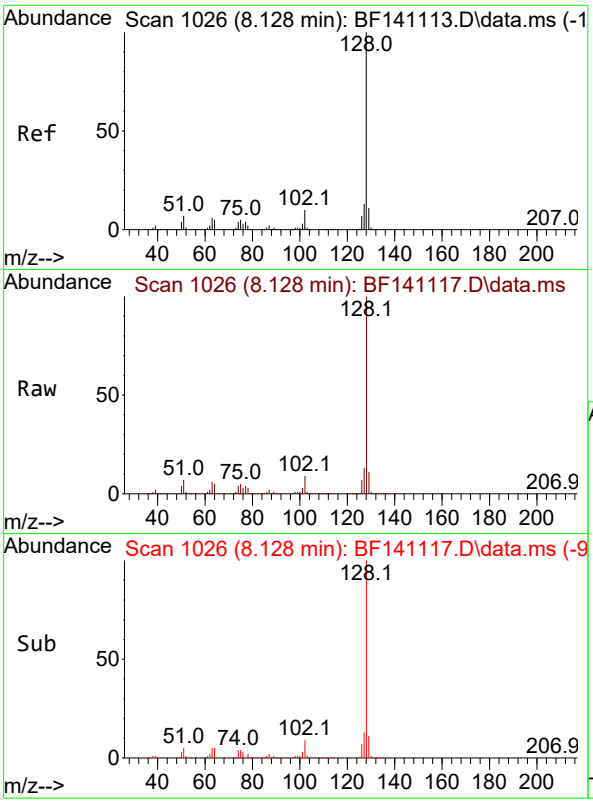


#30
1,2,4-Trichlorobenzene
Concen: 48.394 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:180 Resp: 495397

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.2
145	31.8	25.3	37.9



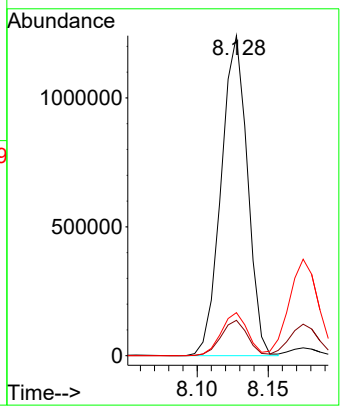


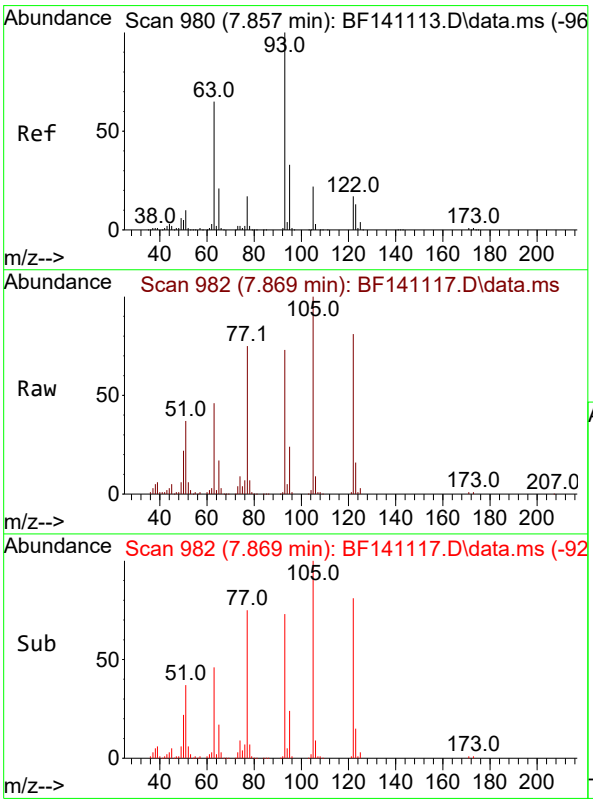
#31
Naphthalene
Concen: 48.495 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 1598576

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.5	10.8	16.2

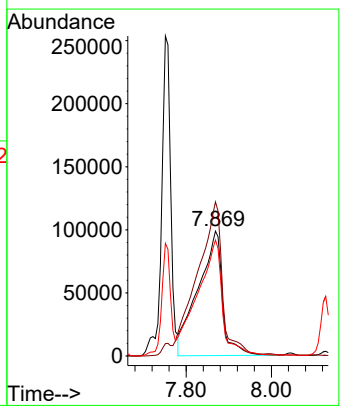


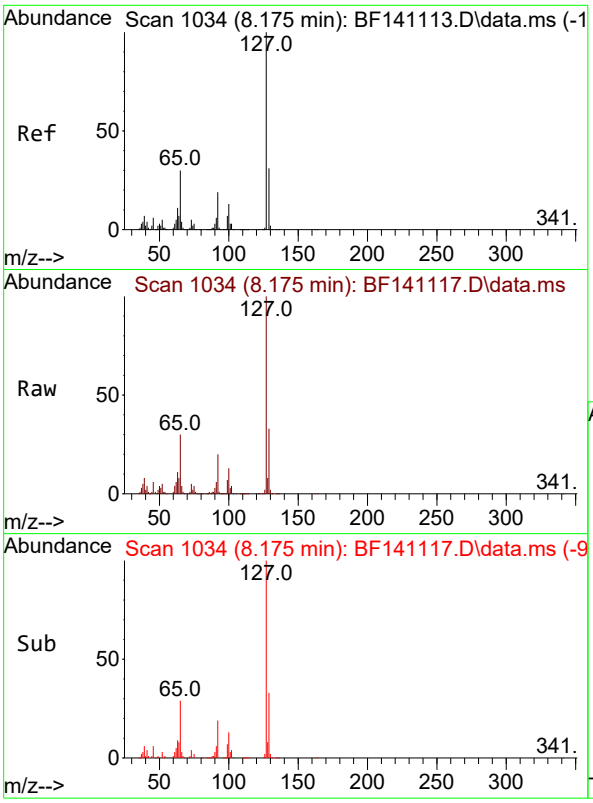


#32
Benzoic acid
Concen: 54.138 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:122 Resp: 391608

Ion	Ratio	Lower	Upper
122	100		
105	123.5	105.5	145.5
77	92.8	75.1	115.1



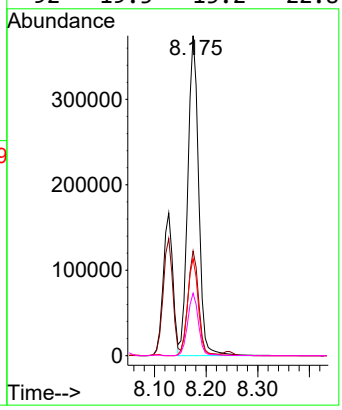


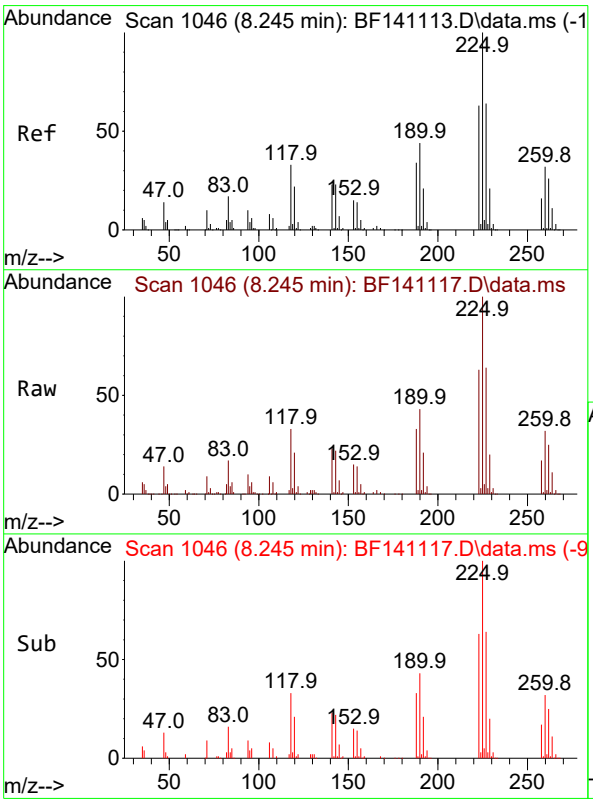
#33
4-Chloroaniline
Concen: 47.801 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 544930

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	30.3	23.8	35.8
92	19.5	15.2	22.8

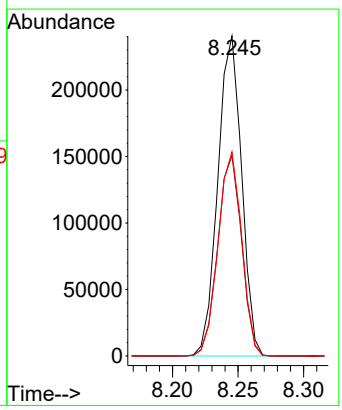


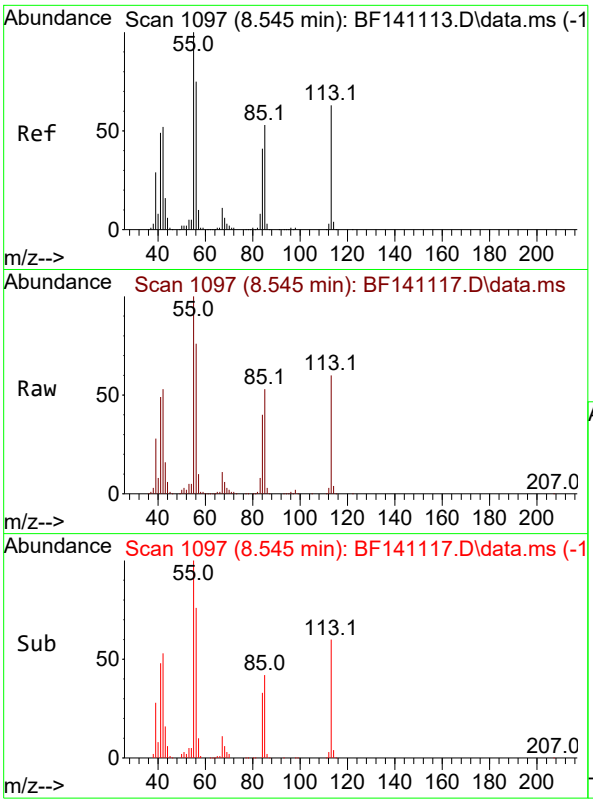


#34
Hexachlorobutadiene
Concen: 49.102 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:225 Resp: 302873

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.6	76.0
227	63.8	51.6	77.4



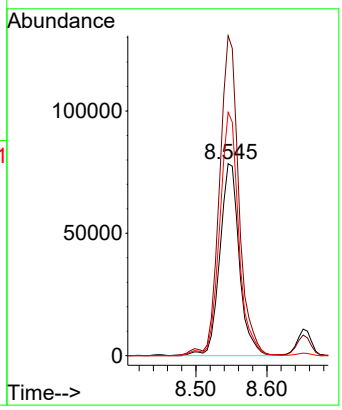


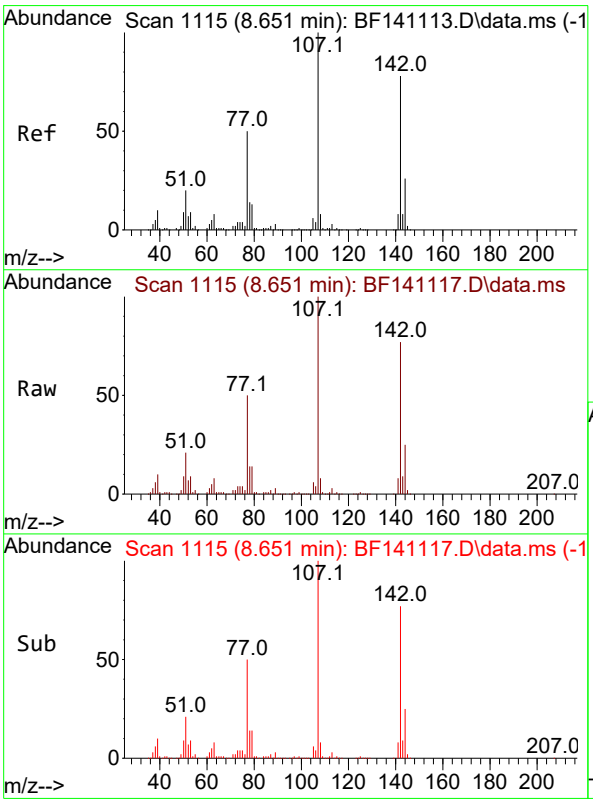
#35
Caprolactam
Concen: 50.598 ng
RT: 8.545 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 148641

Ion	Ratio	Lower	Upper
113	100		
55	166.6	139.7	179.7
56	126.8	99.4	139.4

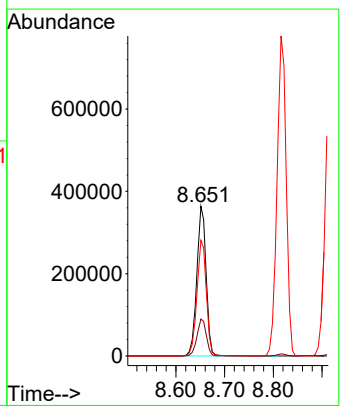


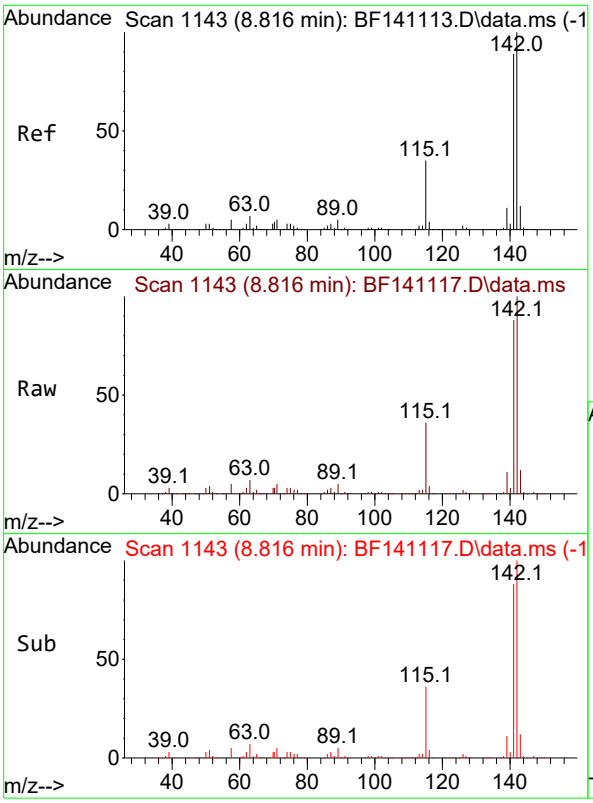


#36
4-Chloro-3-methylphenol
Concen: 49.859 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:107 Resp: 488345

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.4	30.6
142	77.2	62.2	93.2



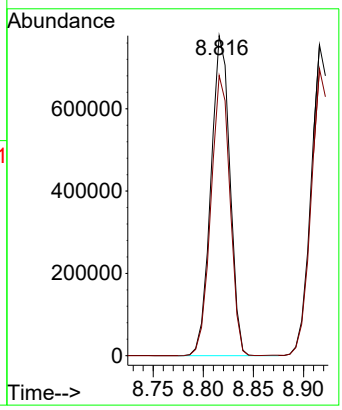


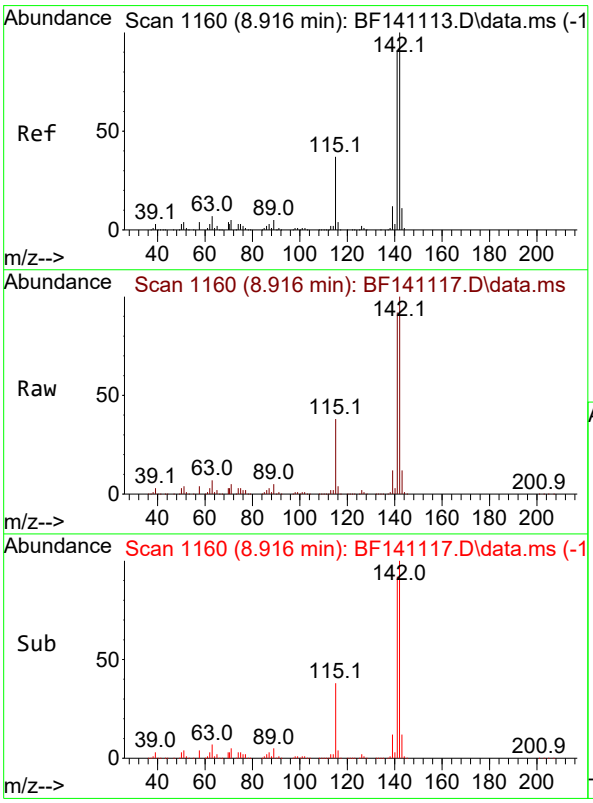
#37
2-Methylnaphthalene
Concen: 48.619 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1021264

Ion	Ratio	Lower	Upper
142	100		
141	87.5	71.3	106.9

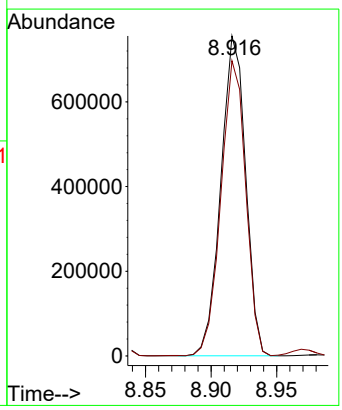


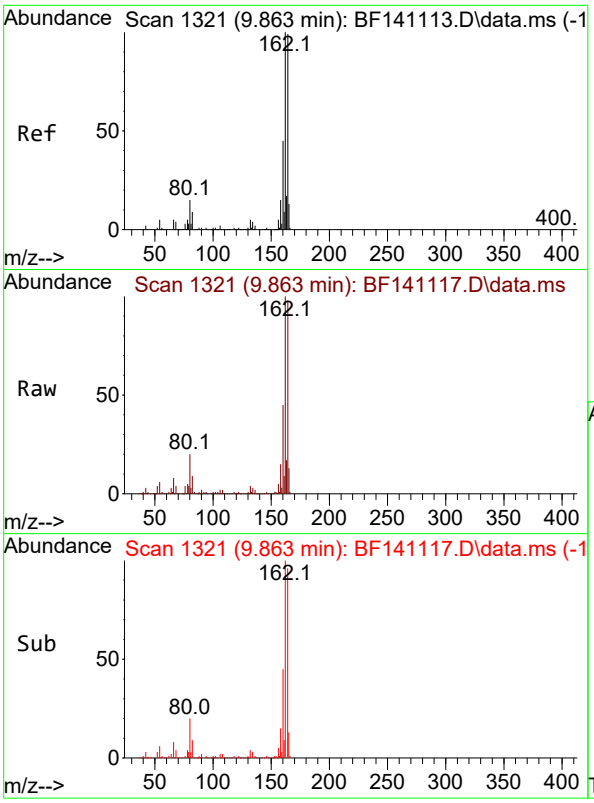


#38
1-Methylnaphthalene
Concen: 47.950 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:142 Resp: 992651

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



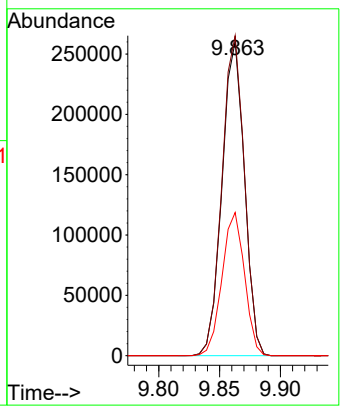


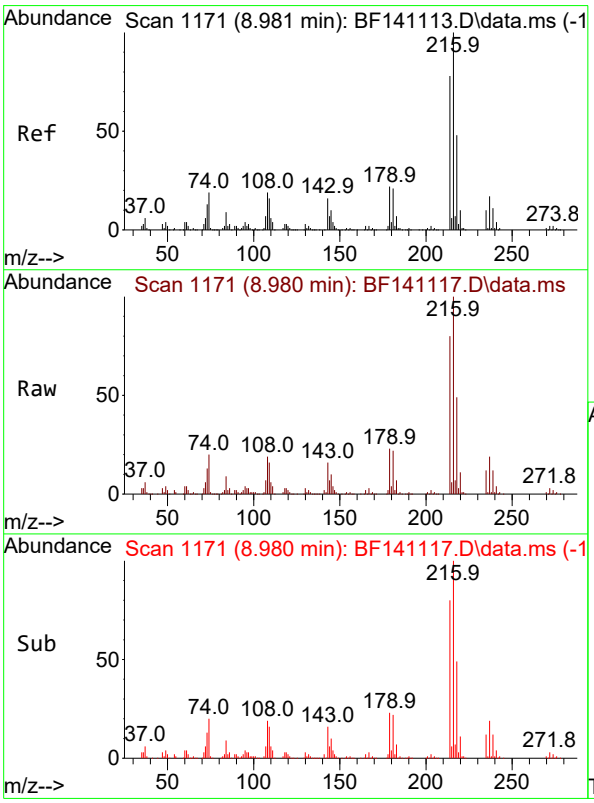
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 333513

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.4
160	45.6	36.1	54.1

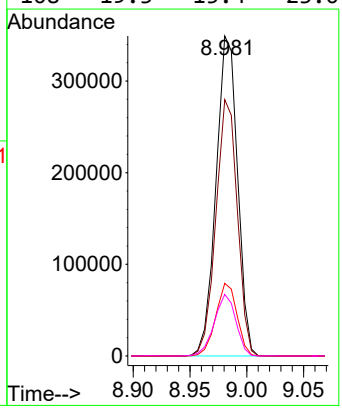


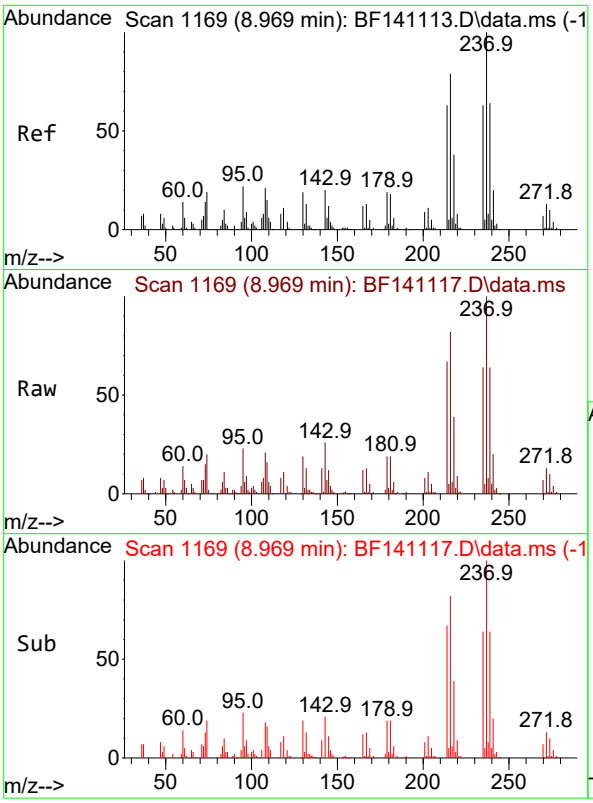


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.082 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:216 Resp: 460261

Ion	Ratio	Lower	Upper
216	100		
214	79.7	62.6	94.0
179	22.3	17.7	26.5
108	19.3	15.4	23.0



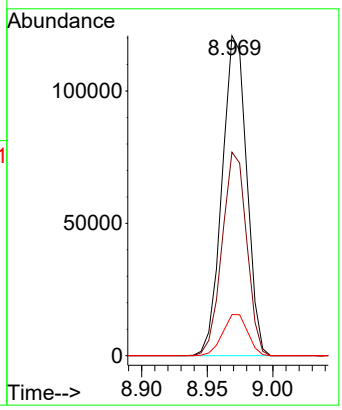


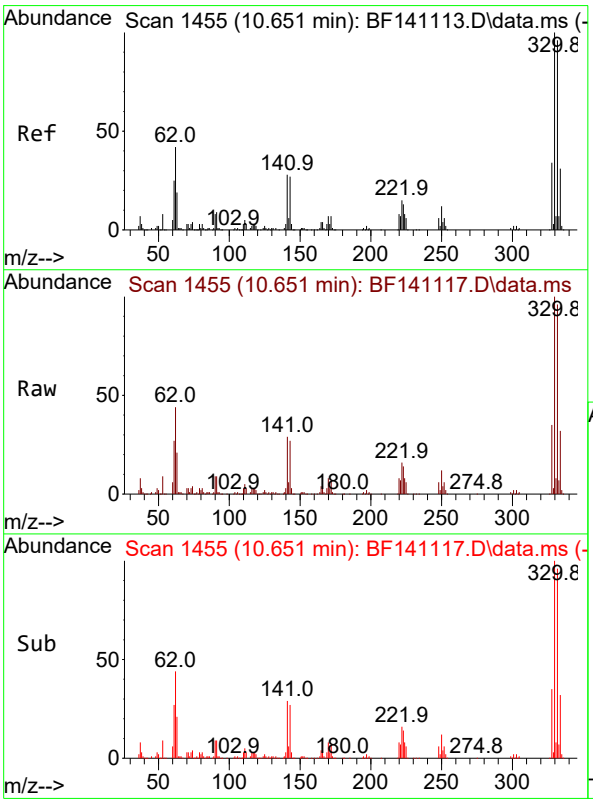
#41
Hexachlorocyclopentadiene
Concen: 50.395 ng
RT: 8.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 157828

Ion	Ratio	Lower	Upper
237	100		
235	63.6	43.0	83.0
272	12.8	0.0	33.0

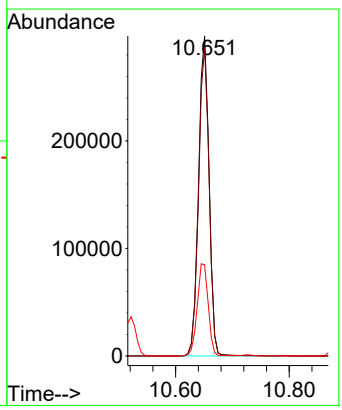


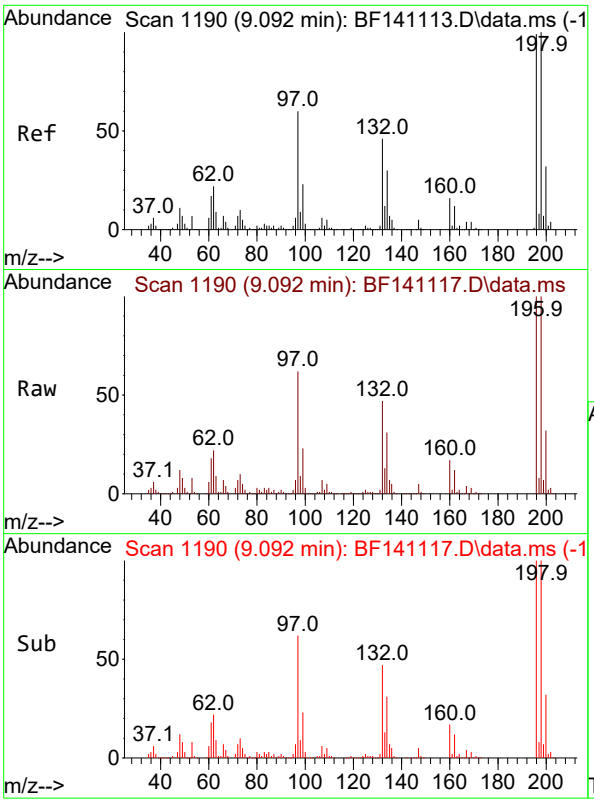


#42
2,4,6-Tribromophenol
Concen: 101.033 ng
RT: 10.651 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:330 Resp: 383942

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.9	115.3
141	30.2	25.2	37.8



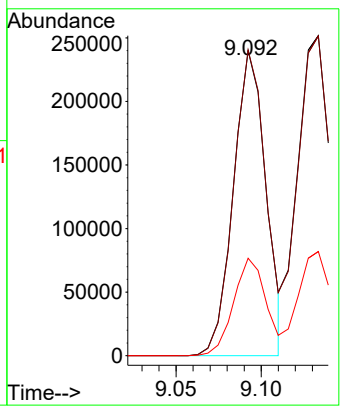


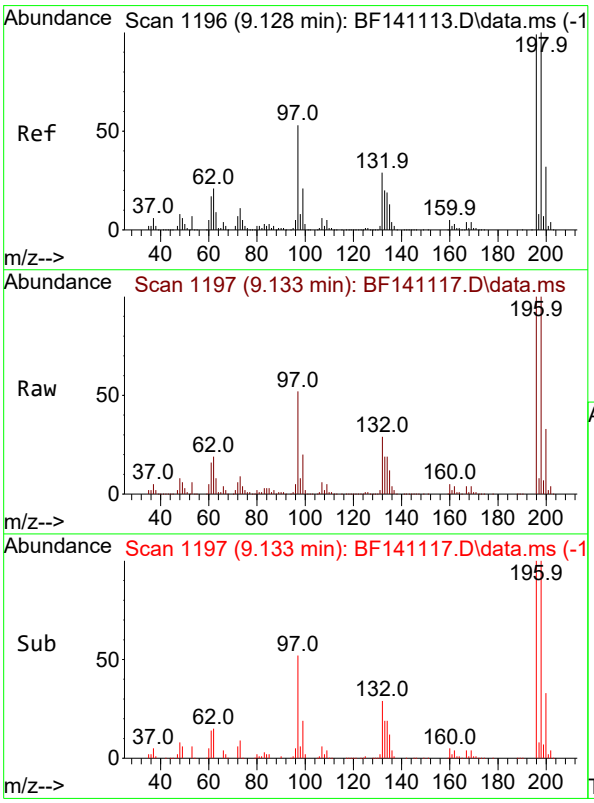
#43
2,4,6-Trichlorophenol
Concen: 49.299 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 318276

Ion	Ratio	Lower	Upper
196	100		
198	100.3	80.8	121.2
200	32.0	25.7	38.5

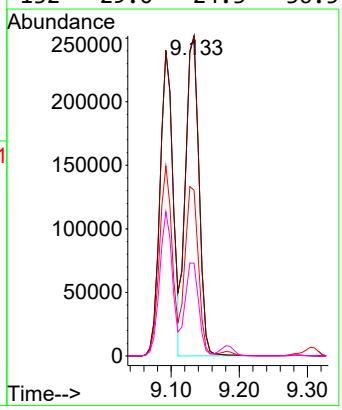


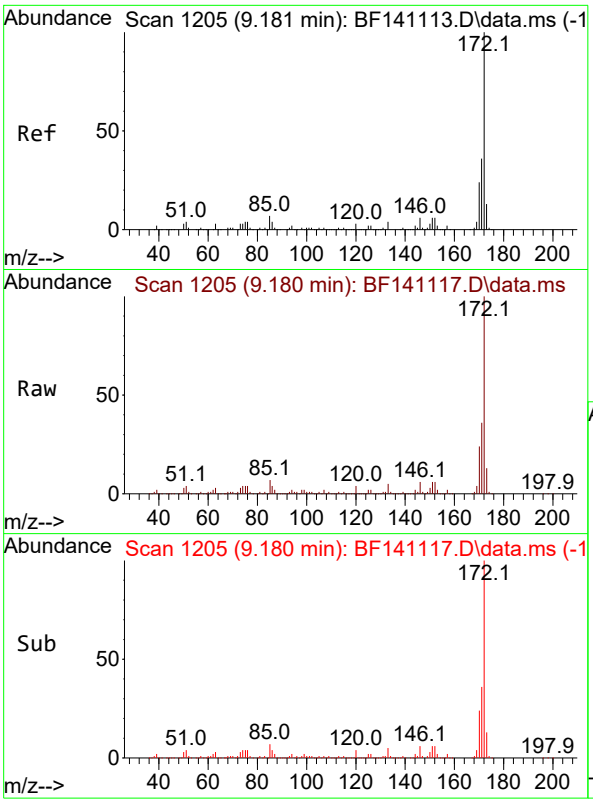


#44
2,4,5-Trichlorophenol
Concen: 50.201 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:196 Resp: 342288

Ion	Ratio	Lower	Upper
196	100		
198	99.9	80.6	120.8
97	51.9	43.1	64.7
132	29.0	24.3	36.5



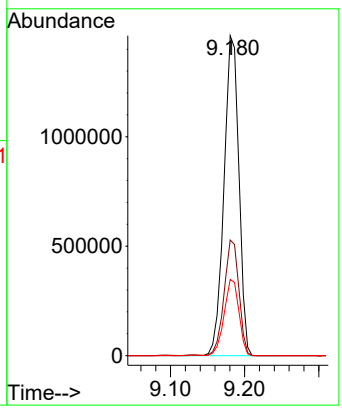


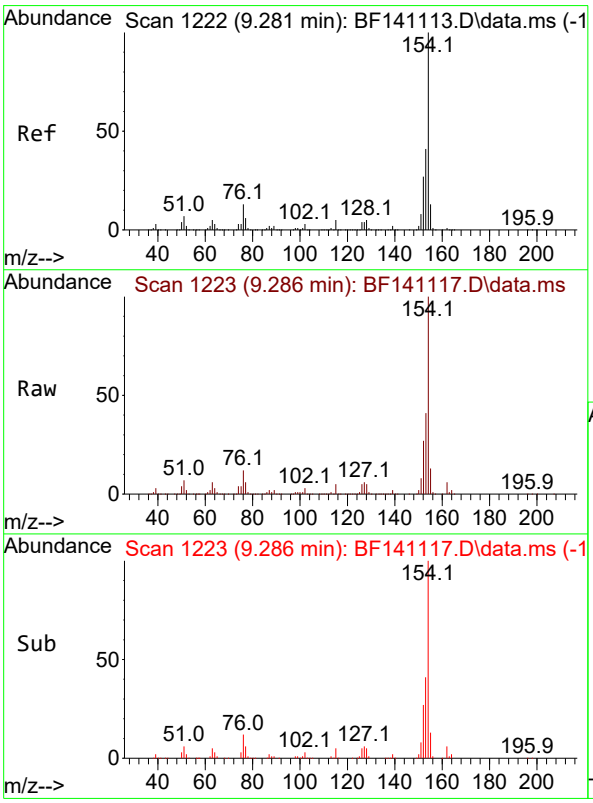
#45
2-Fluorobiphenyl
Concen: 93.427 ng
RT: 9.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 2040487

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.8	19.0	28.6

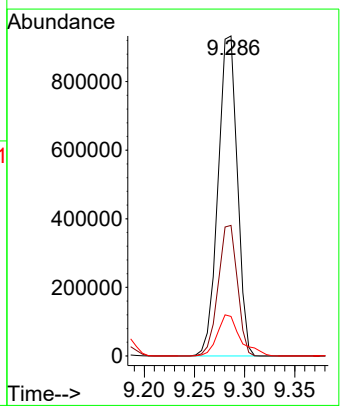


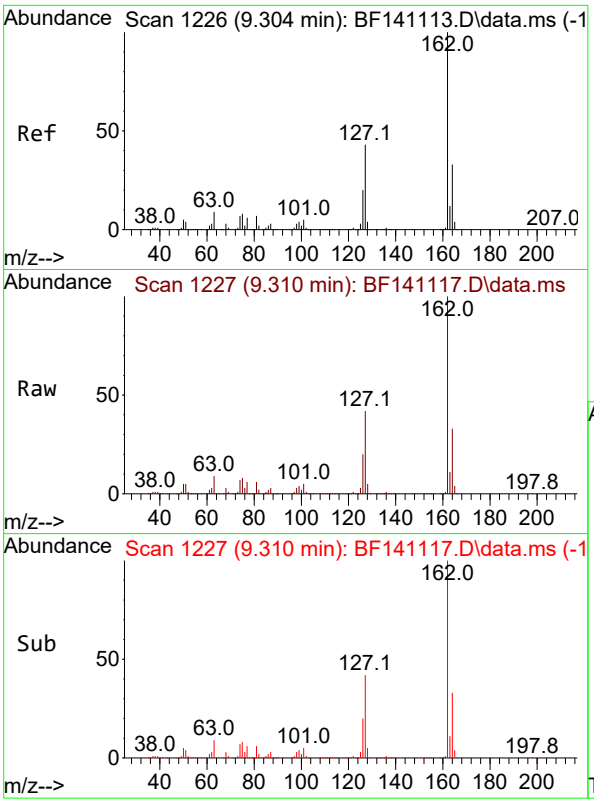


#46
1,1'-Biphenyl
Concen: 48.003 ng
RT: 9.286 min Scan# 1223
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:154 Resp: 1243305

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.7	60.7
76	12.4	0.0	33.1



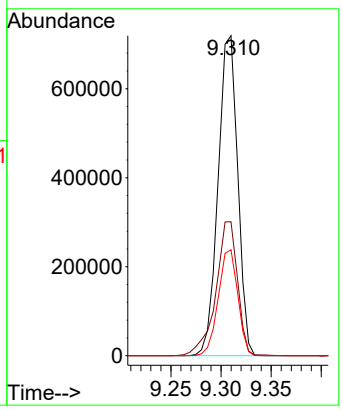


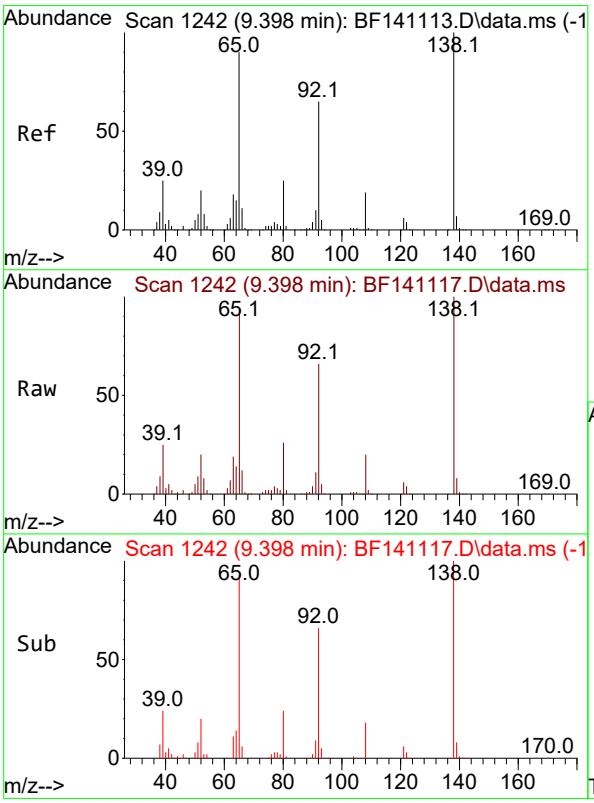
#47
2-Chloronaphthalene
Concen: 48.530 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 979002

Ion	Ratio	Lower	Upper
162	100		
127	41.9	34.6	51.8
164	33.1	26.5	39.7

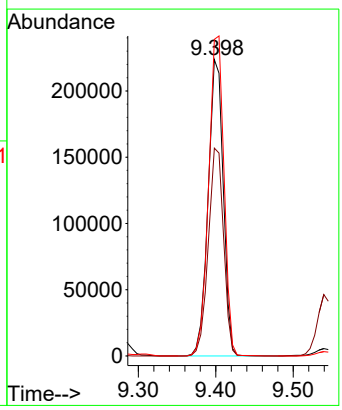


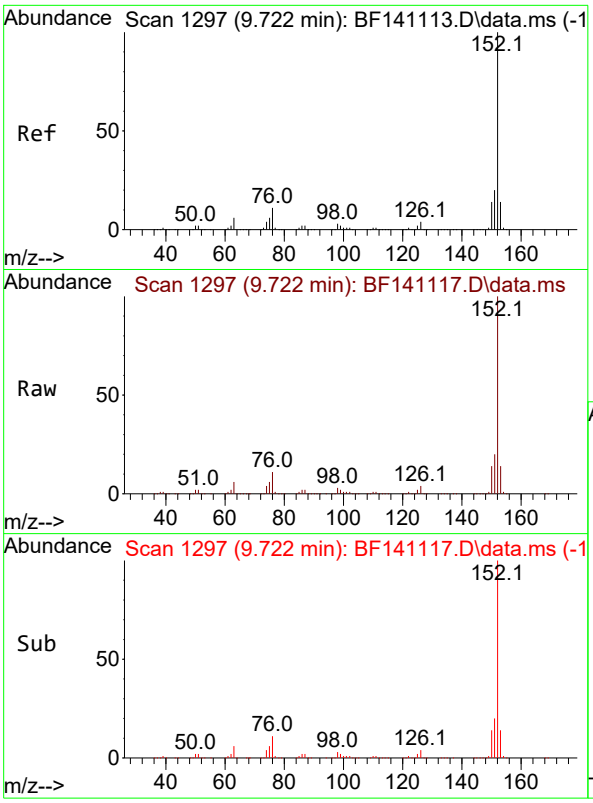


#48
2-Nitroaniline
Concen: 50.844 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion: 65 Resp: 304048

Ion	Ratio	Lower	Upper
65	100		
92	70.1	58.3	87.5
138	106.9	89.1	133.7



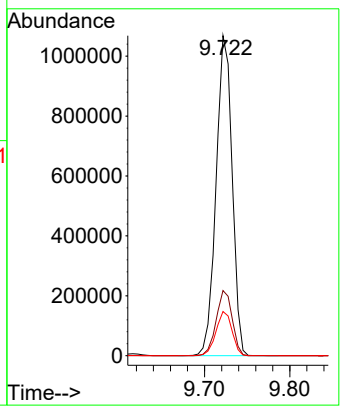


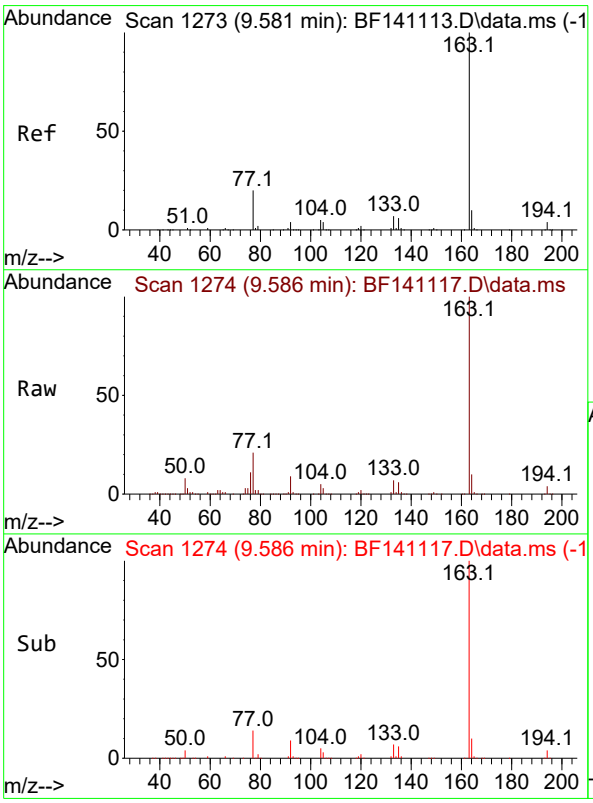
#49
Acenaphthylene
Concen: 48.539 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 1398990

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.1	24.1
153	13.8	11.1	16.7

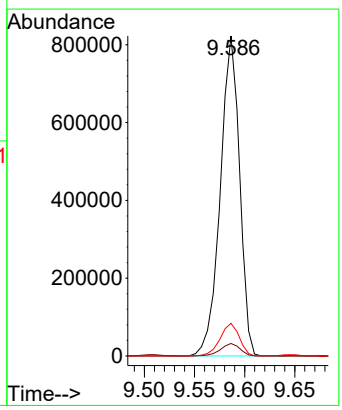


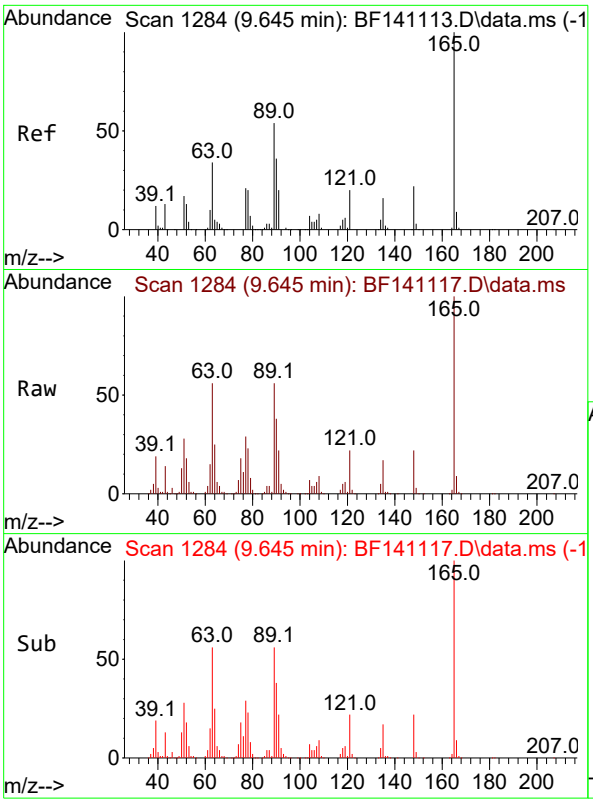


#50
Dimethylphthalate
Concen: 49.076 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:163 Resp: 1098805

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.2	8.2	12.4



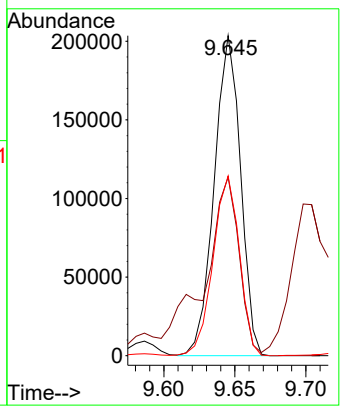


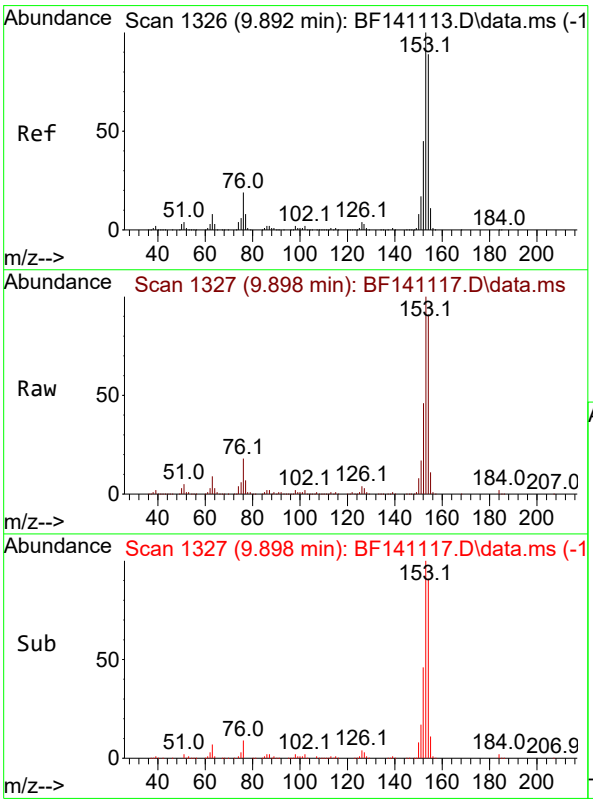
#51
2,6-Dinitrotoluene
Concen: 50.434 ng
RT: 9.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 262596

Ion	Ratio	Lower	Upper
165	100		
63	55.8	42.3	63.5
89	56.1	43.1	64.7

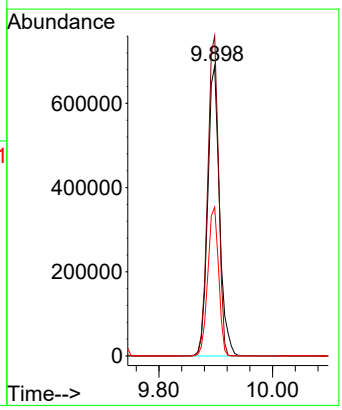


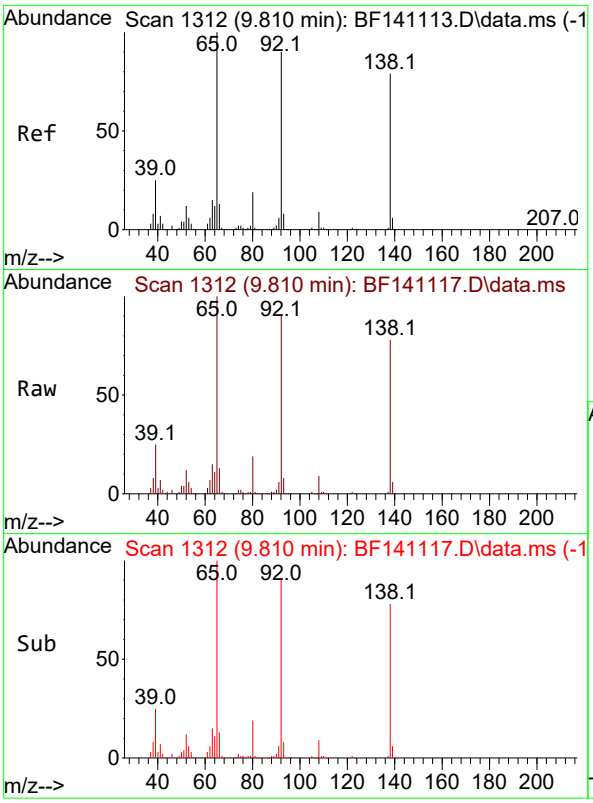


#52
Acenaphthene
Concen: 49.066 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:154 Resp: 988008

Ion	Ratio	Lower	Upper
154	100		
153	110.4	89.8	134.6
152	51.3	40.8	61.2



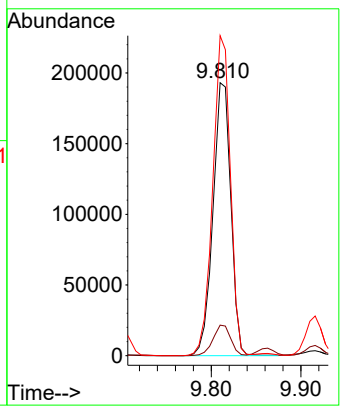


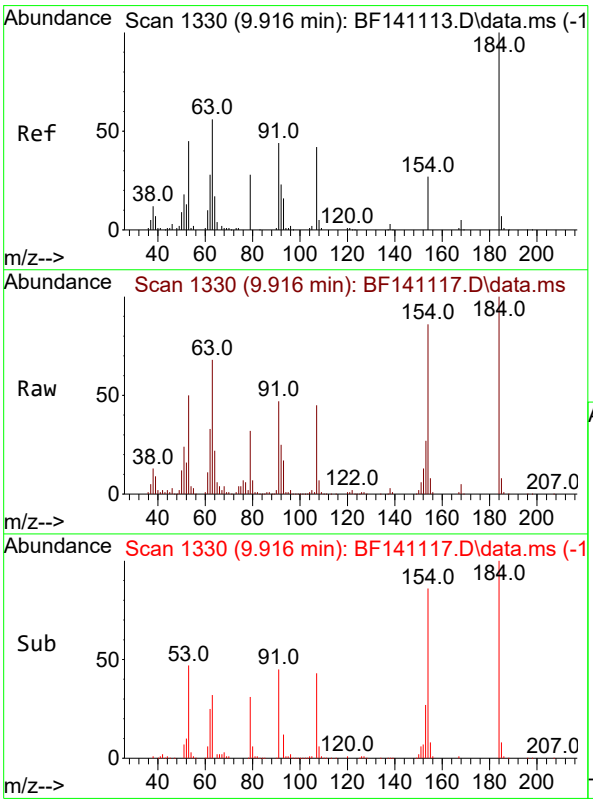
#53
3-Nitroaniline
Concen: 50.440 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 266881

Ion	Ratio	Lower	Upper
138	100		
108	11.2	8.8	13.2
92	117.2	91.3	136.9

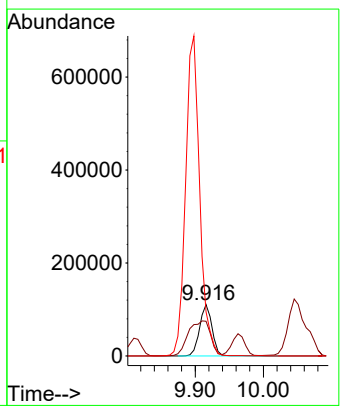


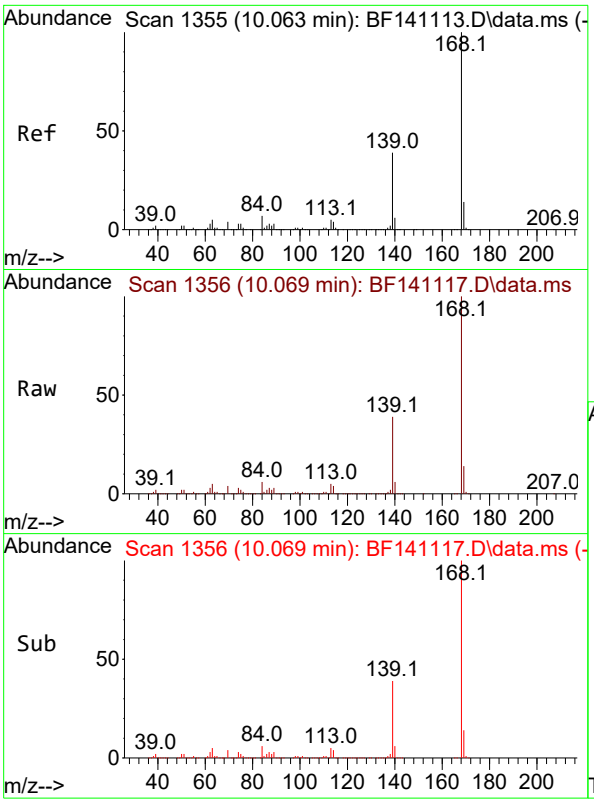


#54
2,4-Dinitrophenol
Concen: 56.530 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:184 Resp: 139903

Ion	Ratio	Lower	Upper
184	100		
63	67.8	48.7	73.1
154	86.2	57.1	85.7#



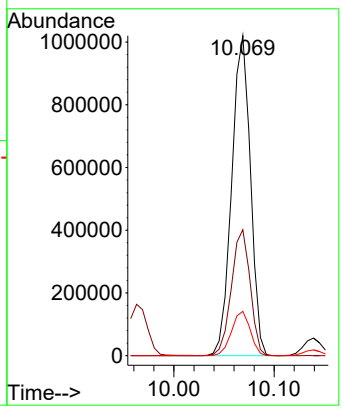


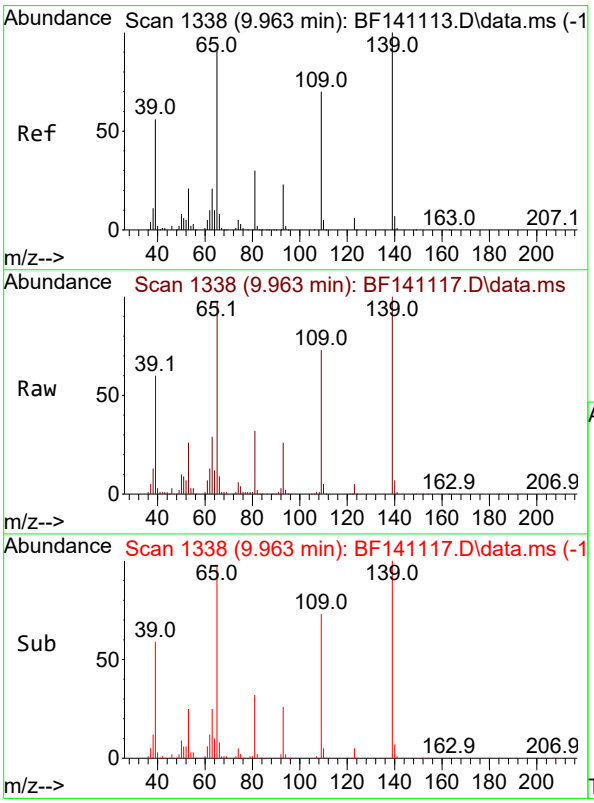
#55
Dibenzofuran
Concen: 48.261 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1321844

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.4	47.0
169	13.9	10.9	16.3

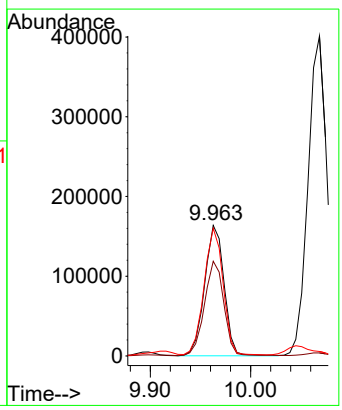


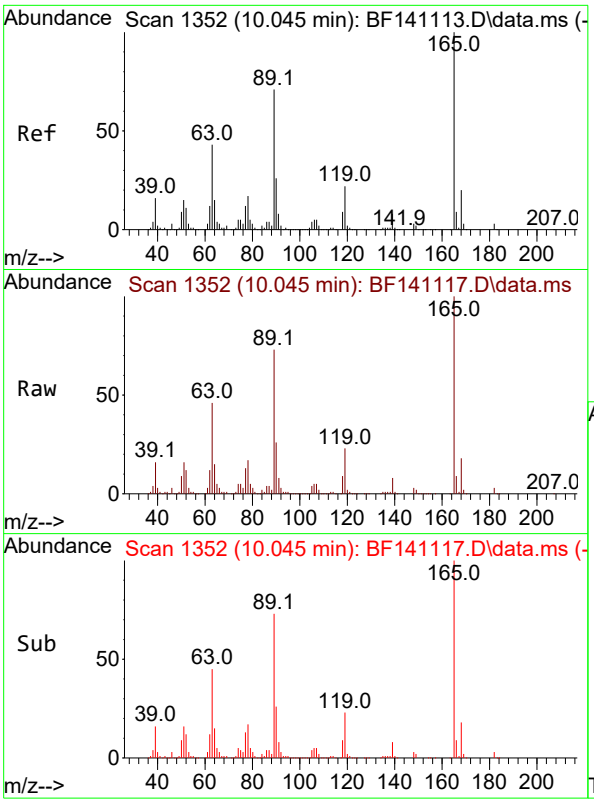


#56
4-Nitrophenol
Concen: 53.183 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:139 Resp: 220382

Ion	Ratio	Lower	Upper
139	100		
109	72.5	50.2	90.2
65	97.7	72.1	112.1



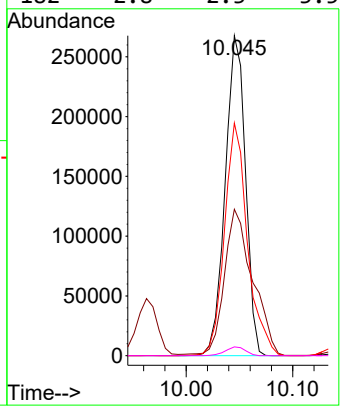


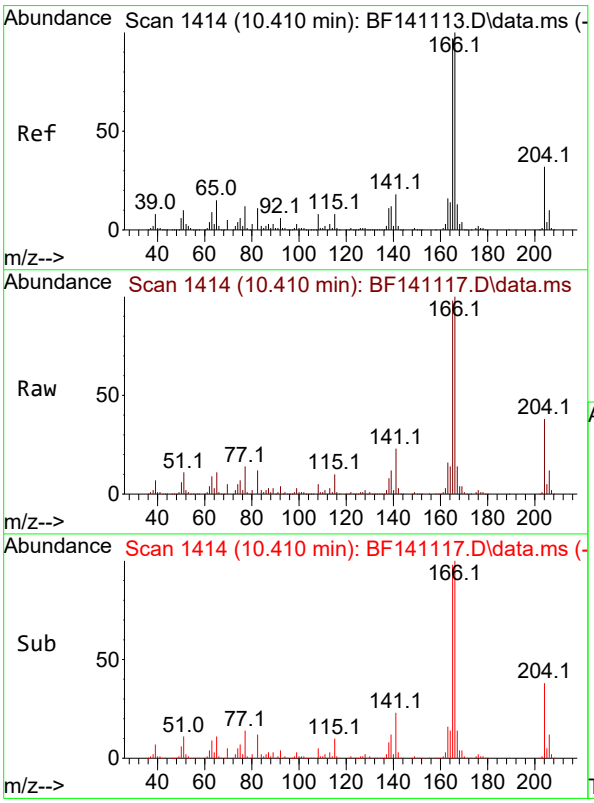
#57
2,4-Dinitrotoluene
Concen: 52.728 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 353808

Ion	Ratio	Lower	Upper
165	100		
63	45.8	35.0	52.4
89	72.7	56.7	85.1
182	2.8	2.3	3.5

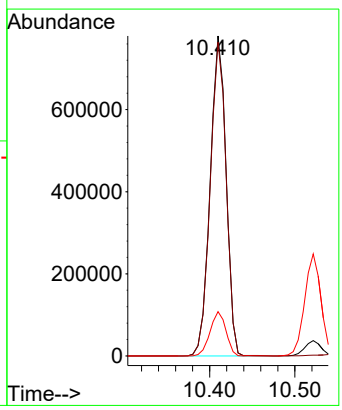


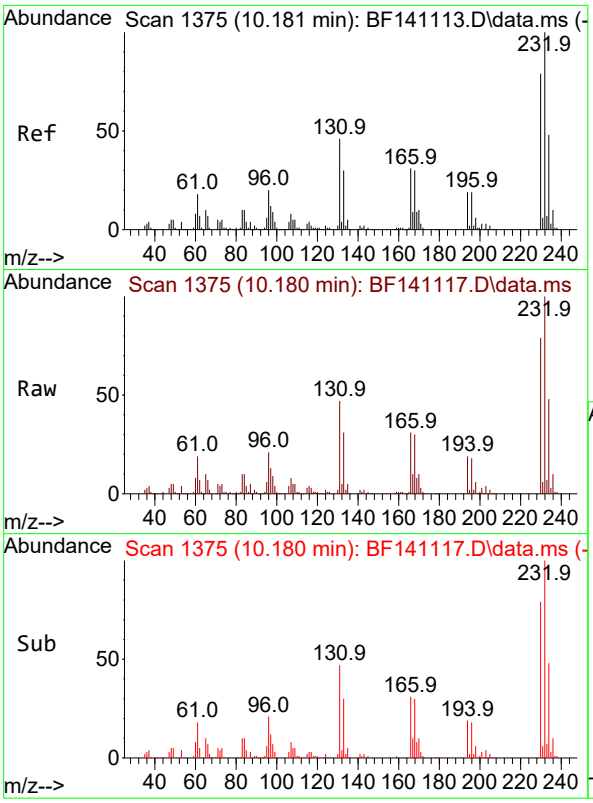


#58
Fluorene
Concen: 47.543 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:166 Resp: 1011650

Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.8	10.8	16.2



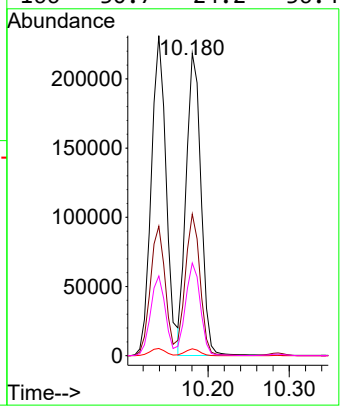


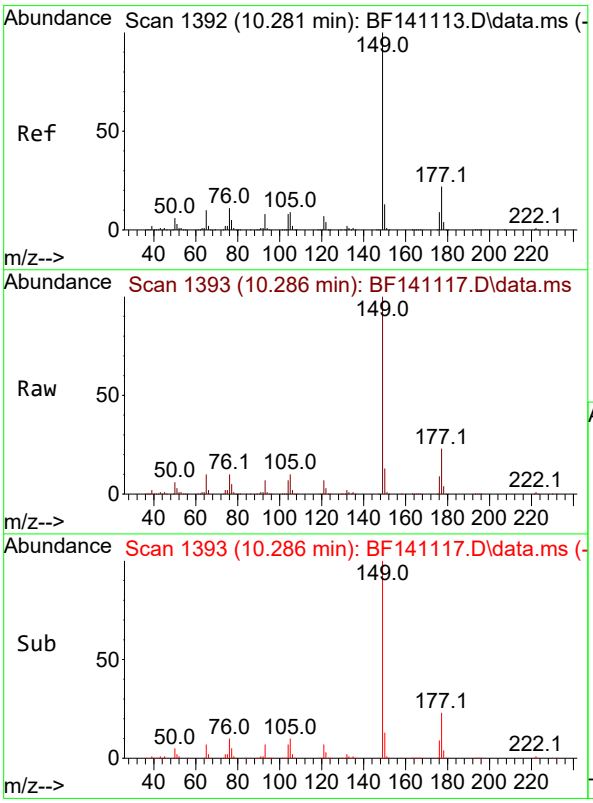
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.019 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 277818

Ion	Ratio	Lower	Upper
232	100		
131	46.8	36.2	54.4
130	2.3	2.0	3.0
166	30.7	24.2	36.4

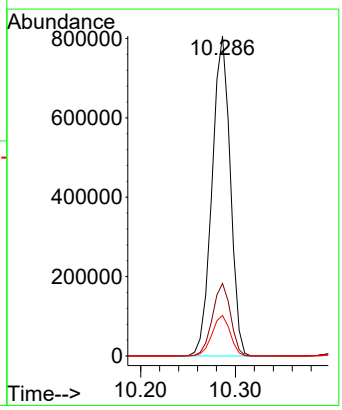


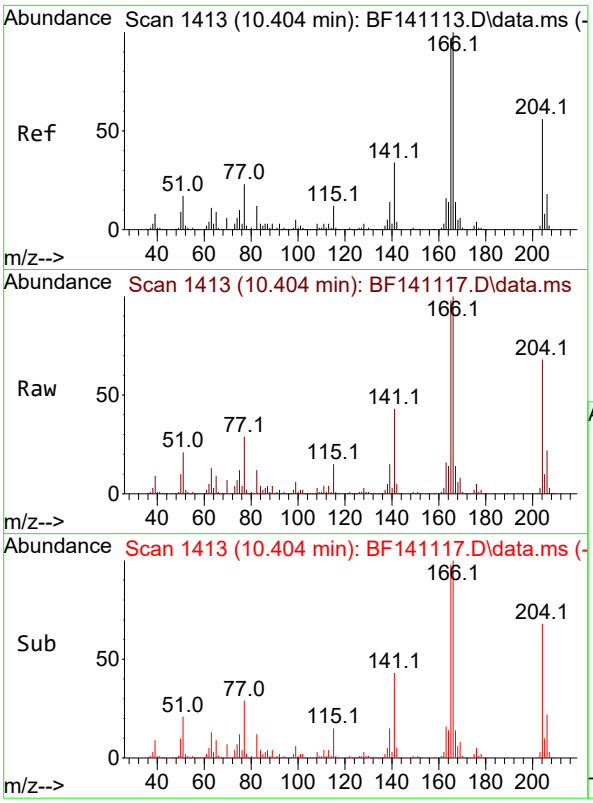


#60
Diethylphthalate
Concen: 49.171 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 1074789

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.9	26.9
150	12.6	10.2	15.2



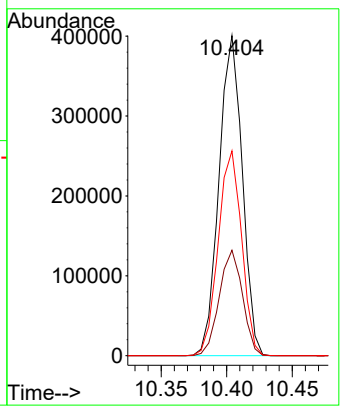


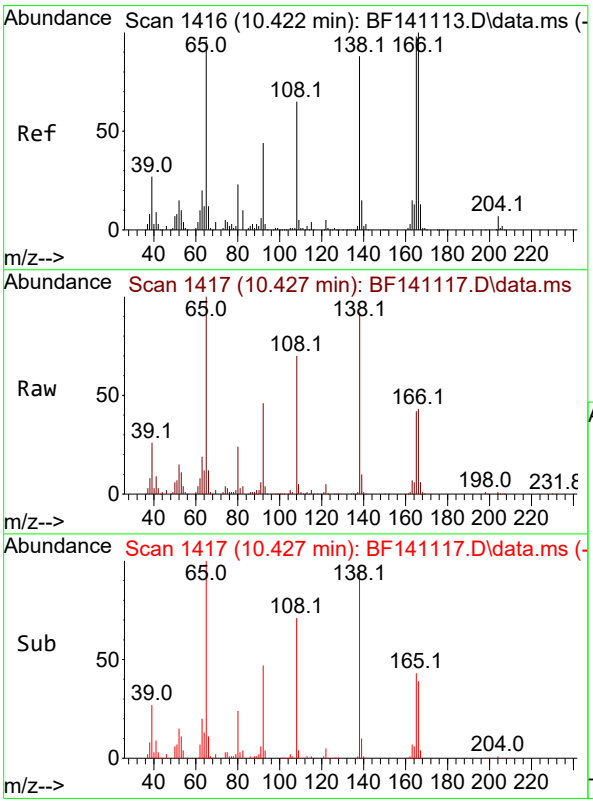
#61
4-Chlorophenyl-phenylether
Concen: 47.665 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 494329

Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.9	38.9
141	64.0	49.1	73.7

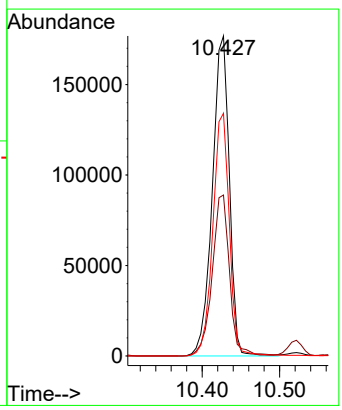


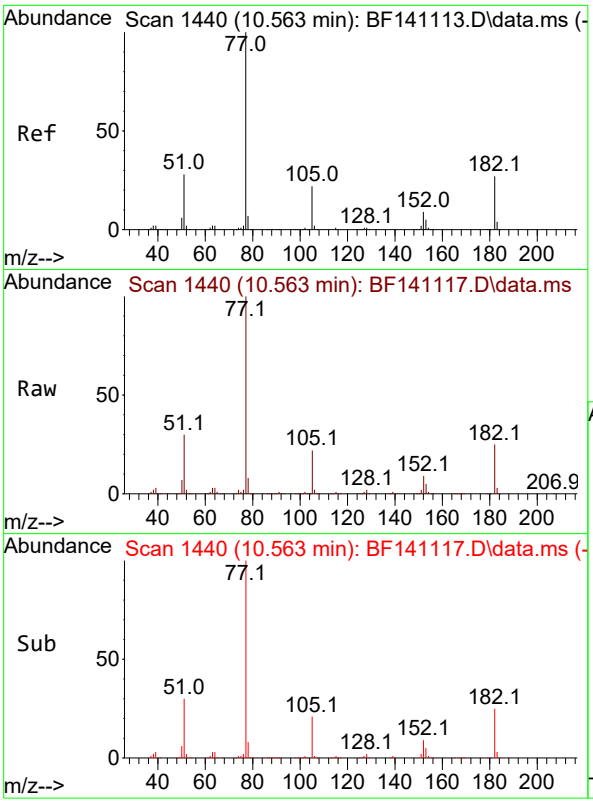


#62
4-Nitroaniline
Concen: 52.024 ng
RT: 10.427 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:138 Resp: 269415

Ion	Ratio	Lower	Upper
138	100		
92	50.3	29.4	69.4
108	75.9	53.7	93.7



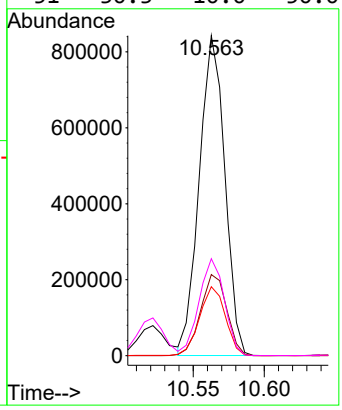


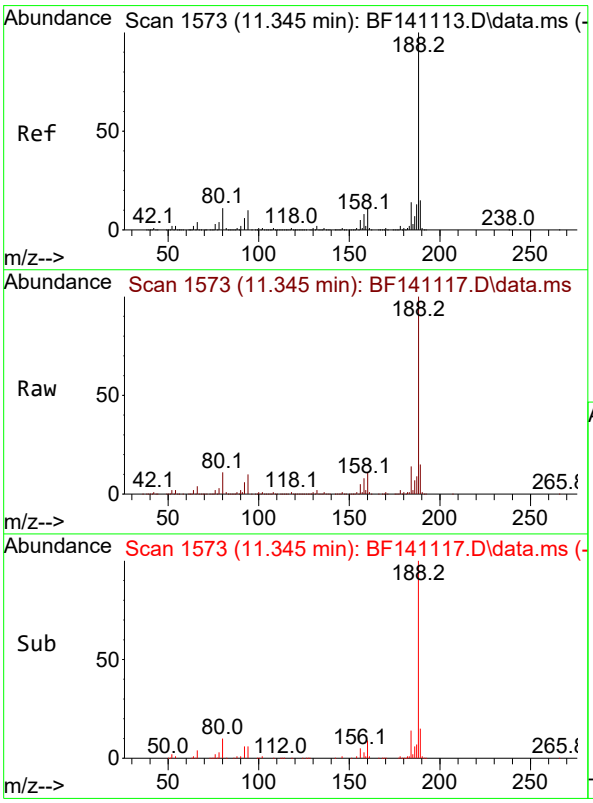
#63
Azobenzene
Concen: 48.881 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 1054277

Ion	Ratio	Lower	Upper
77	100		
182	25.4	6.1	46.1
105	21.6	2.1	42.1
51	30.3	10.0	50.0

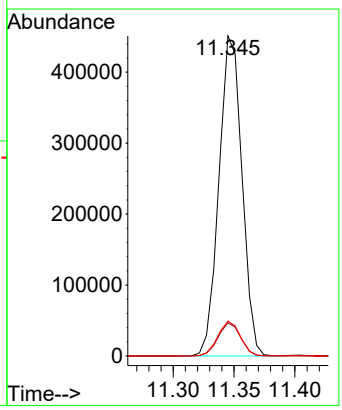


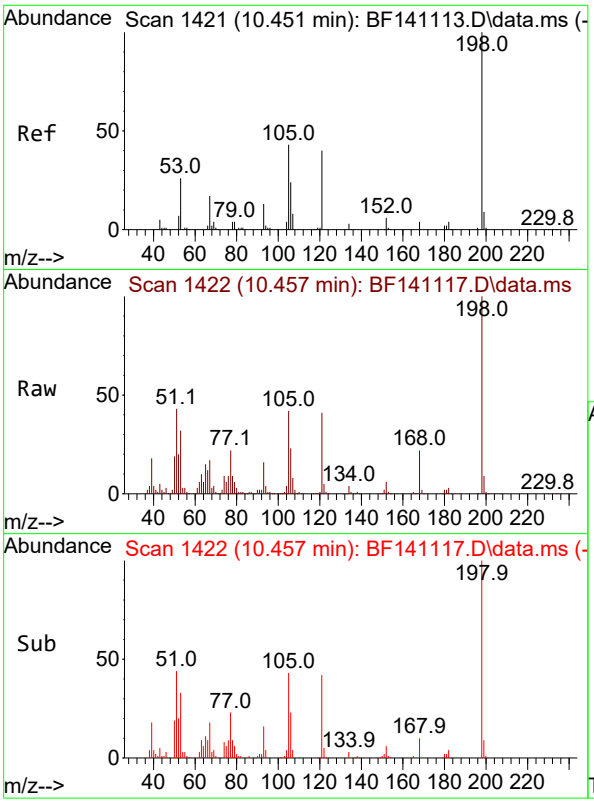


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:188 Resp: 593257

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.3	12.5
80	10.9	9.0	13.4



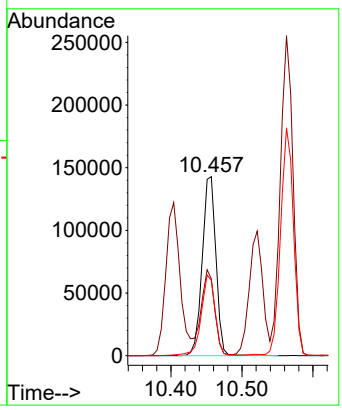


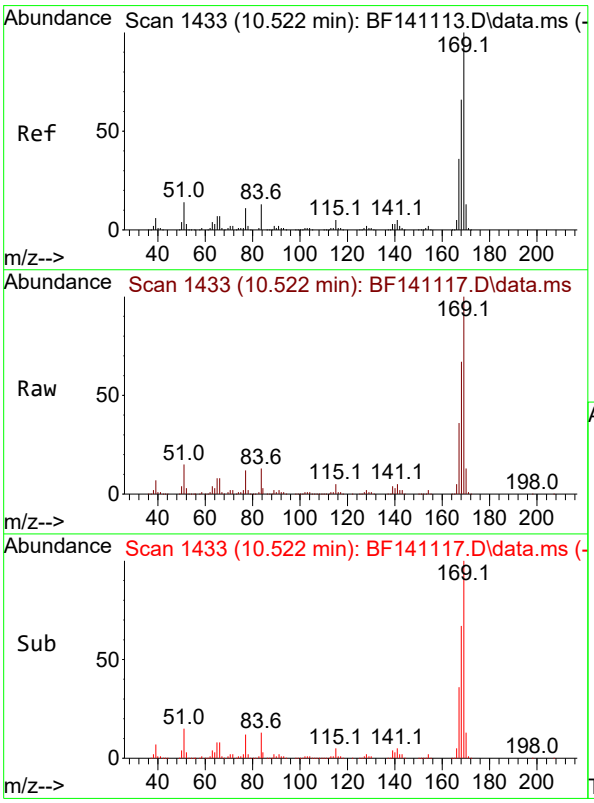
#65
4,6-Dinitro-2-methylphenol
Concen: 55.890 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 192136

Ion	Ratio	Lower	Upper
198	100		
51	42.9	27.1	67.1
105	42.1	24.2	64.2

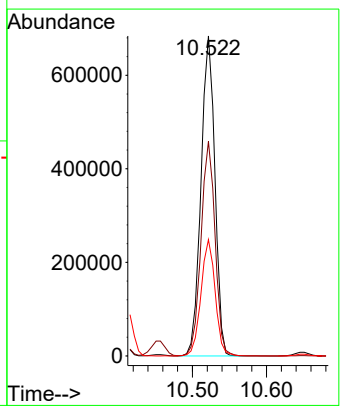


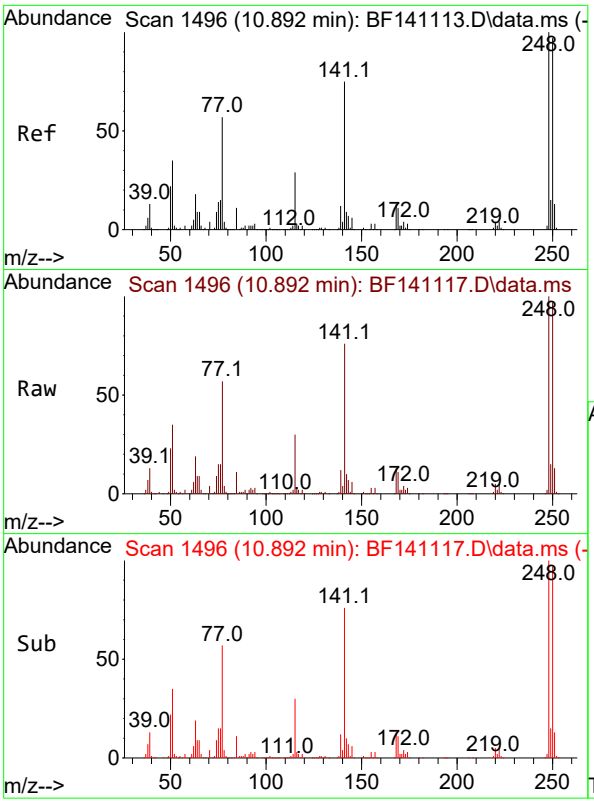


#66
n-Nitrosodiphenylamine
Concen: 46.748 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:169 Resp: 894530

Ion	Ratio	Lower	Upper
169	100		
168	67.0	52.5	78.7
167	36.4	28.9	43.3



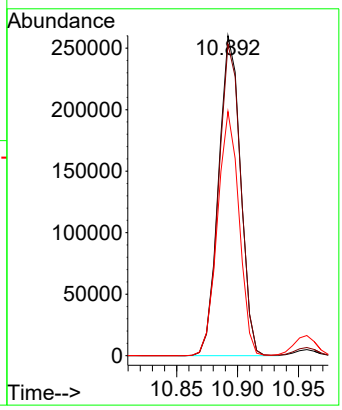


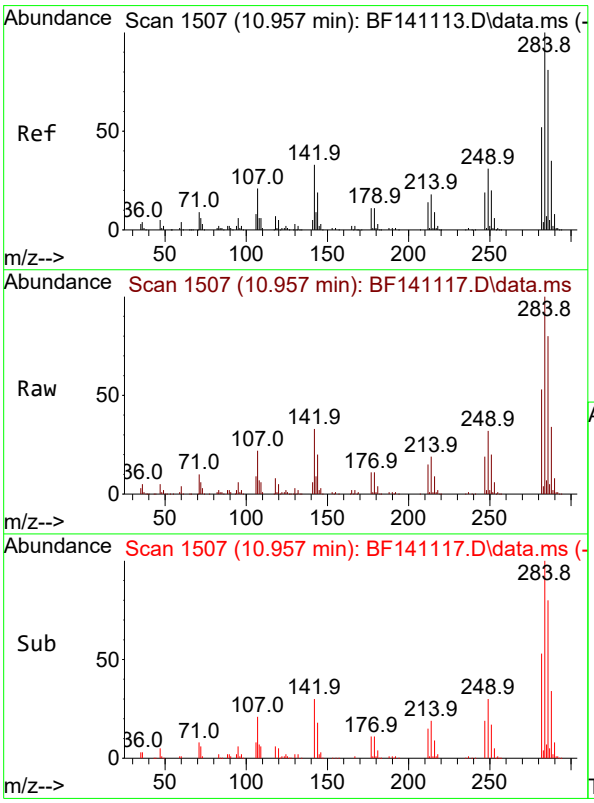
#67
4-Bromophenyl-phenylether
Concen: 47.810 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 326554

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.9	116.9
141	76.3	59.9	89.9

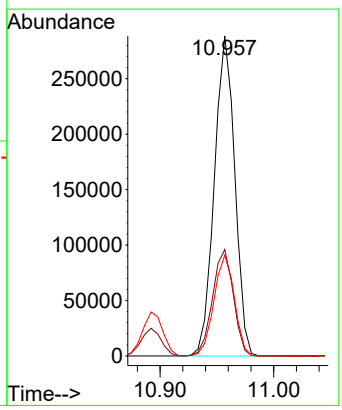


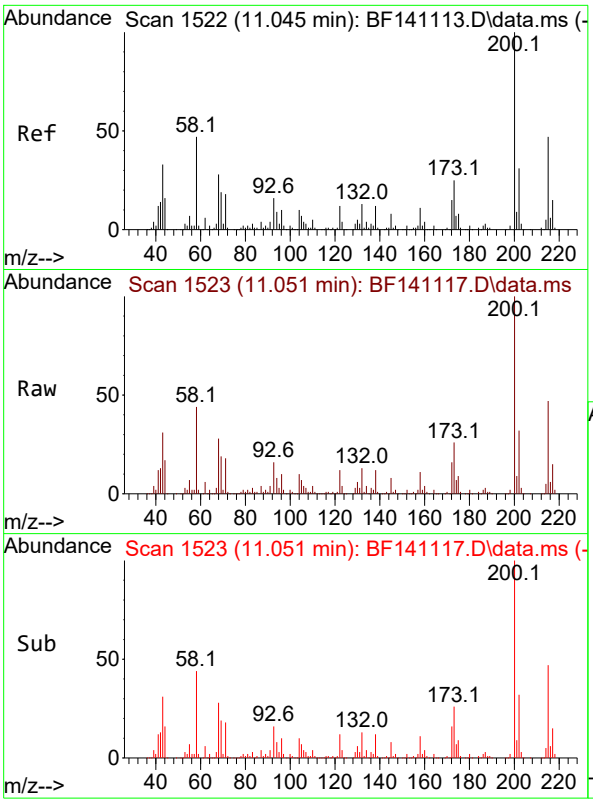


#68
Hexachlorobenzene
Concen: 47.551 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:284 Resp: 361542

Ion	Ratio	Lower	Upper
284	100		
142	33.2	26.3	39.5
249	31.5	24.9	37.3



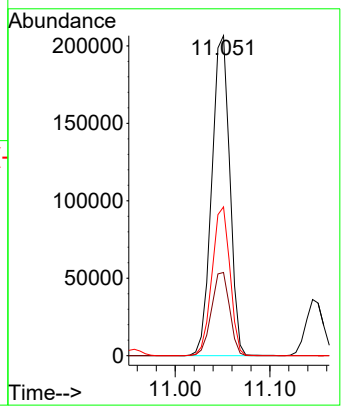


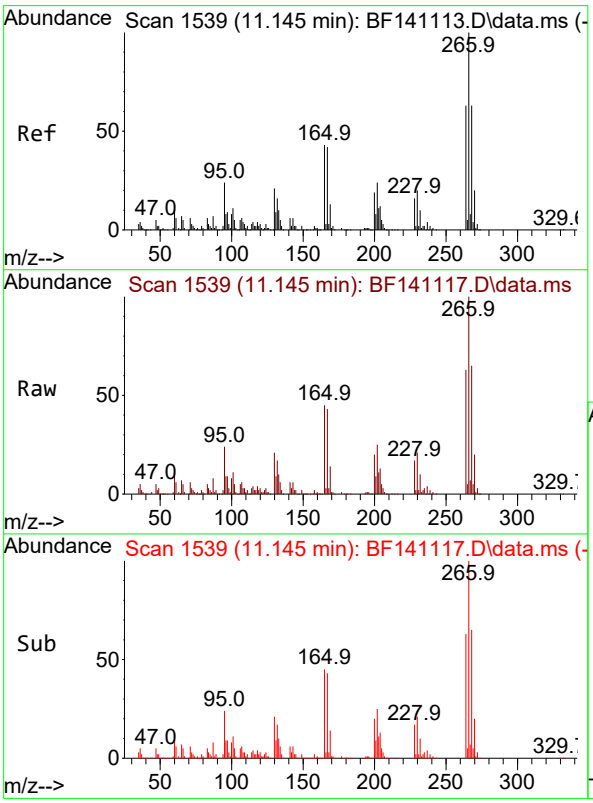
#69
Atrazine
Concen: 52.837 ng
RT: 11.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 272232

Ion	Ratio	Lower	Upper
200	100		
173	26.0	5.4	45.4
215	46.5	26.6	66.6

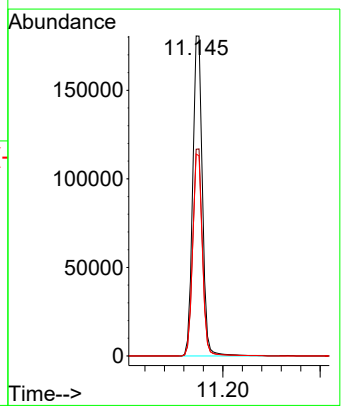


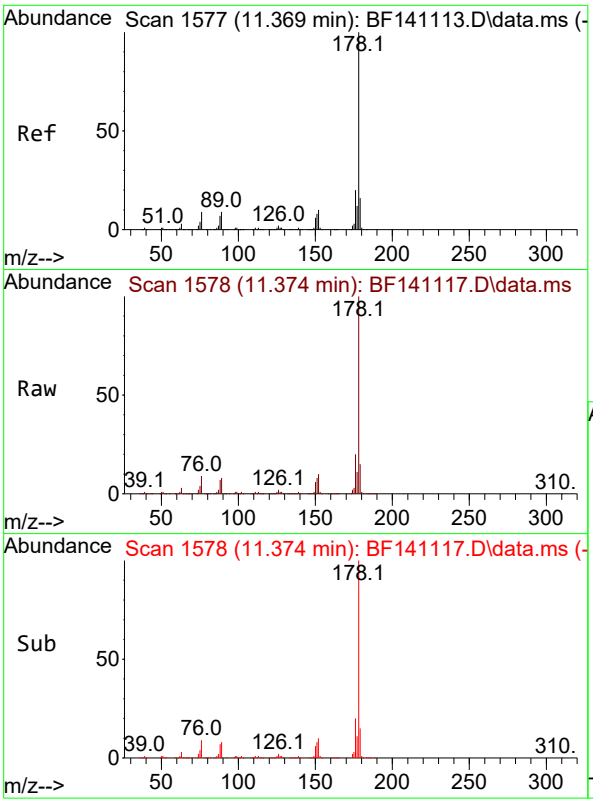


#70
Pentachlorophenol
Concen: 51.422 ng
RT: 11.145 min Scan# 1539
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:266 Resp: 250381

Ion	Ratio	Lower	Upper
266	100		
268	64.6	50.4	75.6
264	63.1	50.2	75.2



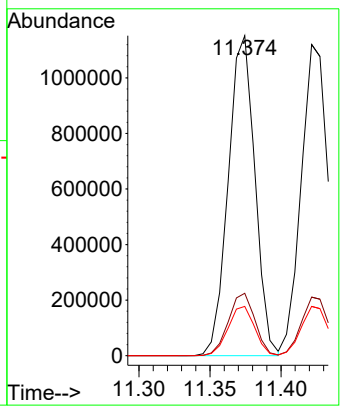


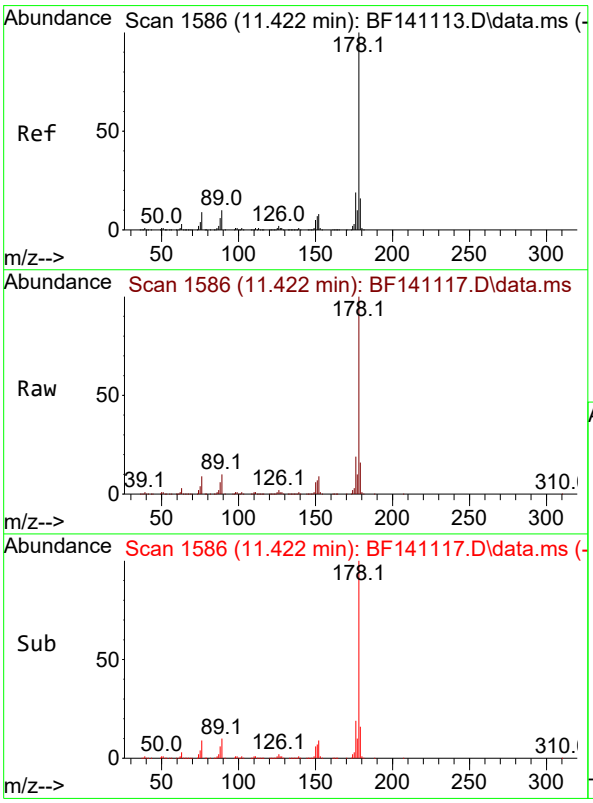
#71
Phenanthrene
Concen: 47.203 ng
RT: 11.374 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 1503408

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.7	23.5
179	15.4	12.6	19.0

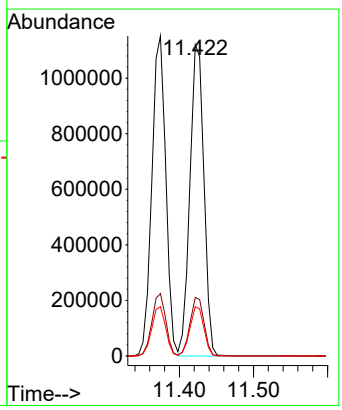


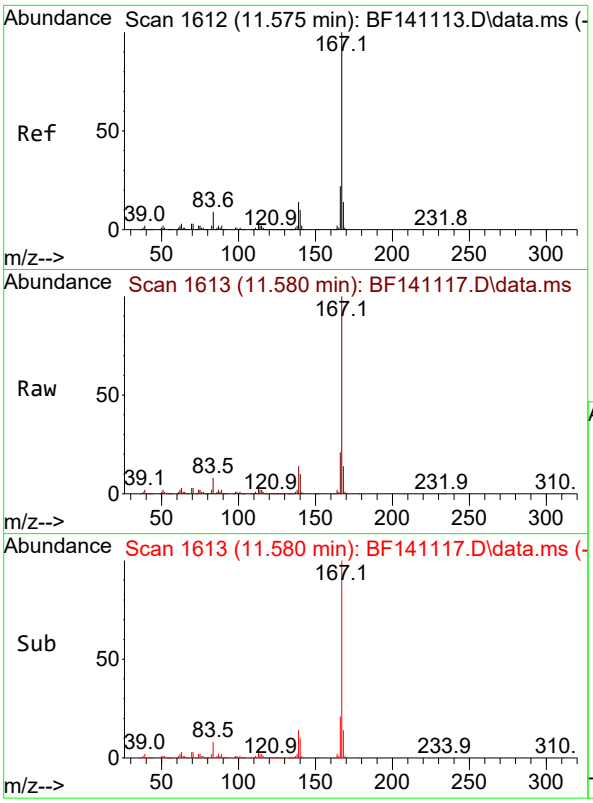


#72
Anthracene
Concen: 47.589 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:178 Resp: 1473797

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.9	12.6	19.0



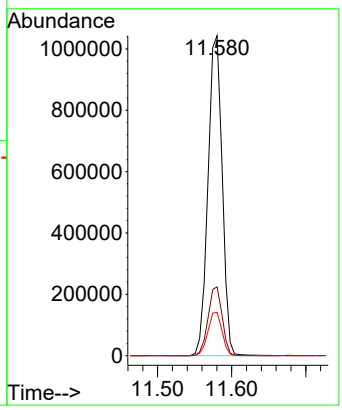


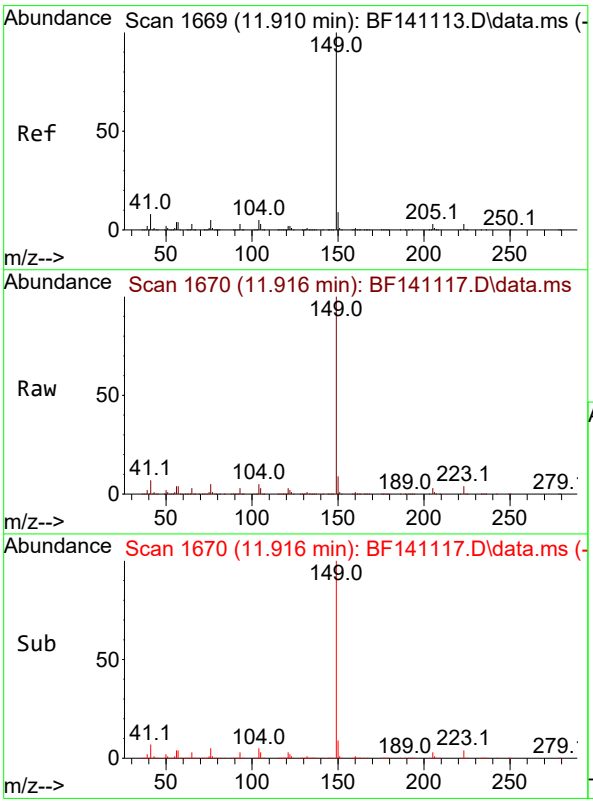
#73
Carbazole
Concen: 48.815 ng
RT: 11.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 1386206

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.4	26.2
139	13.6	10.9	16.3

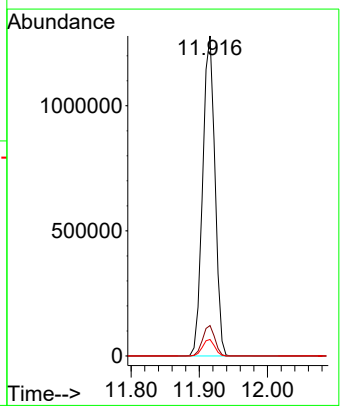


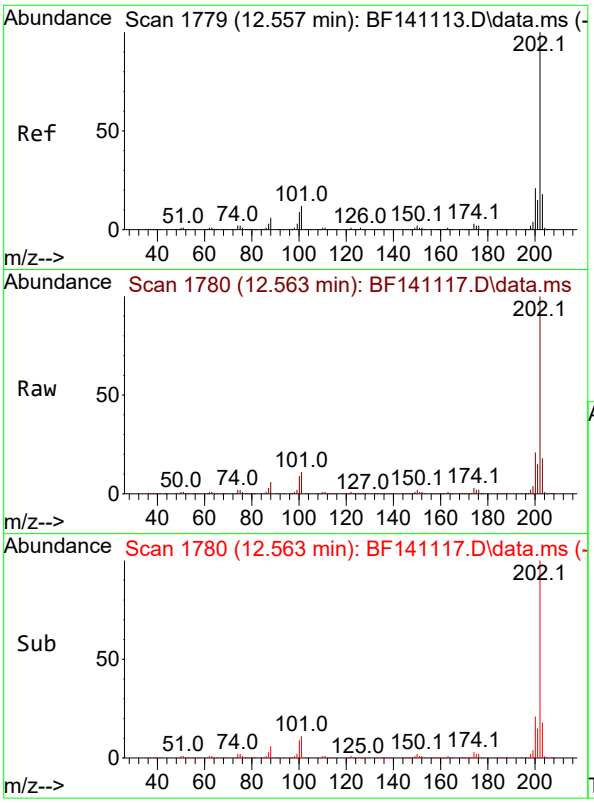


#74
Di-n-butylphthalate
Concen: 49.255 ng
RT: 11.916 min Scan# 1670
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 1600680

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	5.2	4.2	6.2



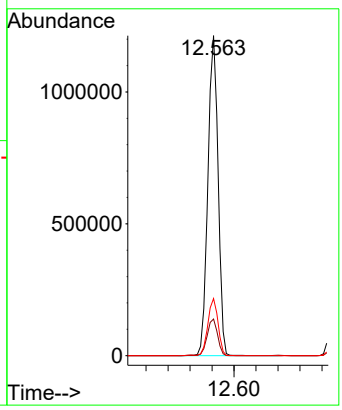


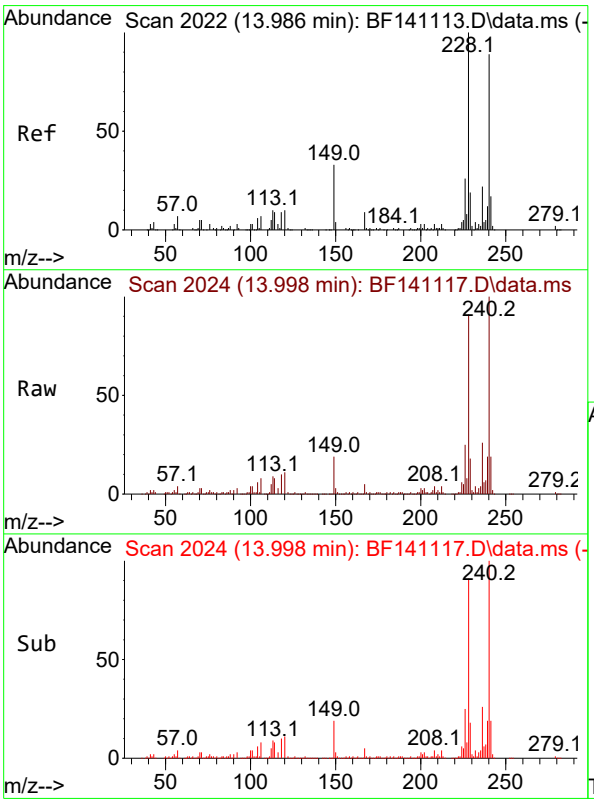
#75
Fluoranthene
Concen: 49.037 ng
RT: 12.563 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 1558556

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.3
203	17.9	0.0	37.7

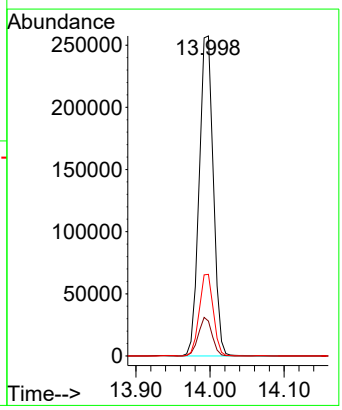


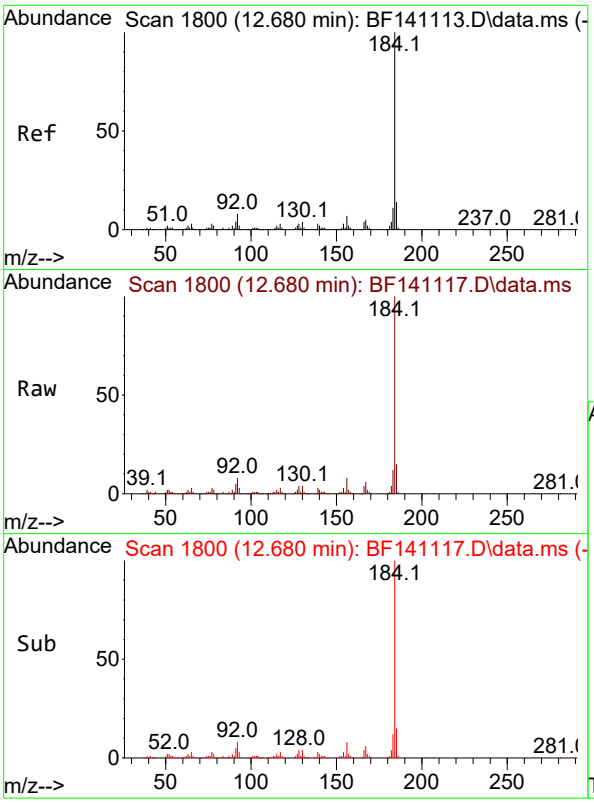


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:240 Resp: 341879

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.1	13.7
236	25.5	19.8	29.6



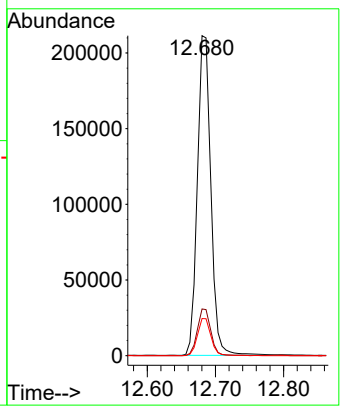


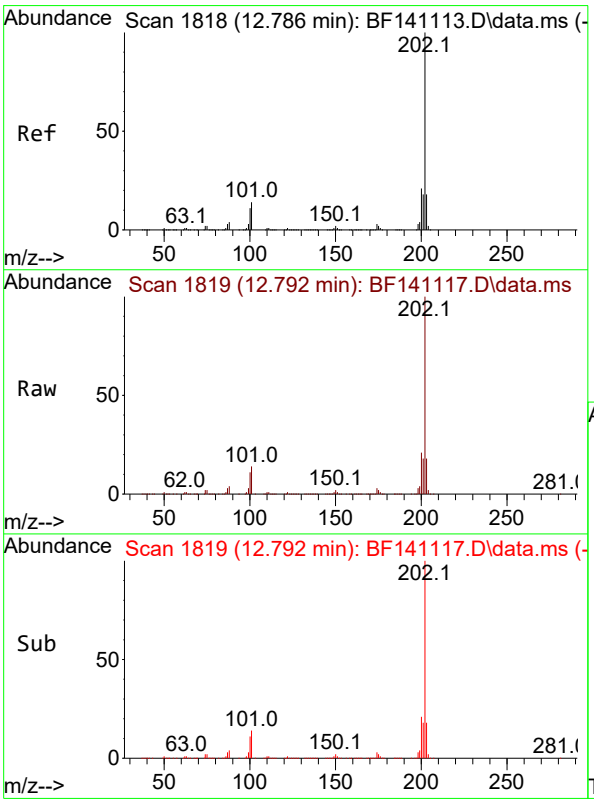
#77
Benzidine
Concen: 45.814 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 290459

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.4	17.0
183	11.6	9.2	13.8

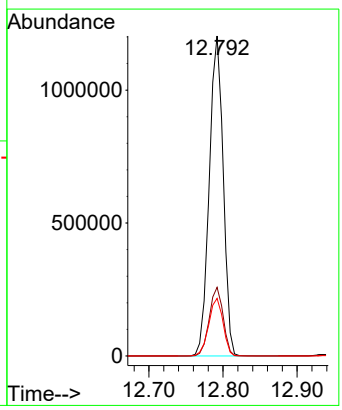


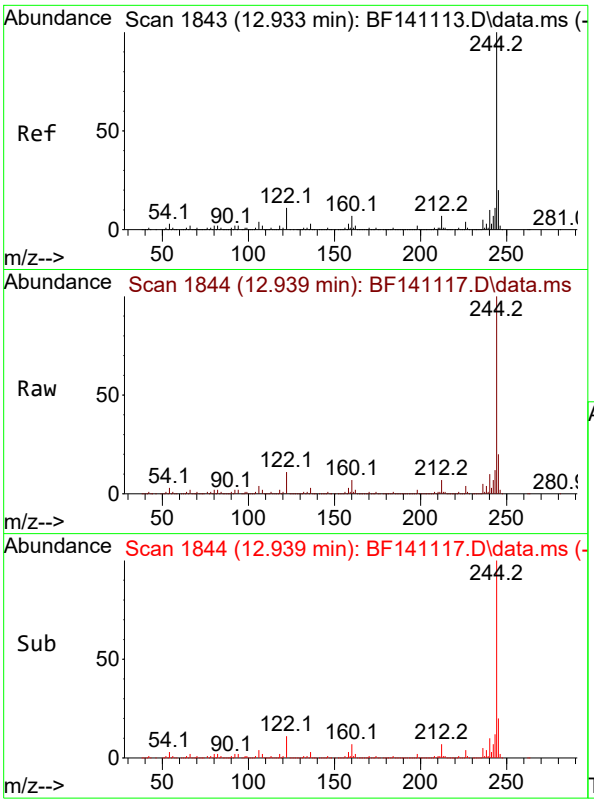


#78
Pyrene
Concen: 48.129 ng
RT: 12.792 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:202 Resp: 1571607

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.8	25.2
203	18.0	14.3	21.5



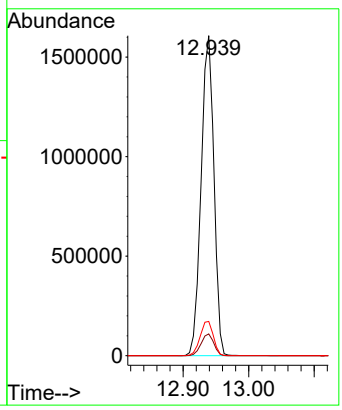


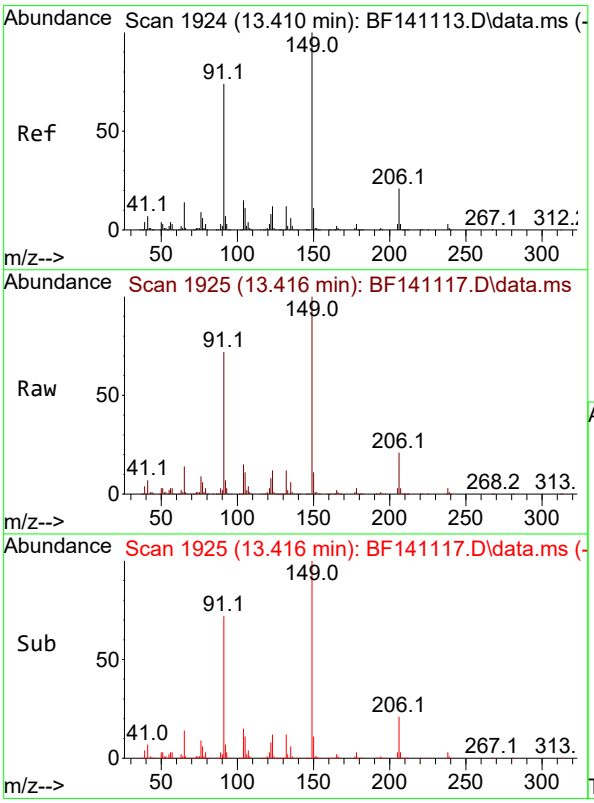
#79
Terphenyl-d14
Concen: 95.134 ng
RT: 12.939 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 2188278

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.7	8.8	13.2

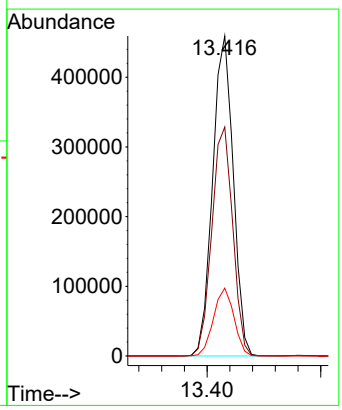


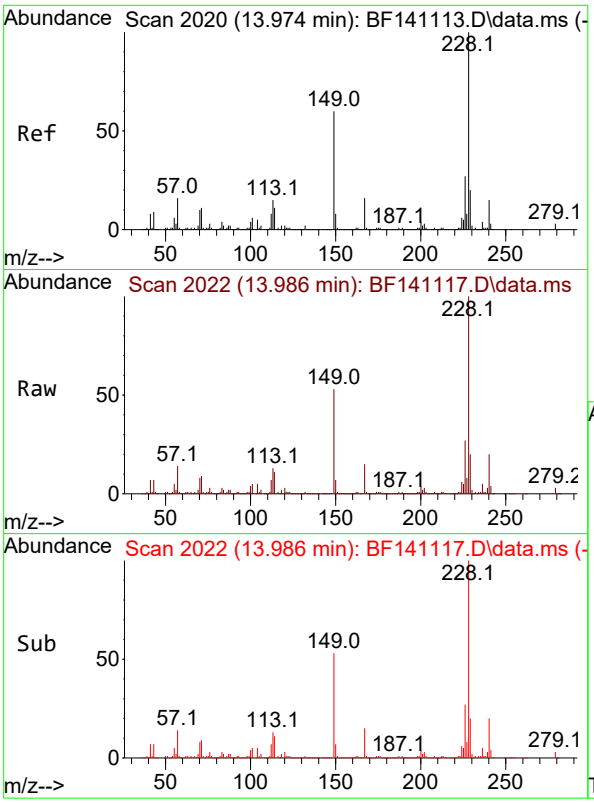


#80
Butylbenzylphthalate
Concen: 53.179 ng
RT: 13.416 min Scan# 1925
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 578964

Ion	Ratio	Lower	Upper
149	100		
91	71.5	59.0	88.6
206	21.2	16.5	24.7



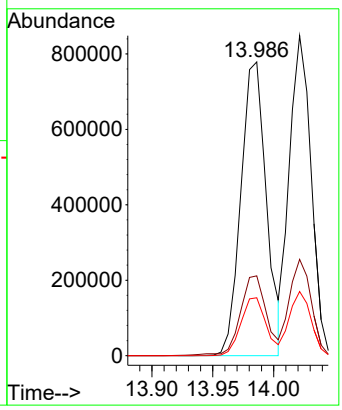


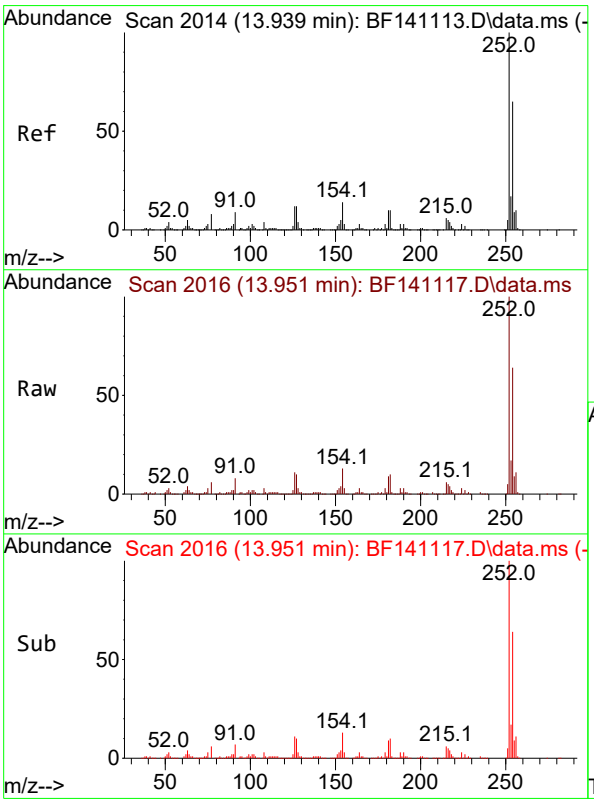
#81
Benzo(a)anthracene
Concen: 48.830 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1136119

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	19.7	15.7	23.5

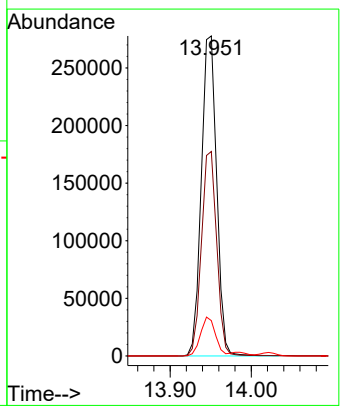


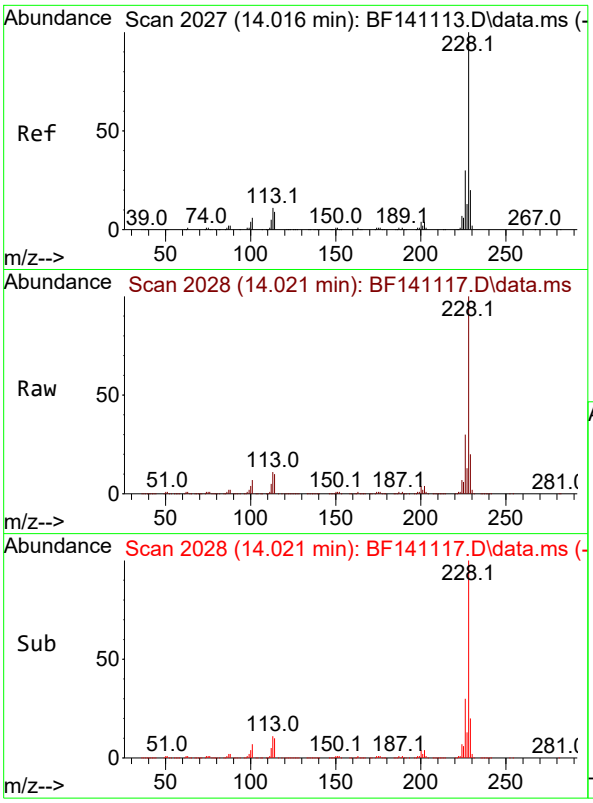


#82
3,3'-Dichlorobenzidine
Concen: 49.156 ng
RT: 13.951 min Scan# 2016
Delta R.T. 0.012 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:252 Resp: 364178

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.0	78.0
126	11.0	9.4	14.0



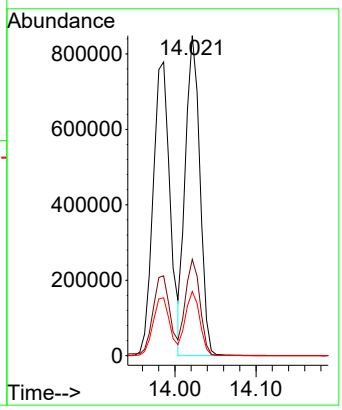


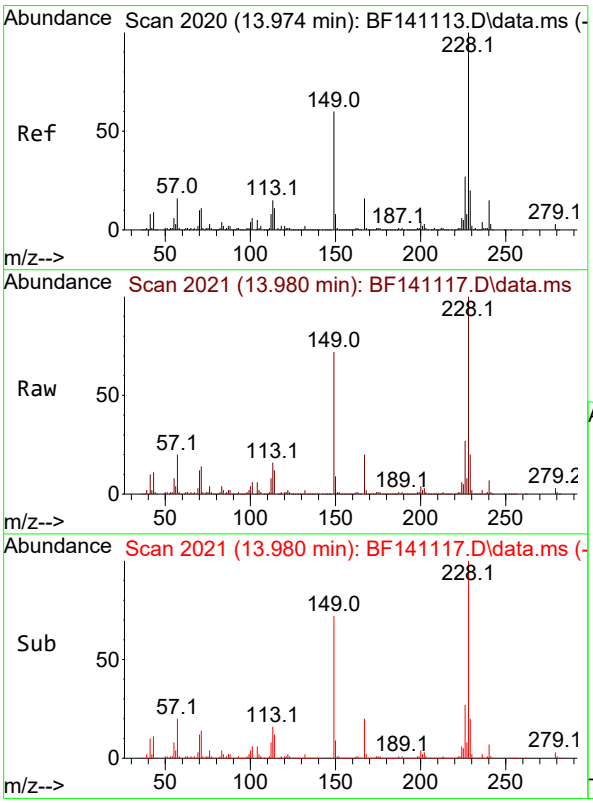
#83
Chrysene
Concen: 48.577 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1057551

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	20.1	15.8	23.8

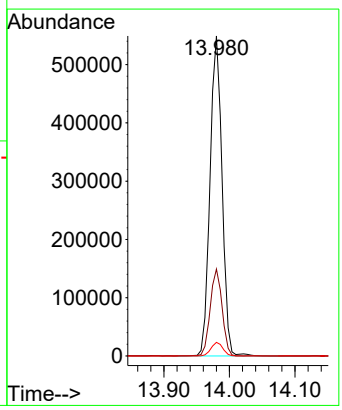


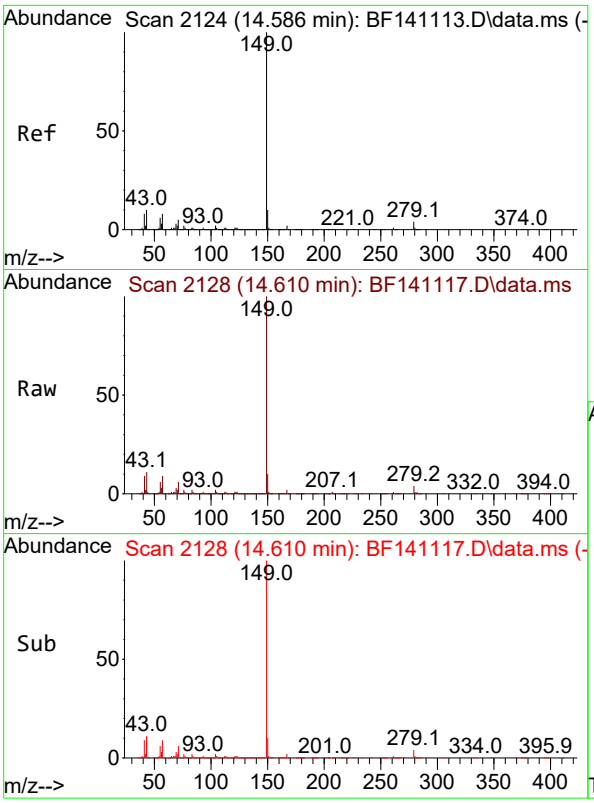


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.591 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:149 Resp: 700052

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.2
279	4.2	3.4	5.2



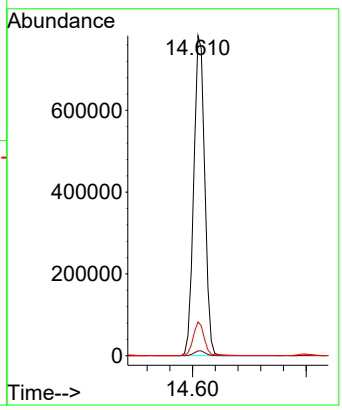


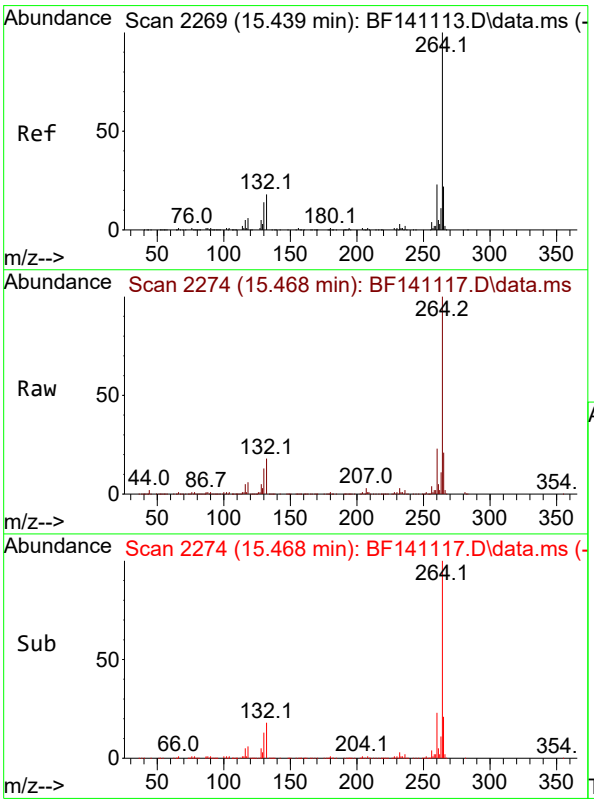
#85
Di-n-octyl phthalate
Concen: 53.503 ng
RT: 14.610 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1055383

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.4	8.4	12.6

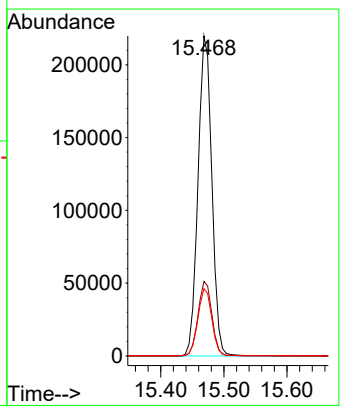


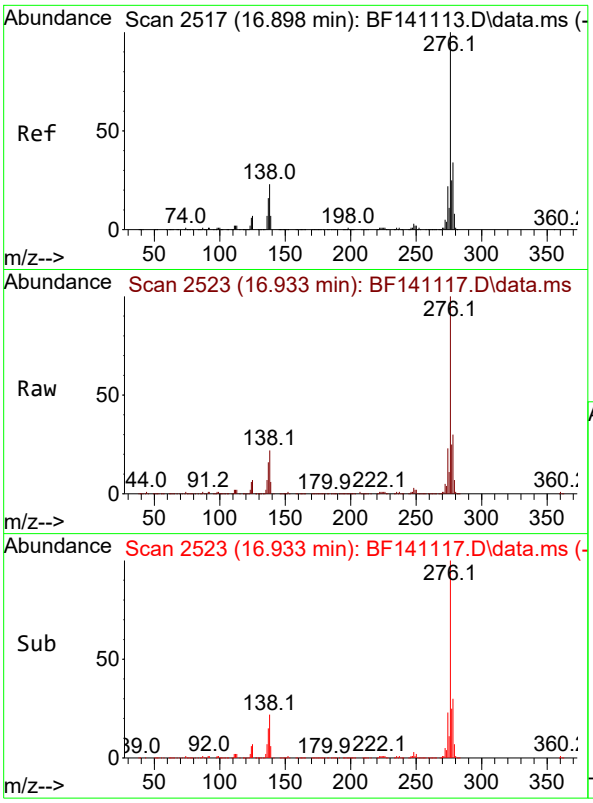


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2274
Delta R.T. 0.029 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:264 Resp: 333662

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.0	17.4	26.0



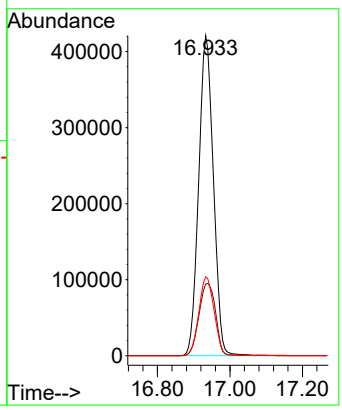


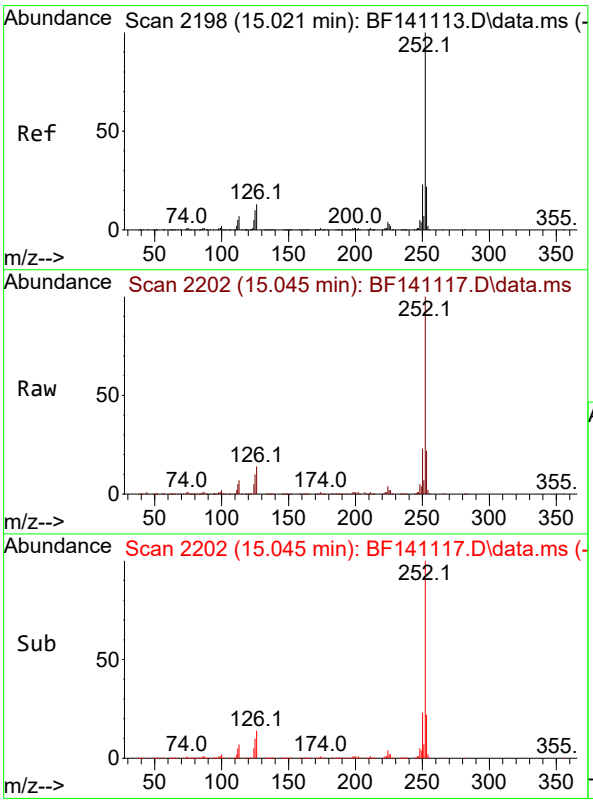
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.477 ng
RT: 16.933 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1185030

Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.7	31.1
277	25.6	20.6	30.8

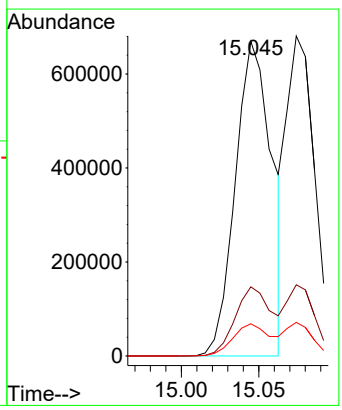


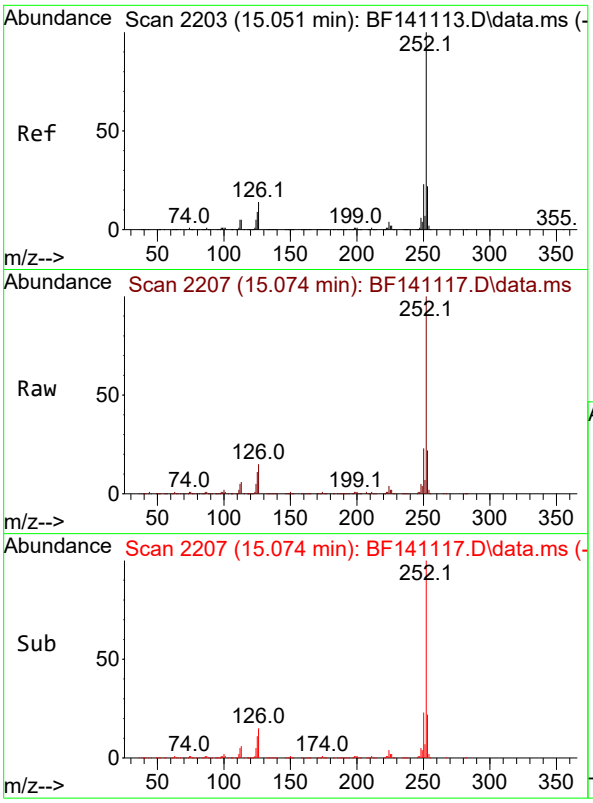


#88
Benzo(b)fluoranthene
Concen: 50.984 ng
RT: 15.045 min Scan# 2202
Delta R.T. 0.023 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:252 Resp: 1096957

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	10.2	8.1	12.1



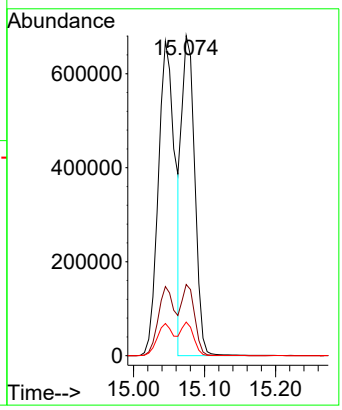


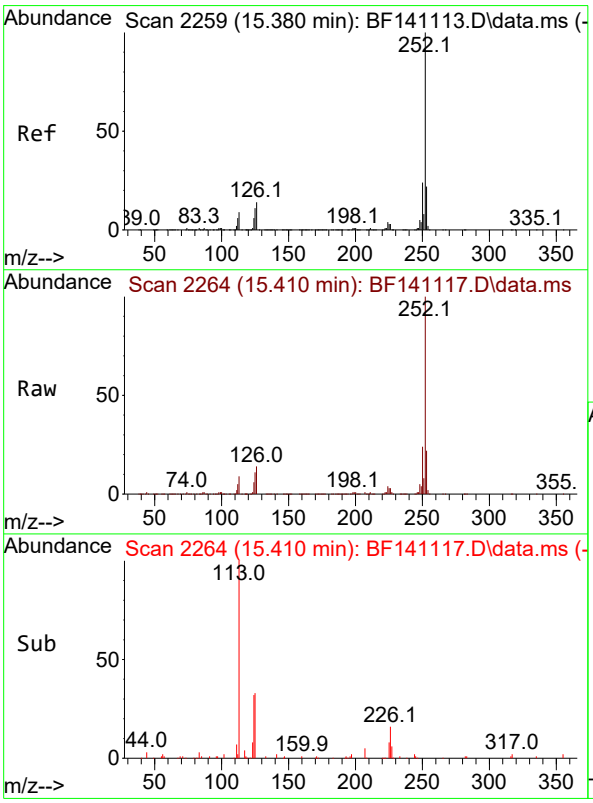
#89
Benzo(k)fluoranthene
Concen: 47.598 ng
RT: 15.074 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 865456

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.5	7.9	11.9

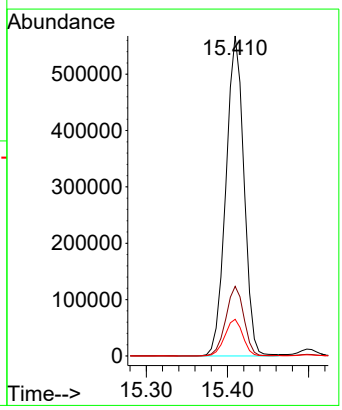


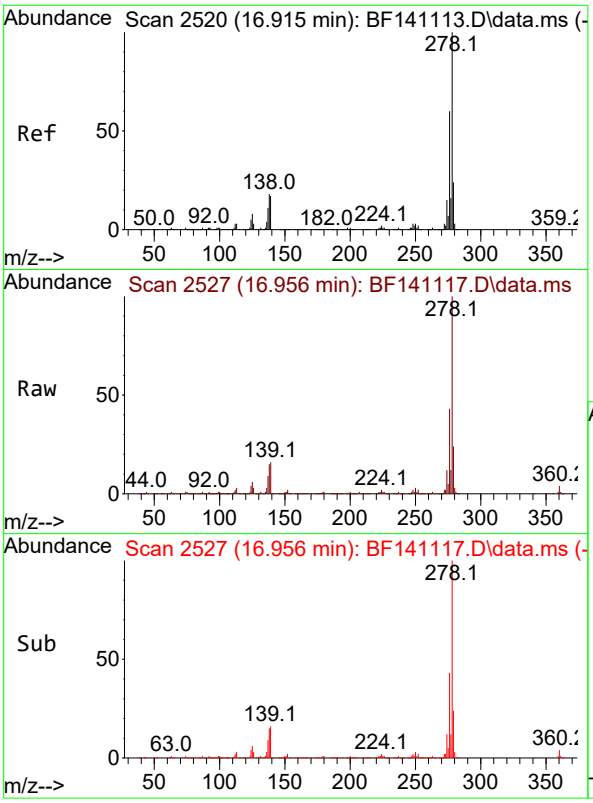


#90
Benzo(a)pyrene
Concen: 49.243 ng
RT: 15.410 min Scan# 2264
Delta R.T. 0.029 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:252 Resp: 874134

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	11.4	9.1	13.7



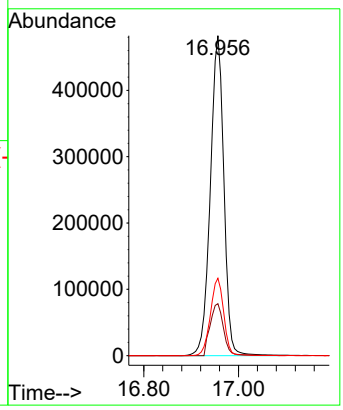


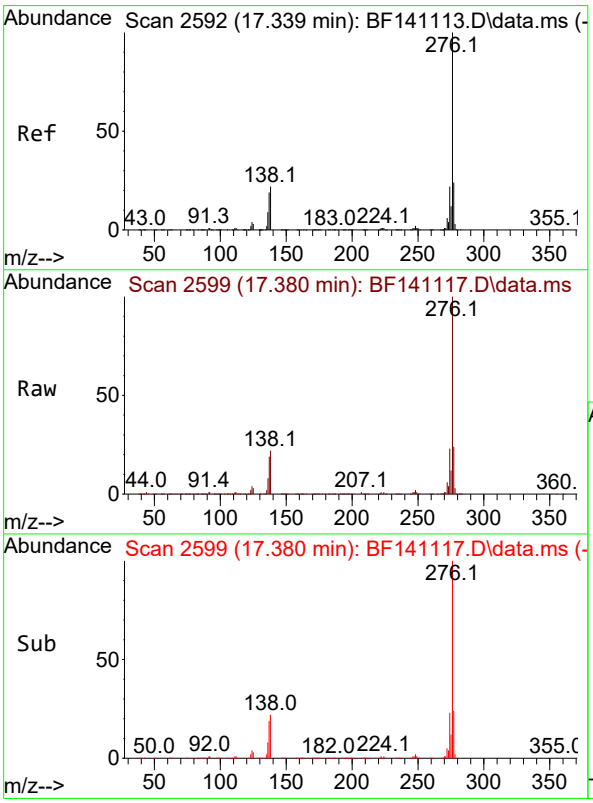
#91
Dibenzo(a,h)anthracene
Concen: 48.535 ng
RT: 16.956 min Scan# 2
Delta R.T. 0.041 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 959595

Ion	Ratio	Lower	Upper
278	100		
139	16.2	13.8	20.6
279	24.2	19.1	28.7

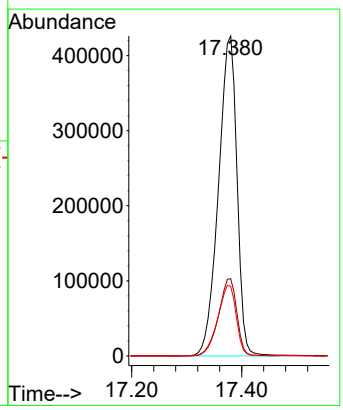




#92
Benzo(g,h,i)perylene
Concen: 48.464 ng
RT: 17.380 min Scan# 2599
Delta R.T. 0.041 min
Lab File: BF141117.D
Acq: 10 Jan 2025 16:53

Tgt Ion:276 Resp: 996659

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.4
138	21.7	17.4	26.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141119.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 10 22:24:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	172282	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	648826	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	342460	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	584387	20.000	ng		0.00
76) Chrysene-d12	13.992	240	310879	20.000	ng		0.00
86) Perylene-d12	15.451	264	395988	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	1544552	138.495	ng		0.00
7) Phenol-d6	6.457	99	2004230	141.874	ng		0.01
23) Nitrobenzene-d5	7.392	82	1813409	148.154	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	601438	154.132	ng		0.00
45) 2-Fluorobiphenyl	9.186	172	2997639	133.666	ng		0.00
79) Terphenyl-d14	12.933	244	2895506	138.433	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	361586	72.808	ng		100
3) Pyridine	3.287	79	855609	70.255	ng		99
4) n-Nitrosodimethylamine	3.252	42	443709	74.512	ng		99
6) Aniline	6.487	93	497802	39.689	ng	#	80
8) 2-Chlorophenol	6.610	128	844417	70.573	ng		99
9) Benzaldehyde	6.375	77	446857	56.624	ng		98
10) Phenol	6.469	94	1067075	70.563	ng		93
11) bis(2-Chloroethyl)ether	6.563	93	811905	72.042	ng		98
12) 1,3-Dichlorobenzene	6.763	146	945224	70.831	ng		99
13) 1,4-Dichlorobenzene	6.840	146	944179	70.211	ng		99
14) 1,2-Dichlorobenzene	6.998	146	854029	68.083	ng		98
15) Benzyl Alcohol	6.969	79	722113	70.781	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.098	45	1129914	71.848	ng		98
17) 2-Methylphenol	7.075	107	707657	73.257	ng		99
18) Hexachloroethane	7.334	117	349146	71.795	ng		98
19) n-Nitroso-di-n-propyla...	7.245	70	588783	70.753	ng		98
20) 3+4-Methylphenols	7.234	107	813265	66.732	ng	#	83
22) Acetophenone	7.239	105	1083059	70.218	ng	#	98
24) Nitrobenzene	7.410	77	943483	73.960	ng		99
25) Isophorone	7.651	82	1571424	75.124	ng		99
26) 2-Nitrophenol	7.722	139	463267	79.834	ng		98
27) 2,4-Dimethylphenol	7.757	122	594544	75.959	ng		98
28) bis(2-Chloroethoxy)met...	7.857	93	977334	74.449	ng		100
29) 2,4-Dichlorophenol	7.963	162	689420	74.162	ng		100
30) 1,2,4-Trichlorobenzene	8.045	180	776721	73.098	ng		100
31) Naphthalene	8.128	128	2411578	70.480	ng		99
32) Benzoic acid	7.898	122	648810	86.411	ng		98
33) 4-Chloroaniline	8.187	127	860135	72.688	ng		100
34) Hexachlorobutadiene	8.245	225	467194	72.969	ng		99
35) Caprolactam	8.569	113	236127	77.436	ng		98
36) 4-Chloro-3-methylphenol	8.657	107	760692	74.822	ng		99
37) 2-Methylnaphthalene	8.816	142	1544153	70.820	ng		99
38) 1-Methylnaphthalene	8.916	142	1507881	70.172	ng		99
40) 1,2,4,5-Tetrachloroben...	8.986	216	712407	72.478	ng		100
41) Hexachlorocyclopentadiene	8.969	237	249944	77.724	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	516551	77.920	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141119.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 10 22:24:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration

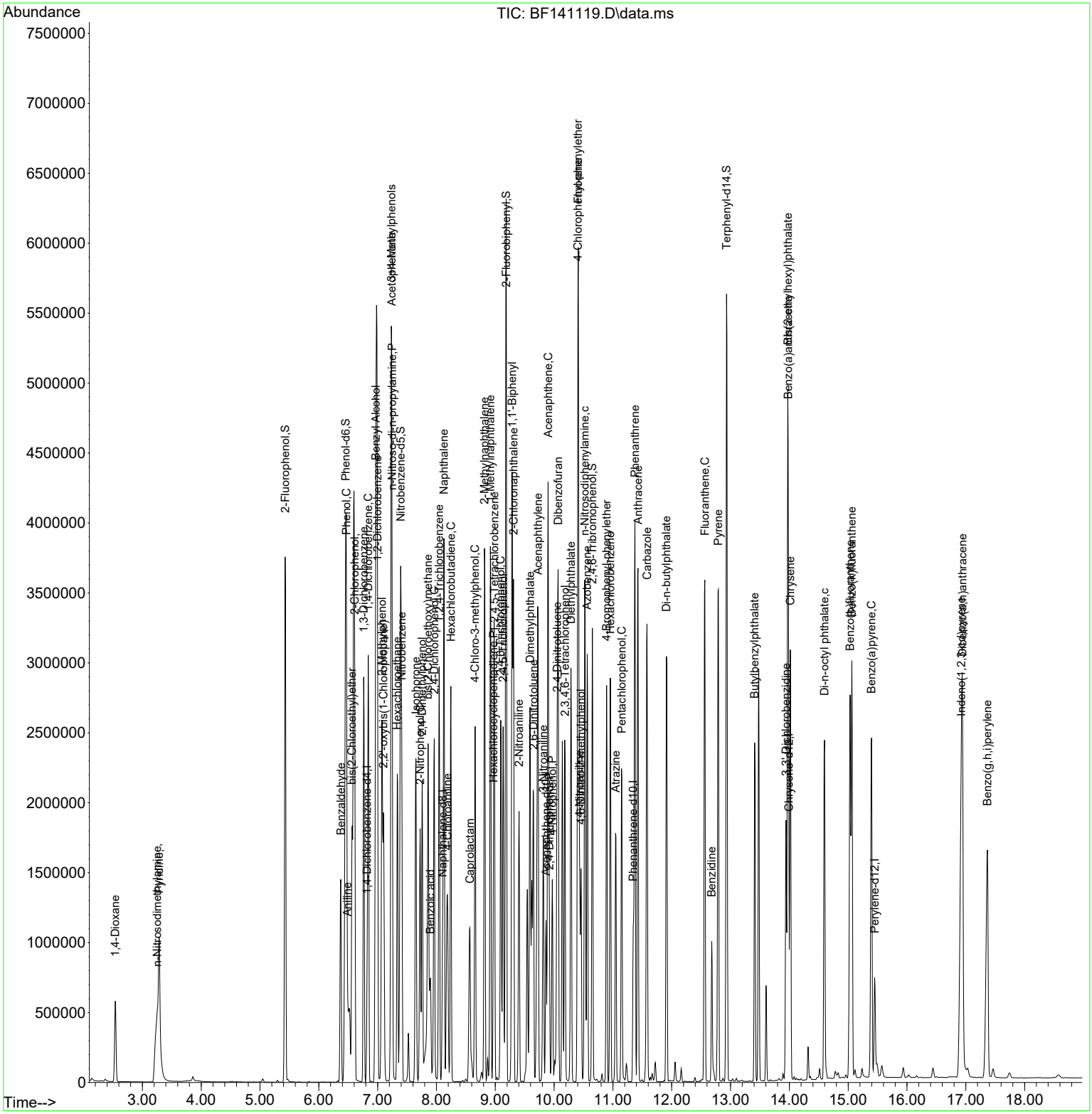
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	516966	73.839	ng	99
46) 1,1'-Biphenyl	9.286	154	1854615	69.734	ng	99
47) 2-Chloronaphthalene	9.310	162	1478014	71.352	ng	99
48) 2-Nitroaniline	9.404	65	475269	77.400	ng	98
49) Acenaphthylene	9.728	152	2110029	71.297	ng	99
50) Dimethylphthalate	9.592	163	1688321	73.435	ng	100
51) 2,6-Dinitrotoluene	9.651	165	403325	75.439	ng	98
52) Acenaphthene	9.898	154	1487806	71.956	ng	99
53) 3-Nitroaniline	9.816	138	404031	74.366	ng	100
54) 2,4-Dinitrophenol	9.922	184	233623	91.933	ng	96
55) Dibenzofuran	10.069	168	1972541	70.137	ng	99
56) 4-Nitrophenol	9.969	139	339082	79.690	ng	98
57) 2,4-Dinitrotoluene	10.051	165	533647	77.452	ng	98
58) Fluorene	10.410	166	1493903	68.372	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.186	232	428499	73.631	ng	99
60) Diethylphthalate	10.286	149	1624226	72.366	ng	99
61) 4-Chlorophenyl-phenyle...	10.404	204	739051	69.400	ng	98
62) 4-Nitroaniline	10.433	138	404093	75.992	ng	97
63) Azobenzene	10.563	77	1597886	72.150	ng	99
65) 4,6-Dinitro-2-methylph...	10.457	198	299726	88.510	ng	98
66) n-Nitrosodiphenylamine	10.522	169	1340718	71.129	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	502690	74.715	ng	100
68) Hexachlorobenzene	10.957	284	557705	74.464	ng	100
69) Atrazine	11.051	200	322778	63.598	ng	100
70) Pentachlorophenol	11.151	266	373762	77.927	ng	99
71) Phenanthrene	11.375	178	2186474	69.691	ng	100
72) Anthracene	11.427	178	2122167	69.565	ng	99
73) Carbazole	11.580	167	1946776	69.597	ng	99
74) Di-n-butylphthalate	11.910	149	2240405	69.986	ng	99
75) Fluoranthene	12.563	202	2156966	68.895	ng	99
77) Benzidine	12.680	184	535121	92.821	ng	99
78) Pyrene	12.792	202	2138910	72.034	ng	99
80) Butylbenzylphthalate	13.410	149	775127	78.297	ng	99
81) Benzo(a)anthracene	13.980	228	1574387	74.414	ng	99
82) 3,3'-Dichlorobenzidine	13.945	252	557682	82.781	ng	100
83) Chrysene	14.016	228	1492065	75.370	ng	99
84) Bis(2-ethylhexyl)phtha...	13.974	149	885991	74.589	ng	99
85) Di-n-octyl phthalate	14.598	149	1604851	89.471	ng	100
87) Indeno(1,2,3-cd)pyrene	16.921	276	2176761	75.032	ng	100
88) Benzo(b)fluoranthene	15.033	252	1830448	71.685	ng	100
89) Benzo(k)fluoranthene	15.063	252	1701343	78.843	ng	99
90) Benzo(a)pyrene	15.398	252	1594959	75.707	ng	100
91) Dibenzo(a,h)anthracene	16.945	278	1723136	73.436	ng	99
92) Benzo(g,h,i)perylene	17.368	276	1664293	68.190	ng	99

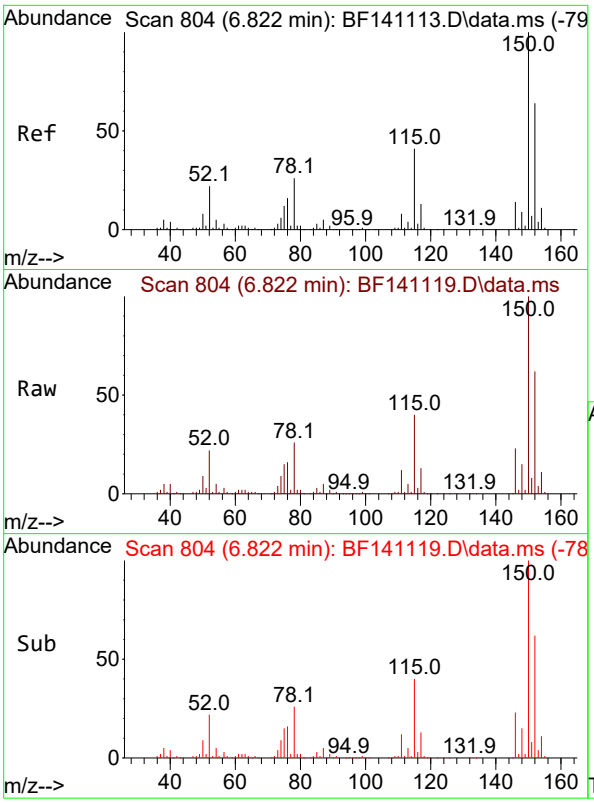
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011025\
Data File : BF141119.D
Acq On : 10 Jan 2025 17:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 10 22:24:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:16:11 2025
Response via : Initial Calibration



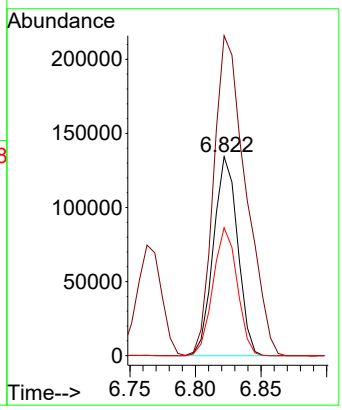


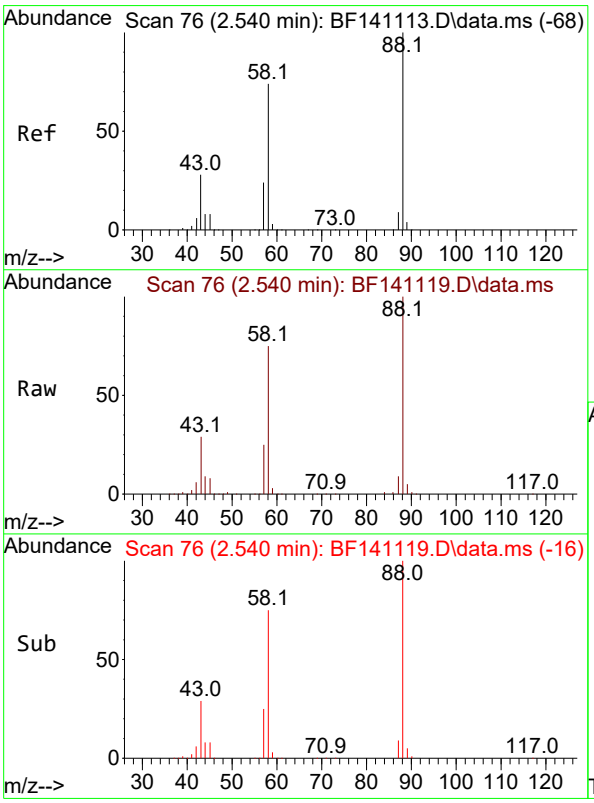
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 172282

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.8	188.8
115	64.3	51.4	77.2

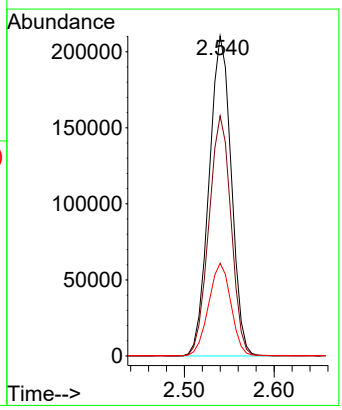


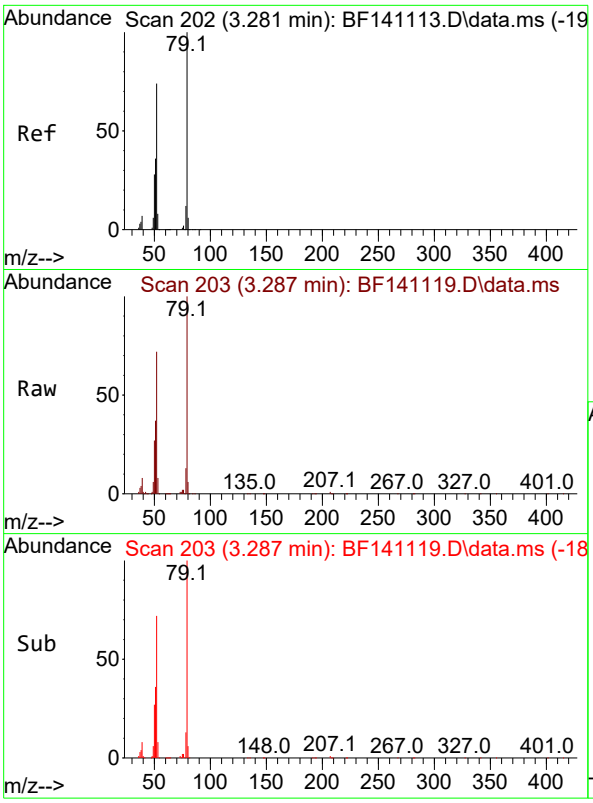


#2
1,4-Dioxane
Concen: 72.808 ng
RT: 2.540 min Scan# 76
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 88 Resp: 361586

Ion	Ratio	Lower	Upper
88	100		
58	74.8	60.1	90.1
43	29.1	23.1	34.7



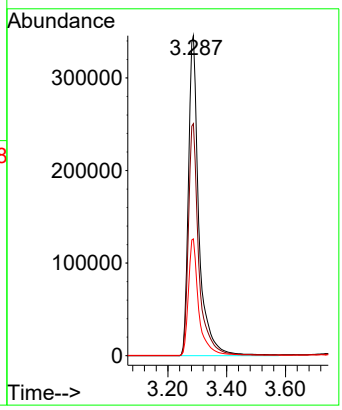


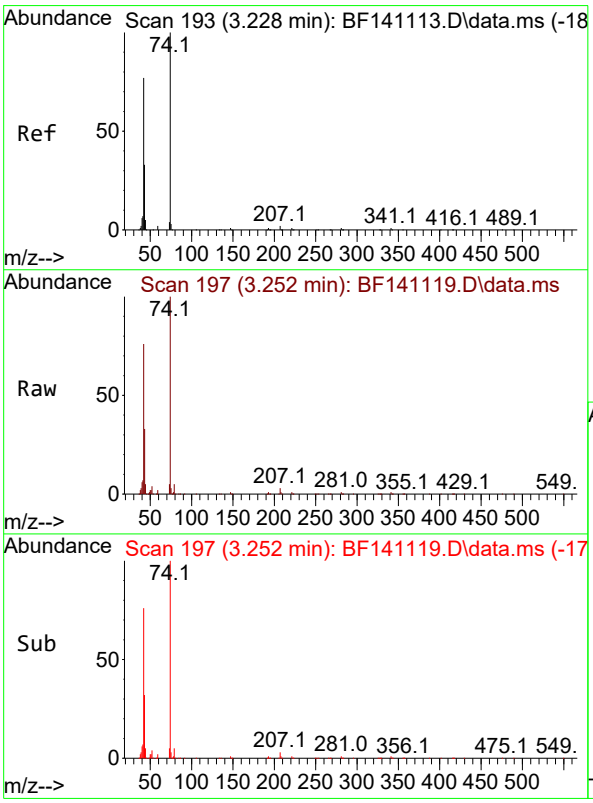
#3
Pyridine
Concen: 70.255 ng
RT: 3.287 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 855609

Ion	Ratio	Lower	Upper
79	100		
52	72.5	58.9	88.3
51	36.5	29.1	43.7

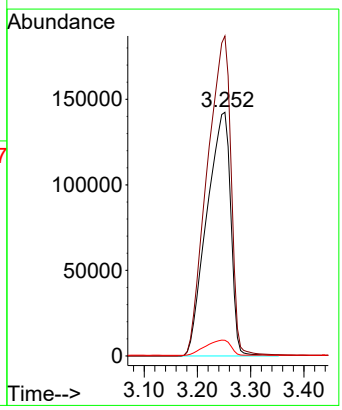


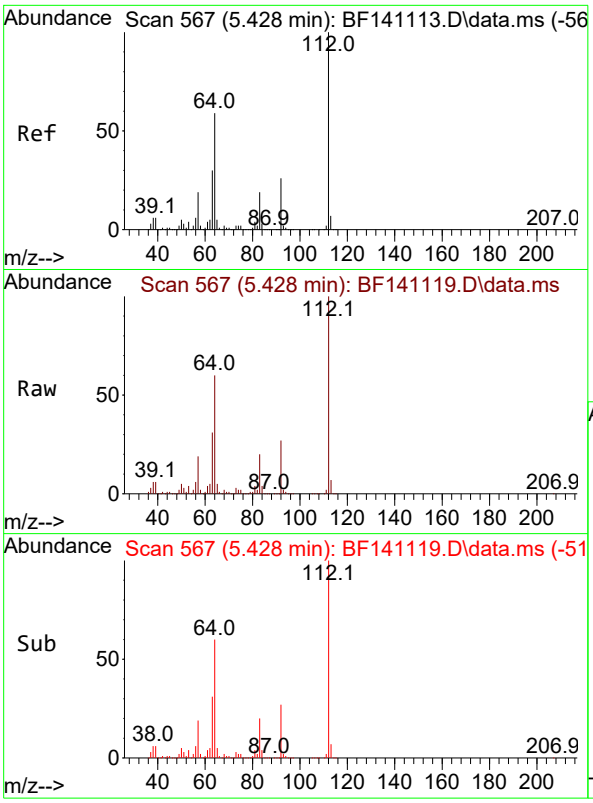


#4
n-Nitrosodimethylamine
Concen: 74.512 ng
RT: 3.252 min Scan# 197
Delta R.T. 0.024 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 42 Resp: 443709

Ion	Ratio	Lower	Upper
42	100		
74	131.3	103.8	155.6
44	6.4	5.3	7.9



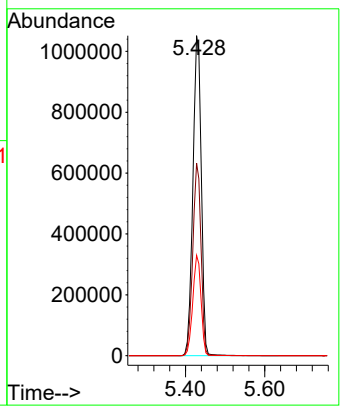


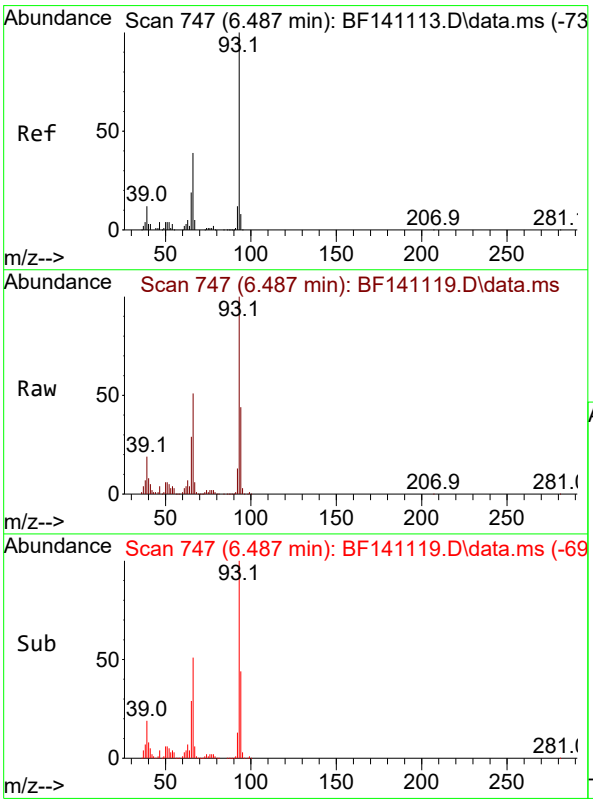
#5
2-Fluorophenol
Concen: 138.495 ng
RT: 5.428 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 1544552

Ion	Ratio	Lower	Upper
112	100		
64	60.2	47.3	70.9
63	31.3	24.2	36.2

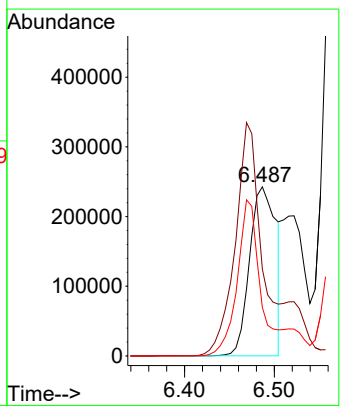


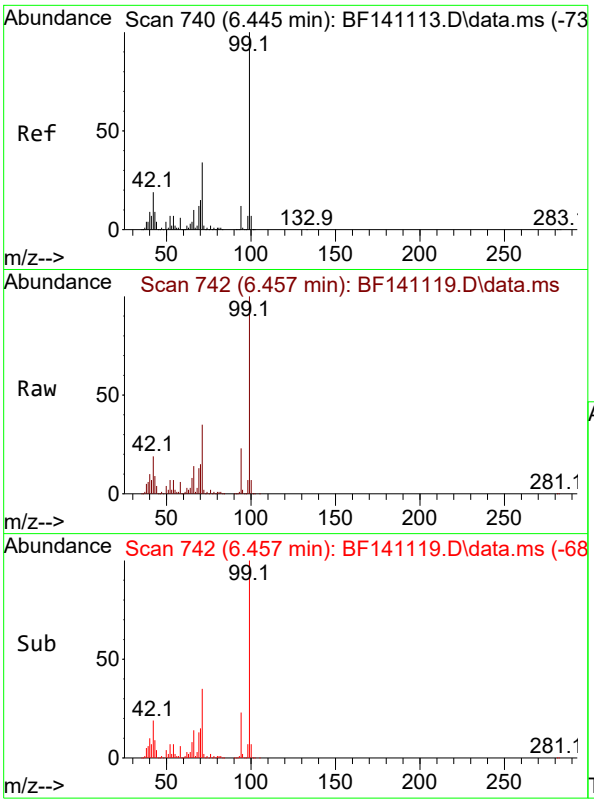


#6
Aniline
Concen: 39.689 ng
RT: 6.487 min Scan# 747
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 93 Resp: 497802

Ion	Ratio	Lower	Upper
93	100		
66	51.4	31.5	47.3#
65	28.7	15.3	22.9#



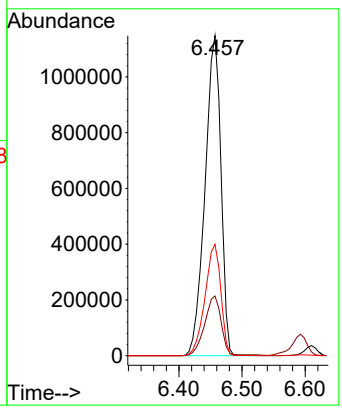


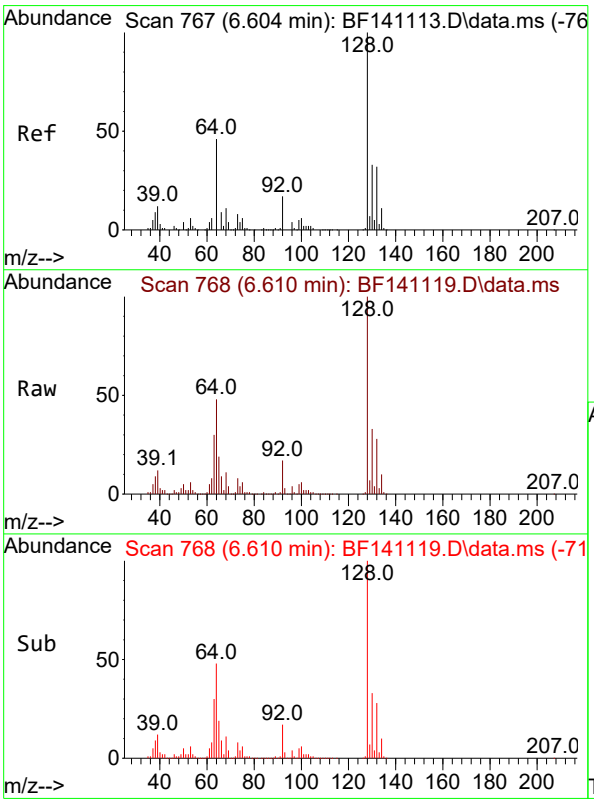
#7
Phenol-d6
Concen: 141.874 ng
RT: 6.457 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 2004230

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.0	22.4
71	34.8	27.6	41.4

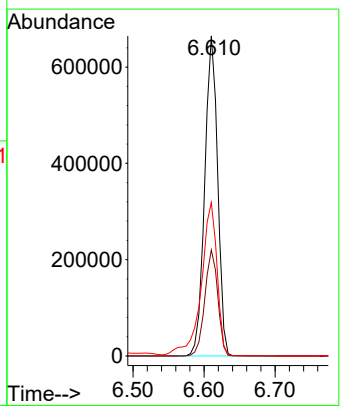


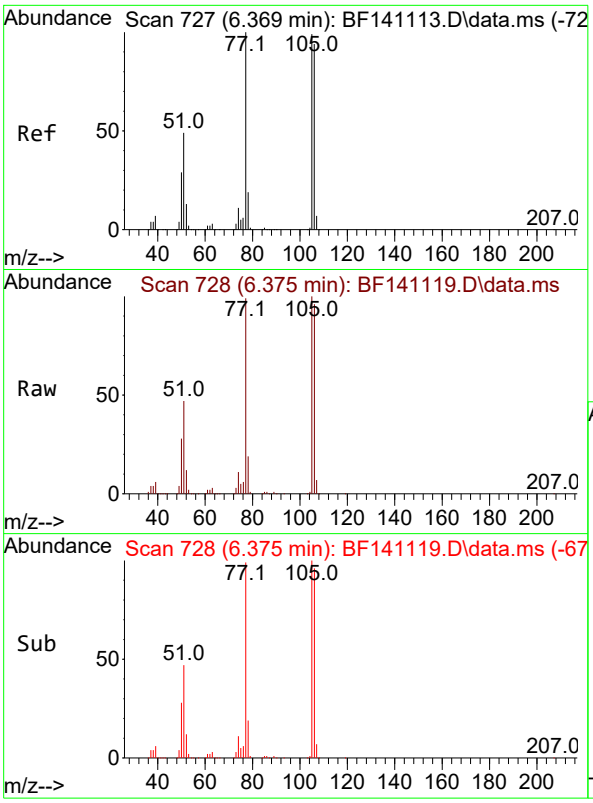


#8
2-Chlorophenol
Concen: 70.573 ng
RT: 6.610 min Scan# 768
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:128 Resp: 844417

Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.5	52.5
64	48.0	28.3	68.3



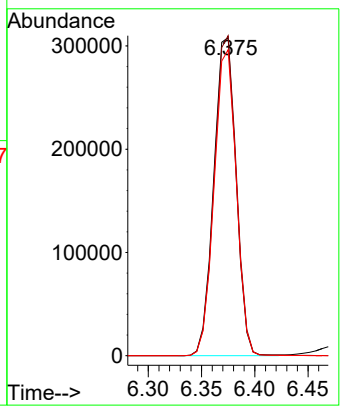


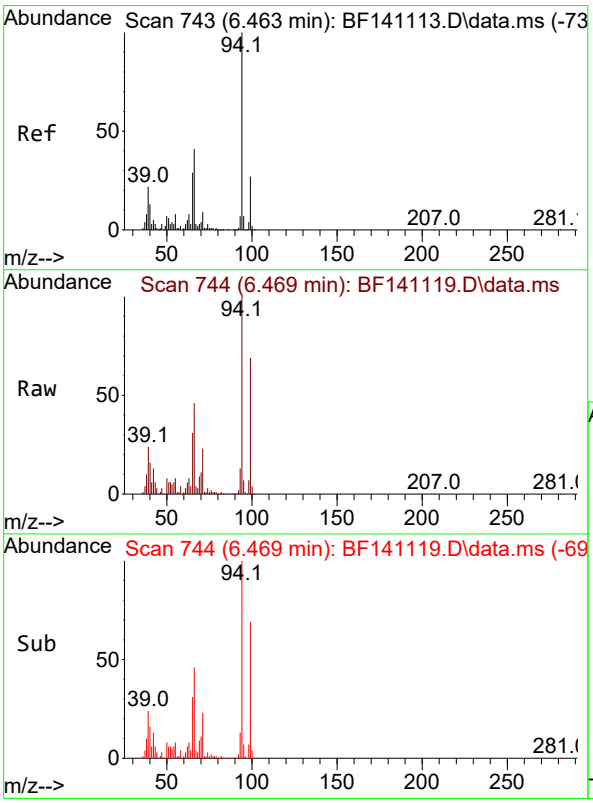
#9
Benzaldehyde
Concen: 56.624 ng
RT: 6.375 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 446857

Ion	Ratio	Lower	Upper
77	100		
105	100.6	78.9	118.9
106	96.2	73.6	113.6

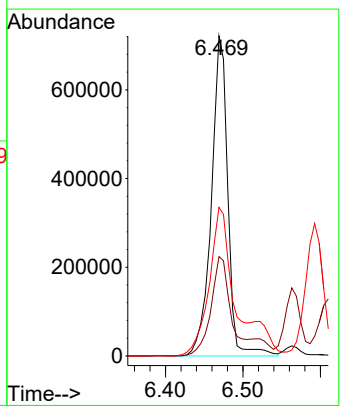


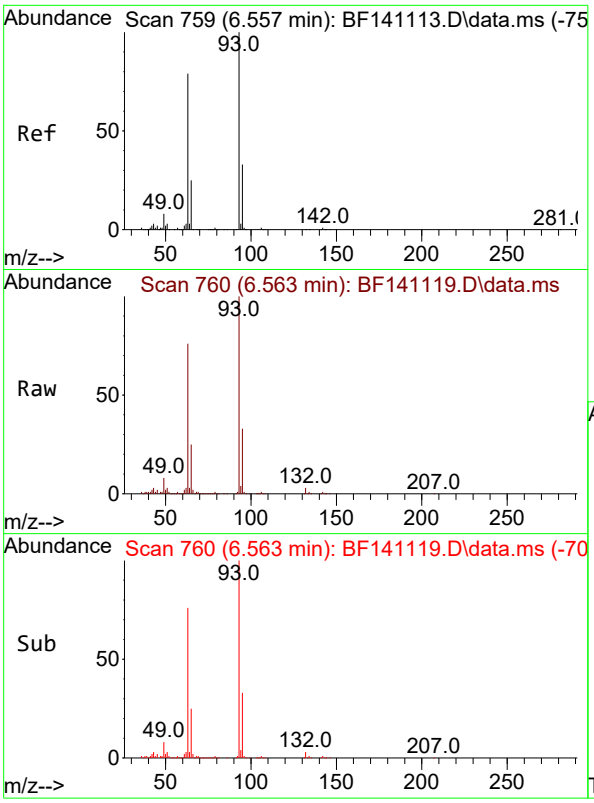


#10
Phenol
Concen: 70.563 ng
RT: 6.469 min Scan# 744
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 94 Resp: 1067075

Ion	Ratio	Lower	Upper
94	100		
65	31.1	8.9	48.9
66	46.4	21.2	61.2



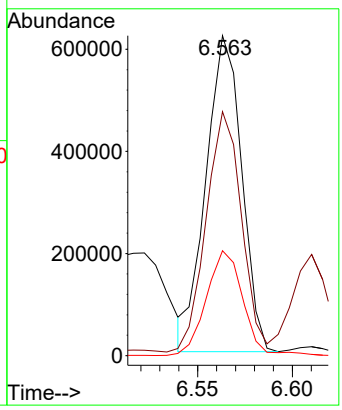


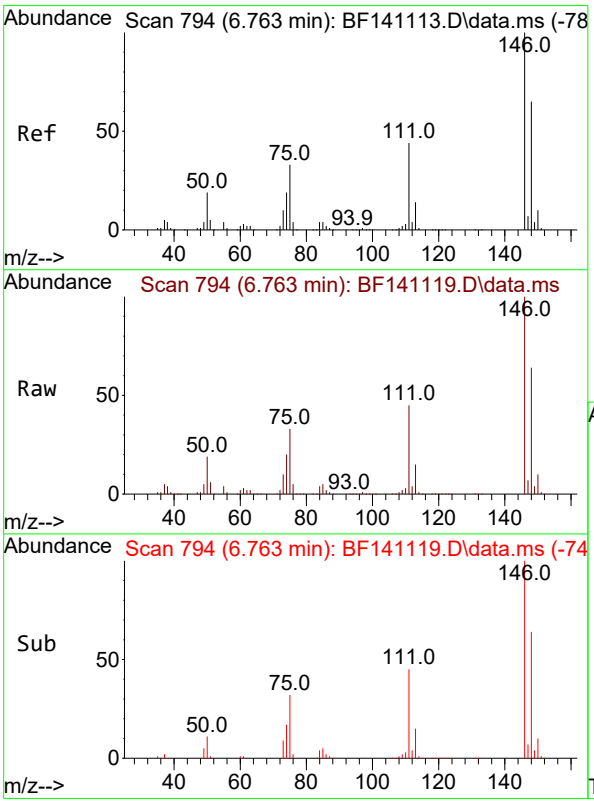
#11
bis(2-Chloroethyl)ether
Concen: 72.042 ng
RT: 6.563 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 811905

Ion	Ratio	Lower	Upper
93	100		
63	76.2	58.0	98.0
95	32.8	12.5	52.5

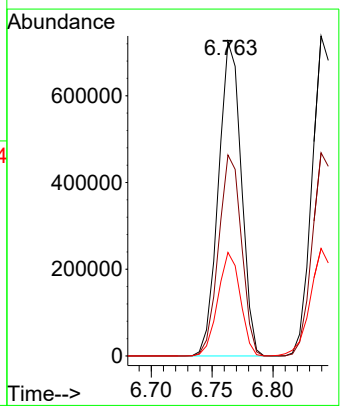


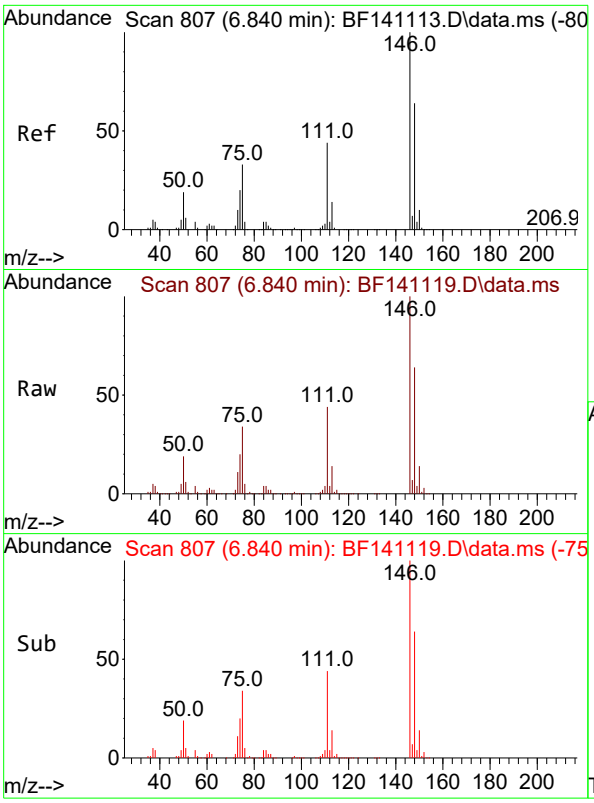


#12
1,3-Dichlorobenzene
Concen: 70.831 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:146 Resp: 945224

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
75	33.0	26.2	39.2



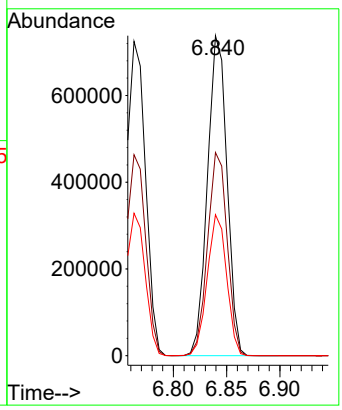


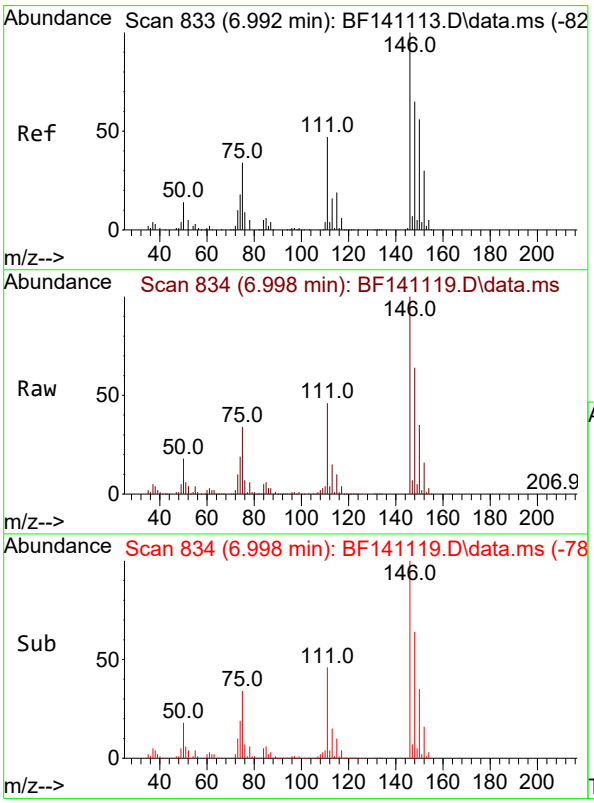
#13
1,4-Dichlorobenzene
Concen: 70.211 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 944179

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	44.1	34.9	52.3

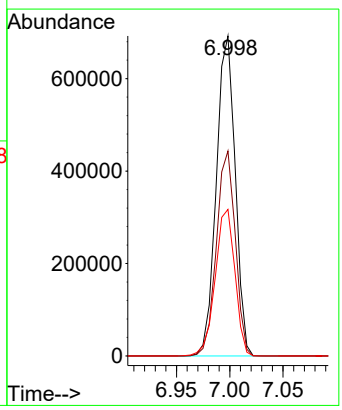


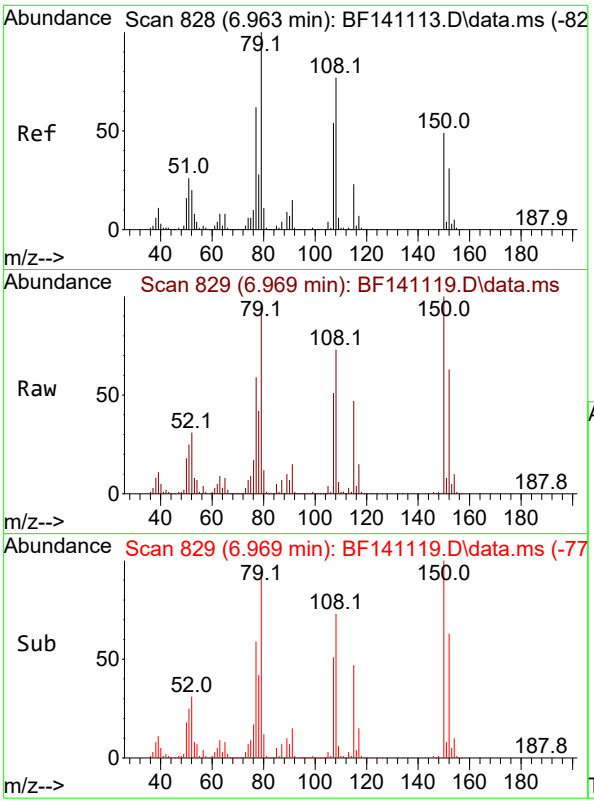


#14
1,2-Dichlorobenzene
Concen: 68.083 ng
RT: 6.998 min Scan# 834
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:146 Resp: 854029

Ion	Ratio	Lower	Upper
146	100		
148	64.0	52.2	78.4
111	45.8	37.5	56.3



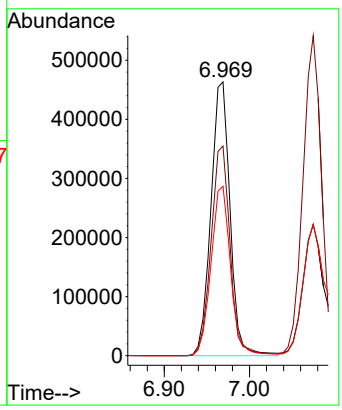


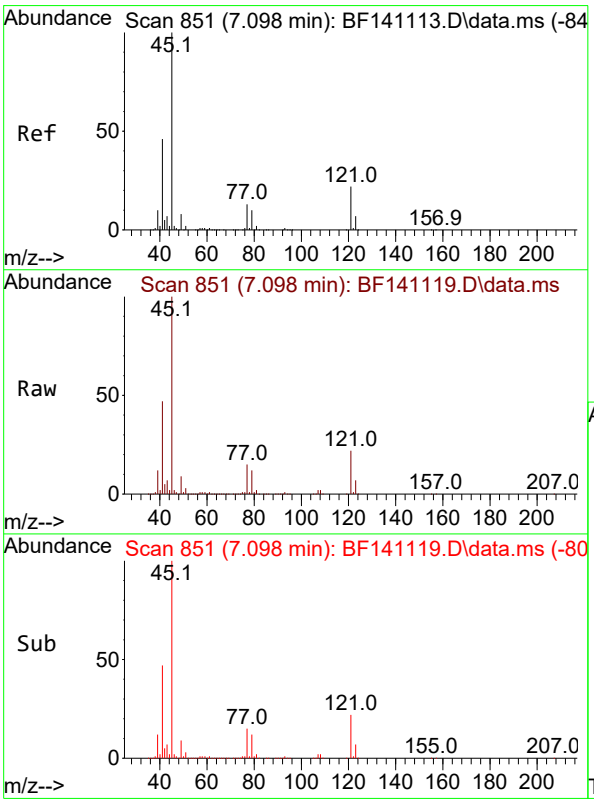
#15
Benzyl Alcohol
Concen: 70.781 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 722113

Ion	Ratio	Lower	Upper
79	100		
108	76.6	61.4	92.0
77	61.9	49.8	74.6

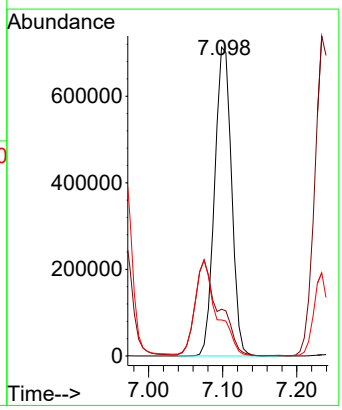


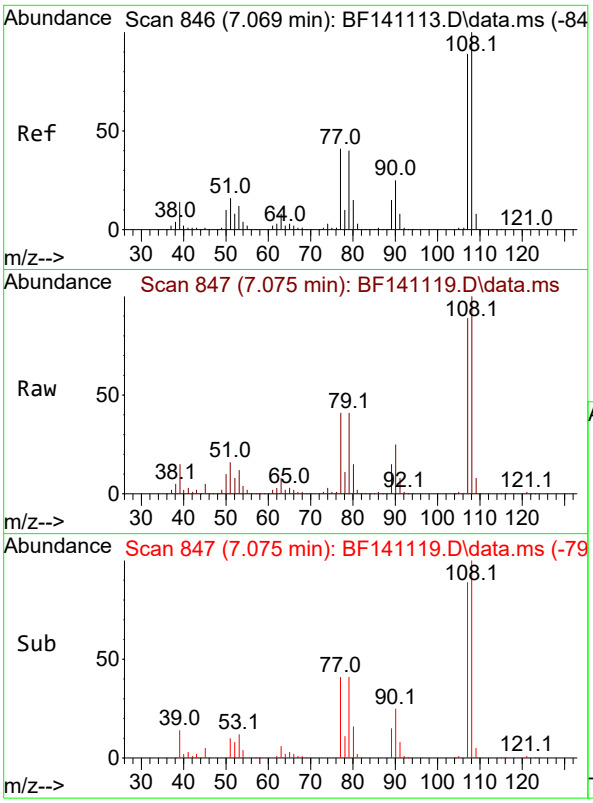


#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.848 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 45 Resp: 1129914

Ion	Ratio	Lower	Upper
45	100		
77	15.1	0.0	34.1
79	11.7	0.0	31.0



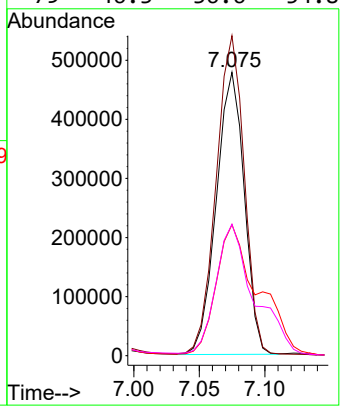


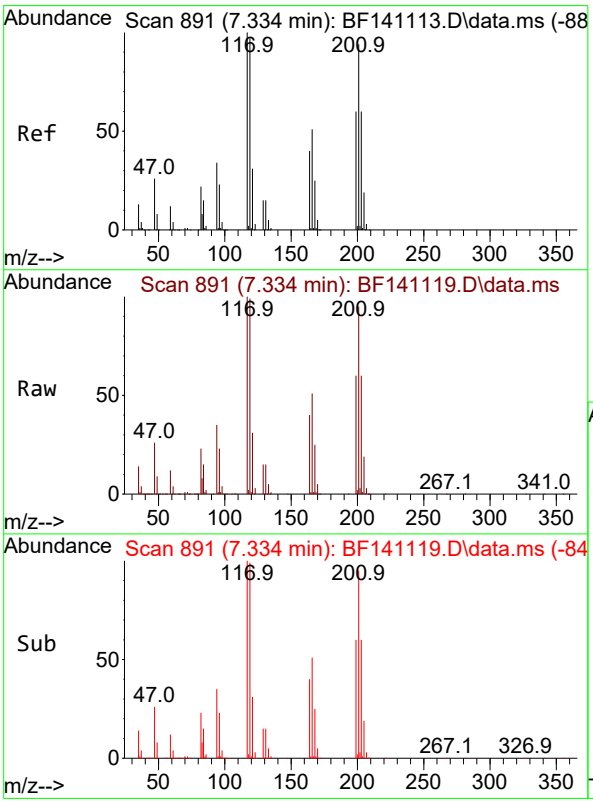
#17
2-Methylphenol
Concen: 73.257 ng
RT: 7.075 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 707657

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.1	135.1
77	46.2	36.6	55.0
79	46.3	36.6	54.8

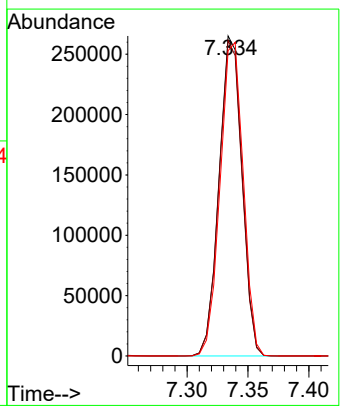


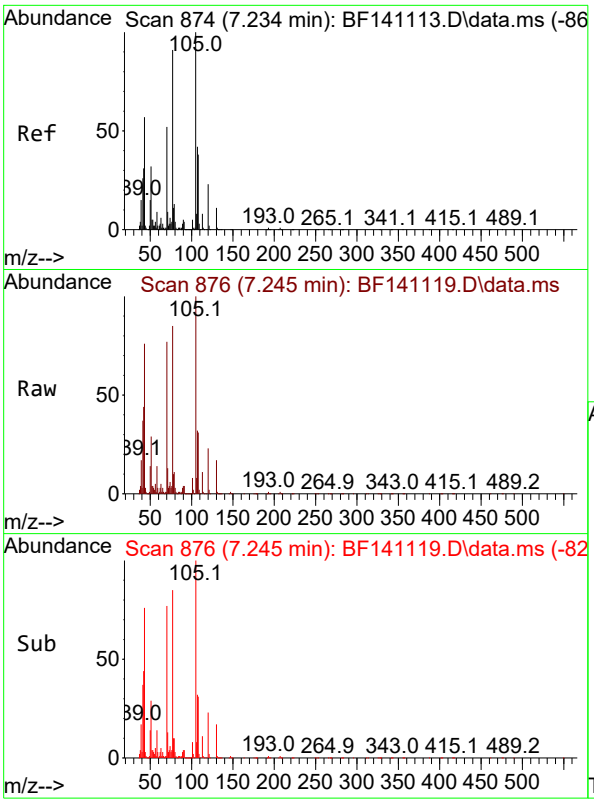


#18
Hexachloroethane
Concen: 71.795 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:117 Resp: 349146

Ion	Ratio	Lower	Upper
117	100		
119	98.6	77.6	116.4
201	95.4	75.1	112.7



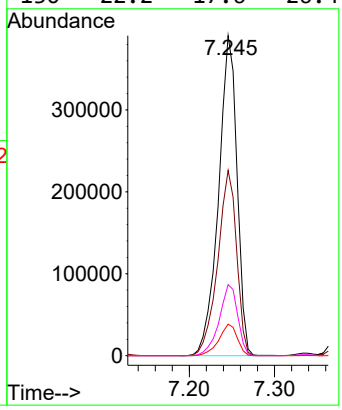


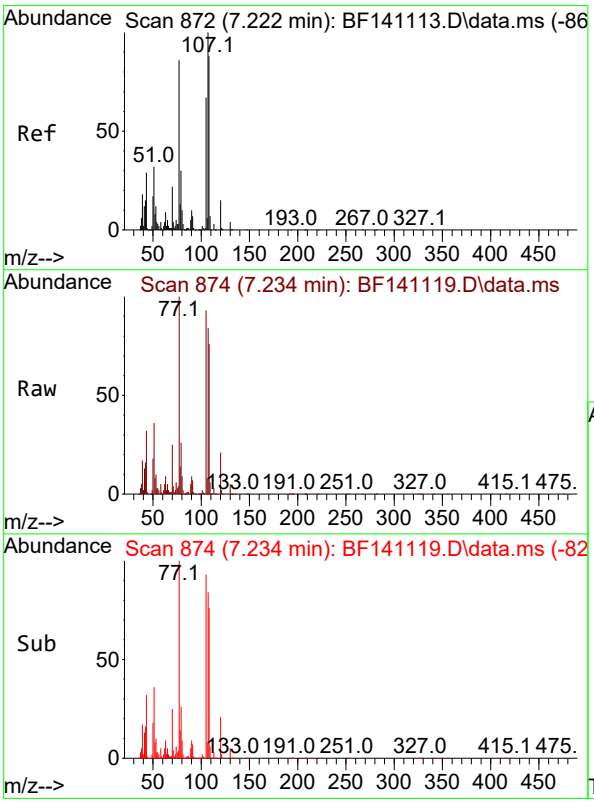
#19
n-Nitroso-di-n-propylamine
Concen: 70.753 ng
RT: 7.245 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 588783

Ion	Ratio	Lower	Upper
70	100		
42	57.9	47.8	71.6
101	9.8	7.9	11.9
130	22.2	17.6	26.4

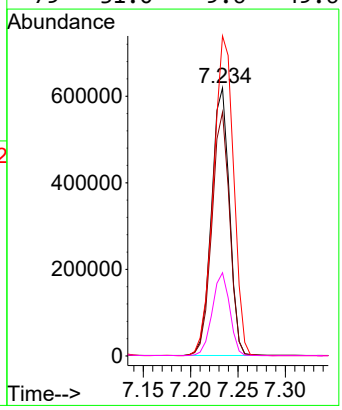


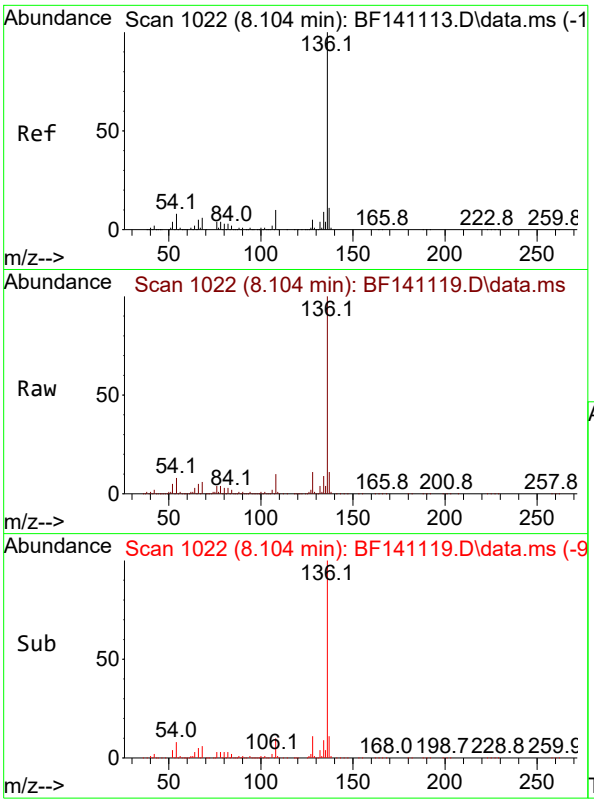


#20
3+4-Methylphenols
Concen: 66.732 ng
RT: 7.234 min Scan# 874
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:107 Resp: 813265

Ion	Ratio	Lower	Upper
107	100		
108	90.9	68.3	108.3
77	119.4	66.4	106.4#
79	31.0	9.6	49.6



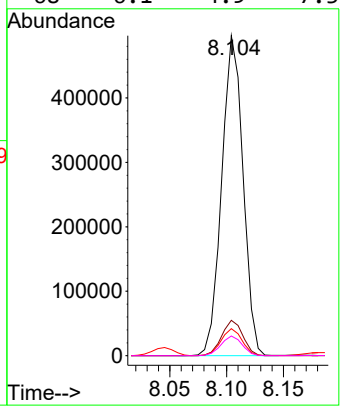


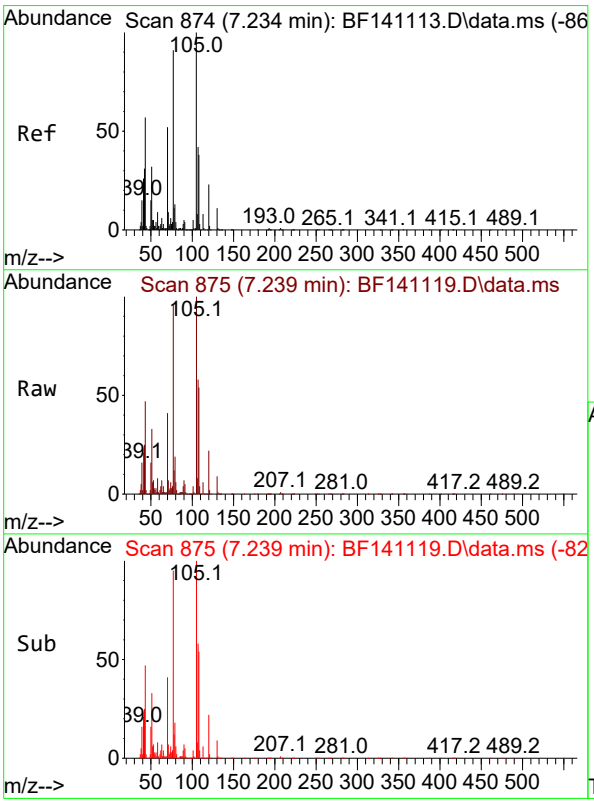
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 648826

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	8.5	6.3	9.5
68	6.1	4.9	7.3

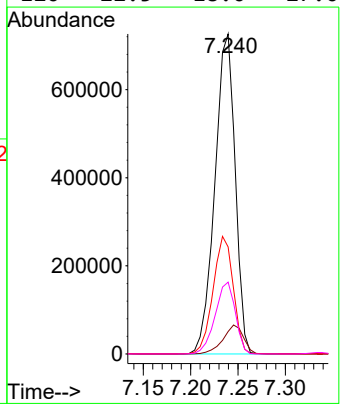


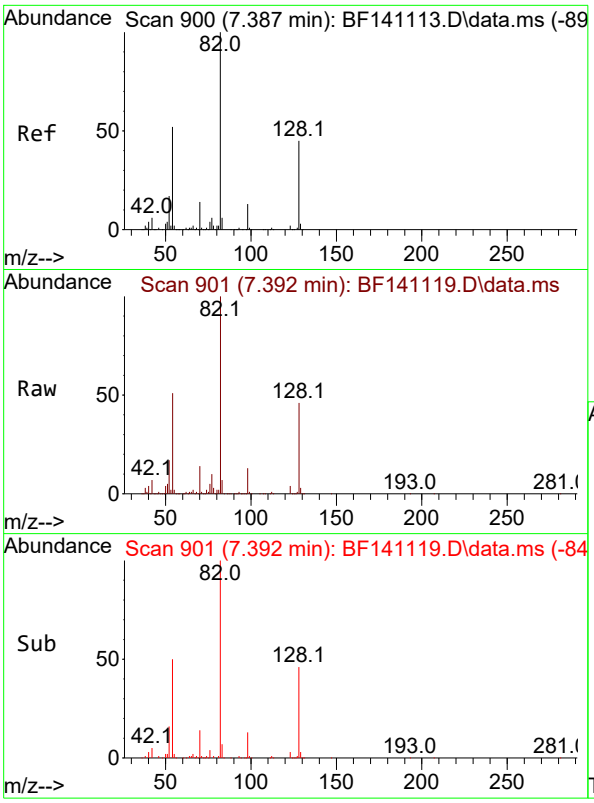


#22
Acetophenone
Concen: 70.218 ng
RT: 7.239 min Scan# 875
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:105 Resp: 1083059

Ion	Ratio	Lower	Upper
105	100		
71	7.0	7.1	10.7#
51	33.5	25.4	38.2
120	22.5	18.0	27.0



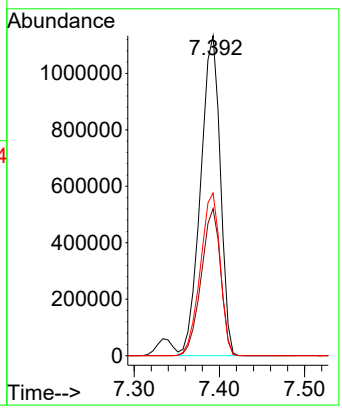


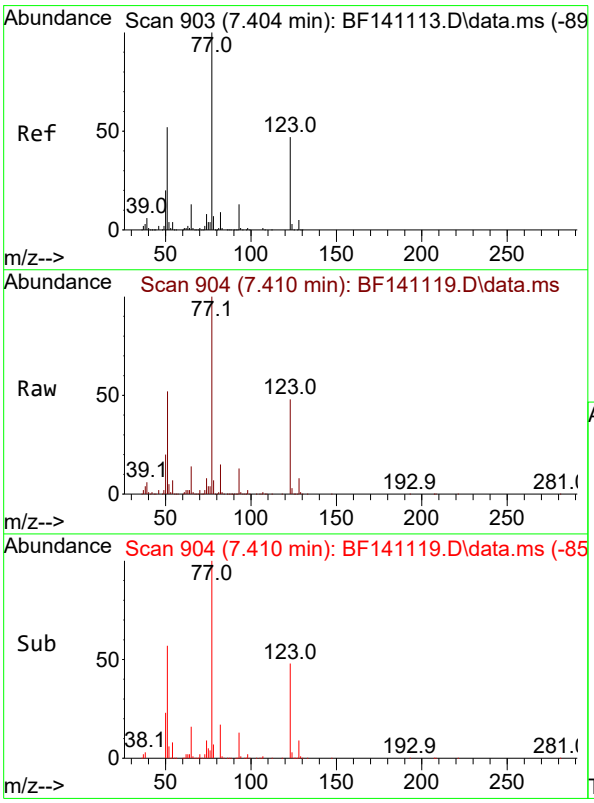
#23
Nitrobenzene-d5
Concen: 148.154 ng
RT: 7.392 min Scan# 9(
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 1813409

Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.1	54.1
54	50.9	41.0	61.4

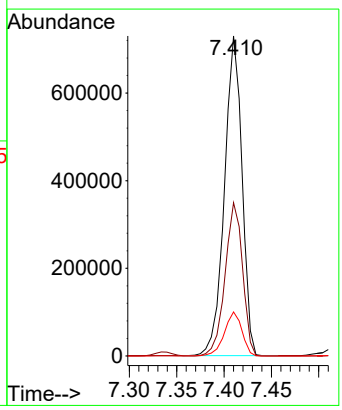


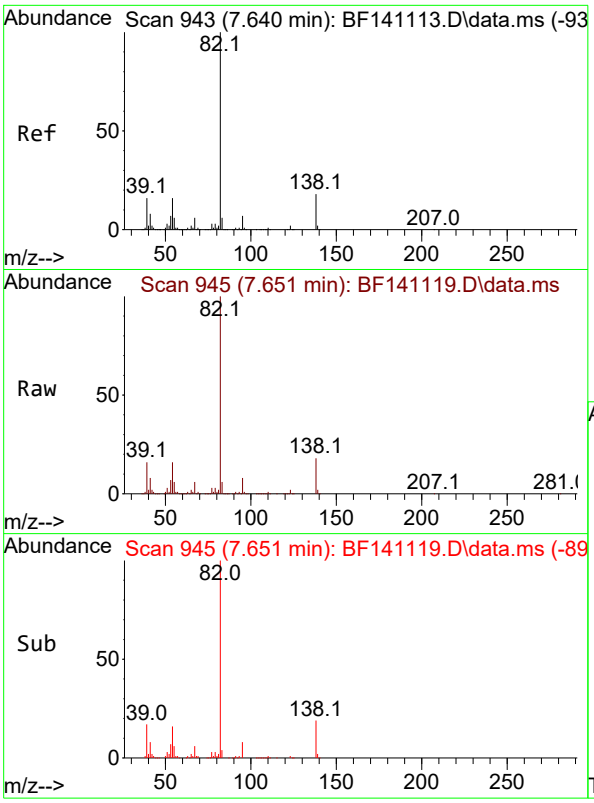


#24
Nitrobenzene
Concen: 73.960 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 77 Resp: 943483

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.7	56.5
65	13.7	10.6	16.0



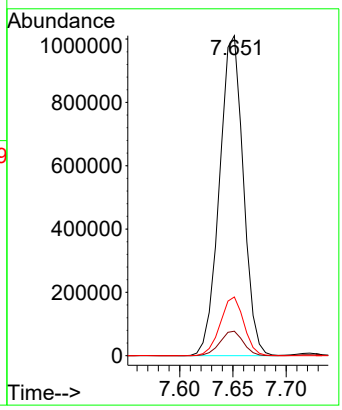


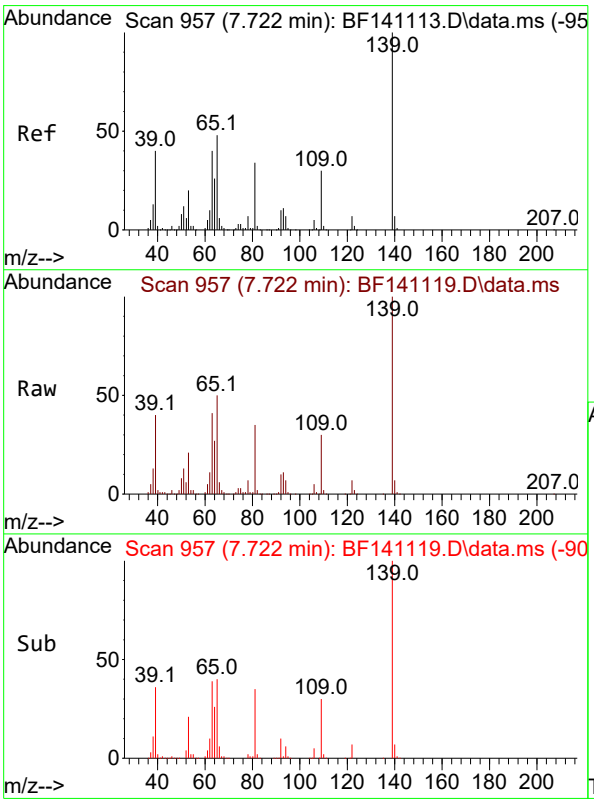
#25
Isophorone
Concen: 75.124 ng
RT: 7.651 min Scan# 94
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 1571424

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.9	8.9
138	18.4	14.2	21.2

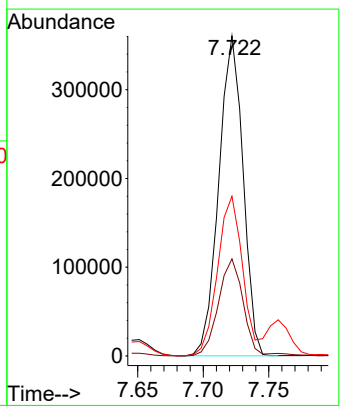


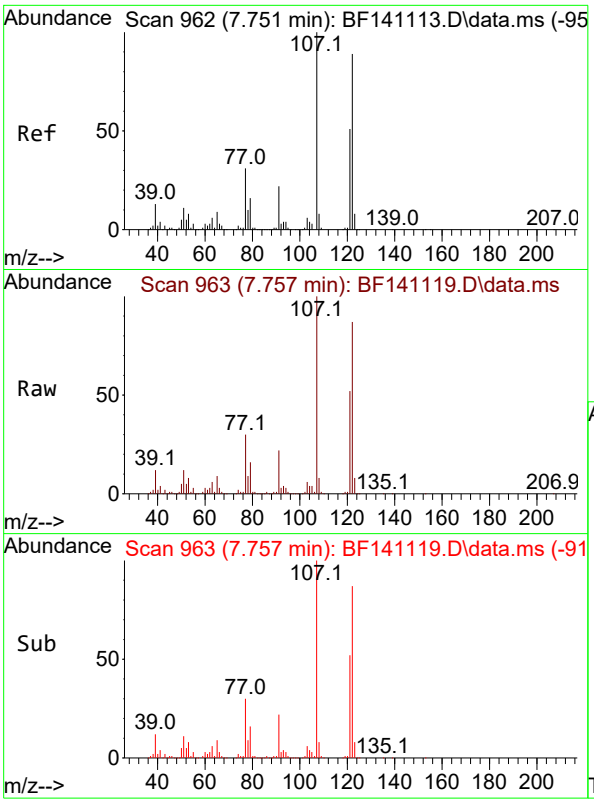


#26
2-Nitrophenol
Concen: 79.834 ng
RT: 7.722 min Scan# 957
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:139 Resp: 463267

Ion	Ratio	Lower	Upper
139	100		
109	30.3	23.8	35.6
65	49.9	38.5	57.7



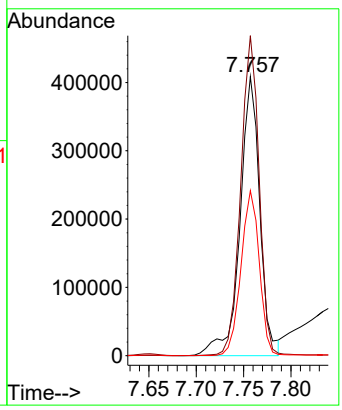


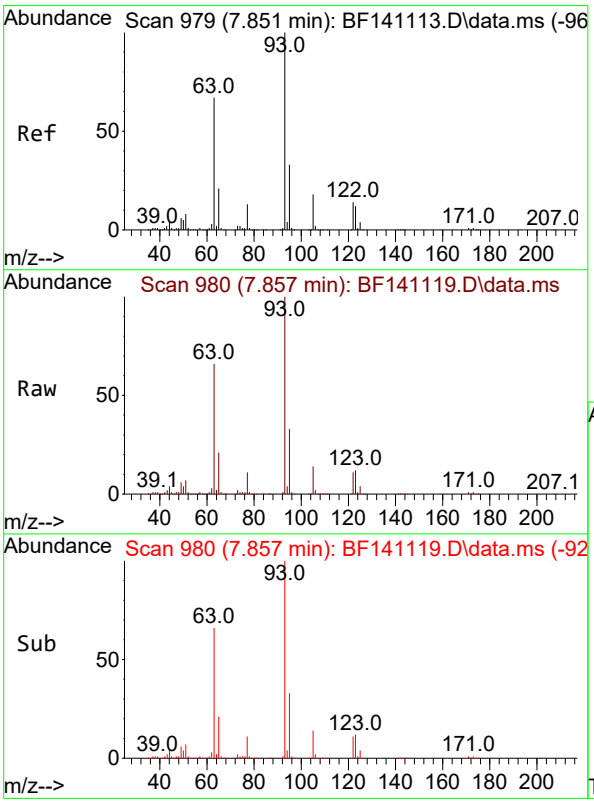
#27
2,4-Dimethylphenol
Concen: 75.959 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 594544

Ion	Ratio	Lower	Upper
122	100		
107	114.7	90.3	135.5
121	59.1	46.5	69.7

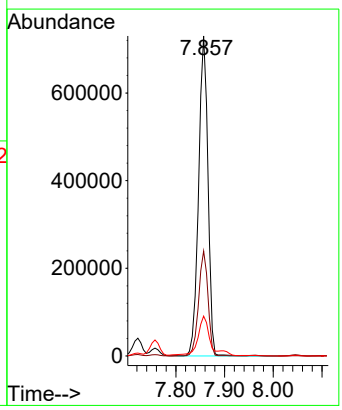


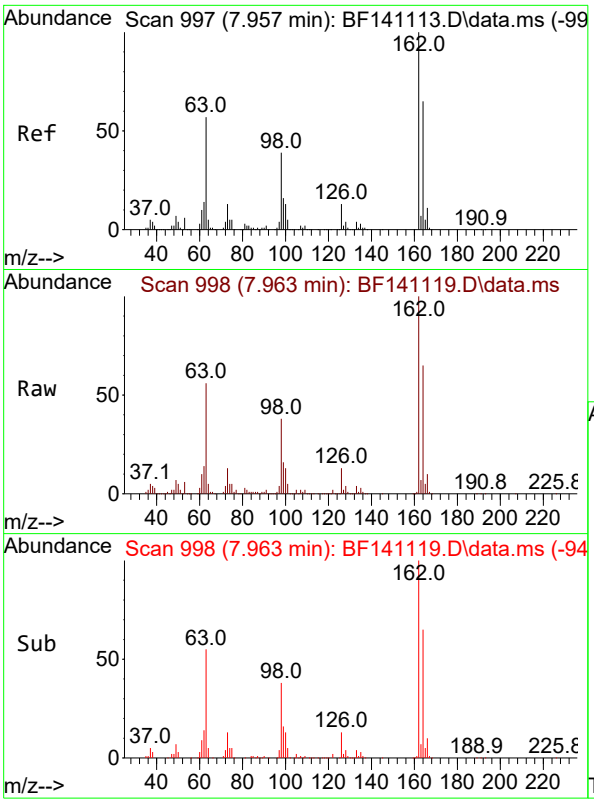


#28
bis(2-Chloroethoxy)methane
Concen: 74.449 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 93 Resp: 977334

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.2	39.4
123	12.5	10.1	15.1



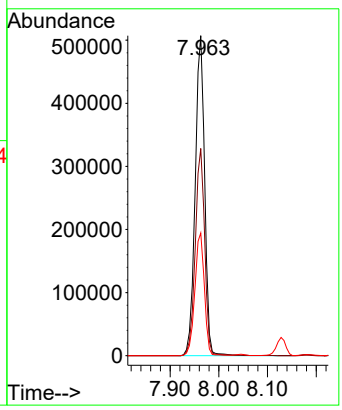


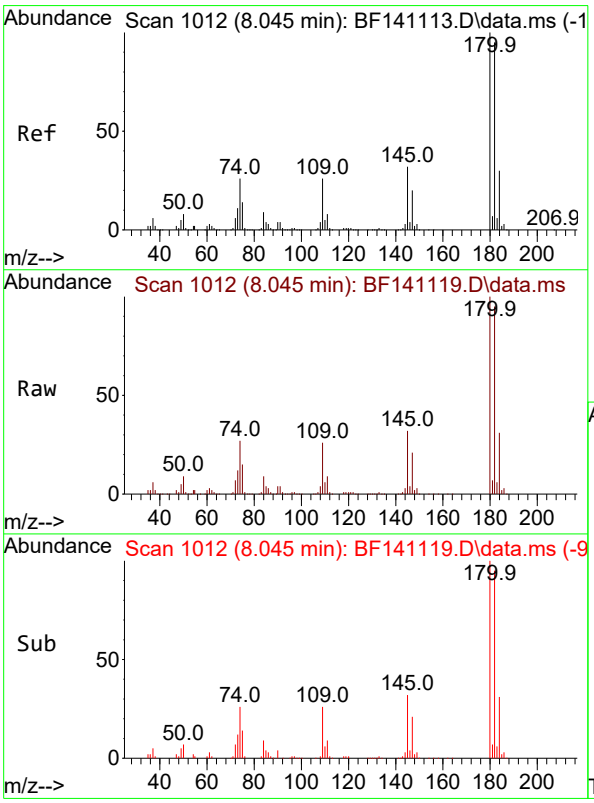
#29
2,4-Dichlorophenol
Concen: 74.162 ng
RT: 7.963 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 689420

Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.5	84.5
98	38.3	18.5	58.5

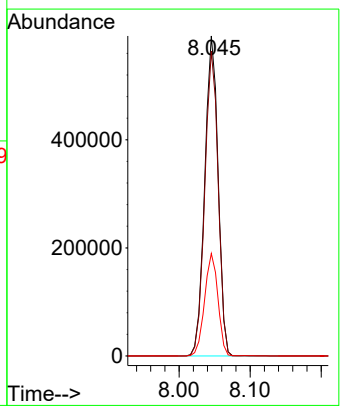


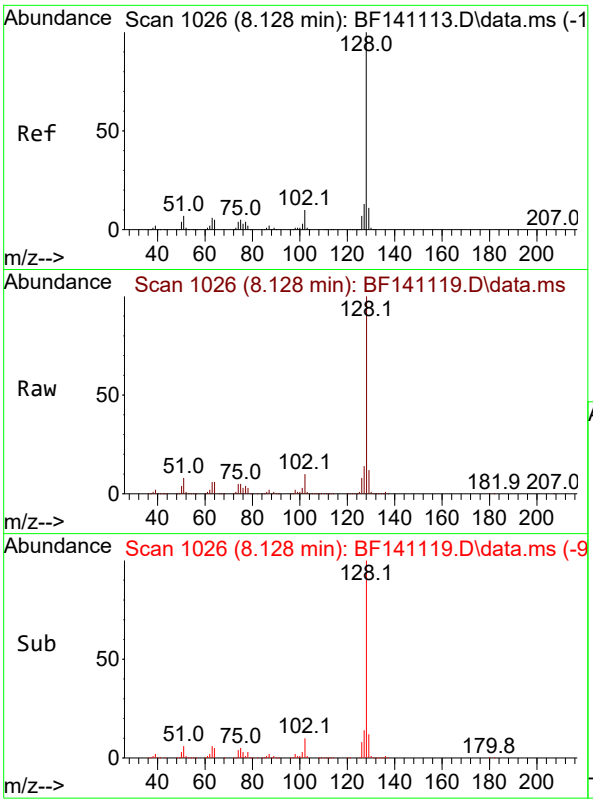


#30
1,2,4-Trichlorobenzene
Concen: 73.098 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:180 Resp: 776721

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
145	32.0	25.3	37.9



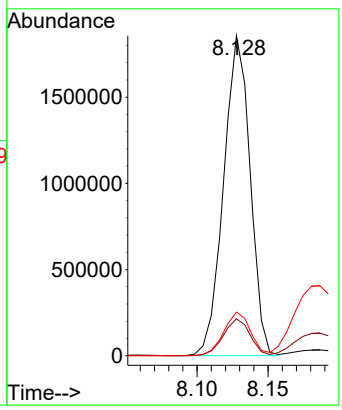


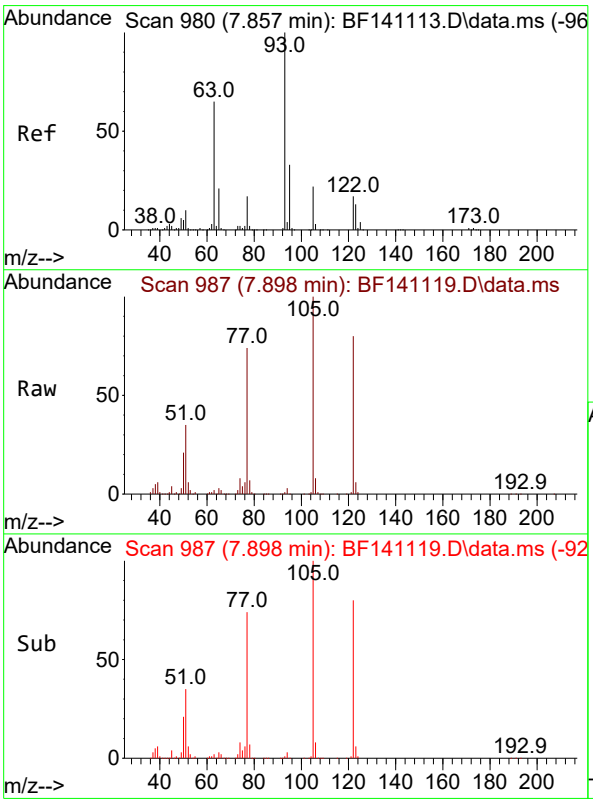
#31
Naphthalene
Concen: 70.480 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 2411578

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.0	13.6
127	13.6	10.8	16.2

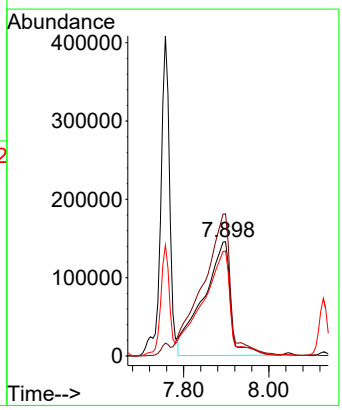


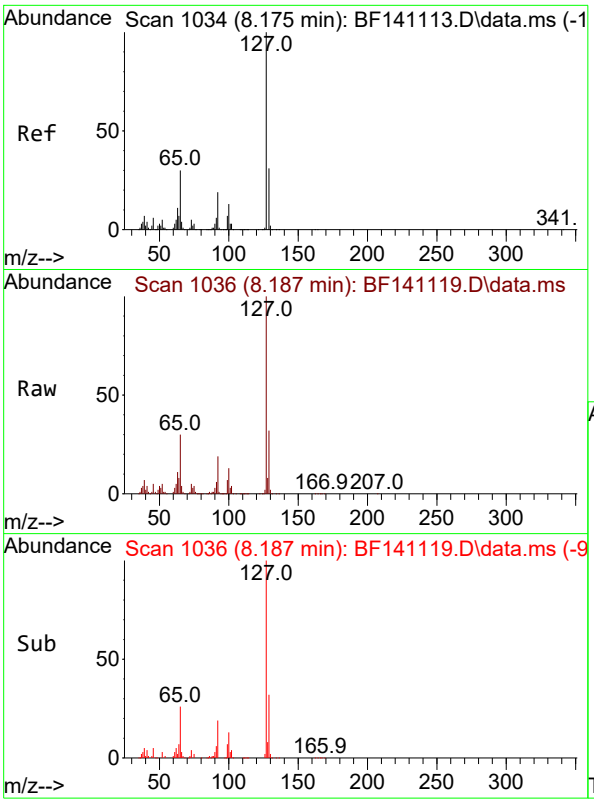


#32
Benzoic acid
Concen: 86.411 ng
RT: 7.898 min Scan# 987
Delta R.T. 0.041 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:122 Resp: 648810

Ion	Ratio	Lower	Upper
122	100		
105	124.5	105.5	145.5
77	91.9	75.1	115.1



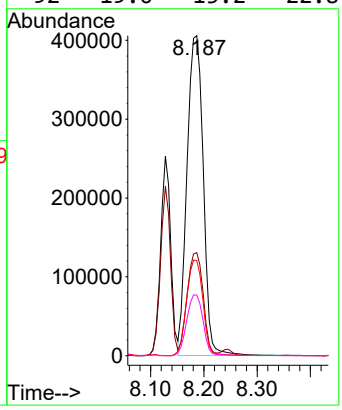


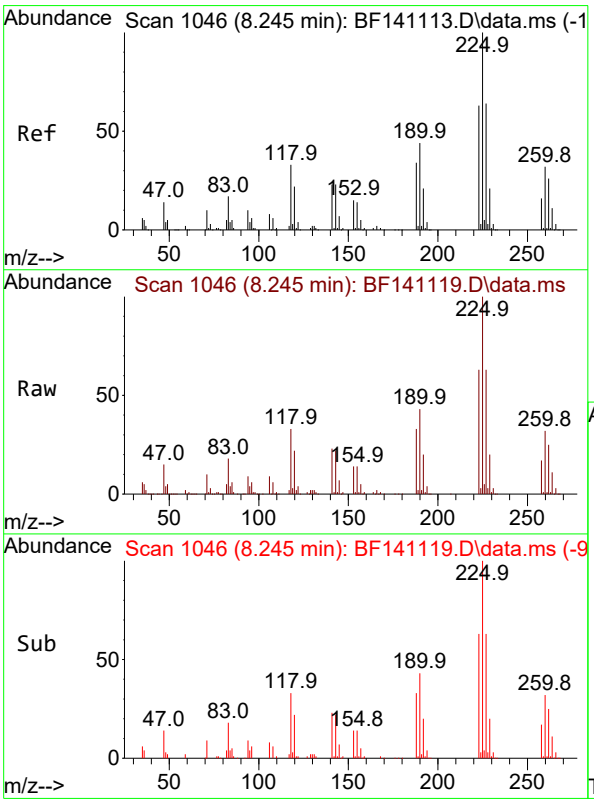
#33
4-Chloroaniline
Concen: 72.688 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 860135

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.9	38.9
65	29.7	23.8	35.8
92	19.0	15.2	22.8

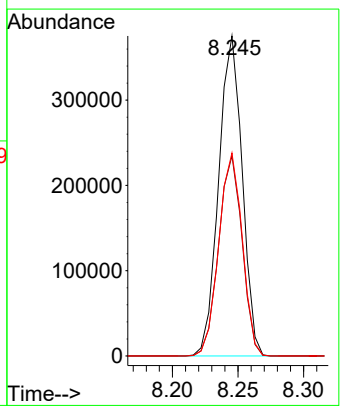


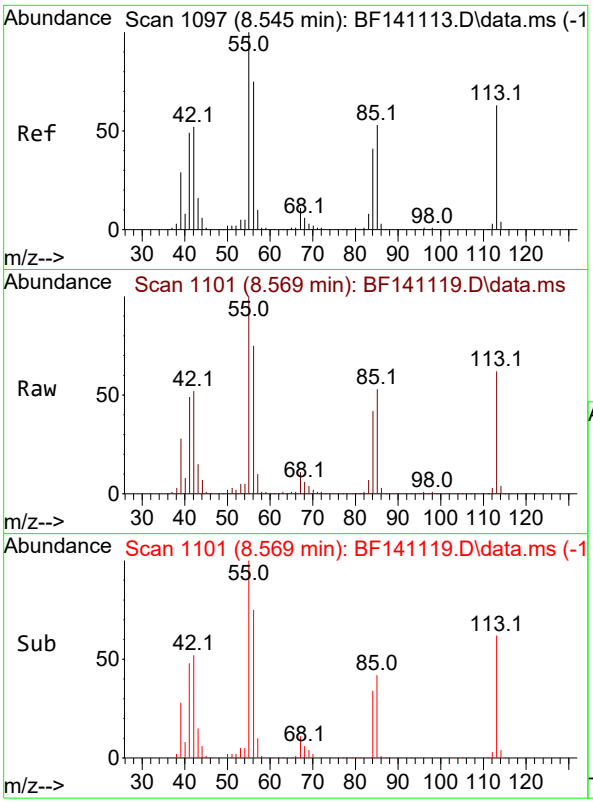


#34
Hexachlorobutadiene
Concen: 72.969 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:225 Resp: 467194

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.6	76.0
227	63.4	51.6	77.4



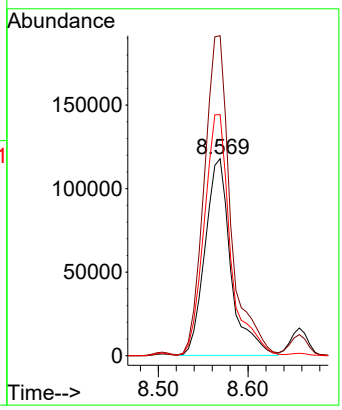


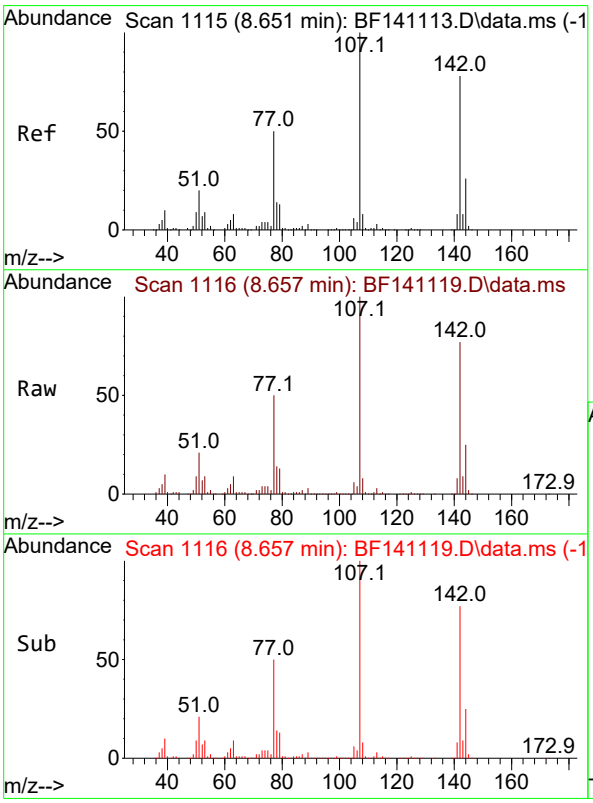
#35
Caprolactam
Concen: 77.436 ng
RT: 8.569 min Scan# 11
Delta R.T. 0.024 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 236127

Ion	Ratio	Lower	Upper
113	100		
55	162.5	139.7	179.7
56	122.5	99.4	139.4

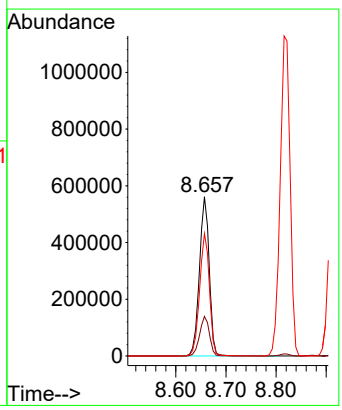


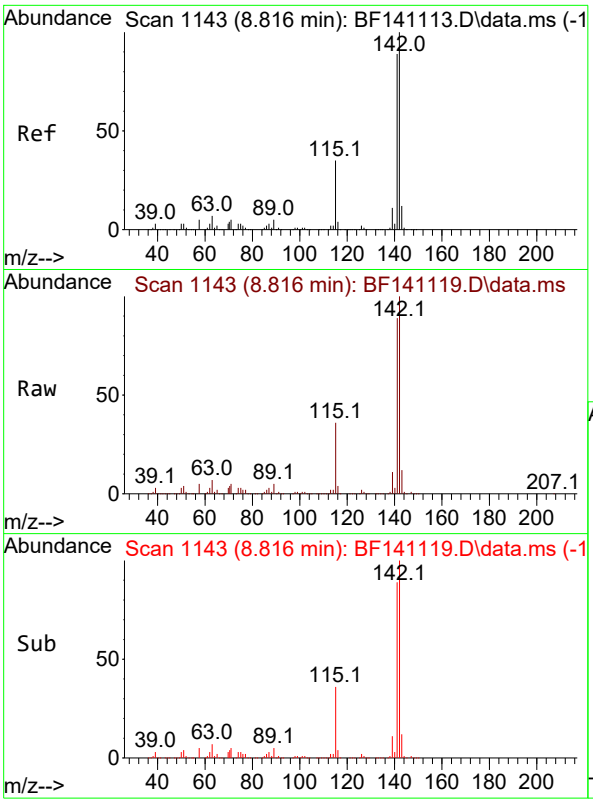


#36
4-Chloro-3-methylphenol
Concen: 74.822 ng
RT: 8.657 min Scan# 1116
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:107 Resp: 760692

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.4	30.6
142	76.8	62.2	93.2



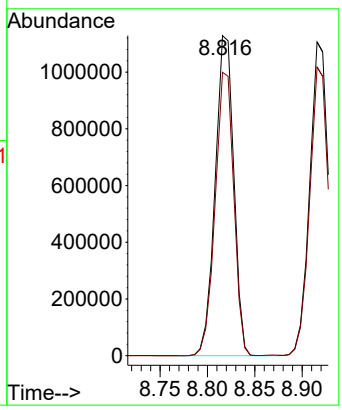


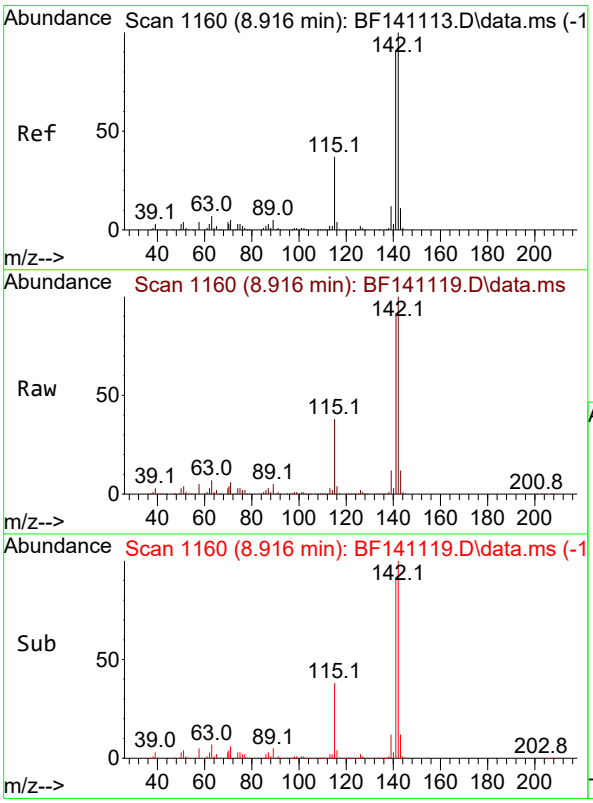
#37
2-Methylnaphthalene
Concen: 70.820 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 1544153

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.3	106.9

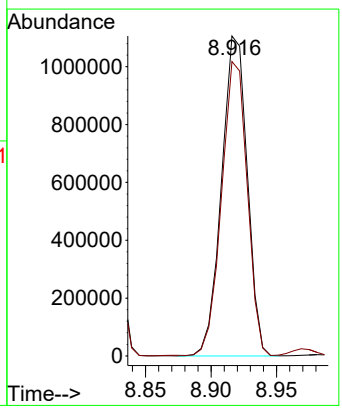


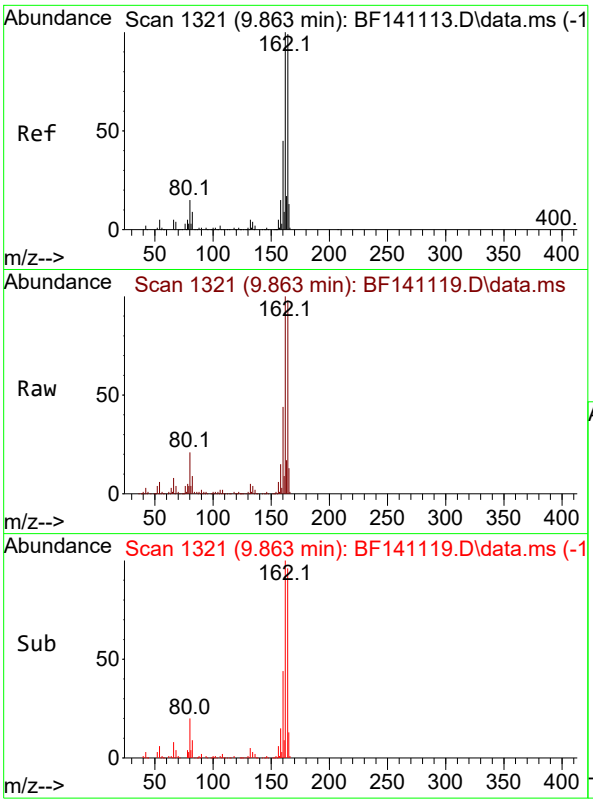


#38
1-Methylnaphthalene
Concen: 70.172 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:142 Resp: 1507881

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7



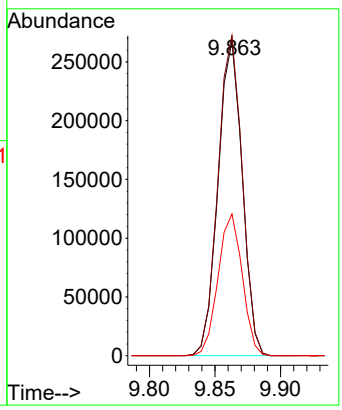


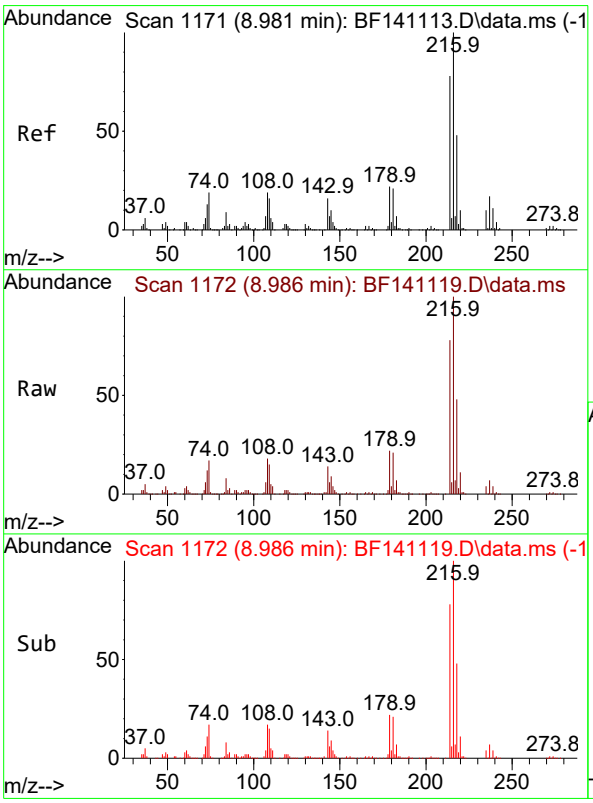
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 342460

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.0	121.4
160	45.1	36.1	54.1

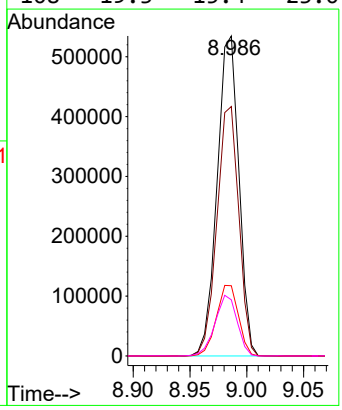


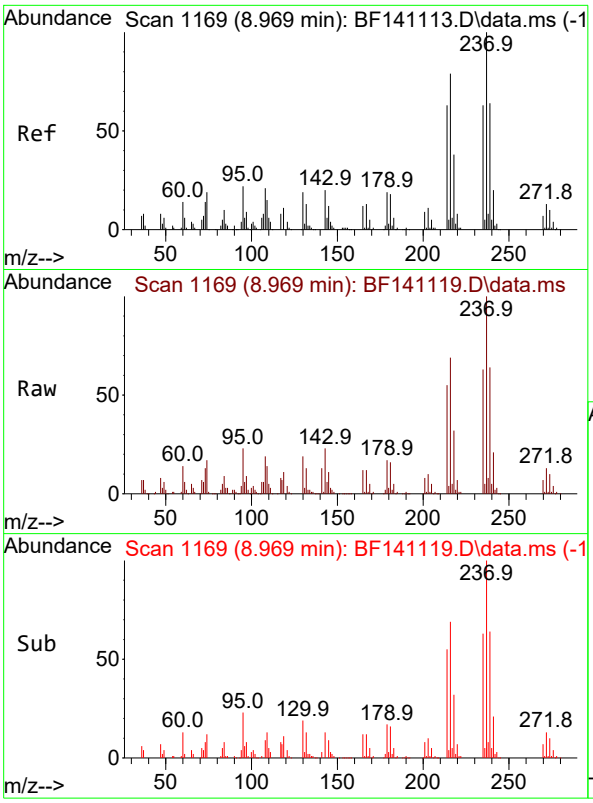


#40
1,2,4,5-Tetrachlorobenzene
Concen: 72.478 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:216 Resp: 712407

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.6	94.0
179	22.4	17.7	26.5
108	19.3	15.4	23.0



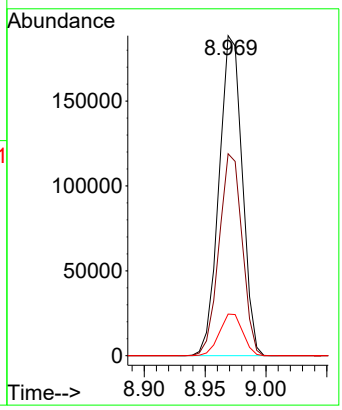


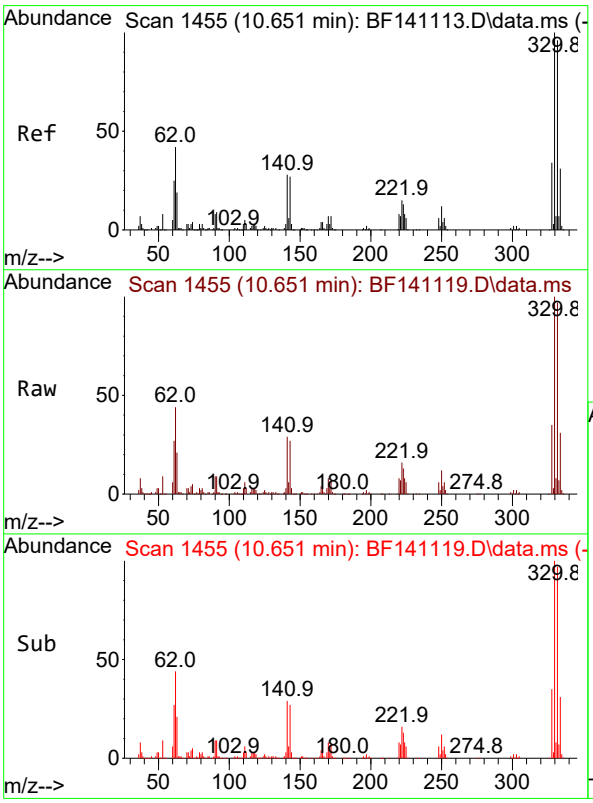
#41
Hexachlorocyclopentadiene
Concen: 77.724 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 249944

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.0	83.0
272	13.0	0.0	33.0

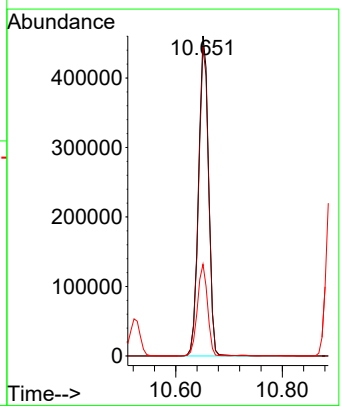


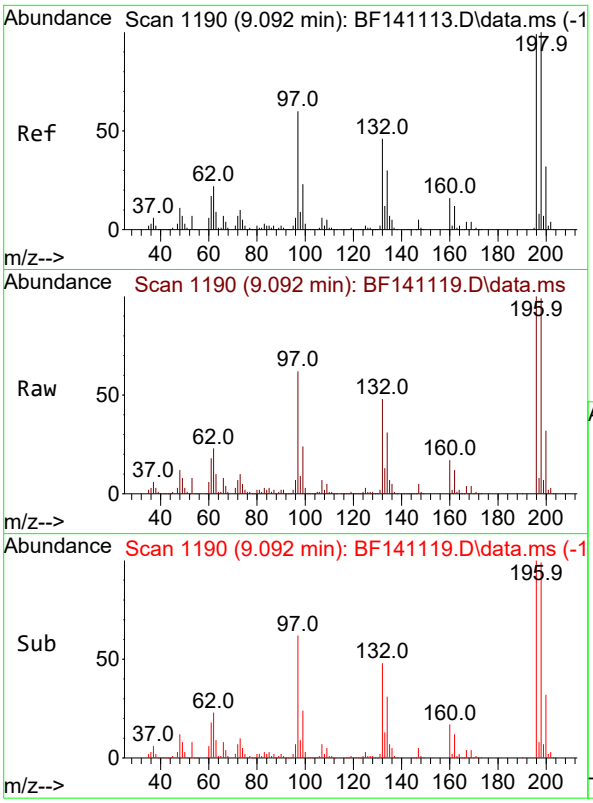


#42
2,4,6-Tribromophenol
Concen: 154.132 ng
RT: 10.651 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:330 Resp: 601438

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.9	115.3
141	28.9	25.2	37.8



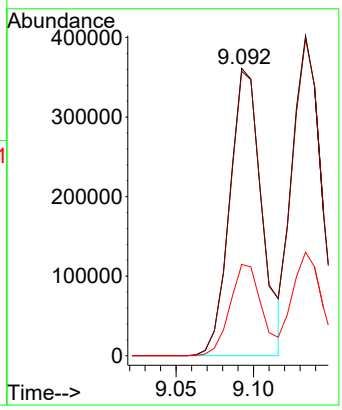


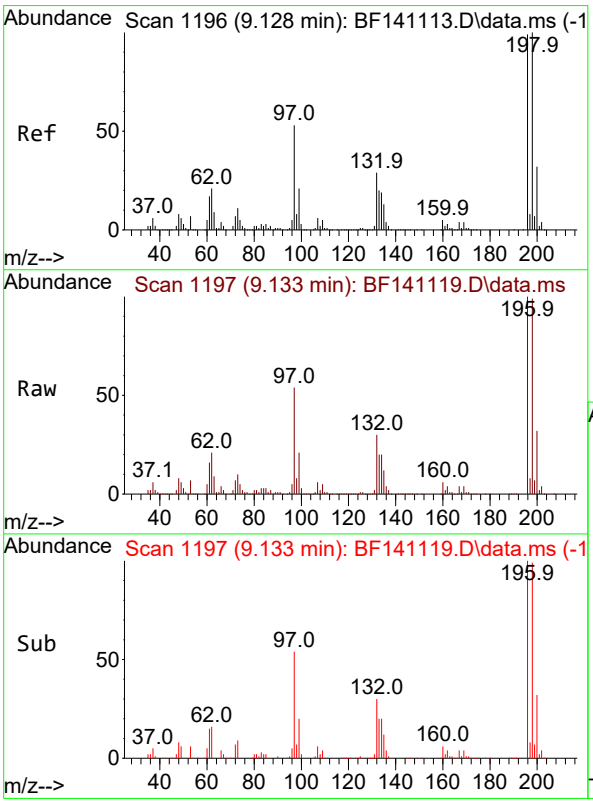
#43
2,4,6-Trichlorophenol
Concen: 77.920 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 516551

Ion	Ratio	Lower	Upper
196	100		
198	99.0	80.8	121.2
200	31.7	25.7	38.5

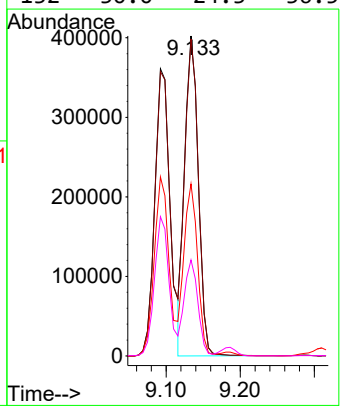


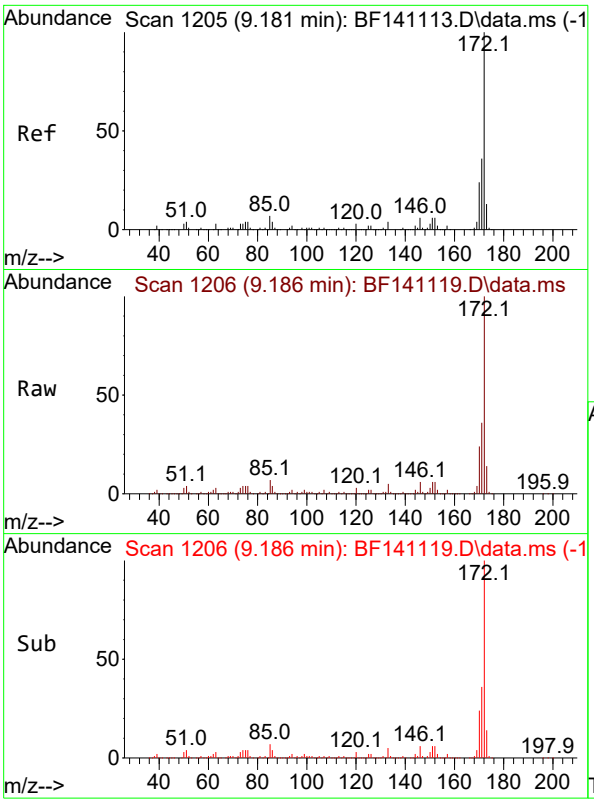


#44
2,4,5-Trichlorophenol
Concen: 73.839 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:196 Resp: 516966

Ion	Ratio	Lower	Upper
196	100		
198	99.1	80.6	120.8
97	53.8	43.1	64.7
132	30.0	24.3	36.5



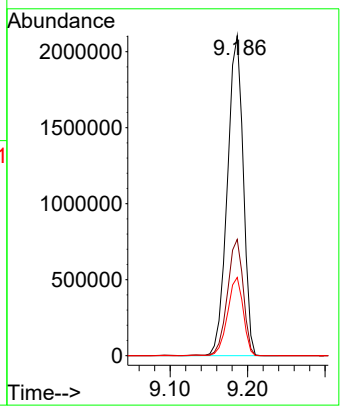


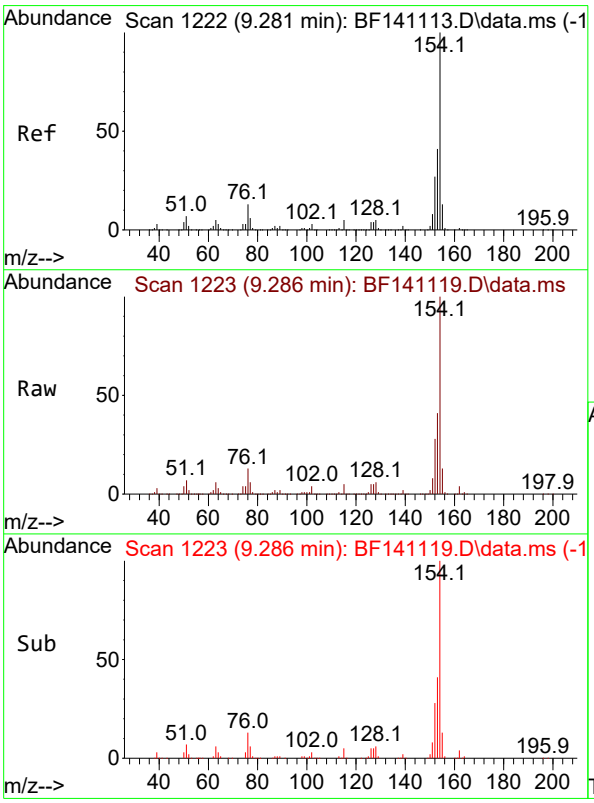
#45
2-Fluorobiphenyl
Concen: 133.666 ng
RT: 9.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 2997639

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.7	43.1
170	24.4	19.0	28.6

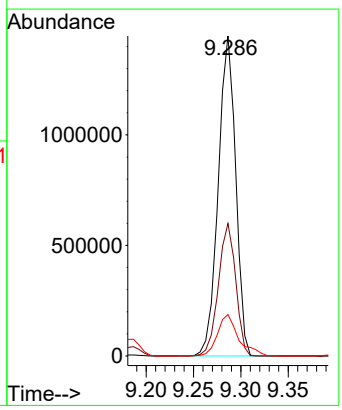


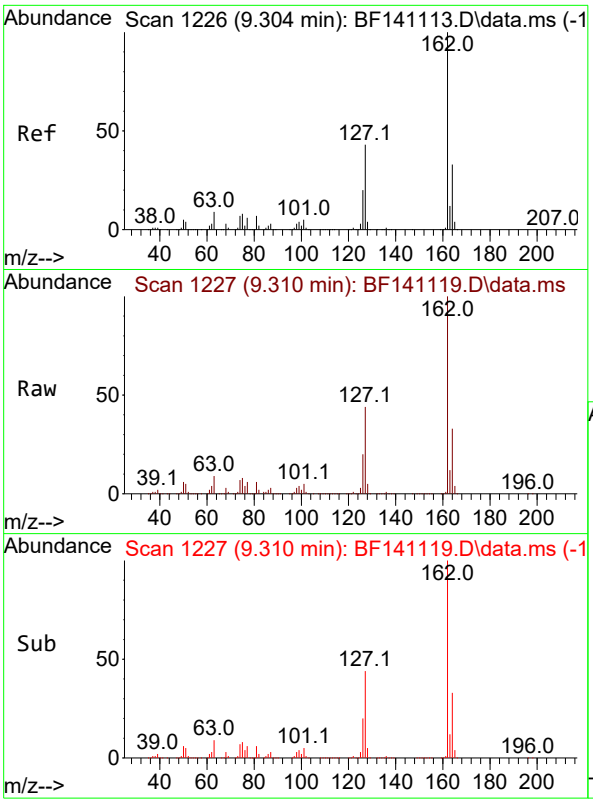


#46
1,1'-Biphenyl
Concen: 69.734 ng
RT: 9.286 min Scan# 1223
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:154 Resp: 1854615

Ion	Ratio	Lower	Upper
154	100		
153	41.4	20.7	60.7
76	12.9	0.0	33.1



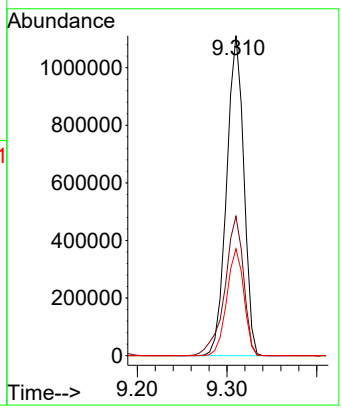


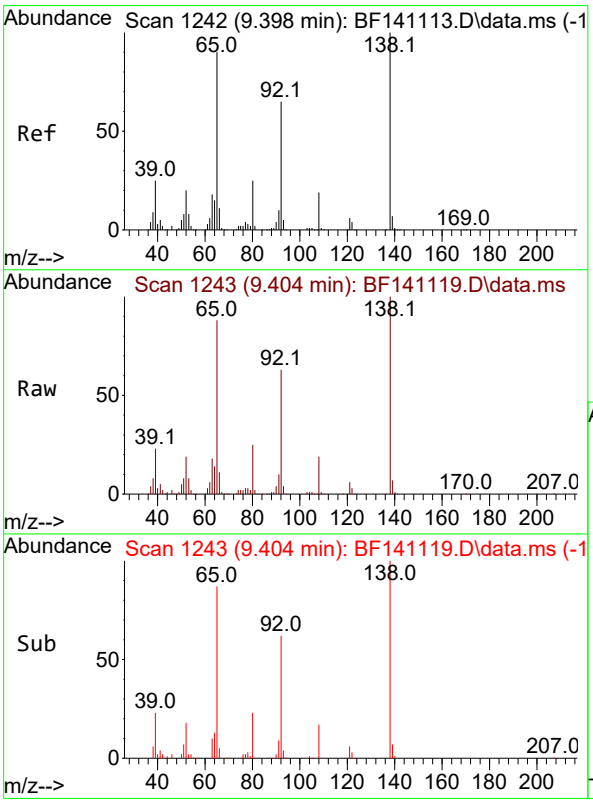
#47
2-Chloronaphthalene
Concen: 71.352 ng
RT: 9.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 1478014

Ion	Ratio	Lower	Upper
162	100		
127	43.6	34.6	51.8
164	33.4	26.5	39.7

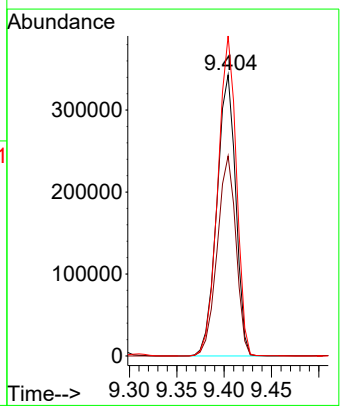


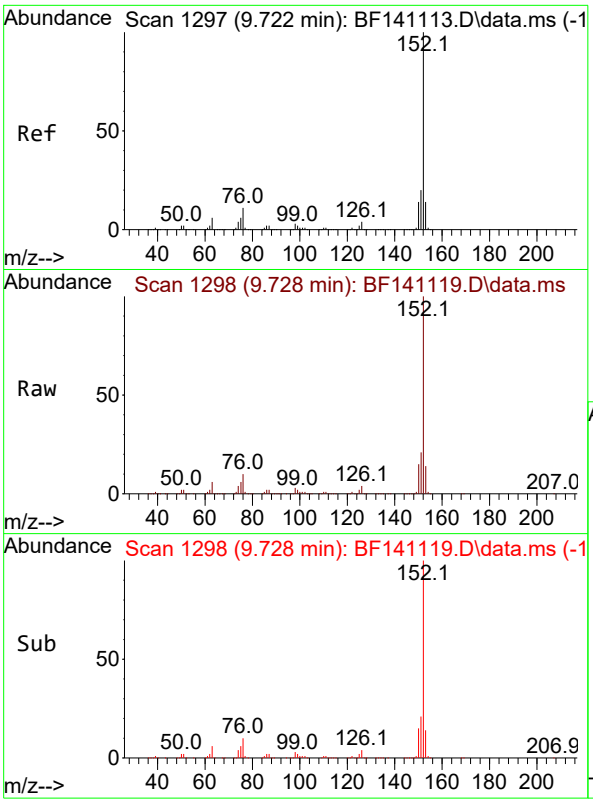


#48
2-Nitroaniline
Concen: 77.400 ng
RT: 9.404 min Scan# 1243
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion: 65 Resp: 475269

Ion	Ratio	Lower	Upper
65	100		
92	71.1	58.3	87.5
138	113.8	89.1	133.7



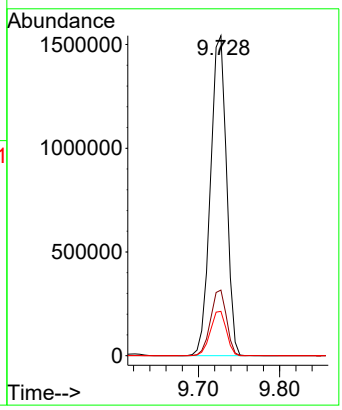


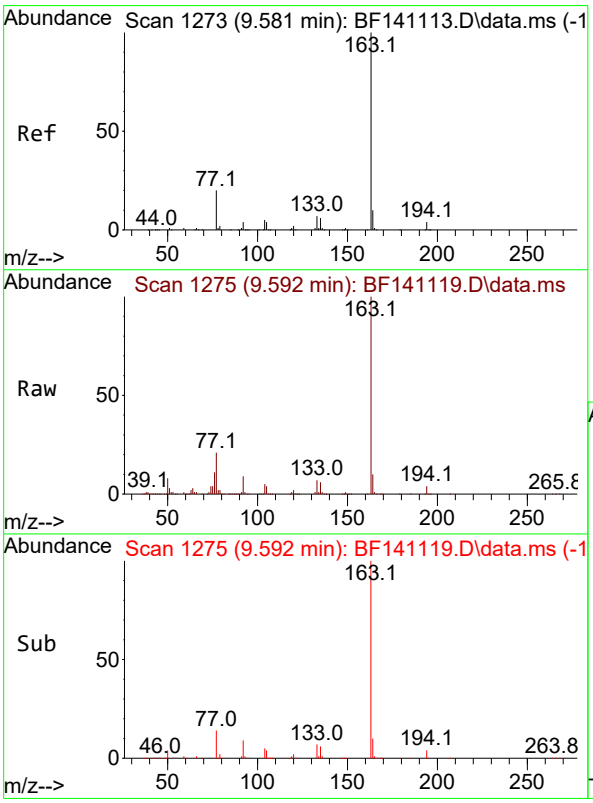
#49
Acenaphthylene
Concen: 71.297 ng
RT: 9.728 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 2110029

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	13.8	11.1	16.7

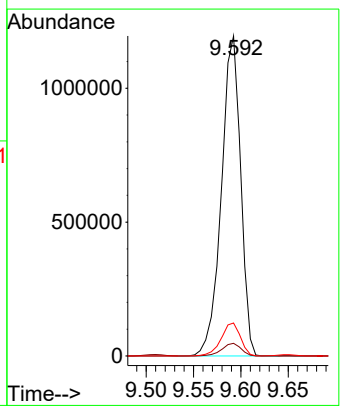


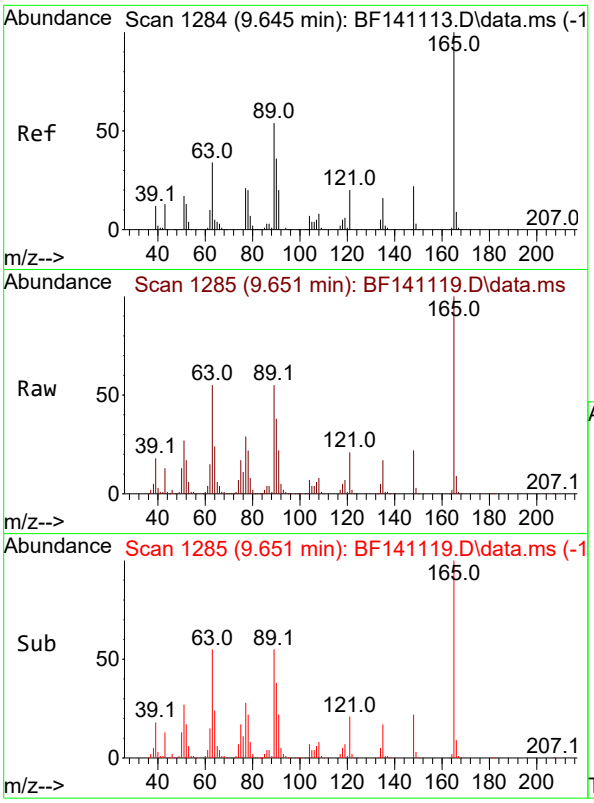


#50
Dimethylphthalate
Concen: 73.435 ng
RT: 9.592 min Scan# 1275
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:163 Resp: 1688321

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.4



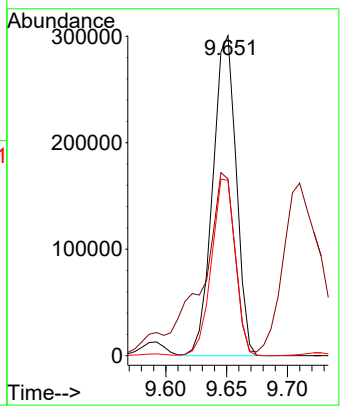


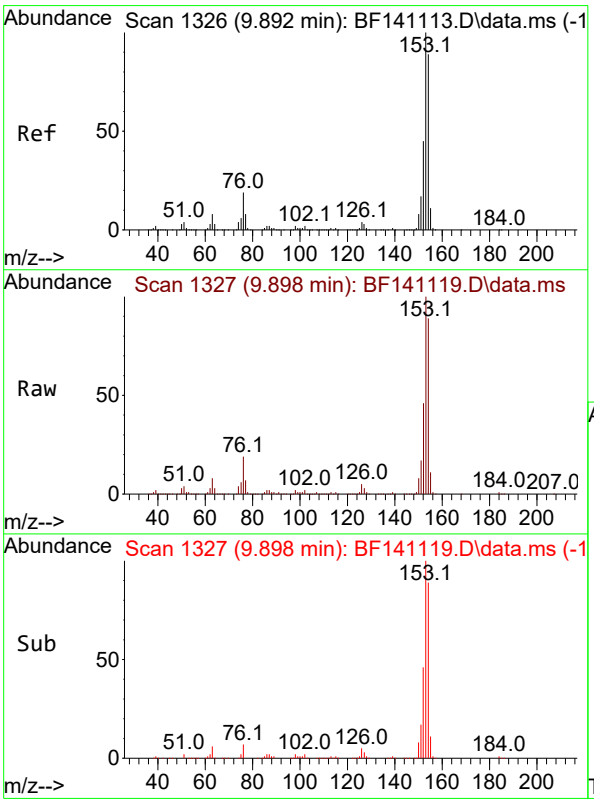
#51
2,6-Dinitrotoluene
Concen: 75.439 ng
RT: 9.651 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 403325

Ion	Ratio	Lower	Upper
165	100		
63	55.2	42.3	63.5
89	54.8	43.1	64.7

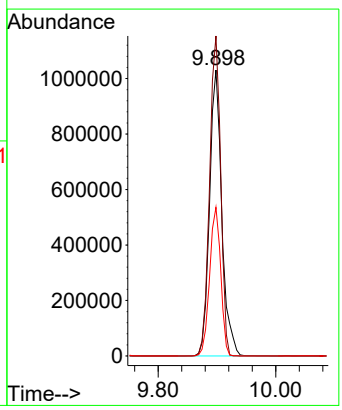


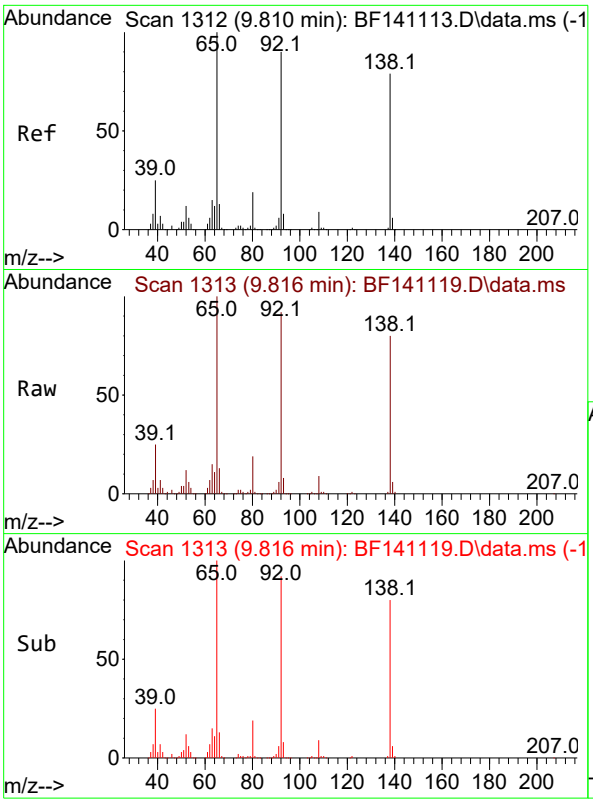


#52
Acenaphthene
Concen: 71.956 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:154 Resp: 1487806

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.8	134.6
152	52.0	40.8	61.2



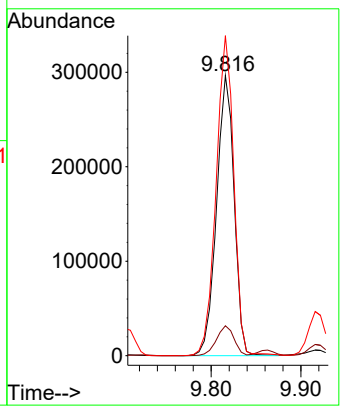


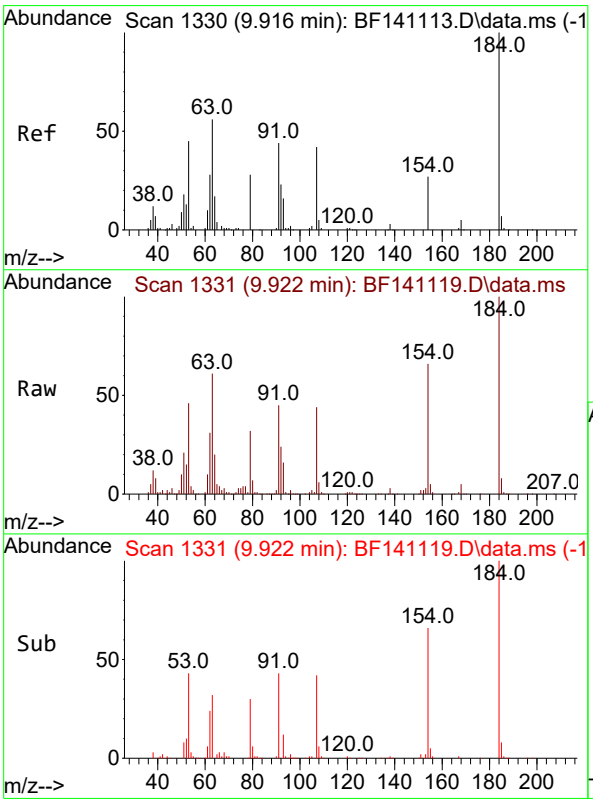
#53
3-Nitroaniline
Concen: 74.366 ng
RT: 9.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 404031

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.8	13.2
92	114.2	91.3	136.9

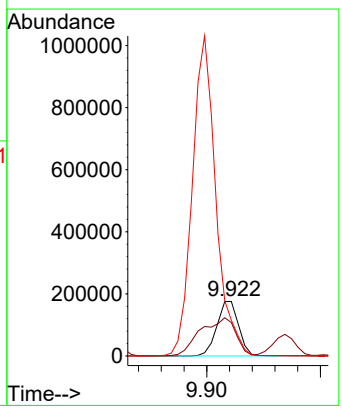


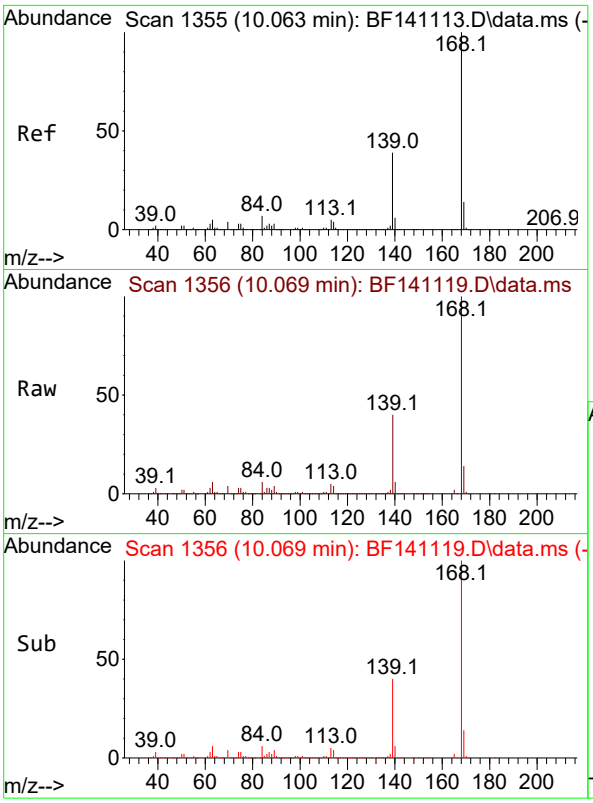


#54
2,4-Dinitrophenol
Concen: 91.933 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:184 Resp: 233623

Ion	Ratio	Lower	Upper
184	100		
63	61.4	48.7	73.1
154	65.8	57.1	85.7



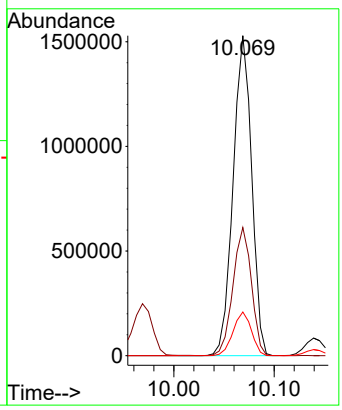


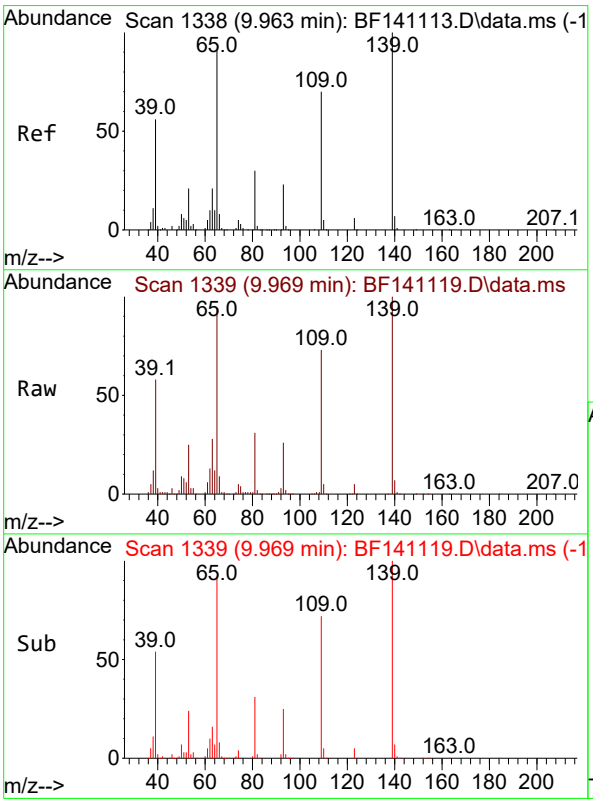
#55
Dibenzofuran
Concen: 70.137 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 1972541

Ion	Ratio	Lower	Upper
168	100		
139	40.1	31.4	47.0
169	13.6	10.9	16.3

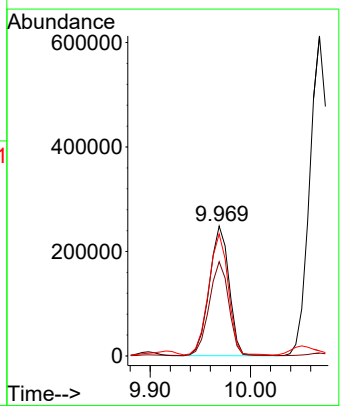


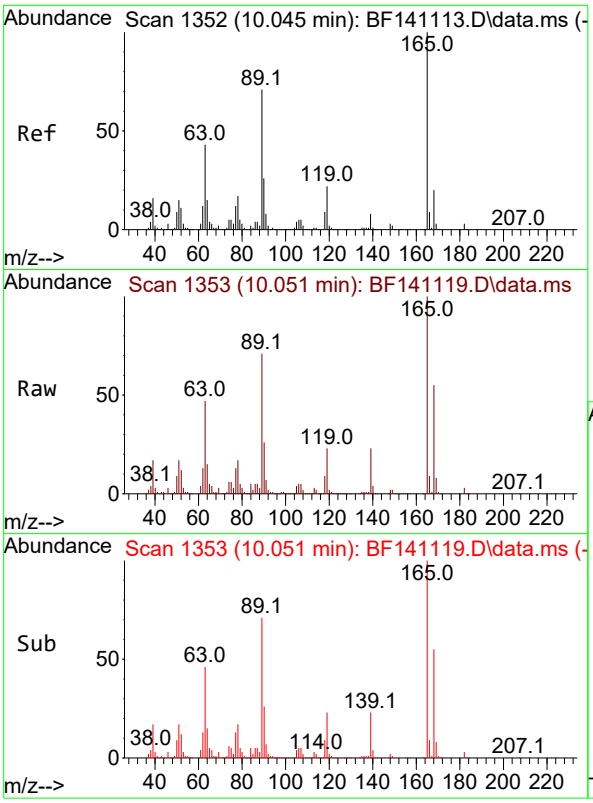


#56
4-Nitrophenol
Concen: 79.690 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:139 Resp: 339082

Ion	Ratio	Lower	Upper
139	100		
109	72.6	50.2	90.2
65	93.8	72.1	112.1



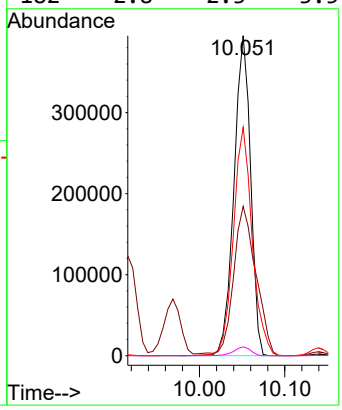


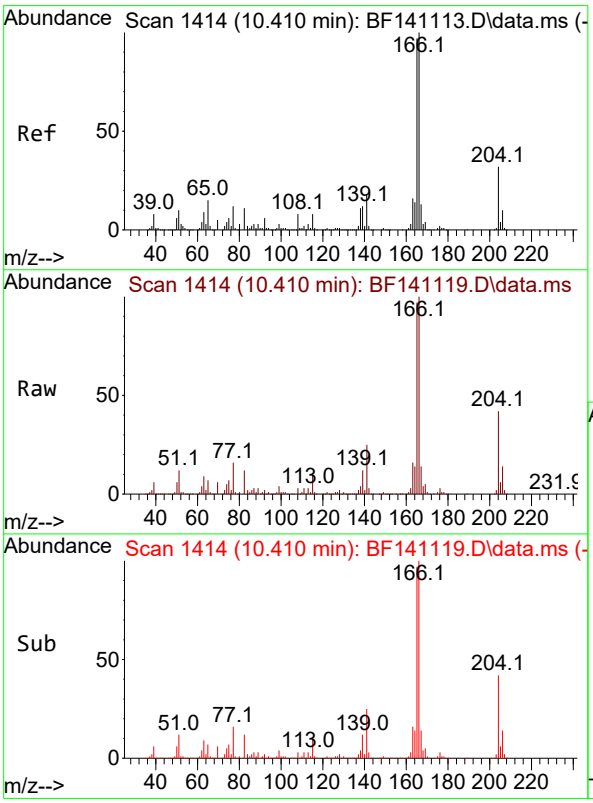
#57
2,4-Dinitrotoluene
Concen: 77.452 ng
RT: 10.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 533647

Ion	Ratio	Lower	Upper
165	100		
63	46.6	35.0	52.4
89	71.3	56.7	85.1
182	2.8	2.3	3.5

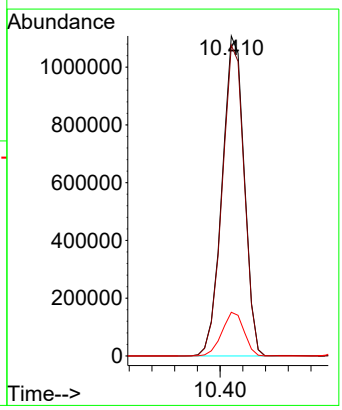


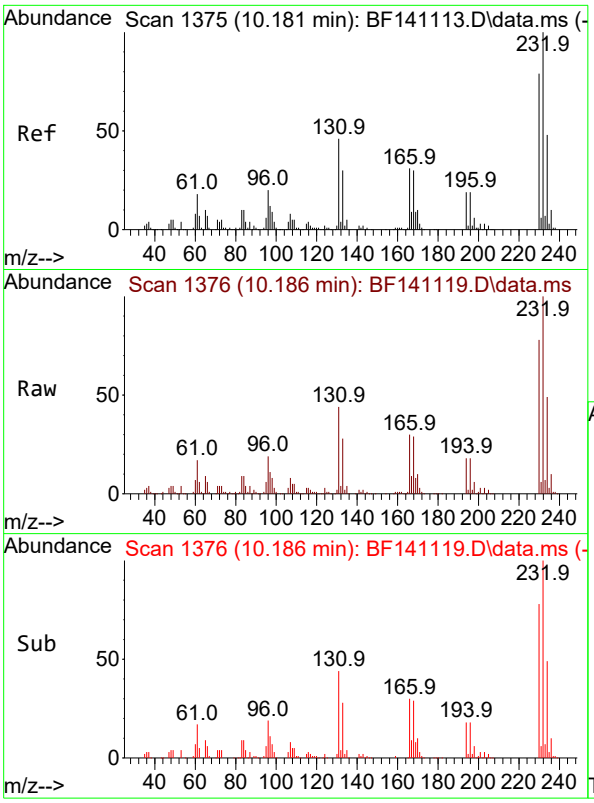


#58
Fluorene
Concen: 68.372 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:166 Resp: 1493903

Ion	Ratio	Lower	Upper
166	100		
165	97.1	77.8	116.8
167	13.6	10.8	16.2



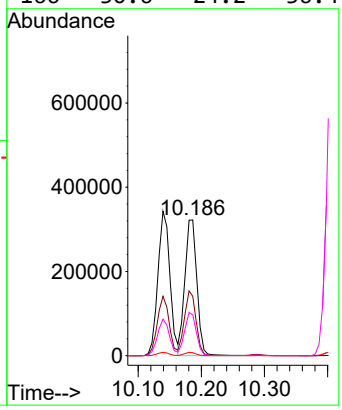


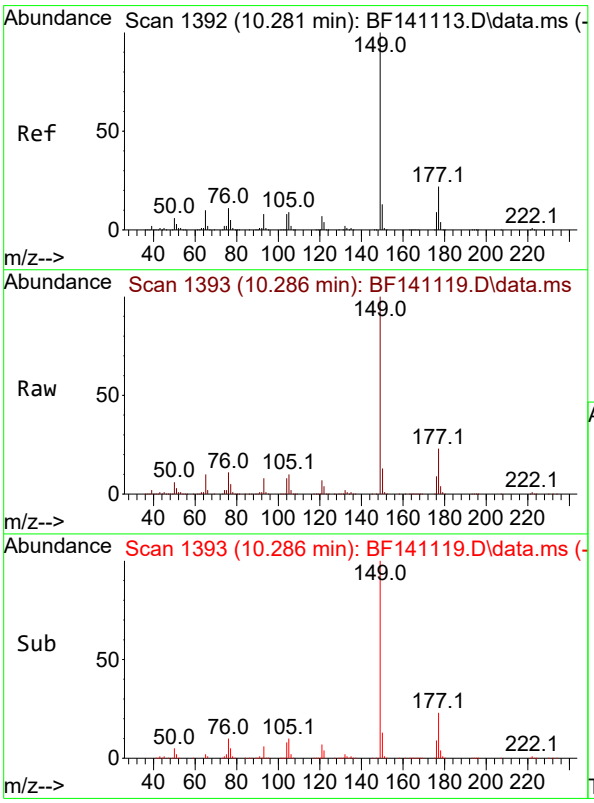
#59
2,3,4,6-Tetrachlorophenol
Concen: 73.631 ng
RT: 10.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 428499

Ion	Ratio	Lower	Upper
232	100		
131	45.8	36.2	54.4
130	2.4	2.0	3.0
166	30.6	24.2	36.4

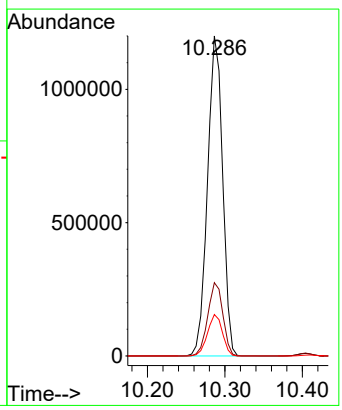


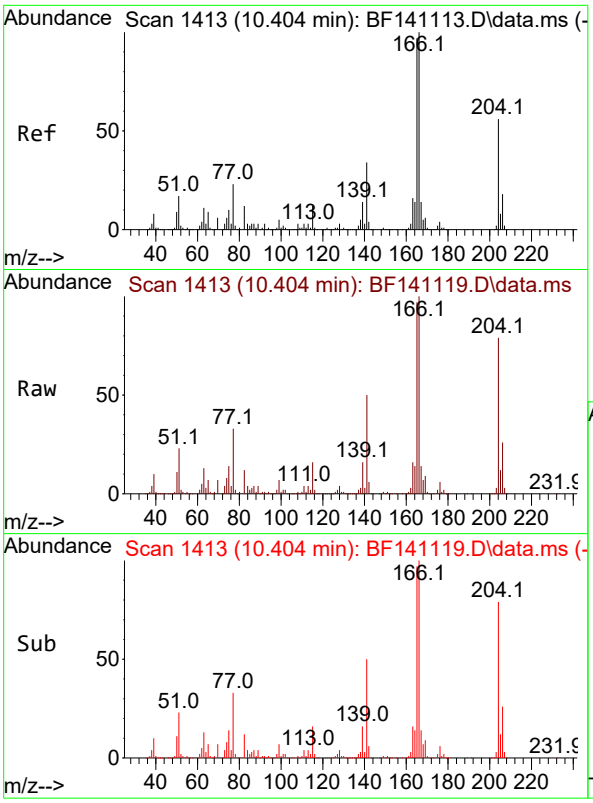


#60
Diethylphthalate
Concen: 72.366 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:149 Resp: 1624226

Ion	Ratio	Lower	Upper
149	100		
177	22.9	17.9	26.9
150	12.9	10.2	15.2



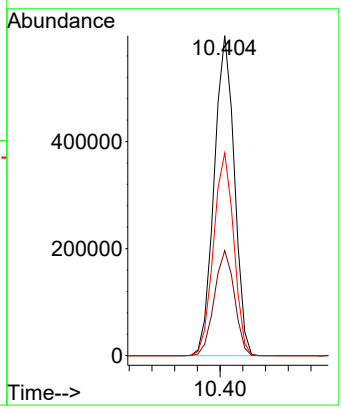


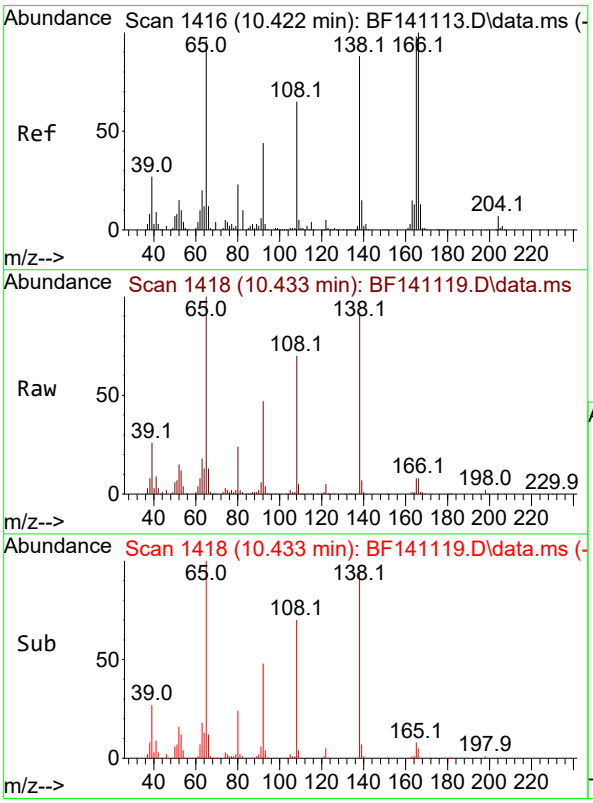
#61
4-Chlorophenyl-phenylether
Concen: 69.400 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 739051

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.9	38.9
141	63.4	49.1	73.7

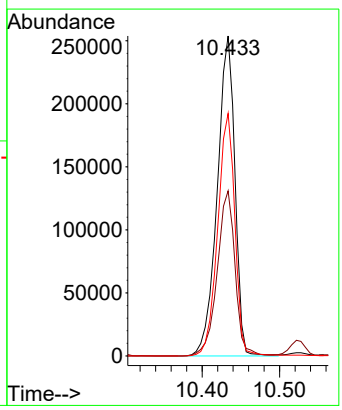


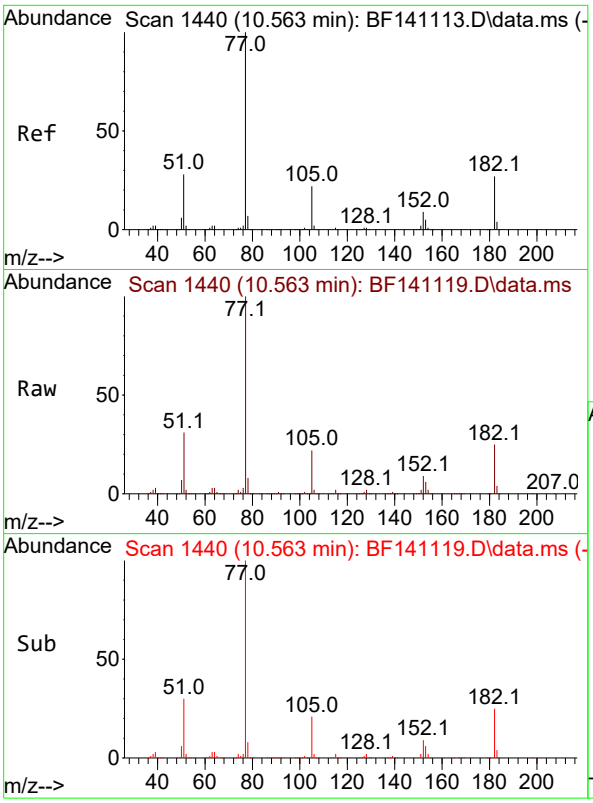


#62
4-Nitroaniline
Concen: 75.992 ng
RT: 10.433 min Scan# 1418
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:138 Resp: 404093

Ion	Ratio	Lower	Upper
138	100		
92	51.6	29.4	69.4
108	75.8	53.7	93.7



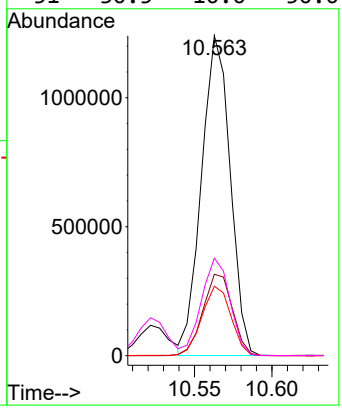


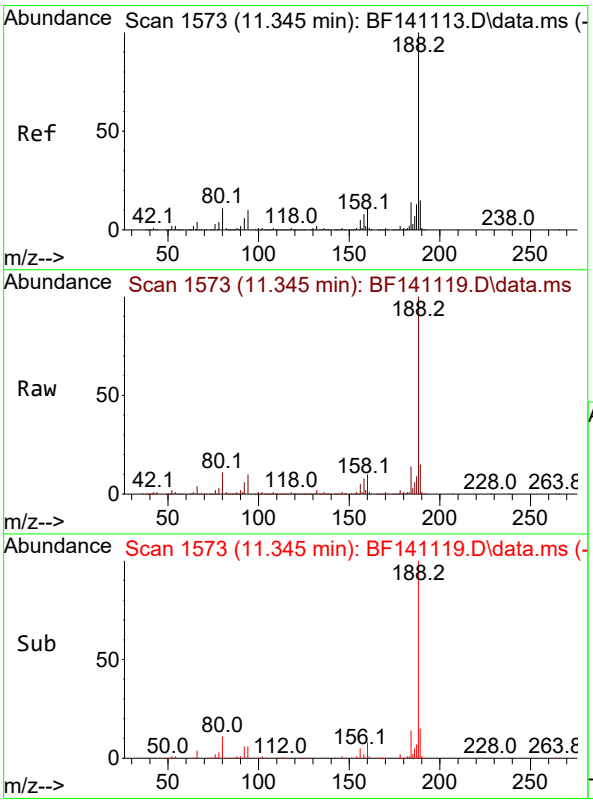
#63
Azobenzene
Concen: 72.150 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 1597886

Ion	Ratio	Lower	Upper
77	100		
182	25.4	6.1	46.1
105	21.7	2.1	42.1
51	30.5	10.0	50.0

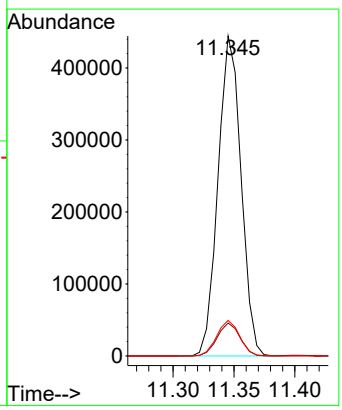


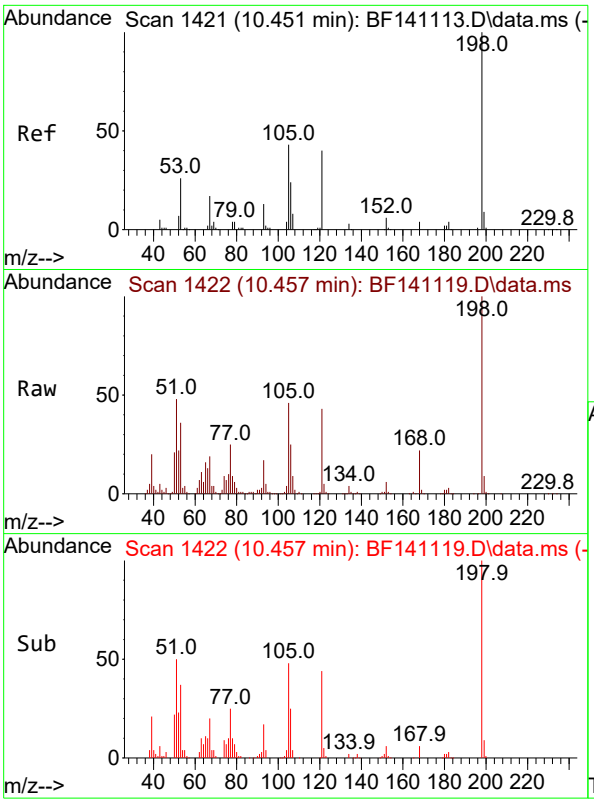


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:188 Resp: 584387

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.3	12.5
80	11.1	9.0	13.4



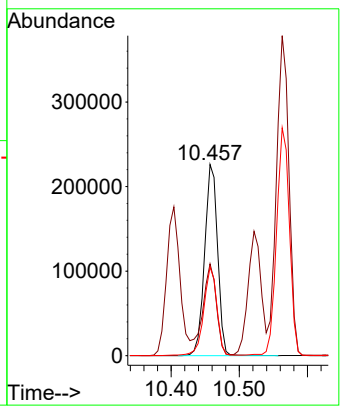


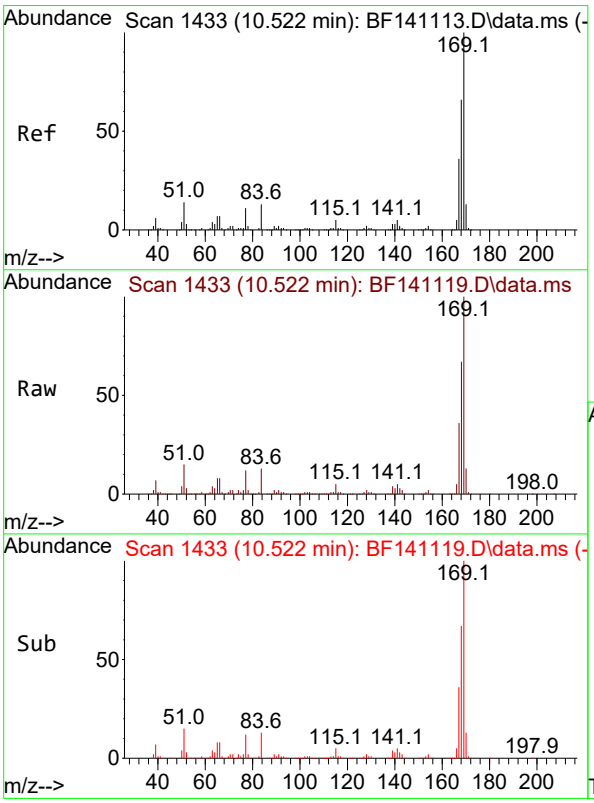
#65
4,6-Dinitro-2-methylphenol
Concen: 88.510 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 299726

Ion	Ratio	Lower	Upper
198	100		
51	48.0	27.1	67.1
105	46.4	24.2	64.2

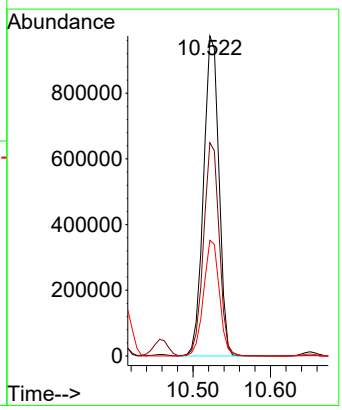


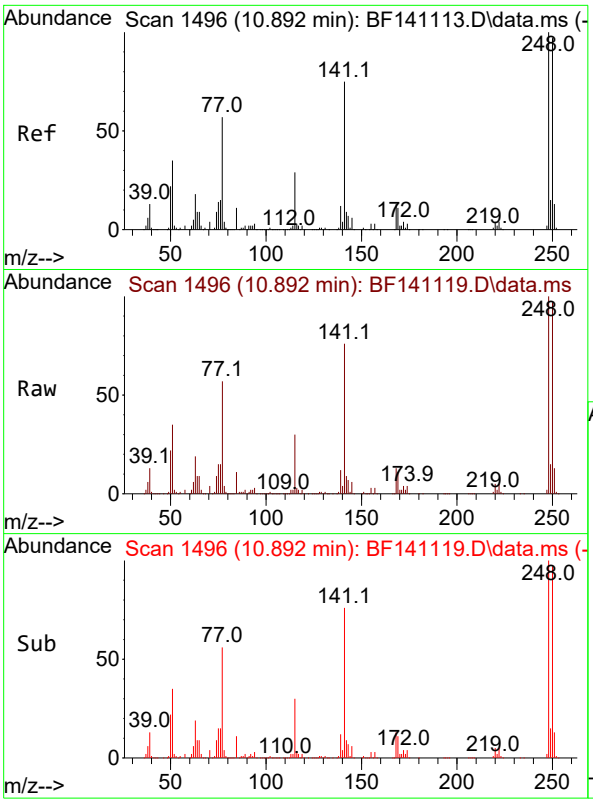


#66
n-Nitrosodiphenylamine
Concen: 71.129 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:169 Resp: 1340718

Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.5	78.7
167	36.1	28.9	43.3



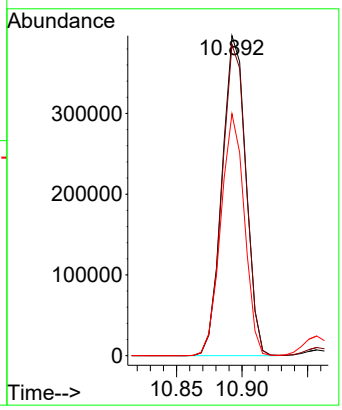


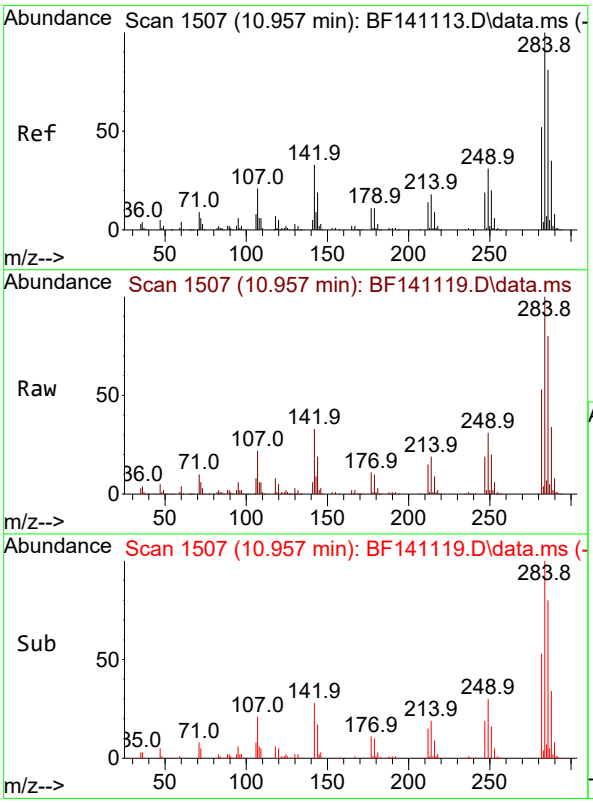
#67
4-Bromophenyl-phenylether
Concen: 74.715 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 502690

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.9	116.9
141	75.6	59.9	89.9

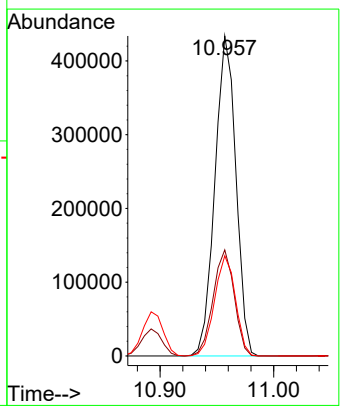


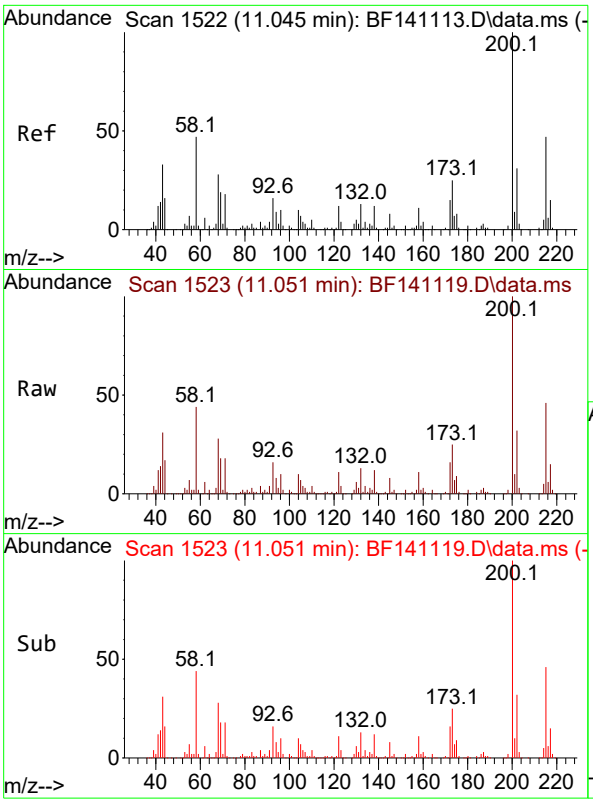


#68
Hexachlorobenzene
Concen: 74.464 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:284 Resp: 557705

Ion	Ratio	Lower	Upper
284	100		
142	33.2	26.3	39.5
249	31.3	24.9	37.3



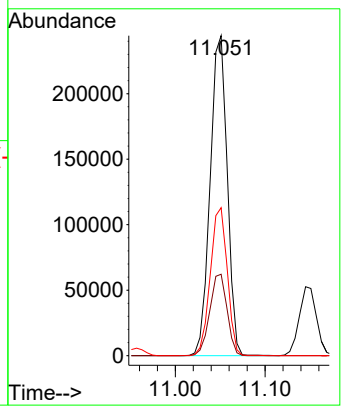


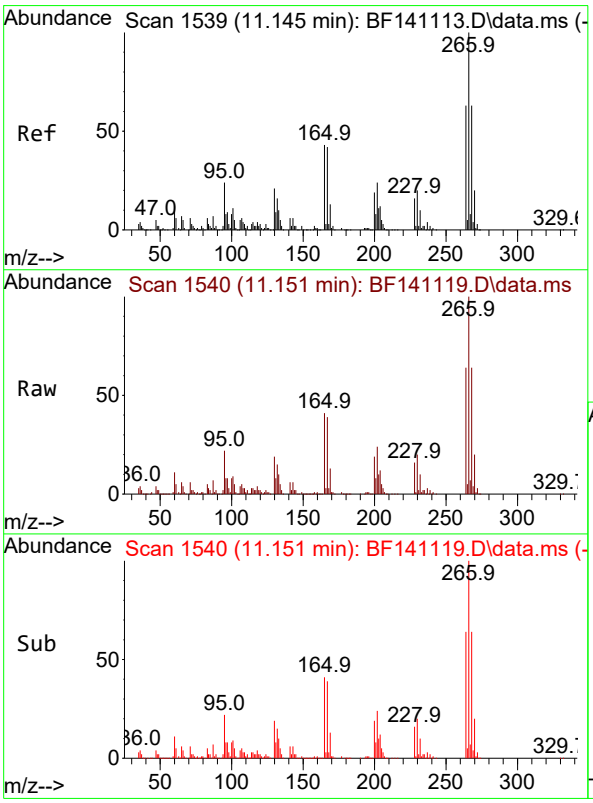
#69
Atrazine
Concen: 63.598 ng
RT: 11.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 322778

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.4	45.4
215	46.3	26.6	66.6

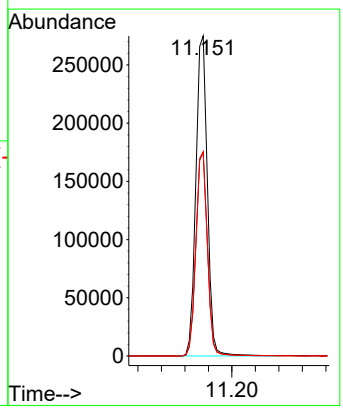


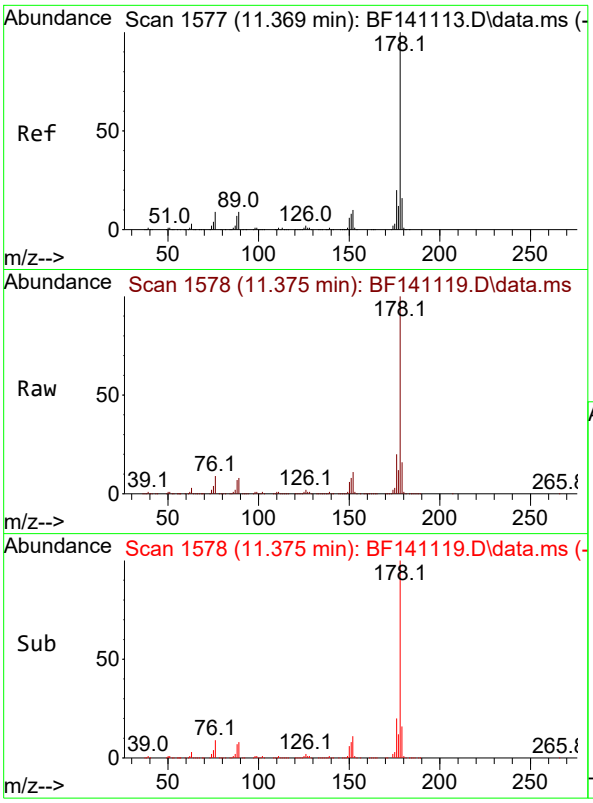


#70
Pentachlorophenol
Concen: 77.927 ng
RT: 11.151 min Scan# 1540
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:266 Resp: 373762

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.4	75.6
264	63.8	50.2	75.2



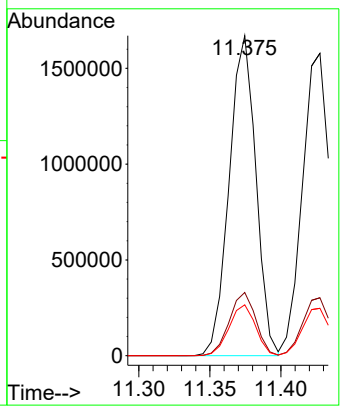


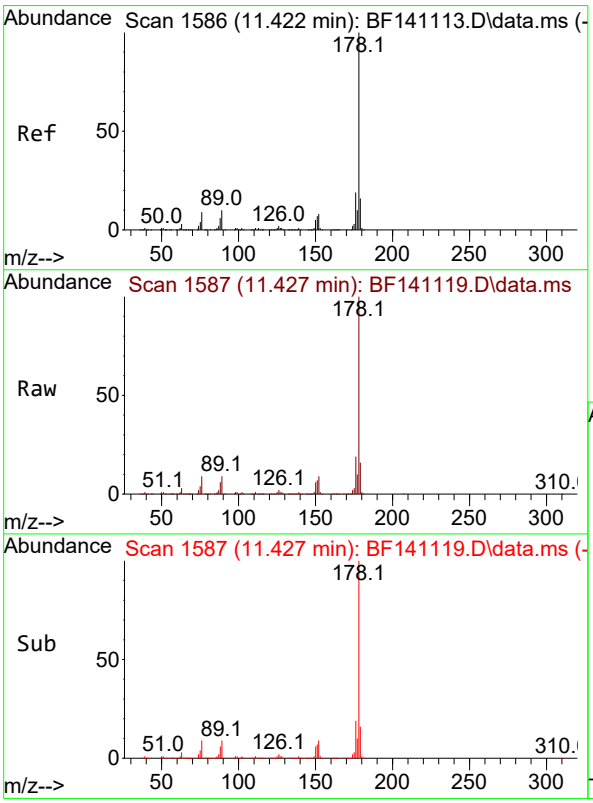
#71
Phenanthrene
Concen: 69.691 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 2186474

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.9	12.6	19.0

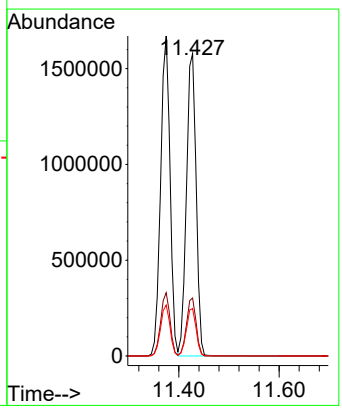


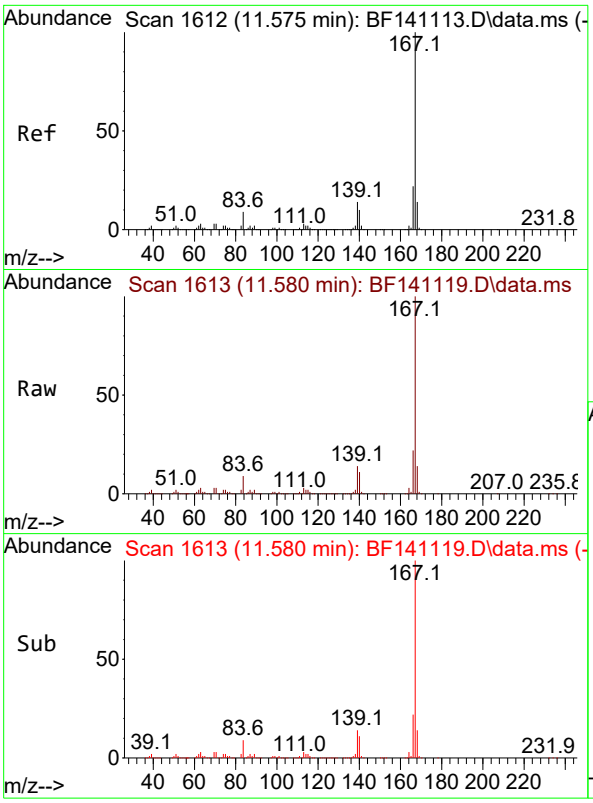


#72
Anthracene
Concen: 69.565 ng
RT: 11.427 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:178 Resp: 2122167

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.9	22.3
179	15.7	12.6	19.0



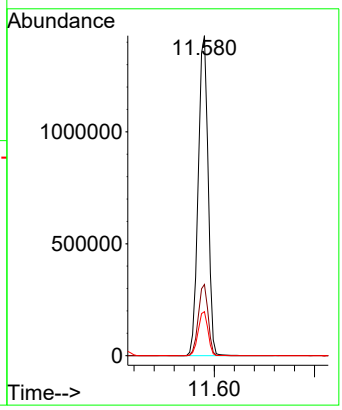


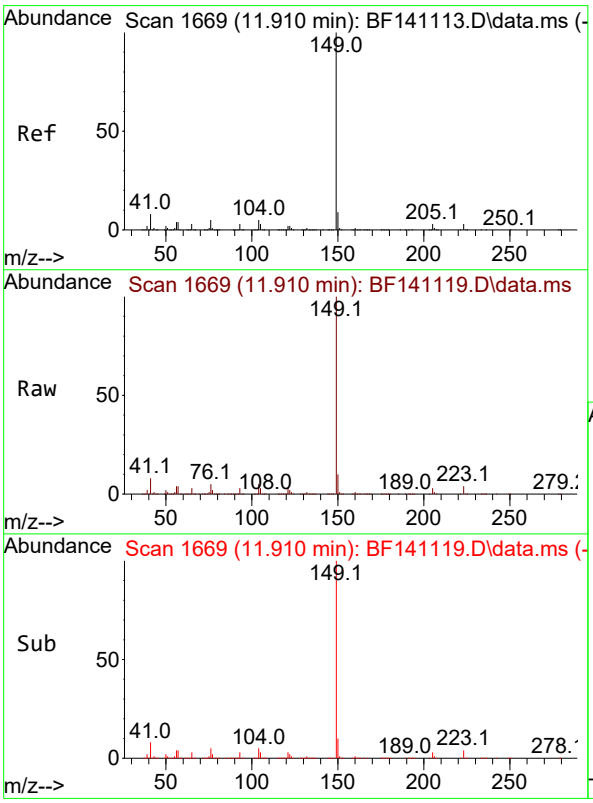
#73
Carbazole
Concen: 69.597 ng
RT: 11.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 1946776

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.4	26.2
139	13.8	10.9	16.3

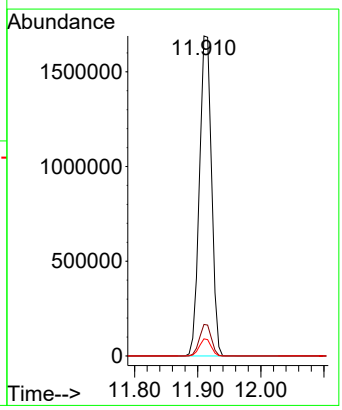


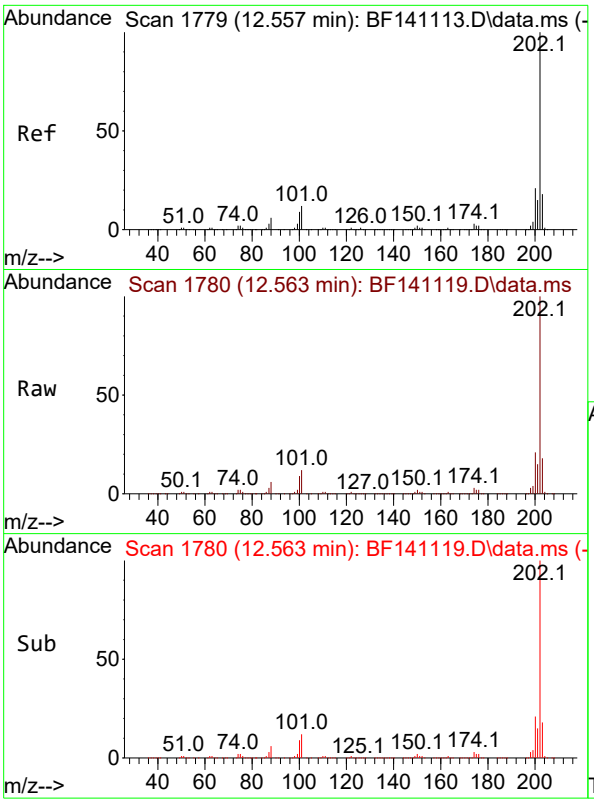


#74
Di-n-butylphthalate
Concen: 69.986 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:149 Resp: 2240405

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.4	11.2
104	5.4	4.2	6.2



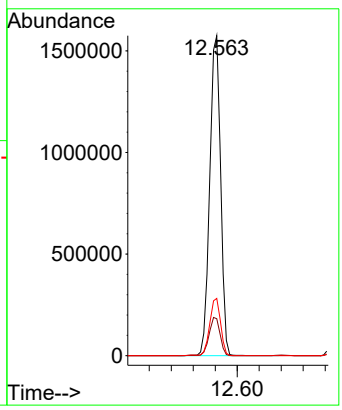


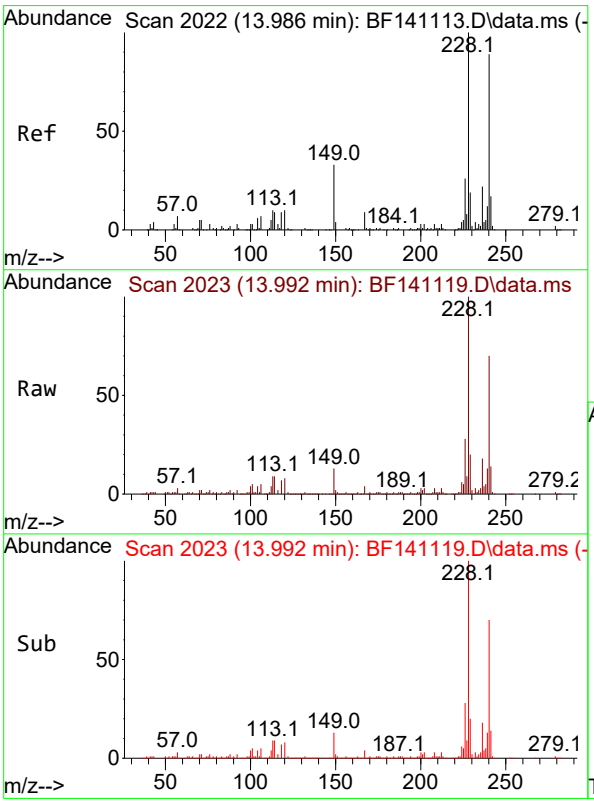
#75
Fluoranthene
Concen: 68.895 ng
RT: 12.563 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 2156966

Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	32.3
203	17.9	0.0	37.7

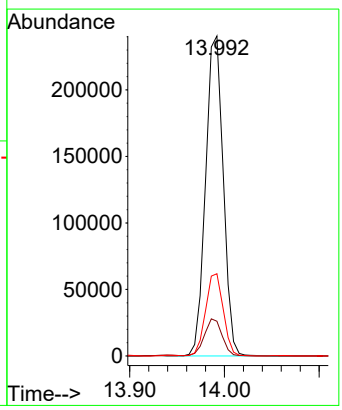


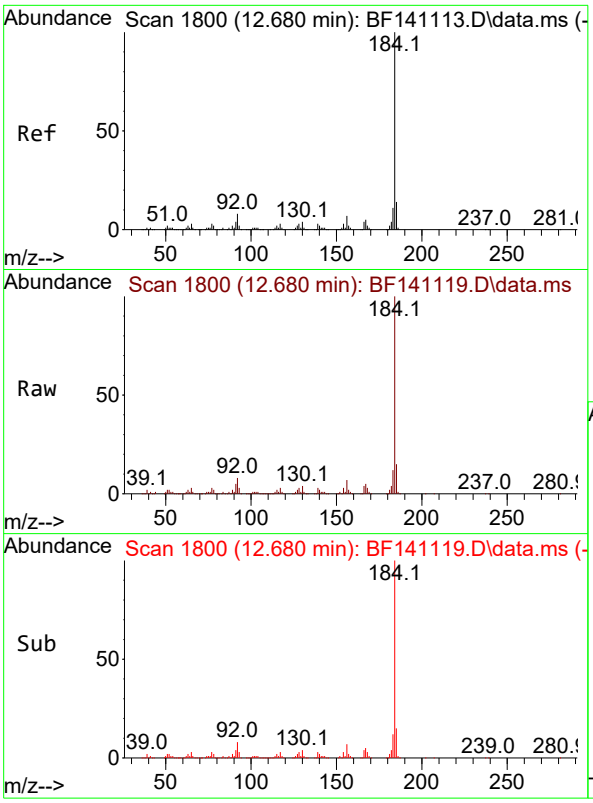


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:240 Resp: 310879

Ion	Ratio	Lower	Upper
240	100		
120	10.8	9.1	13.7
236	25.7	19.8	29.6



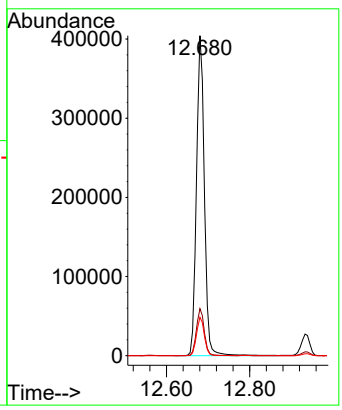


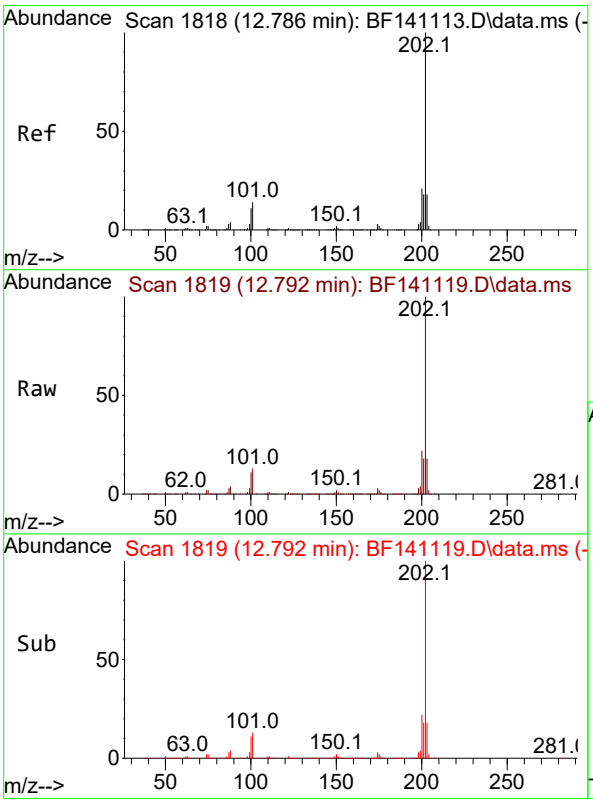
#77
Benzidine
Concen: 92.821 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 535121

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.4	17.0
183	12.0	9.2	13.8

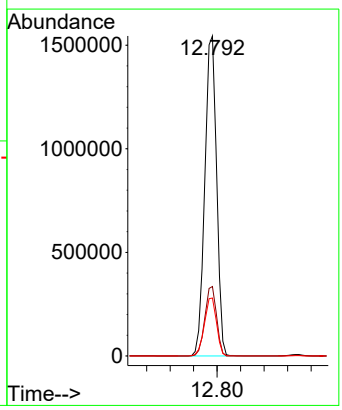


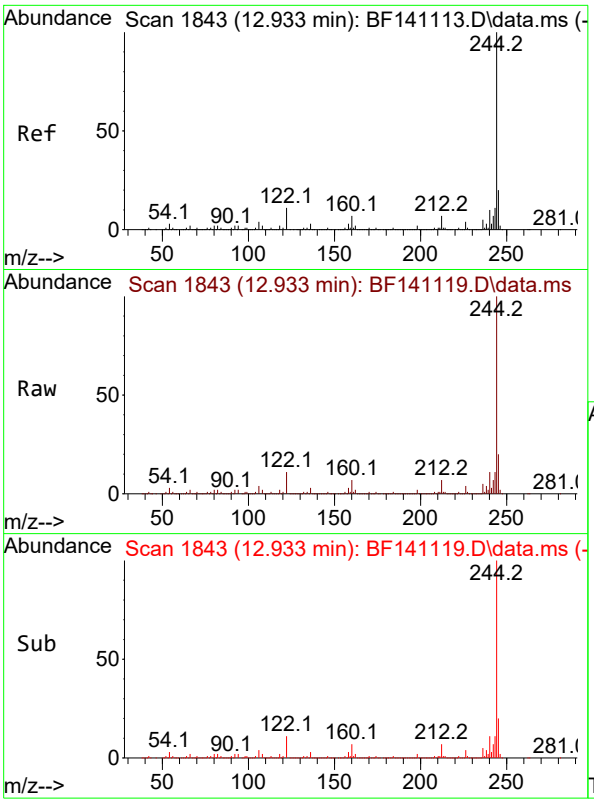


#78
Pyrene
Concen: 72.034 ng
RT: 12.792 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:202 Resp: 2138910

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.8	25.2
203	18.1	14.3	21.5



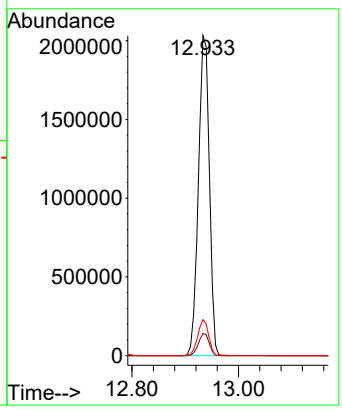


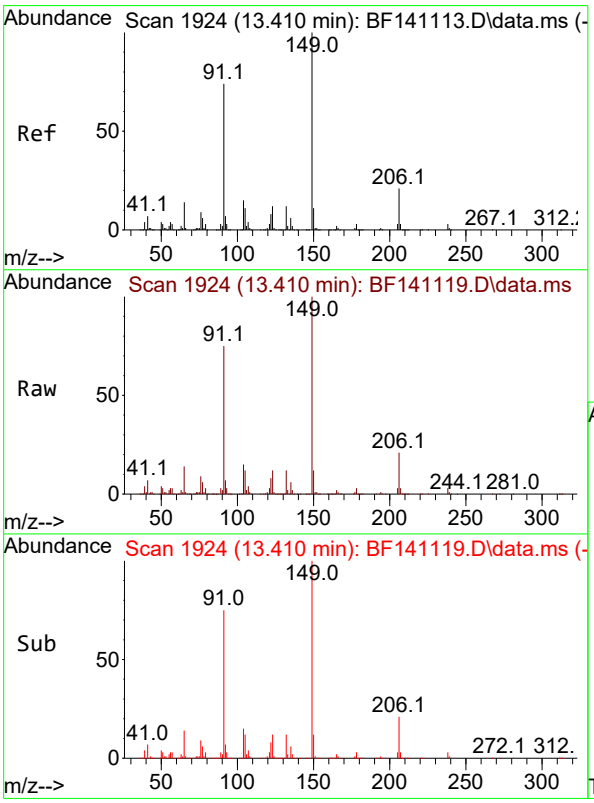
#79
Terphenyl-d14
Concen: 138.433 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 2895506

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	11.3	8.8	13.2

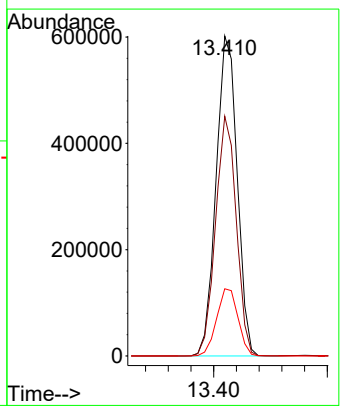


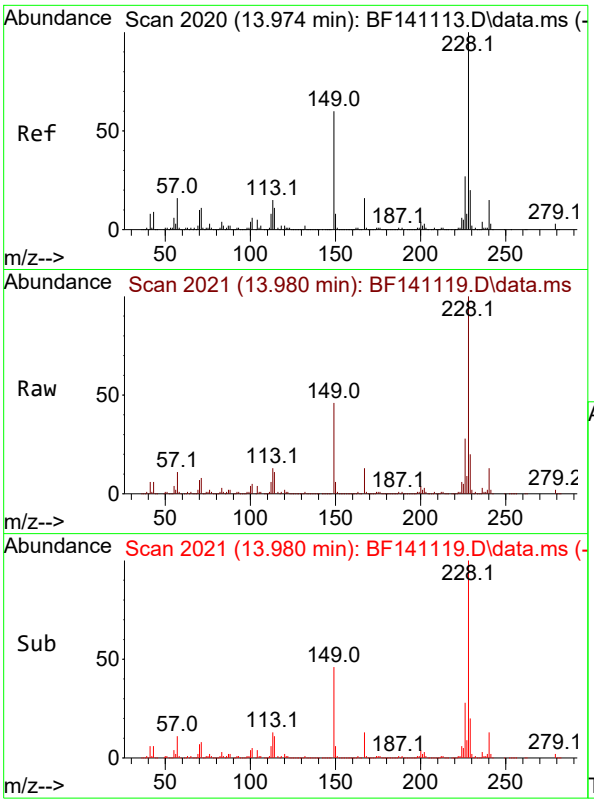


#80
Butylbenzylphthalate
Concen: 78.297 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:149 Resp: 775127

Ion	Ratio	Lower	Upper
149	100		
91	74.9	59.0	88.6
206	21.0	16.5	24.7



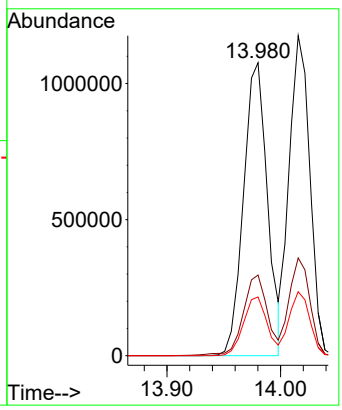


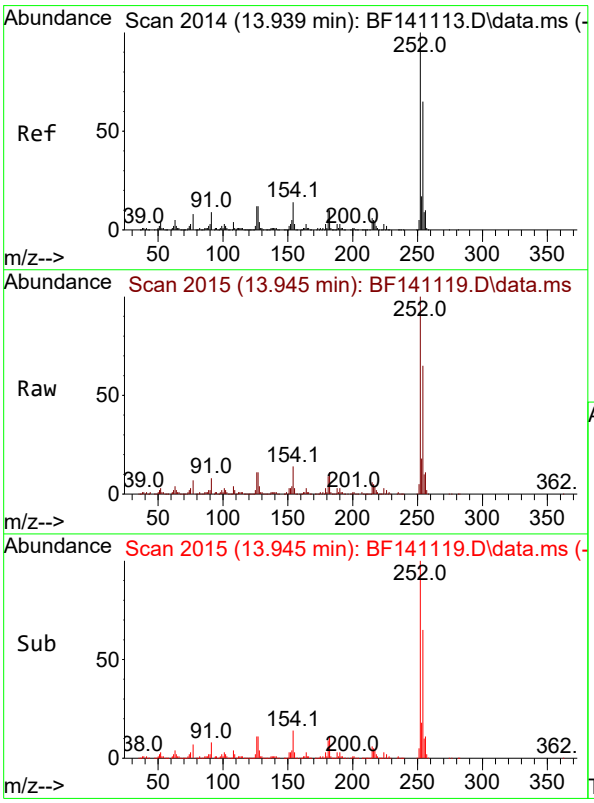
#81
Benzo(a)anthracene
Concen: 74.414 ng
RT: 13.980 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 1574387

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.7	32.5
229	20.0	15.7	23.5

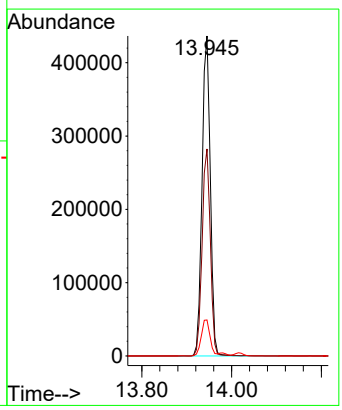


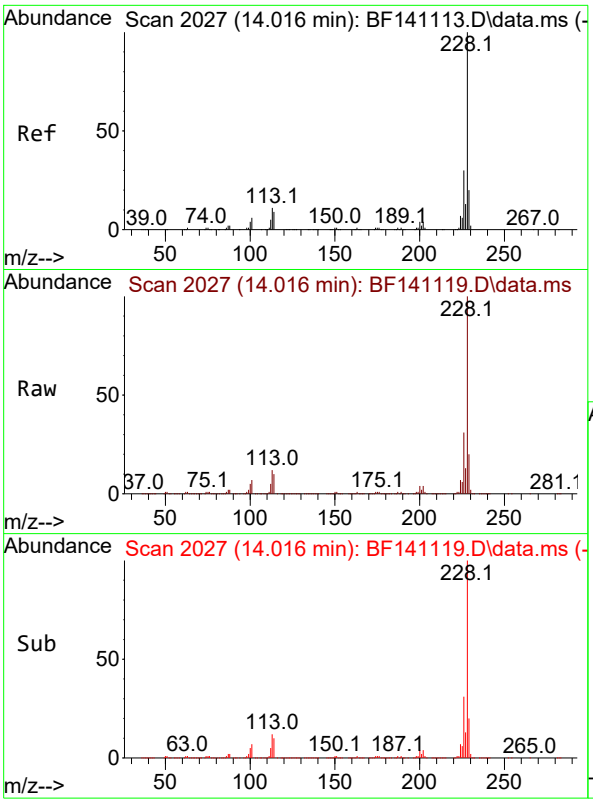


#82
3,3'-Dichlorobenzidine
Concen: 82.781 ng
RT: 13.945 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:252 Resp: 557682

Ion	Ratio	Lower	Upper
252	100		
254	64.7	52.0	78.0
126	11.3	9.4	14.0



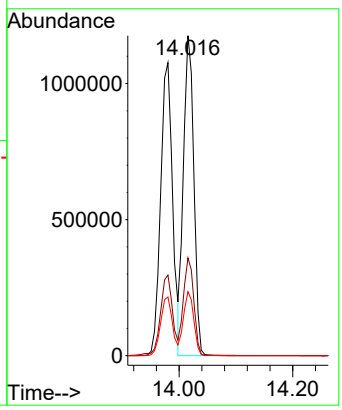


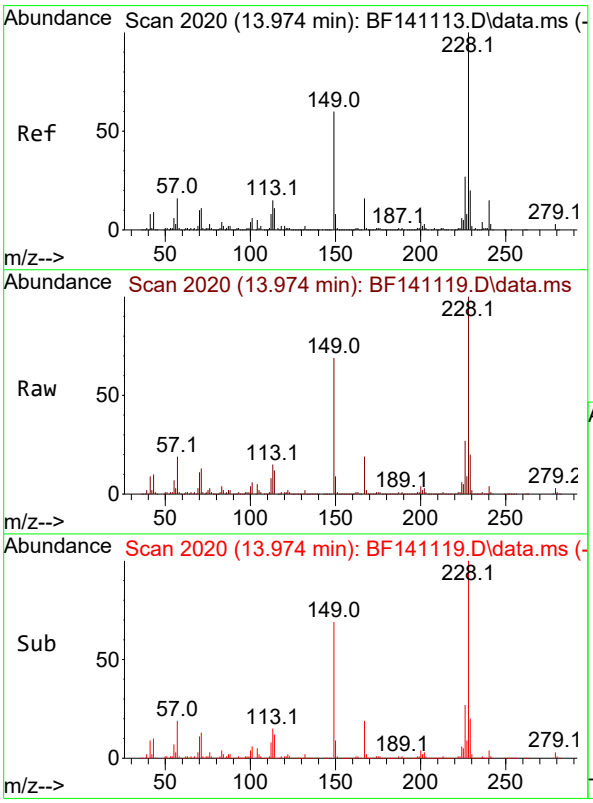
#83
Chrysene
Concen: 75.370 ng
RT: 14.016 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 1492065

Ion	Ratio	Lower	Upper
228	100		
226	30.6	23.8	35.8
229	20.0	15.8	23.8

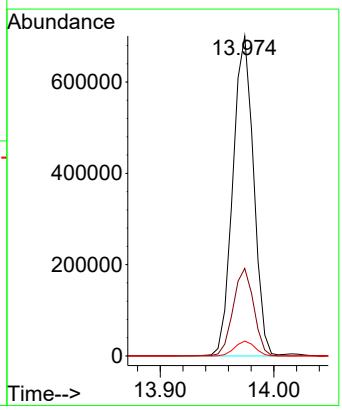


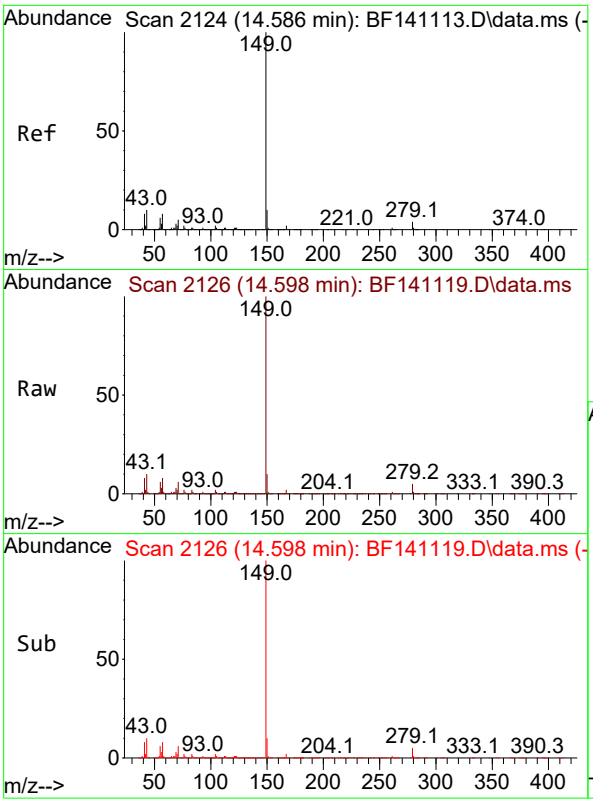


#84
Bis(2-ethylhexyl)phthalate
Concen: 74.589 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:149 Resp: 885991

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.4	32.2
279	4.7	3.4	5.2



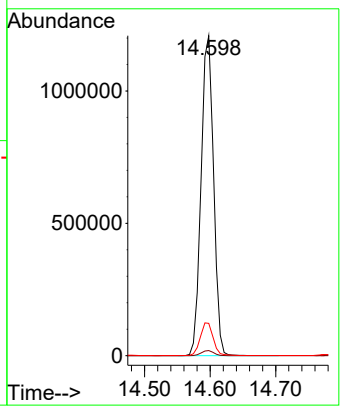


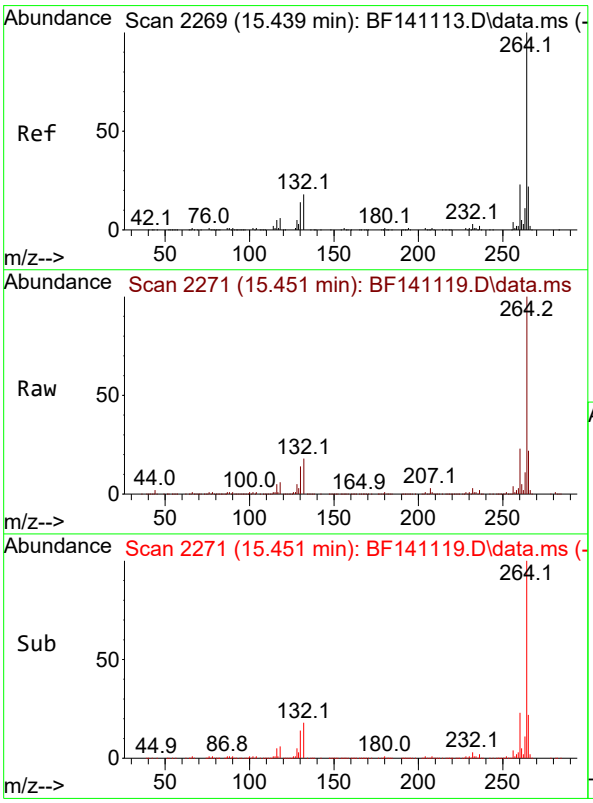
#85
Di-n-octyl phthalate
Concen: 89.471 ng
RT: 14.598 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1604851

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.6	8.4	12.6

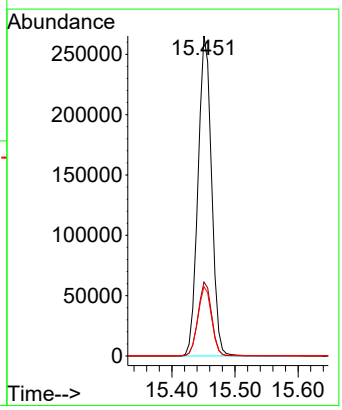


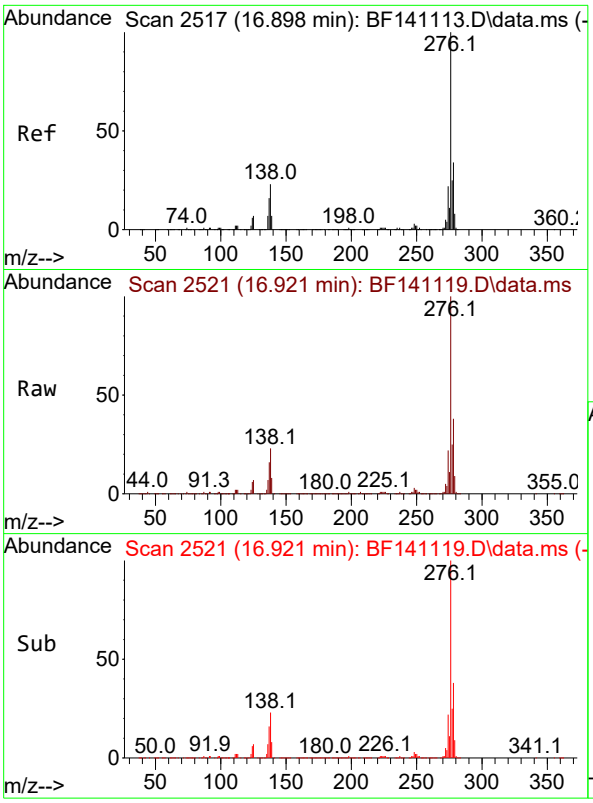


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:264 Resp: 395988

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.7	17.4	26.0



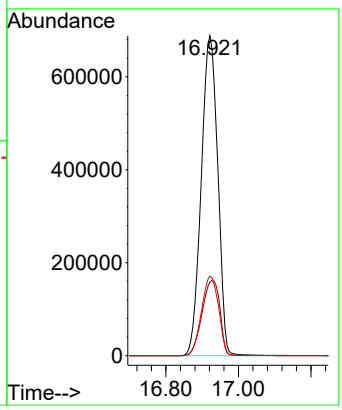


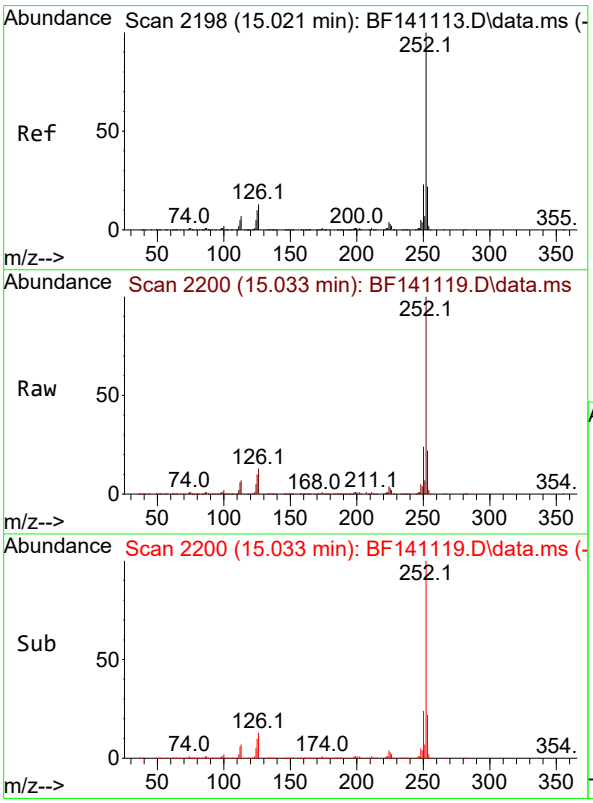
#87
Indeno(1,2,3-cd)pyrene
Concen: 75.032 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 2176761

Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.7	31.1
277	25.7	20.6	30.8

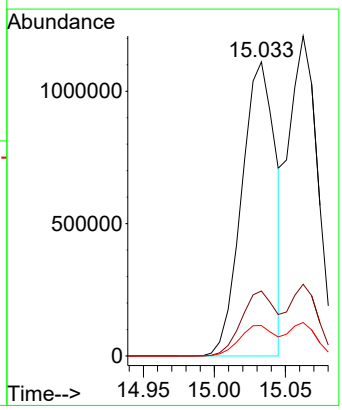


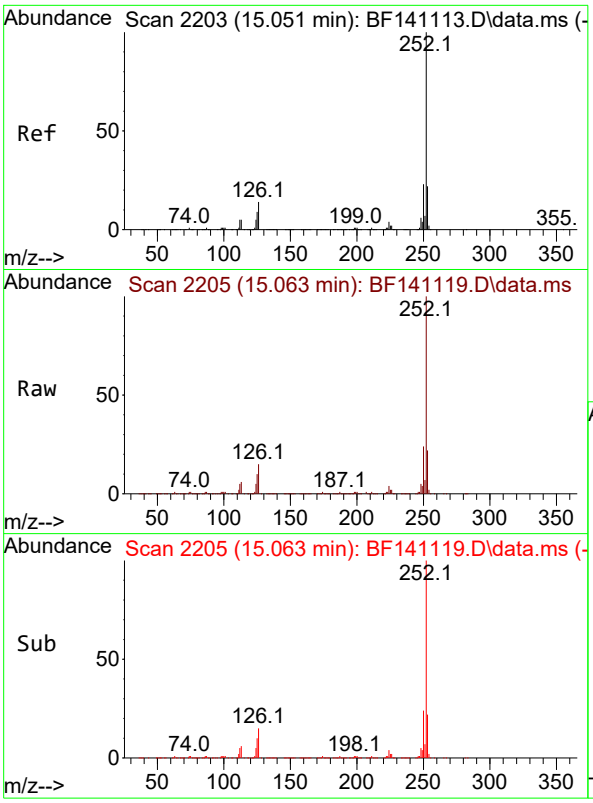


#88
Benzo(b)fluoranthene
Concen: 71.685 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:252 Resp: 1830448

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.3	8.1	12.1



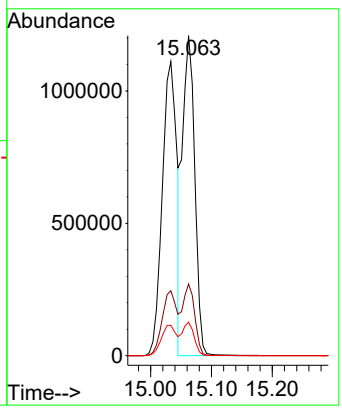


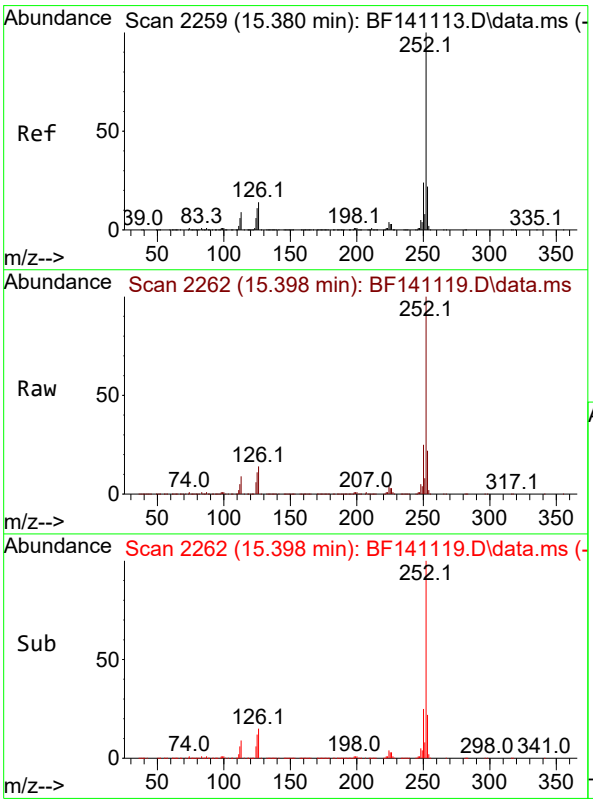
#89
Benzo(k)fluoranthene
Concen: 78.843 ng
RT: 15.063 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1701343

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	10.5	7.9	11.9

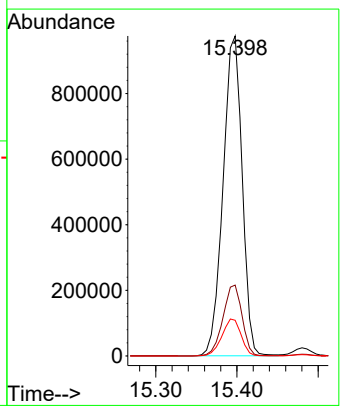


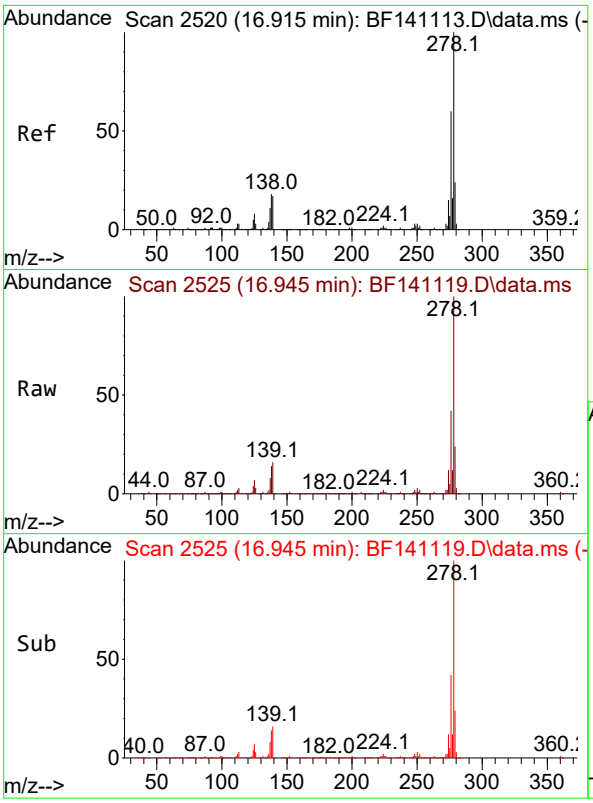


#90
Benzo(a)pyrene
Concen: 75.707 ng
RT: 15.398 min Scan# 2262
Delta R.T. 0.018 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:252 Resp: 1594959

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.1	9.1	13.7



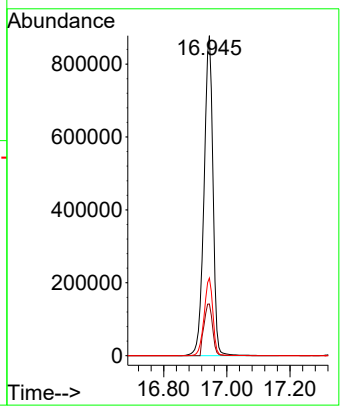


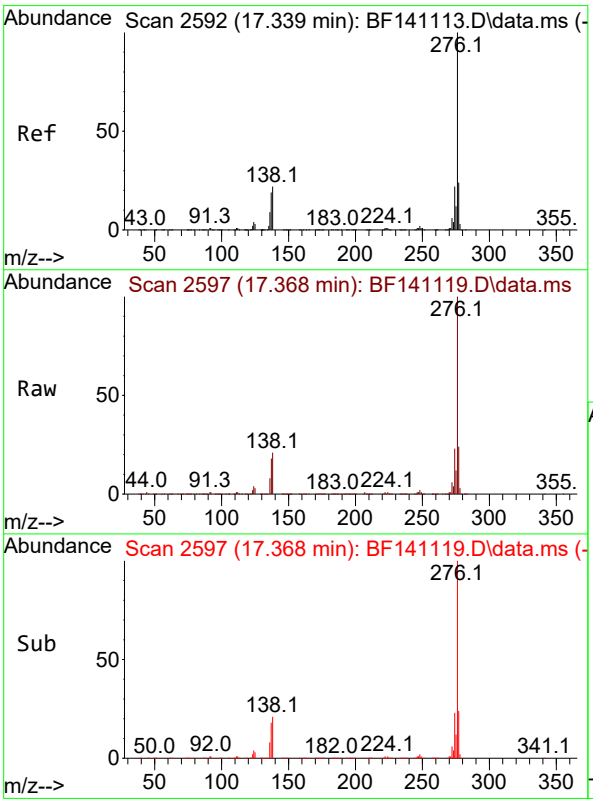
#91
Dibenzo(a,h)anthracene
Concen: 73.436 ng
RT: 16.945 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 1723136

Ion	Ratio	Lower	Upper
278	100		
139	16.1	13.8	20.6
279	24.2	19.1	28.7

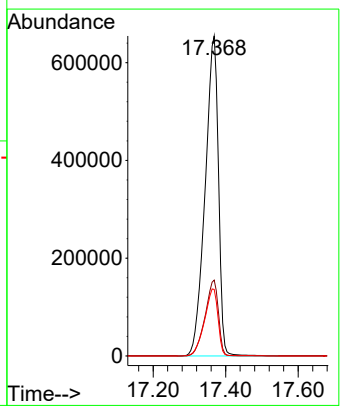




#92
Benzo(g,h,i)perylene
Concen: 68.190 ng
RT: 17.368 min Scan# 2597
Delta R.T. 0.029 min
Lab File: BF141119.D
Acq: 10 Jan 2025 17:45

Tgt Ion:276 Resp: 1664293

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	20.8	17.4	26.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141165.D
Acq On : 15 Jan 2025 10:26
Operator : RC/JU
Sample : PB166035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Quant Time: Jan 15 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	141578	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	559409	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	296383	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	515619	20.000	ng		0.00
76) Chrysene-d12	13.986	240	346259	20.000	ng		0.00
86) Perylene-d12	15.445	264	300143	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.440	112	1172779	127.966	ng		0.01
7) Phenol-d6	6.451	99	1474065	126.975	ng		0.00
23) Nitrobenzene-d5	7.387	82	936087	88.702	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	495813	146.817	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1718604	88.547	ng		0.00
79) Terphenyl-d14	12.933	244	2066373	88.698	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	160491	39.324	ng		99
3) Pyridine	3.381	79	403464	40.314	ng		97
4) n-Nitrosodimethylamine	3.328	42	219085	44.770	ng		99
6) Aniline	6.481	93	412595	40.030	ng		95
8) 2-Chlorophenol	6.604	128	462455	47.032	ng		97
9) Benzaldehyde	6.369	77	57336	8.386	ng		98
10) Phenol	6.463	94	559240	45.001	ng		94
11) bis(2-Chloroethyl)ether	6.557	93	420510	45.405	ng		97
12) 1,3-Dichlorobenzene	6.763	146	482405	43.989	ng		99
13) 1,4-Dichlorobenzene	6.840	146	488566	44.210	ng		99
14) 1,2-Dichlorobenzene	6.993	146	468309	45.430	ng		98
15) Benzyl Alcohol	6.963	79	398751	47.562	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.093	45	565830	43.782	ng		96
17) 2-Methylphenol	7.075	107	367457	46.289	ng		99
18) Hexachloroethane	7.334	117	181232	45.349	ng		96
19) n-Nitroso-di-n-propyla...	7.234	70	305153	44.623	ng		99
20) 3+4-Methylphenols	7.222	107	453804	45.312	ng		92
22) Acetophenone	7.228	105	598908	45.036	ng	#	94
24) Nitrobenzene	7.404	77	472430	42.953	ng		99
25) Isophorone	7.645	82	826977	45.854	ng		98
26) 2-Nitrophenol	7.716	139	240239	48.018	ng		96
27) 2,4-Dimethylphenol	7.757	122	371757	55.087	ng		100
28) bis(2-Chloroethoxy)met...	7.851	93	500129	44.187	ng		100
29) 2,4-Dichlorophenol	7.957	162	374851	46.769	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	394294	43.039	ng		99
31) Naphthalene	8.128	128	1315926	44.606	ng		100
32) Benzoic acid	7.869	122	284542	43.954	ng		99
33) 4-Chloroaniline	8.169	127	225845	22.136	ng		99
34) Hexachlorobutadiene	8.245	225	241357	43.722	ng		100
35) Caprolactam	8.540	113	74292	28.312	ng		97
36) 4-Chloro-3-methylphenol	8.651	107	410698	46.854	ng		97
37) 2-Methylnaphthalene	8.816	142	857406	45.609	ng		99
38) 1-Methylnaphthalene	8.916	142	789241	42.599	ng		99
40) 1,2,4,5-Tetrachloroben...	8.987	216	389876	45.831	ng		99
41) Hexachlorocyclopentadiene	8.969	237	496501	178.397	ng		100
43) 2,4,6-Trichlorophenol	9.092	196	276357	48.169	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141165.D
Acq On : 15 Jan 2025 10:26
Operator : RC/JU
Sample : PB166035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Quant Time: Jan 15 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

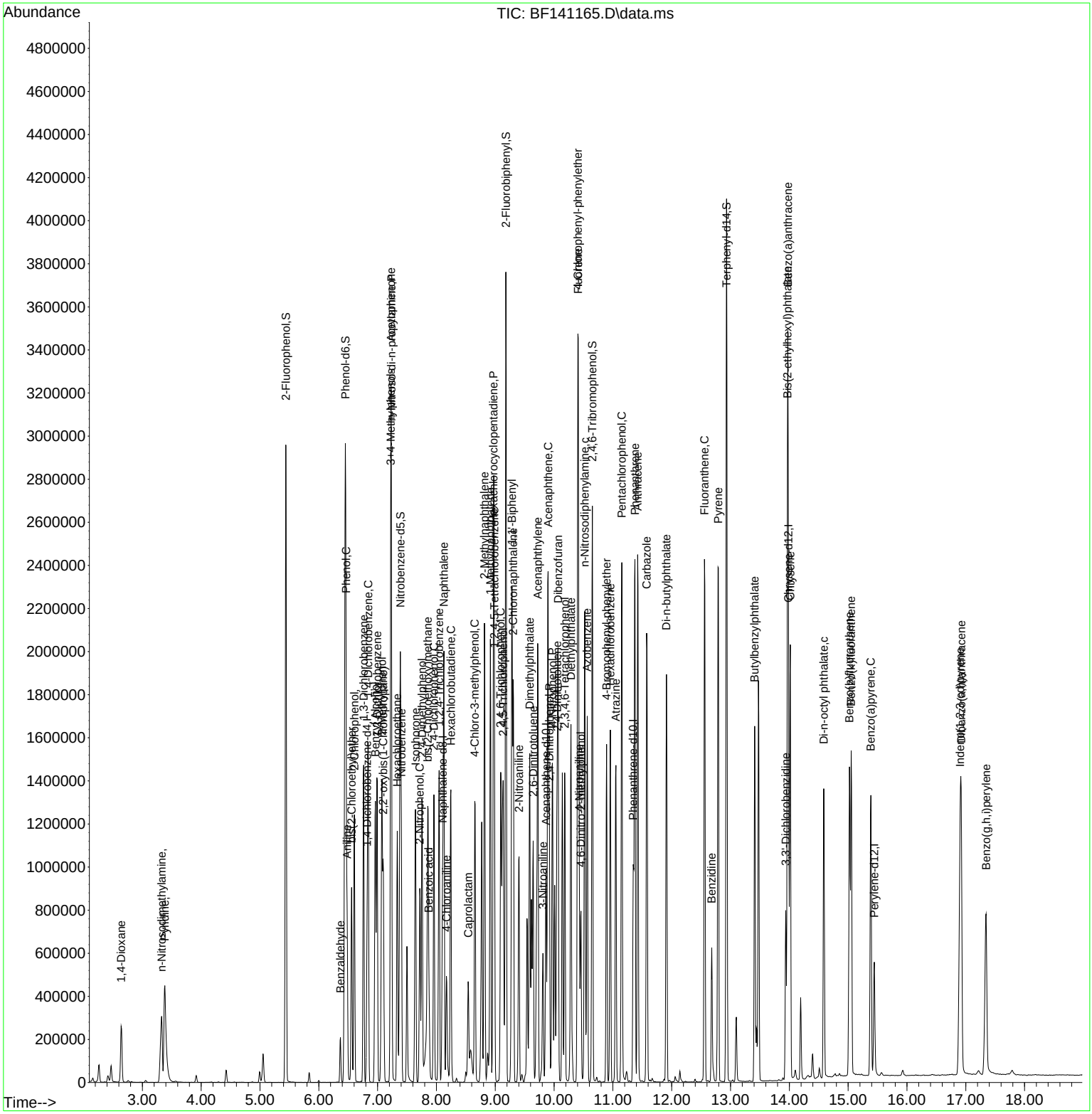
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.134	196	272593	44.988	ng	99
46) 1,1'-Biphenyl	9.281	154	1040938	45.225	ng	99
47) 2-Chloronaphthalene	9.304	162	794541	44.320	ng	100
48) 2-Nitroaniline	9.404	65	254121	47.818	ng	98
49) Acenaphthylene	9.722	152	1247717	48.714	ng	99
50) Dimethylphthalate	9.586	163	919633	46.219	ng	100
51) 2,6-Dinitrotoluene	9.645	165	208657	45.095	ng	98
52) Acenaphthene	9.898	154	923120	51.587	ng	100
53) 3-Nitroaniline	9.810	138	132071	28.088	ng	99
54) 2,4-Dinitrophenol	9.922	184	235763	107.198	ng	95
55) Dibenzofuran	10.069	168	1124811	46.212	ng	99
56) 4-Nitrophenol	9.975	139	371142	100.786	ng	98
57) 2,4-Dinitrotoluene	10.051	165	294883	49.452	ng	98
58) Fluorene	10.410	166	875091	46.277	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.181	232	247930	49.226	ng	99
60) Diethylphthalate	10.286	149	881421	45.376	ng	100
61) 4-Chlorophenyl-phenyle...	10.404	204	416366	45.177	ng	99
62) 4-Nitroaniline	10.428	138	223312	48.524	ng	99
63) Azobenzene	10.563	77	869933	45.387	ng	99
65) 4,6-Dinitro-2-methylph...	10.457	198	158478	53.041	ng	96
66) n-Nitrosodiphenylamine	10.522	169	771997	46.419	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	269230	45.353	ng	98
68) Hexachlorobenzene	10.957	284	309514	46.838	ng	99
69) Atrazine	11.051	200	265941	59.388	ng	99
70) Pentachlorophenol	11.151	266	404666	95.622	ng	100
71) Phenanthrene	11.375	178	1332947	48.152	ng	99
72) Anthracene	11.422	178	1367788	50.816	ng	100
73) Carbazole	11.575	167	1223450	49.571	ng	100
74) Di-n-butylphthalate	11.910	149	1338545	47.390	ng	100
75) Fluoranthene	12.557	202	1419075	51.371	ng	99
77) Benzidine	12.680	184	337816	52.610	ng	99
78) Pyrene	12.792	202	1442231	43.609	ng	99
80) Butylbenzylphthalate	13.410	149	523212	47.451	ng	99
81) Benzo(a)anthracene	13.974	228	1103435	46.825	ng	99
82) 3,3'-Dichlorobenzidine	13.939	252	232976	31.049	ng	100
83) Chrysene	14.016	228	960710	43.571	ng	99
84) Bis(2-ethylhexyl)phtha...	13.969	149	618547	46.753	ng	99
85) Di-n-octyl phthalate	14.586	149	881680	44.131	ng	98
87) Indeno(1,2,3-cd)pyrene	16.904	276	1004718	45.691	ng	98
88) Benzo(b)fluoranthene	15.021	252	949809	49.075	ng	99
89) Benzo(k)fluoranthene	15.051	252	768181	46.966	ng	100
90) Benzo(a)pyrene	15.386	252	807216	50.551	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	806473	45.345	ng	98
92) Benzo(g,h,i)perylene	17.345	276	761728	41.176	ng	99

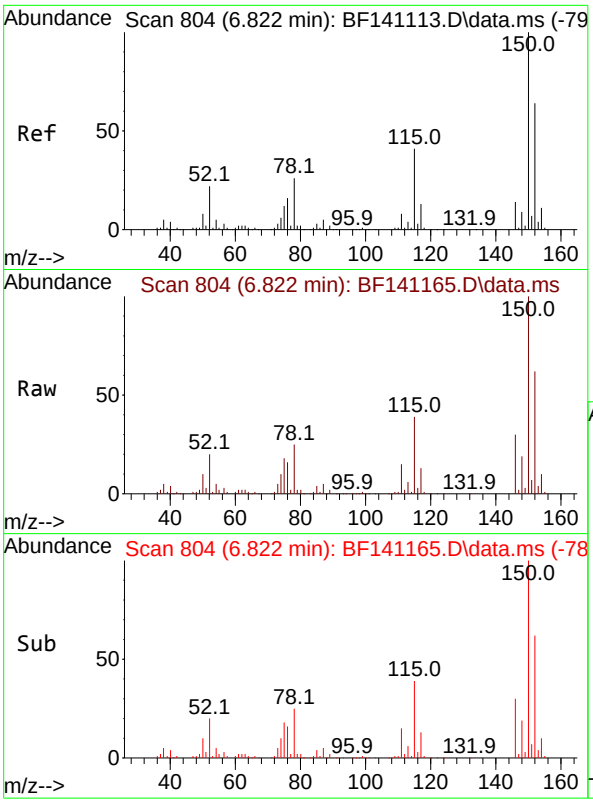
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141165.D
Acq On : 15 Jan 2025 10:26
Operator : RC/JU
Sample : PB166035BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Quant Time: Jan 15 15:25:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



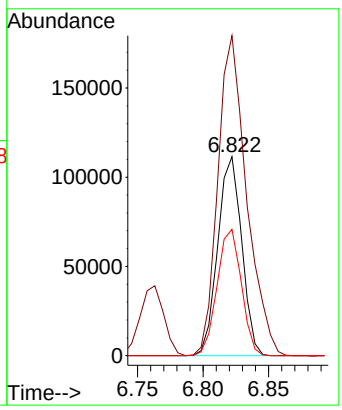


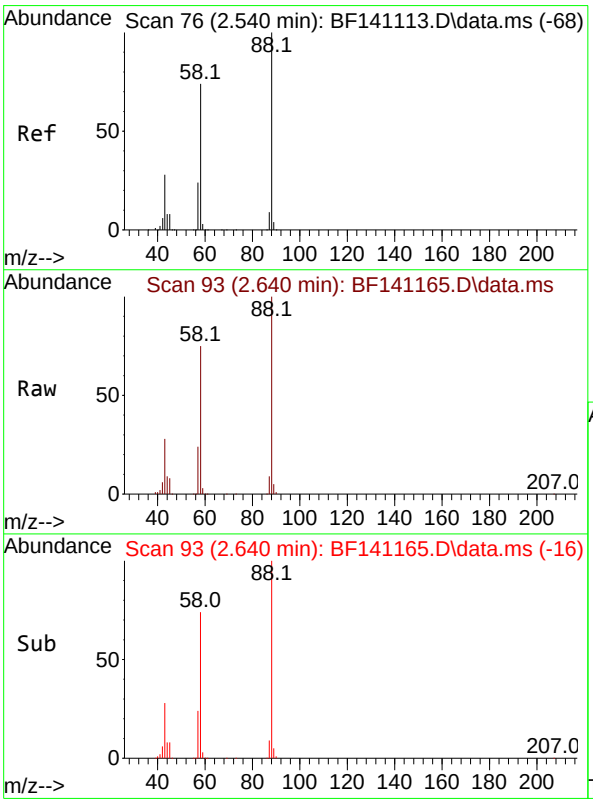
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:152 Resp: 141578

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.8	188.8
115	63.5	51.4	77.2

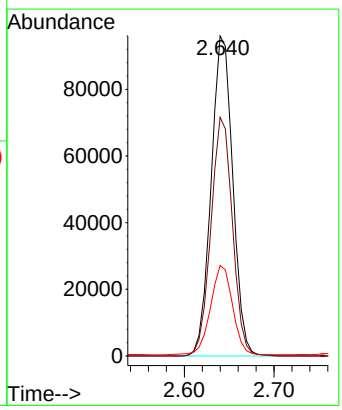


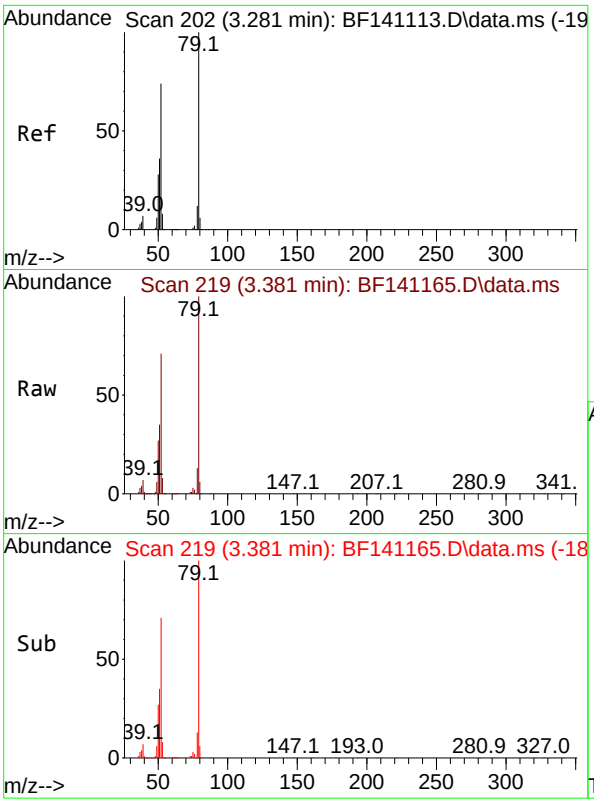


#2
1,4-Dioxane
Concen: 39.324 ng
RT: 2.640 min Scan# 93
Delta R.T. 0.100 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 88 Resp: 160491

Ion	Ratio	Lower	Upper
88	100		
58	74.3	60.1	90.1
43	28.5	23.1	34.7



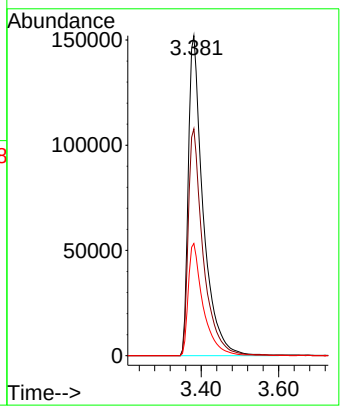


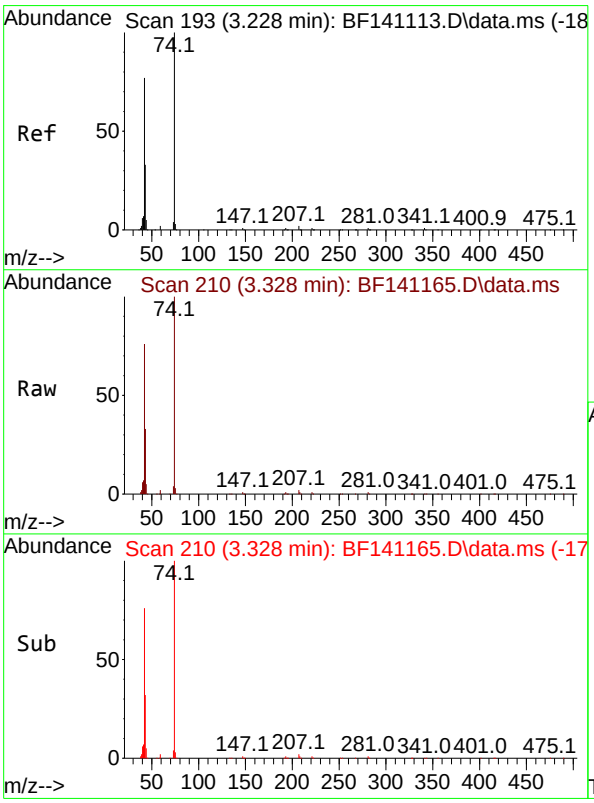
#3
Pyridine
Concen: 40.314 ng
RT: 3.381 min Scan# 21
Delta R.T. 0.100 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 79 Resp: 403464

Ion	Ratio	Lower	Upper
79	100		
52	70.9	58.9	88.3
51	35.0	29.1	43.7

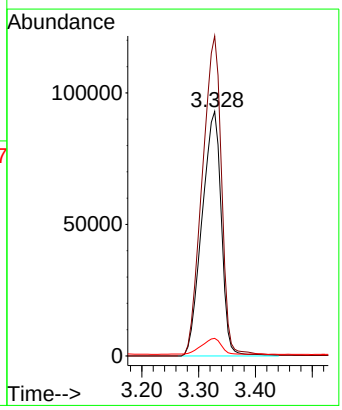


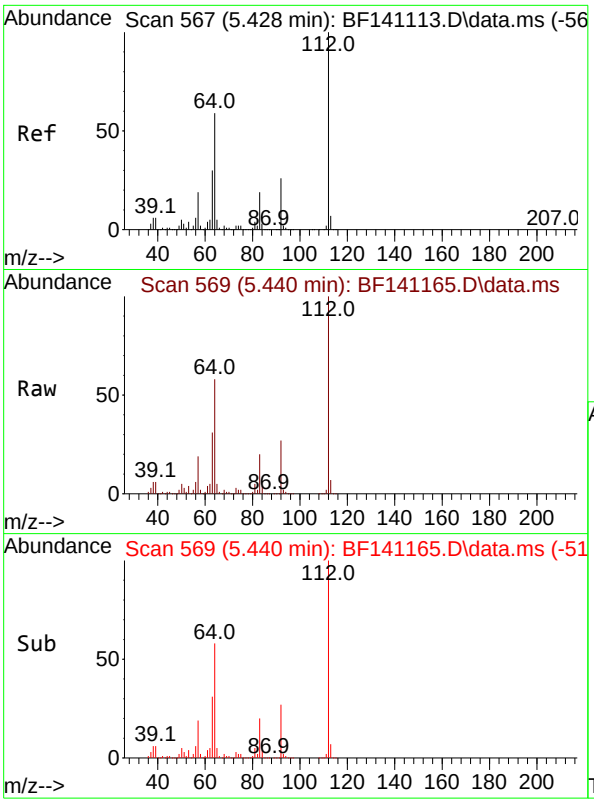


#4
n-Nitrosodimethylamine
Concen: 44.770 ng
RT: 3.328 min Scan# 210
Delta R.T. 0.100 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 42 Resp: 219085

Ion	Ratio	Lower	Upper
42	100		
74	130.9	103.8	155.6
44	7.2	5.3	7.9



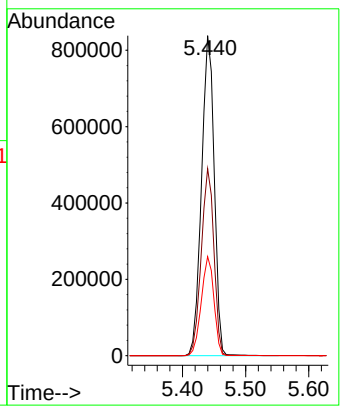


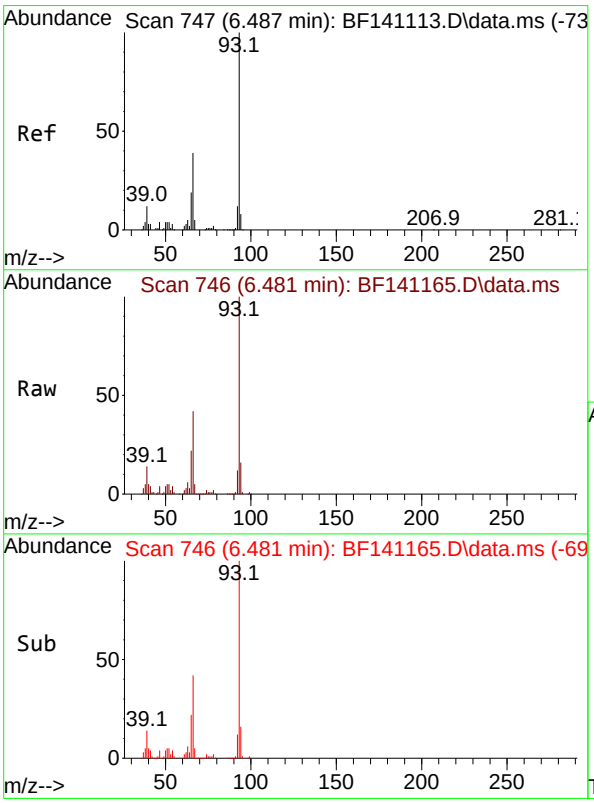
#5
2-Fluorophenol
Concen: 127.966 ng
RT: 5.440 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:112 Resp: 1172779

Ion	Ratio	Lower	Upper
112	100		
64	58.5	47.3	70.9
63	31.0	24.2	36.2

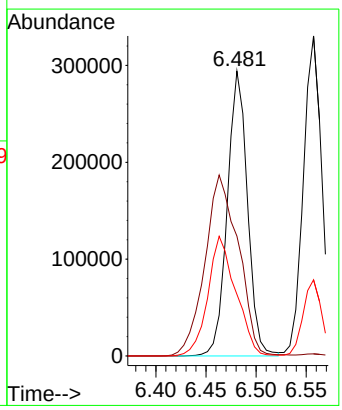


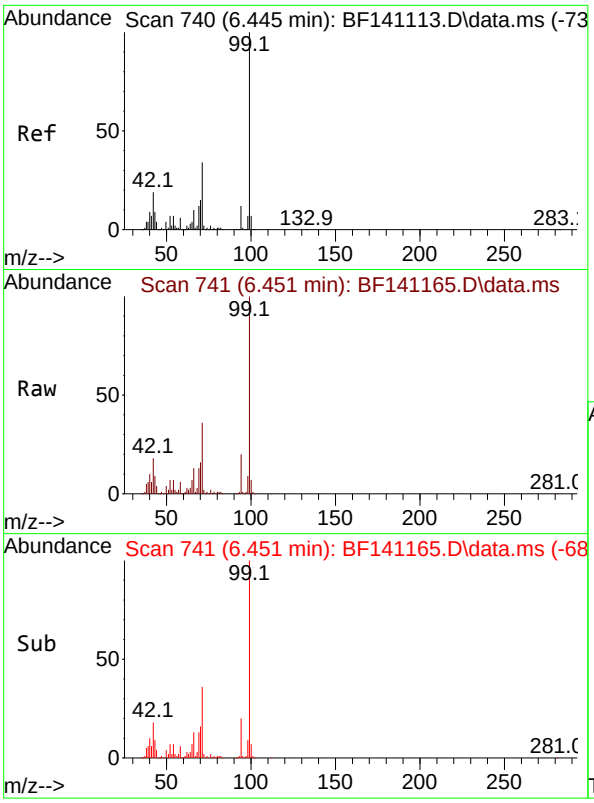


#6
Aniline
Concen: 40.030 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 93 Resp: 412595

Ion	Ratio	Lower	Upper
93	100		
66	42.1	31.5	47.3
65	21.6	15.3	22.9



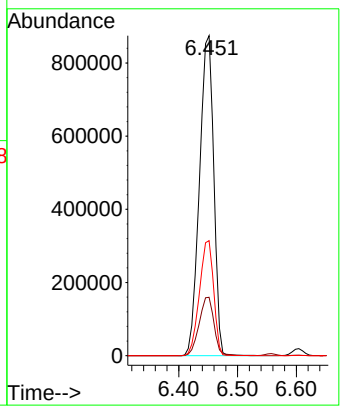


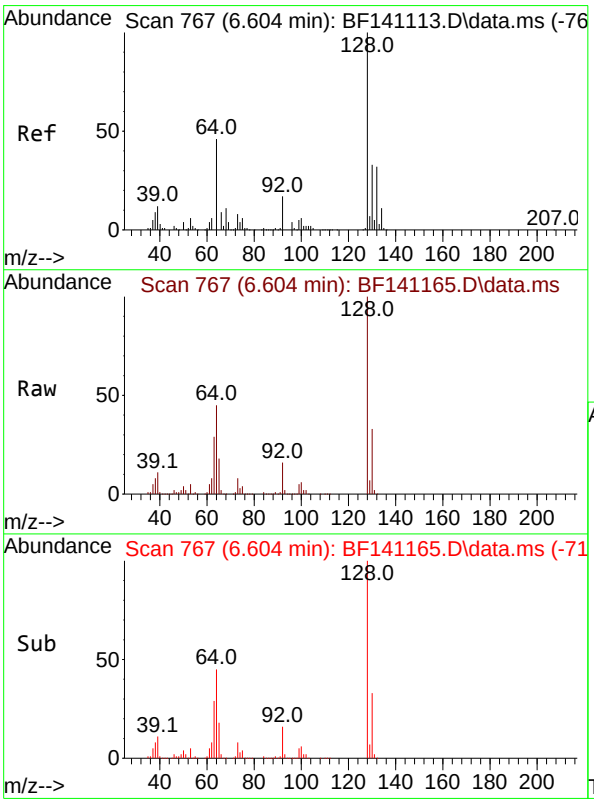
#7
Phenol-d6
Concen: 126.975 ng
RT: 6.451 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 99 Resp: 1474065

Ion	Ratio	Lower	Upper
99	100		
42	18.3	15.0	22.4
71	36.0	27.6	41.4

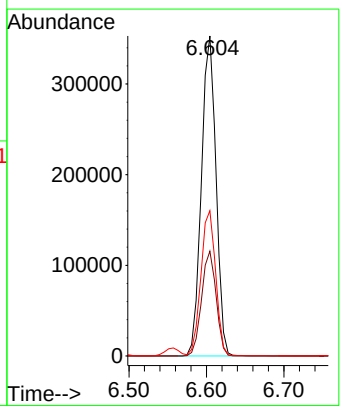


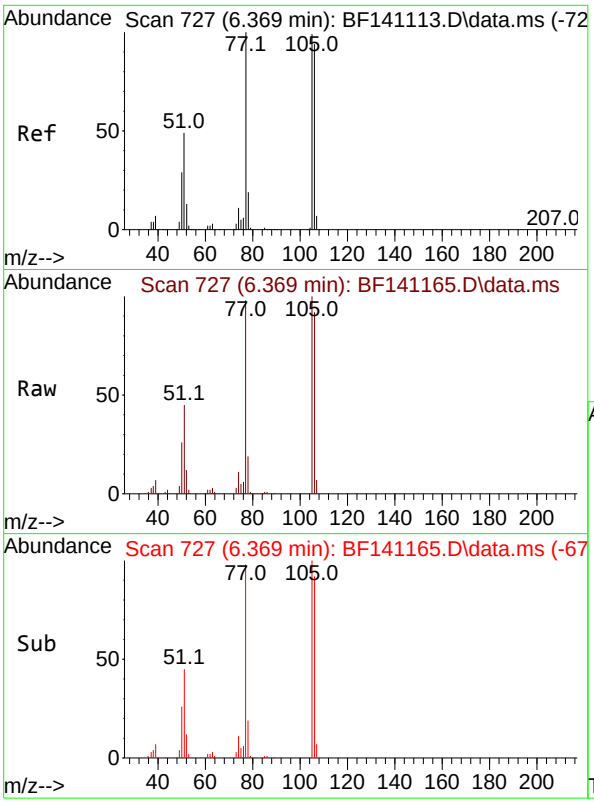


#8
2-Chlorophenol
Concen: 47.032 ng
RT: 6.604 min Scan# 767
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:128 Resp: 462455

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.5	52.5
64	45.4	28.3	68.3



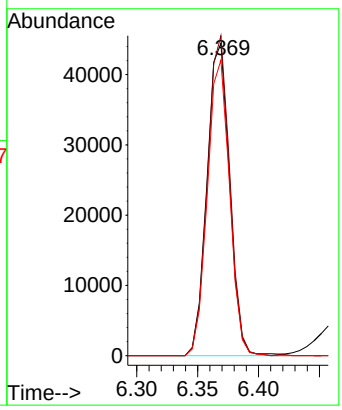


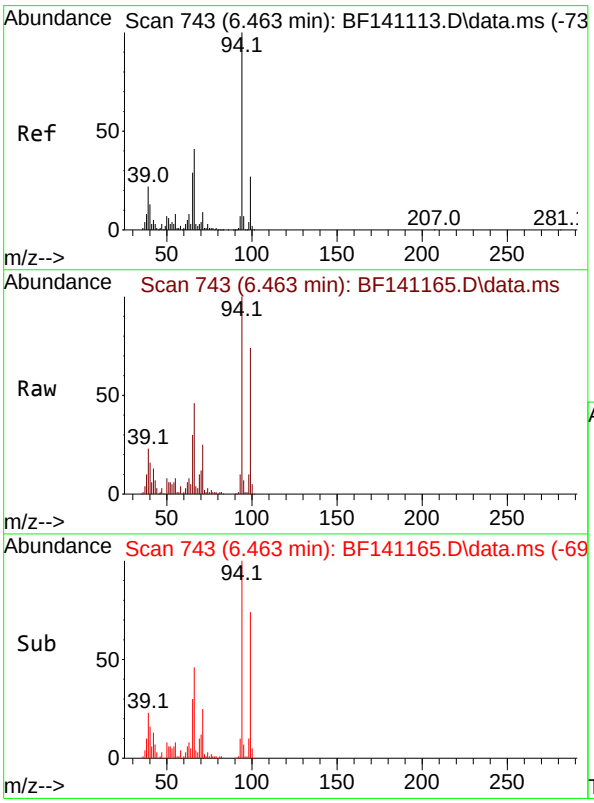
#9
Benzaldehyde
Concen: 8.386 ng
RT: 6.369 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 77 Resp: 57336

Ion	Ratio	Lower	Upper
77	100		
105	102.4	78.9	118.9
106	94.6	73.6	113.6

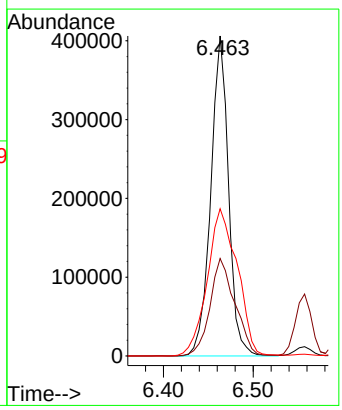


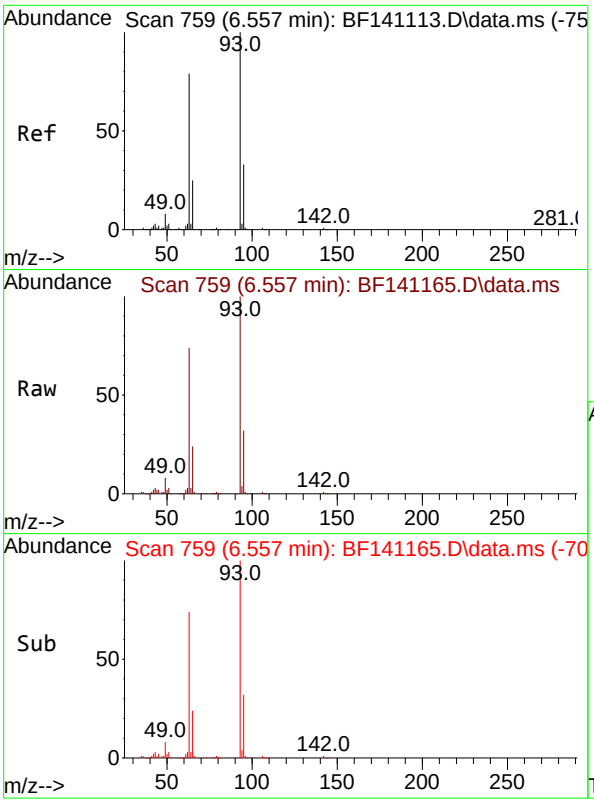


#10
Phenol
Concen: 45.001 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 94 Resp: 559240

Ion	Ratio	Lower	Upper
94	100		
65	30.4	8.9	48.9
66	46.0	21.2	61.2



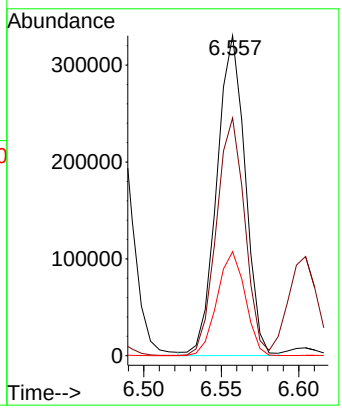


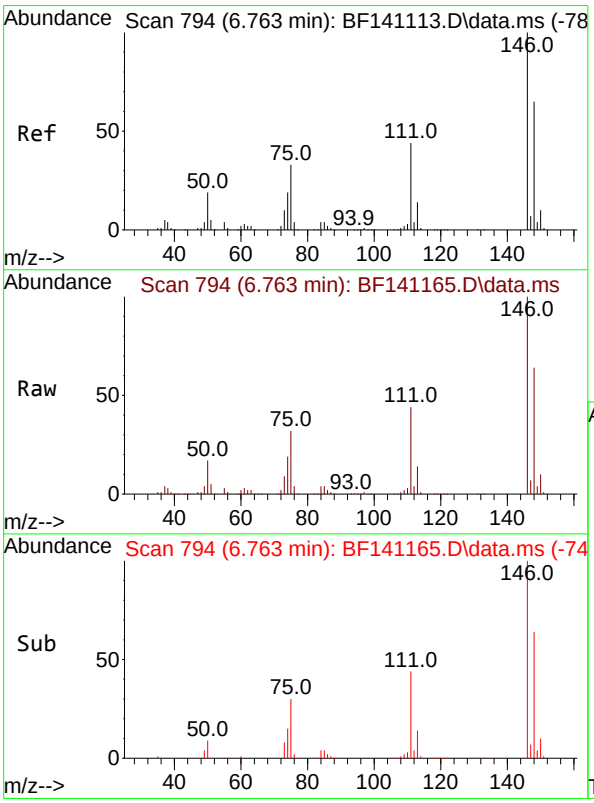
#11
bis(2-Chloroethyl)ether
Concen: 45.405 ng
RT: 6.557 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 93 Resp: 420510

Ion	Ratio	Lower	Upper
93	100		
63	74.3	58.0	98.0
95	32.5	12.5	52.5

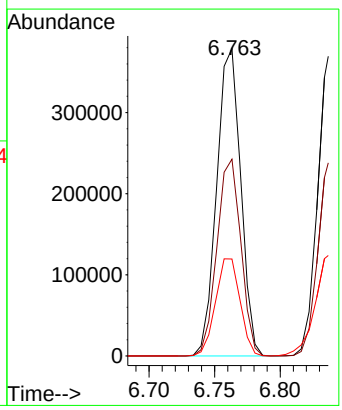


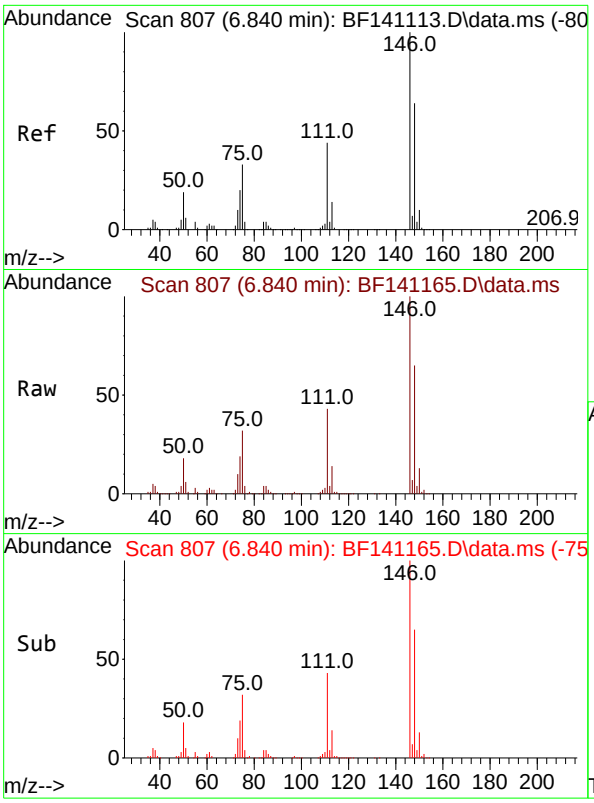


#12
1,3-Dichlorobenzene
Concen: 43.989 ng
RT: 6.763 min Scan# 794
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:146 Resp: 482405

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
75	31.6	26.2	39.2



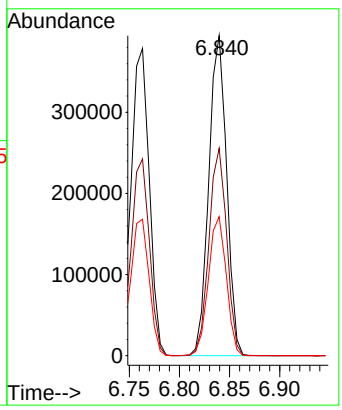


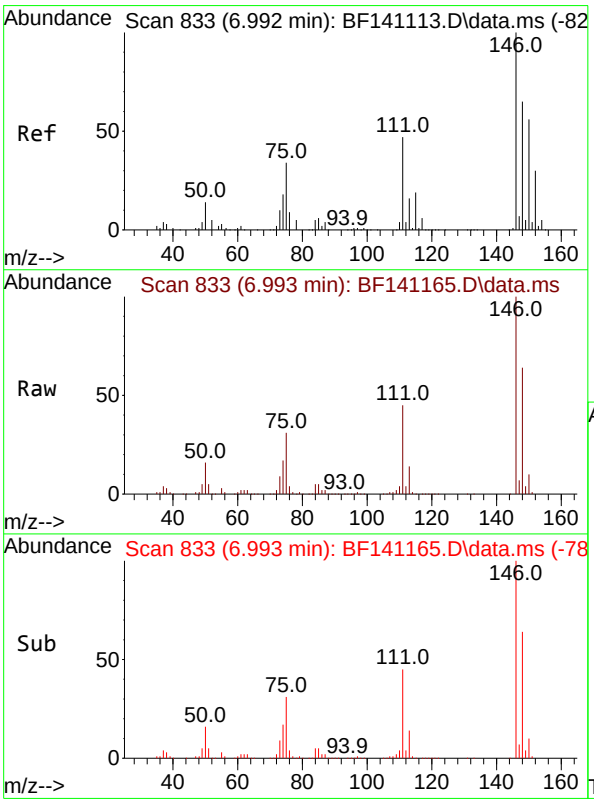
#13
1,4-Dichlorobenzene
Concen: 44.210 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:146 Resp: 488566

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.0	76.6
111	43.5	34.9	52.3

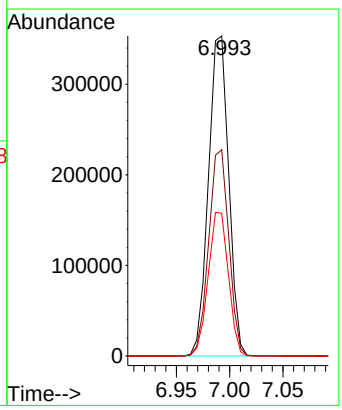


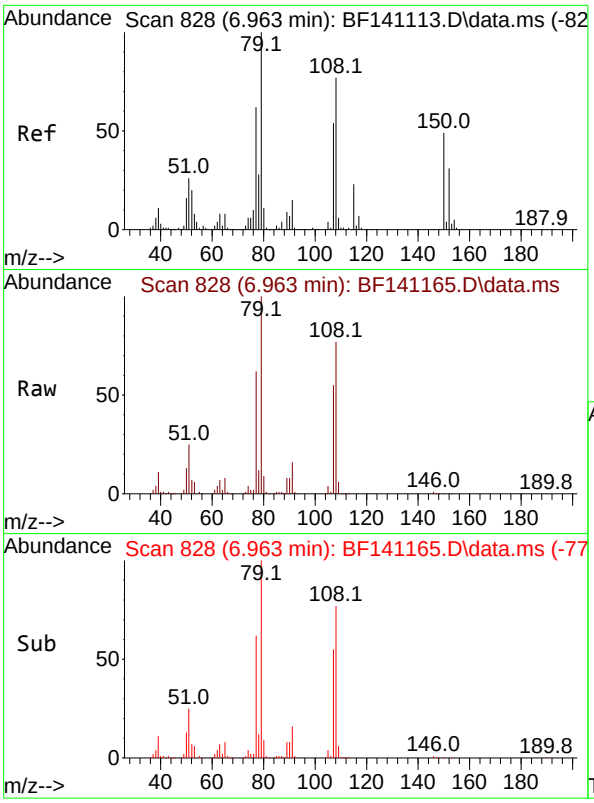


#14
1,2-Dichlorobenzene
Concen: 45.430 ng
RT: 6.993 min Scan# 833
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:146 Resp: 468309

Ion	Ratio	Lower	Upper
146	100		
148	64.5	52.2	78.4
111	44.6	37.5	56.3



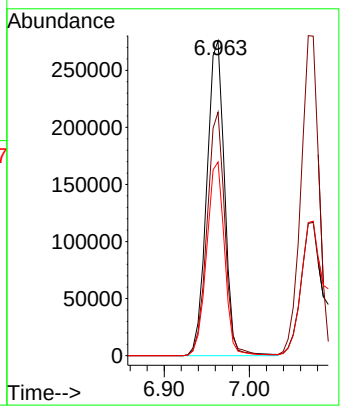


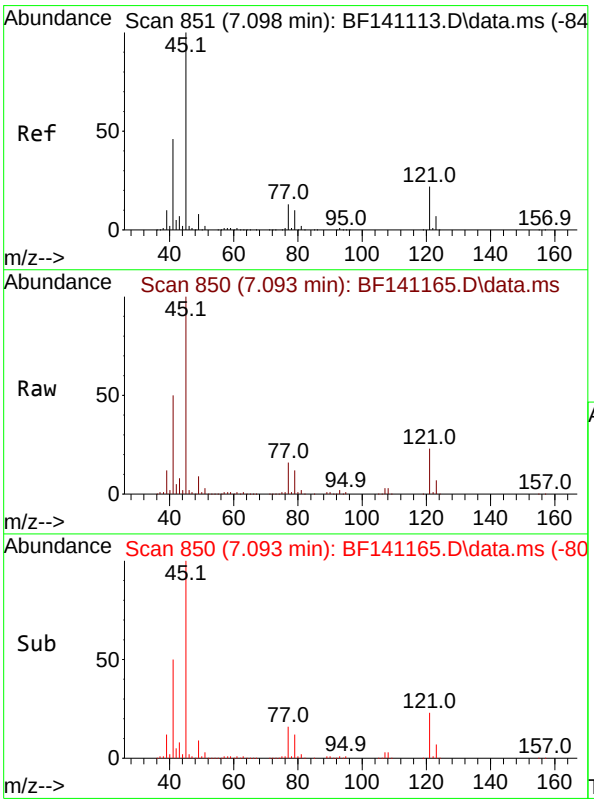
#15
Benzyl Alcohol
Concen: 47.562 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 79 Resp: 398751

Ion	Ratio	Lower	Upper
79	100		
108	77.4	61.4	92.0
77	61.6	49.8	74.6

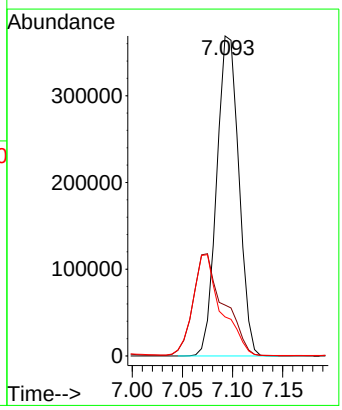


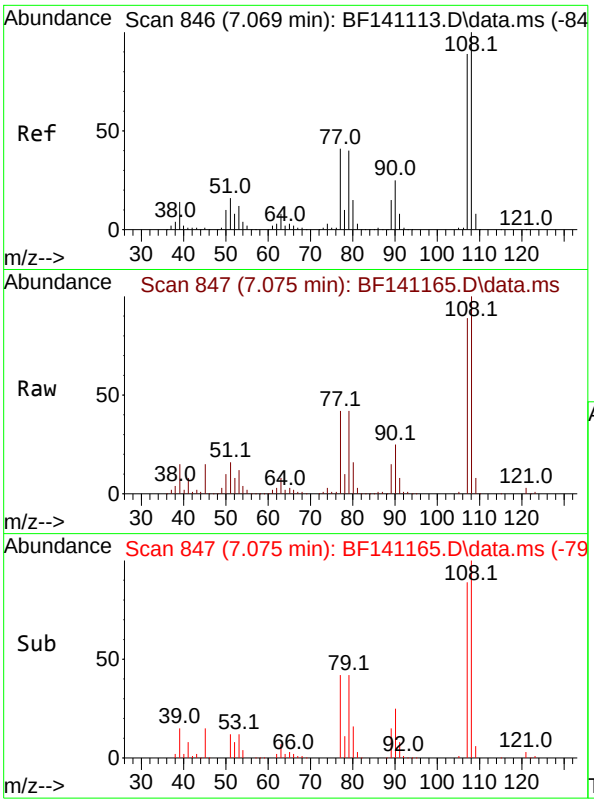


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.782 ng
RT: 7.093 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 45 Resp: 565830

Ion	Ratio	Lower	Upper
45	100		
77	15.9	0.0	34.1
79	12.2	0.0	31.0



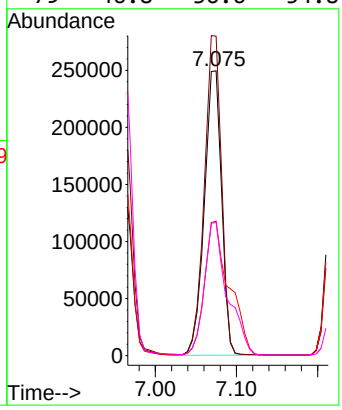


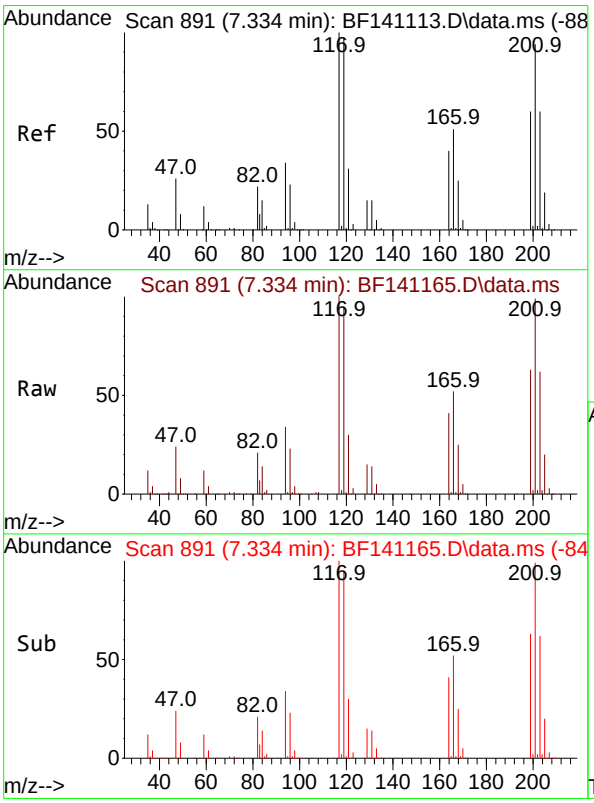
#17
2-Methylphenol
Concen: 46.289 ng
RT: 7.075 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:107 Resp: 367457

Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.1	135.1
77	47.2	36.6	55.0
79	46.8	36.6	54.8

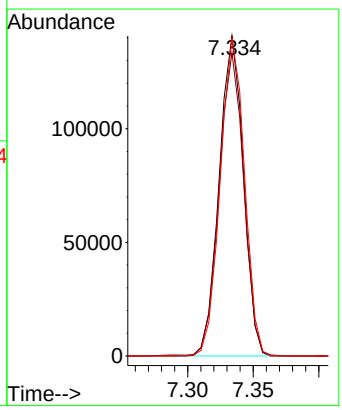


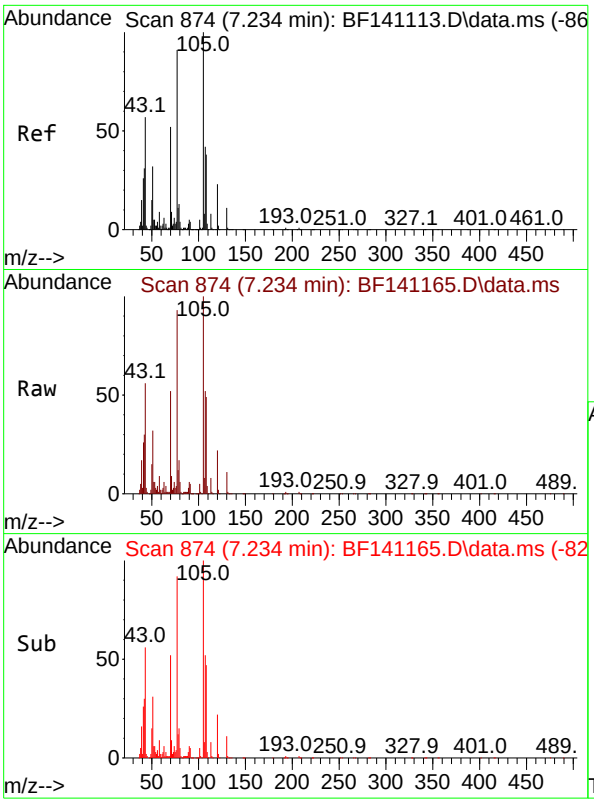


#18
Hexachloroethane
Concen: 45.349 ng
RT: 7.334 min Scan# 891
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:117 Resp: 181232

Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.6	116.4
201	99.4	75.1	112.7



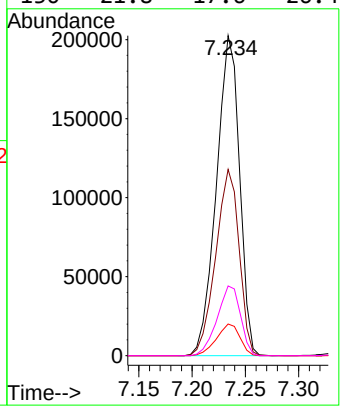


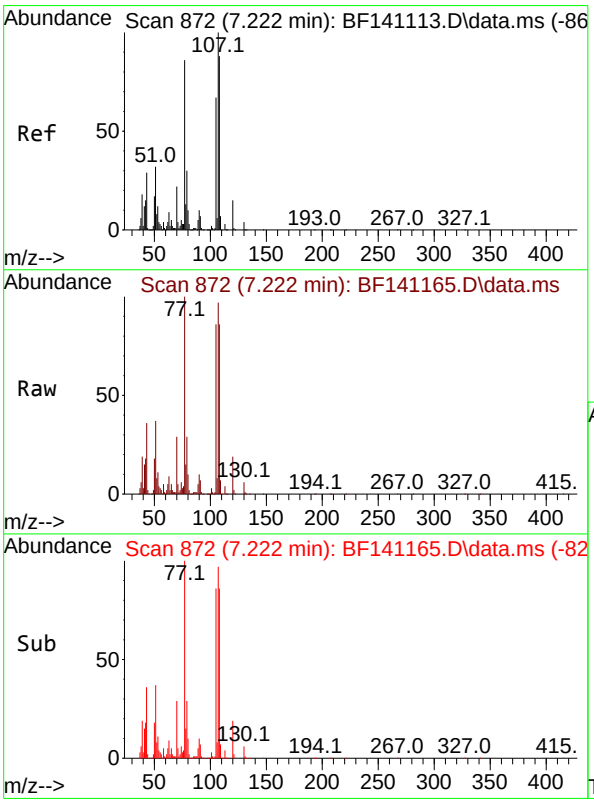
#19
n-Nitroso-di-n-propylamine
Concen: 44.623 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 70 Resp: 305153

Ion	Ratio	Lower	Upper
70	100		
42	58.2	47.8	71.6
101	9.9	7.9	11.9
130	21.8	17.6	26.4

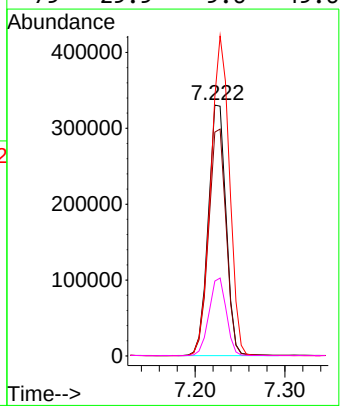


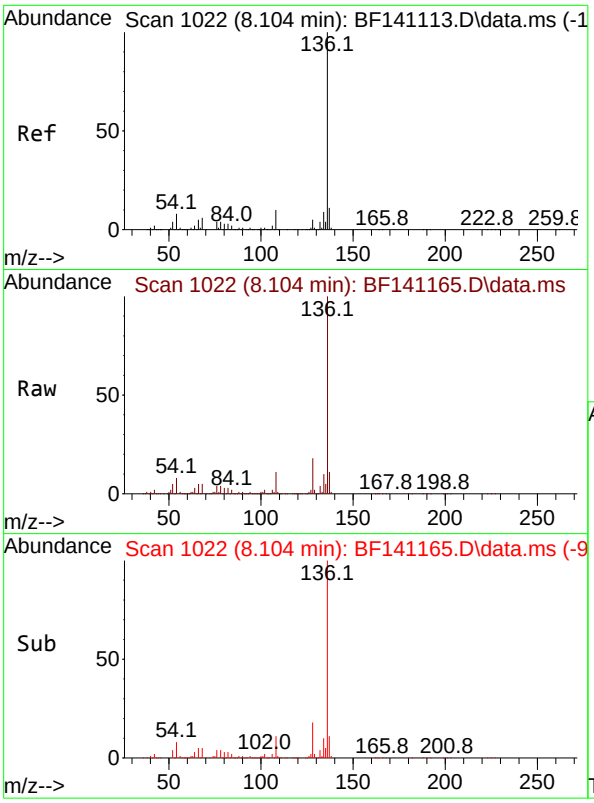


#20
3+4-Methylphenols
Concen: 45.312 ng
RT: 7.222 min Scan# 872
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:107 Resp: 453804

Ion	Ratio	Lower	Upper
107	100		
108	89.2	68.3	108.3
77	103.3	66.4	106.4
79	29.9	9.6	49.6



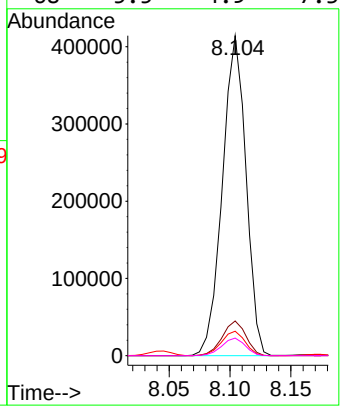


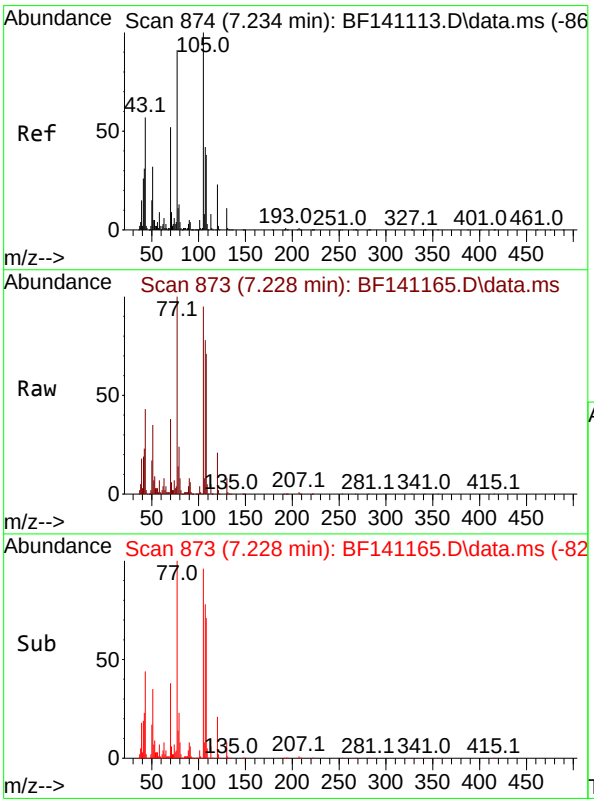
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:136 Resp: 559409

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.7	6.3	9.5
68	5.5	4.9	7.3

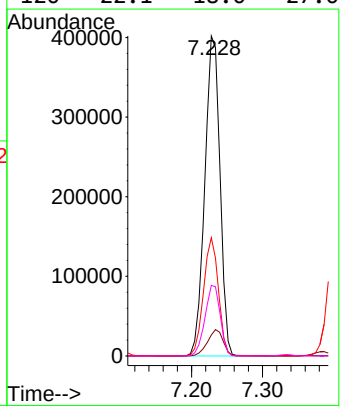


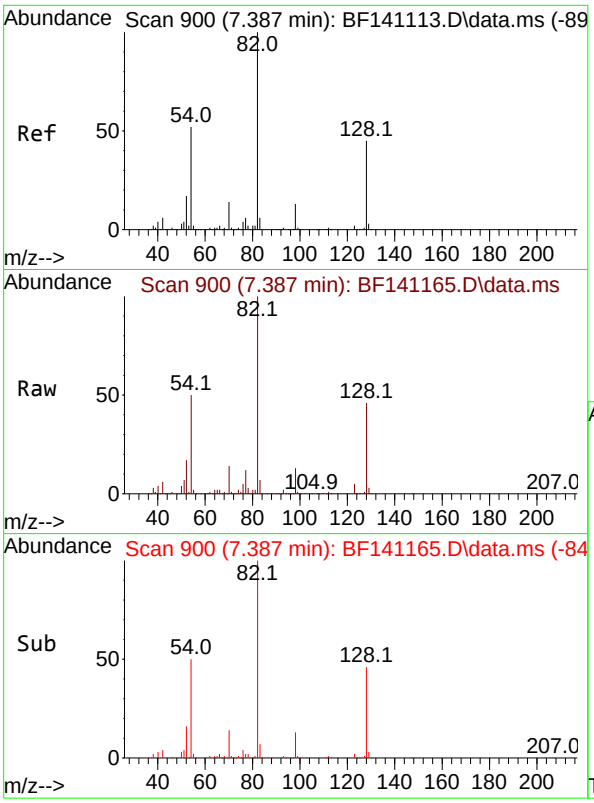


#22
Acetophenone
Concen: 45.036 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:105 Resp: 598908

Ion	Ratio	Lower	Upper
105	100		
71	6.6	7.1	10.7#
51	37.0	25.4	38.2
120	22.1	18.0	27.0



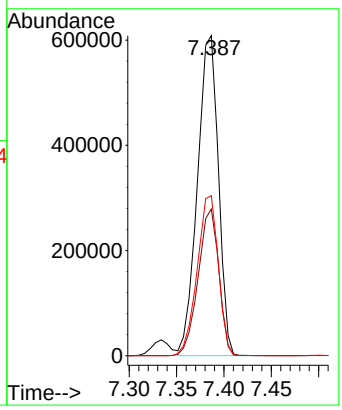


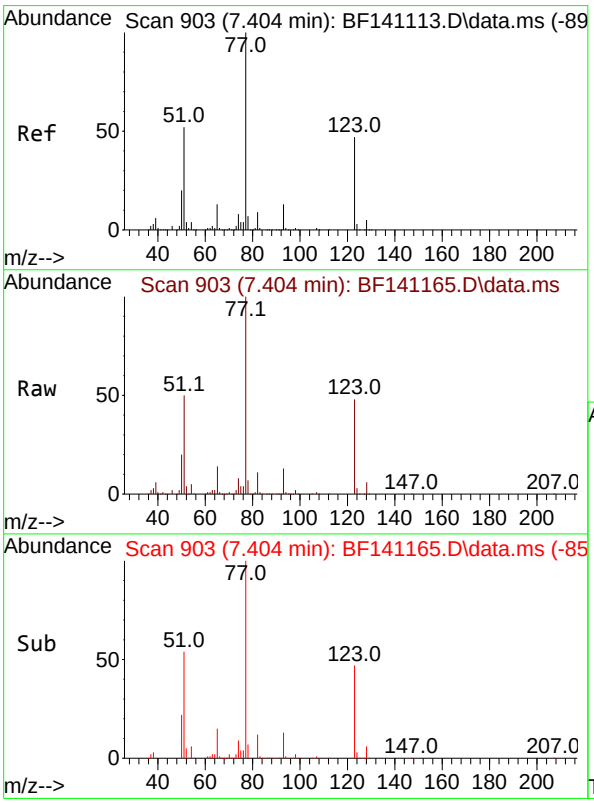
#23
Nitrobenzene-d5
Concen: 88.702 ng
RT: 7.387 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 82 Resp: 936087

Ion	Ratio	Lower	Upper
82	100		
128	45.9	36.1	54.1
54	50.0	41.0	61.4

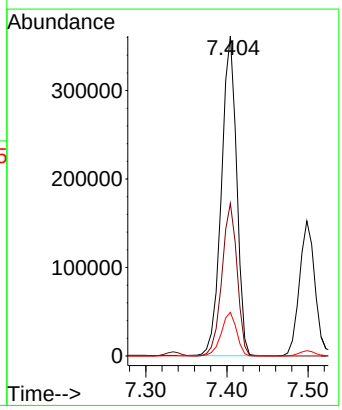


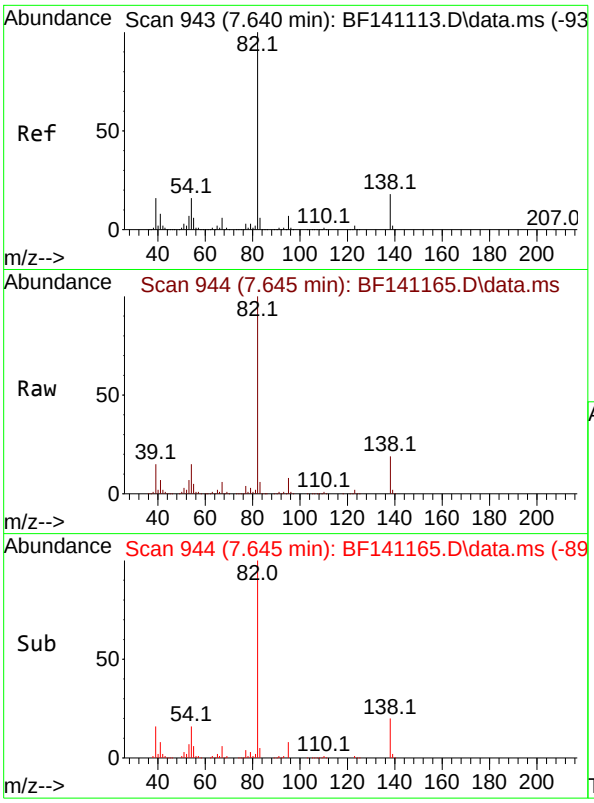


#24
Nitrobenzene
Concen: 42.953 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 77 Resp: 472430

Ion	Ratio	Lower	Upper
77	100		
123	47.7	37.7	56.5
65	13.7	10.6	16.0



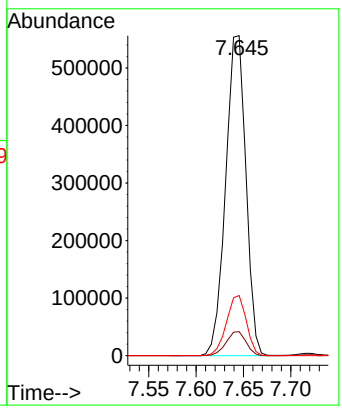


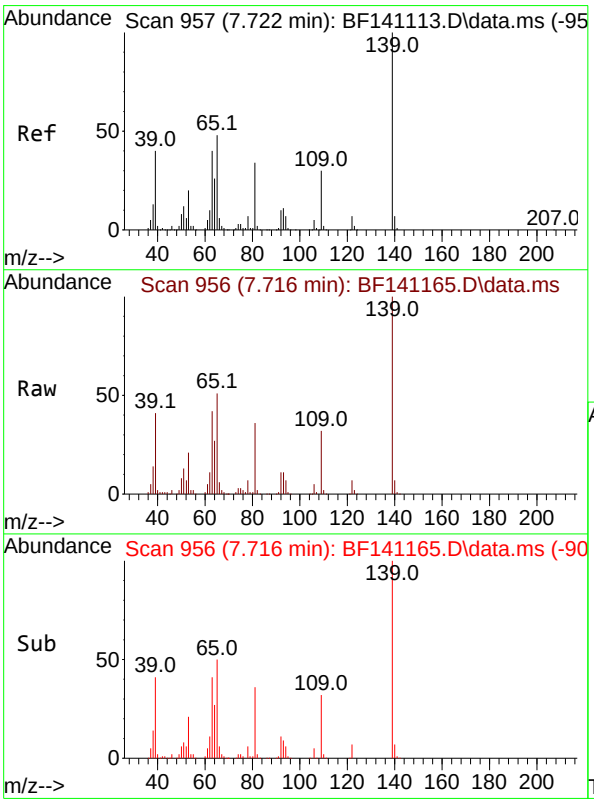
#25
Isophorone
Concen: 45.854 ng
RT: 7.645 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 82 Resp: 826977

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	18.8	14.2	21.2

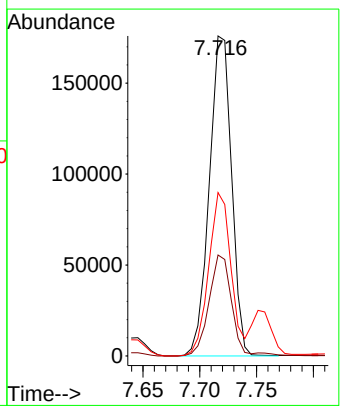


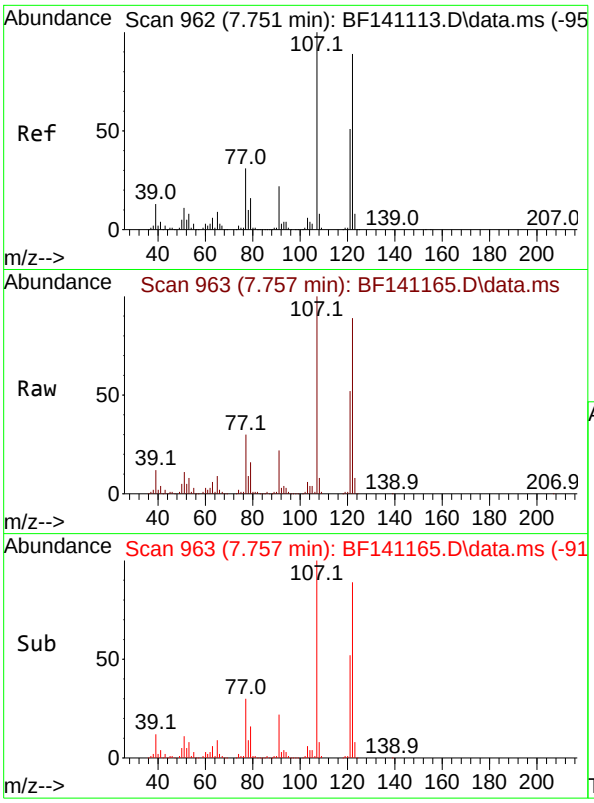


#26
2-Nitrophenol
Concen: 48.018 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:139 Resp: 240239

Ion	Ratio	Lower	Upper
139	100		
109	31.6	23.8	35.6
65	51.1	38.5	57.7



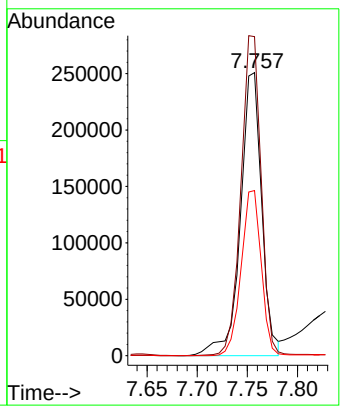


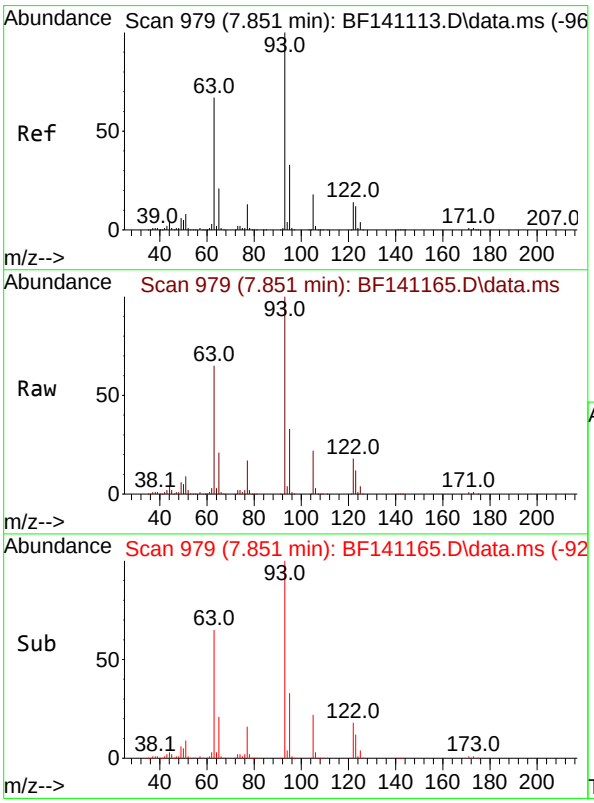
#27
2,4-Dimethylphenol
Concen: 55.087 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:122 Resp: 371757

Ion	Ratio	Lower	Upper
122	100		
107	112.7	90.3	135.5
121	58.3	46.5	69.7

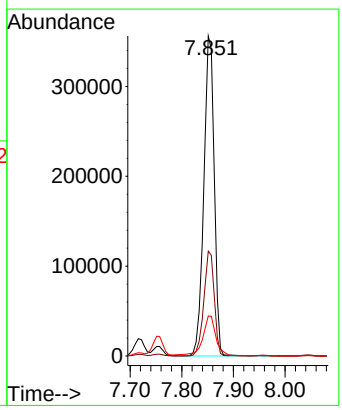


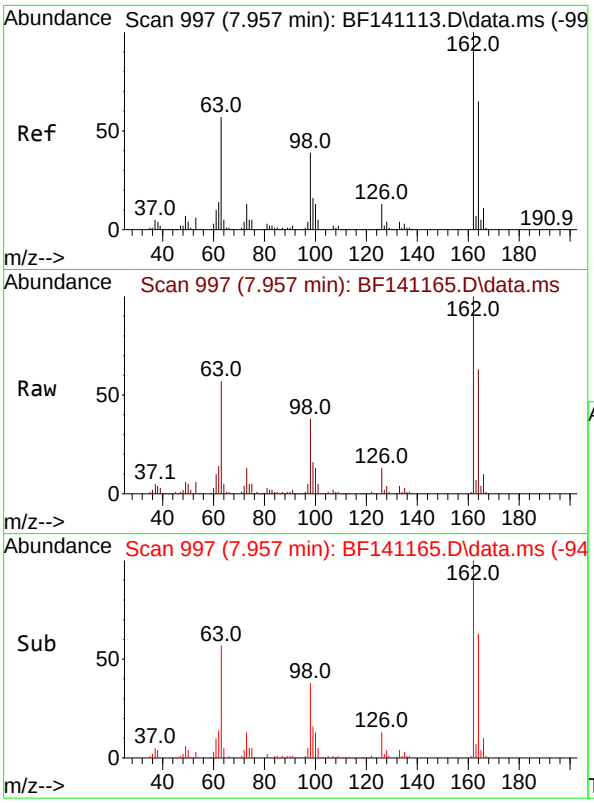


#28
bis(2-Chloroethoxy)methane
Concen: 44.187 ng
RT: 7.851 min Scan# 979
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 93 Resp: 500129

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.4
123	12.5	10.1	15.1



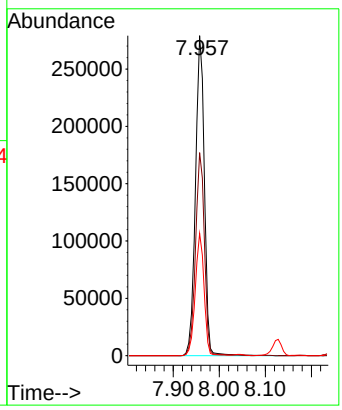


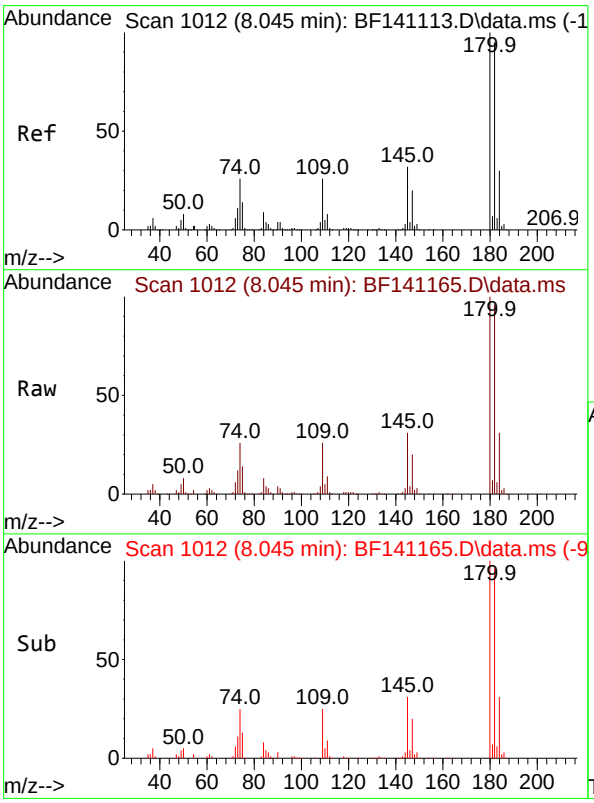
#29
2,4-Dichlorophenol
Concen: 46.769 ng
RT: 7.957 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:162 Resp: 374851

Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.5	84.5
98	38.2	18.5	58.5

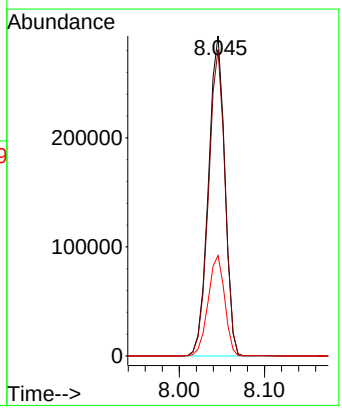


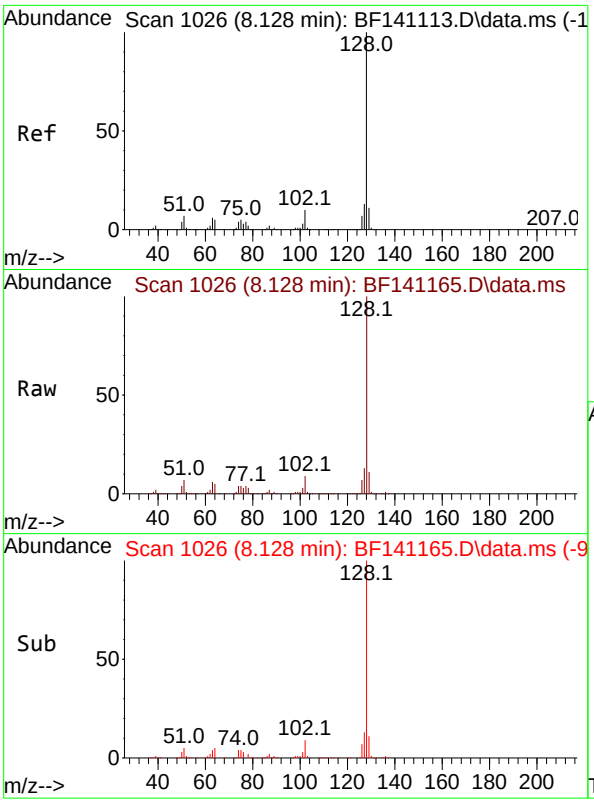


#30
1,2,4-Trichlorobenzene
Concen: 43.039 ng
RT: 8.045 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:180 Resp: 394294

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.2	114.2
145	31.4	25.3	37.9



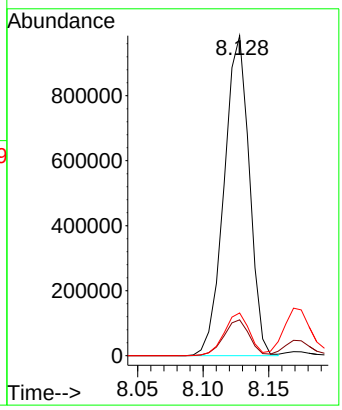


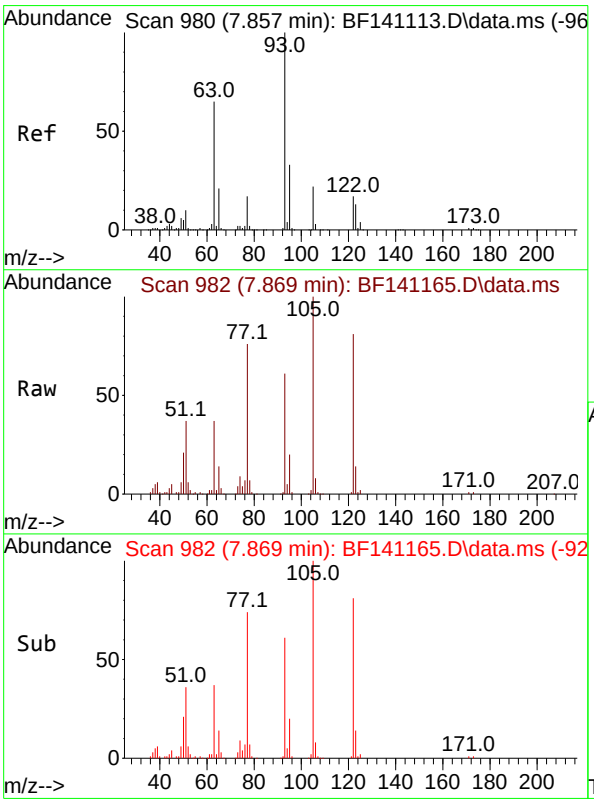
#31
Naphthalene
Concen: 44.606 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:128 Resp: 1315926

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.6
127	13.4	10.8	16.2

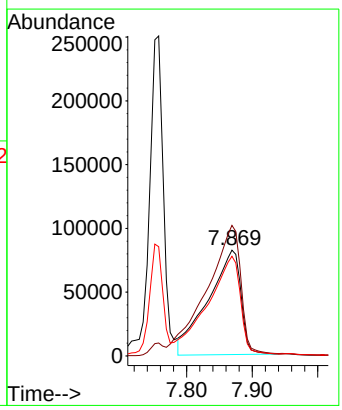


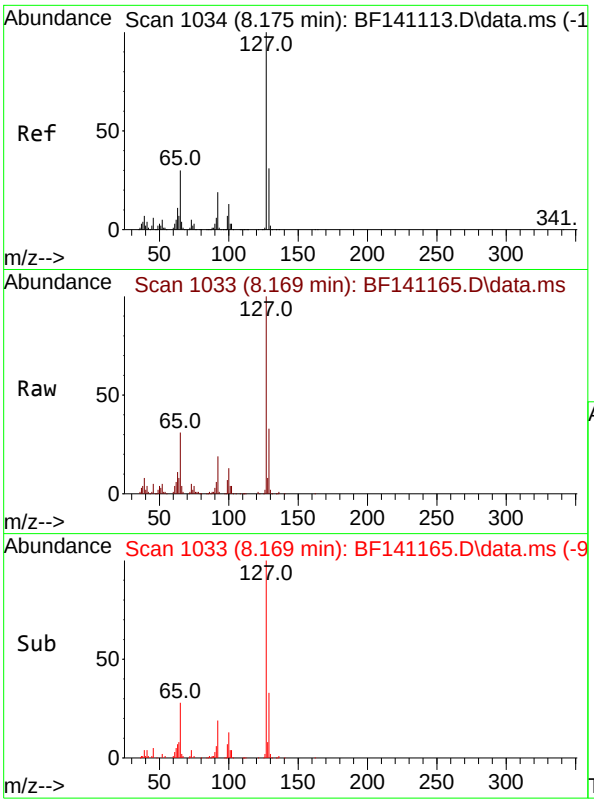


#32
Benzoic acid
Concen: 43.954 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:122 Resp: 284542

Ion	Ratio	Lower	Upper
122	100		
105	123.5	105.5	145.5
77	94.3	75.1	115.1



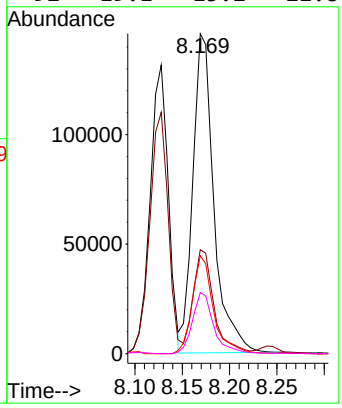


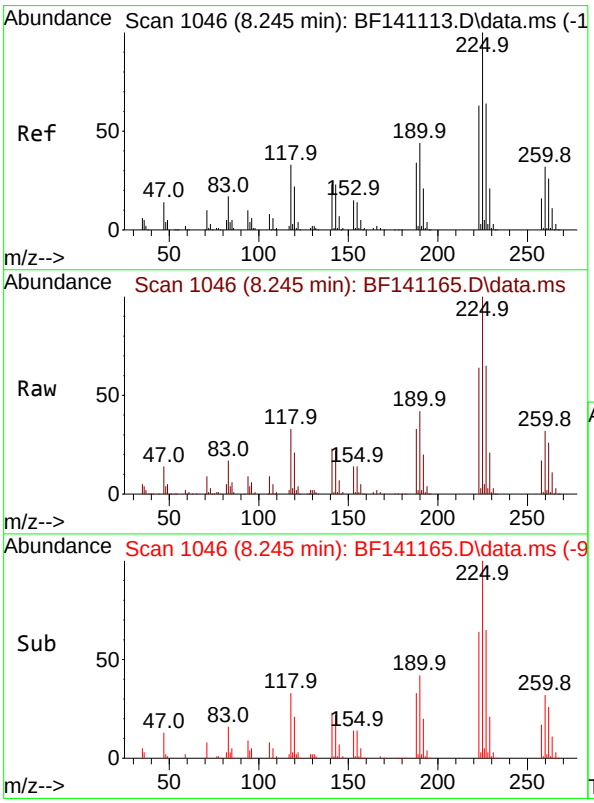
#33
4-Chloroaniline
Concen: 22.136 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:127 Resp: 225845

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.9	38.9
65	30.6	23.8	35.8
92	19.1	15.2	22.8

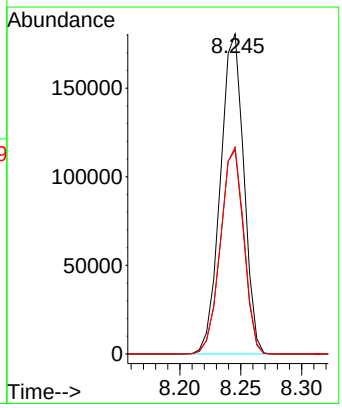


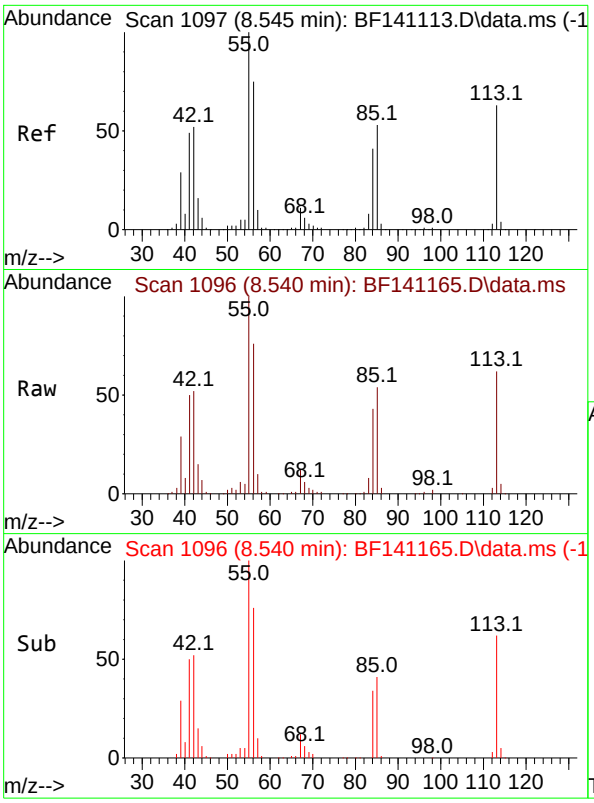


#34
Hexachlorobutadiene
Concen: 43.722 ng
RT: 8.245 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:225 Resp: 241357

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	76.0
227	64.6	51.6	77.4



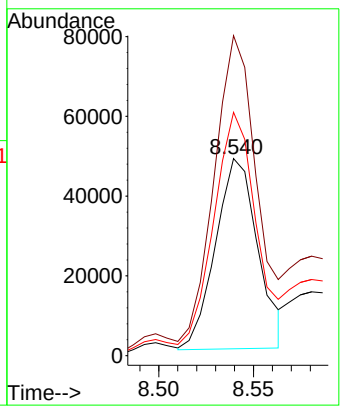


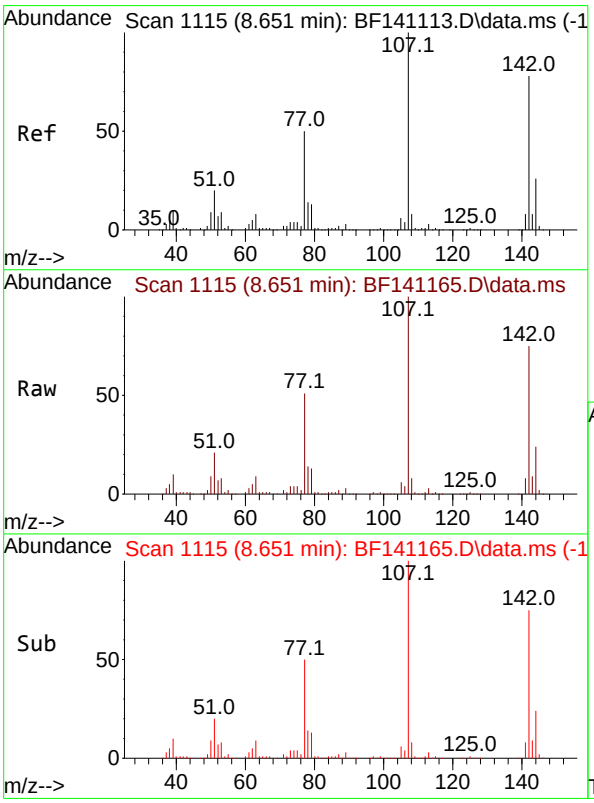
#35
Caprolactam
Concen: 28.312 ng
RT: 8.540 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:113 Resp: 74292

Ion	Ratio	Lower	Upper
113	100		
55	162.4	139.7	179.7
56	123.5	99.4	139.4

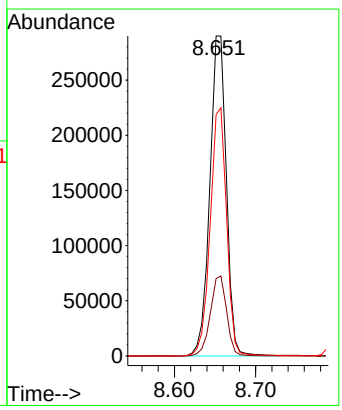


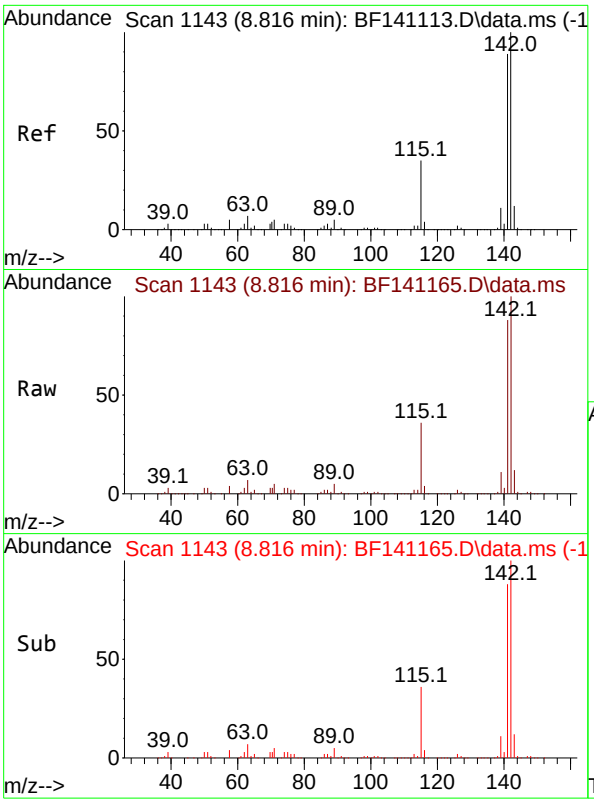


#36
4-Chloro-3-methylphenol
Concen: 46.854 ng
RT: 8.651 min Scan# 1115
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:107 Resp: 410698

Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.4	30.6
142	75.5	62.2	93.2



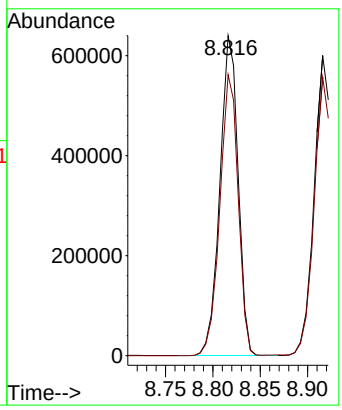


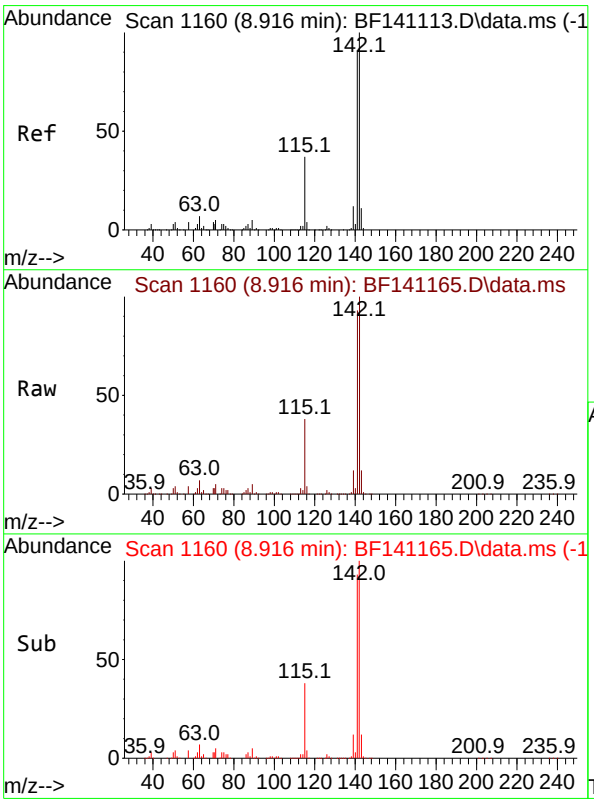
#37
2-Methylnaphthalene
Concen: 45.609 ng
RT: 8.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:142 Resp: 857406

Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.3	106.9

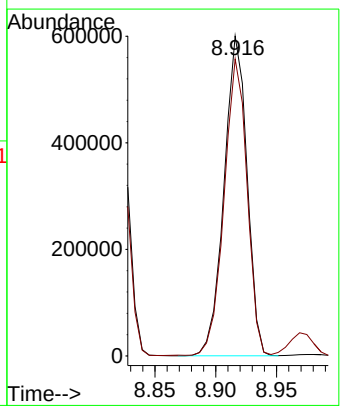


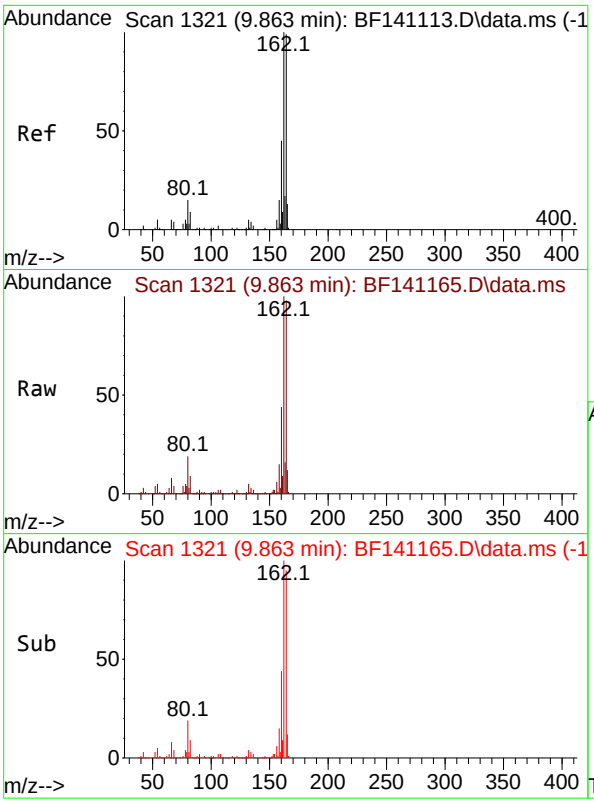


#38
1-Methylnaphthalene
Concen: 42.599 ng
RT: 8.916 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:142 Resp: 789241

Ion	Ratio	Lower	Upper
142	100		
141	92.8	73.1	109.7



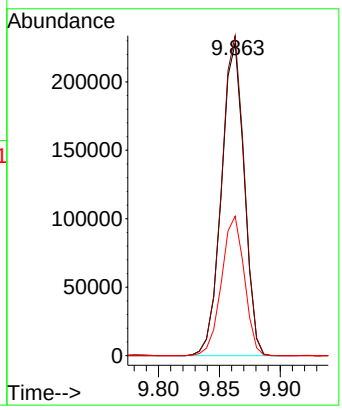


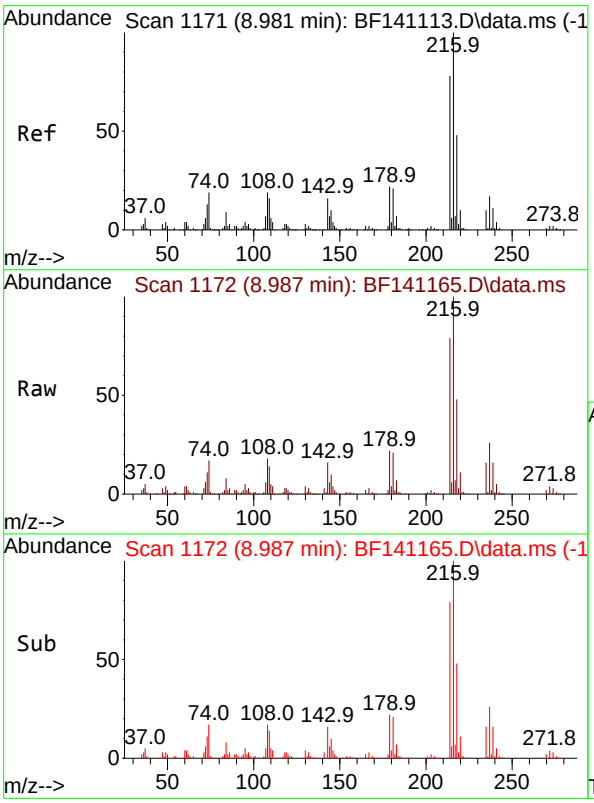
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:164 Resp: 296383

Ion	Ratio	Lower	Upper
164	100		
162	102.4	81.0	121.4
160	44.7	36.1	54.1

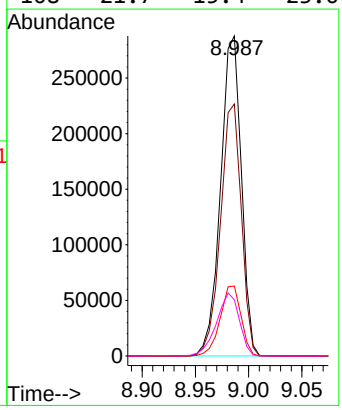


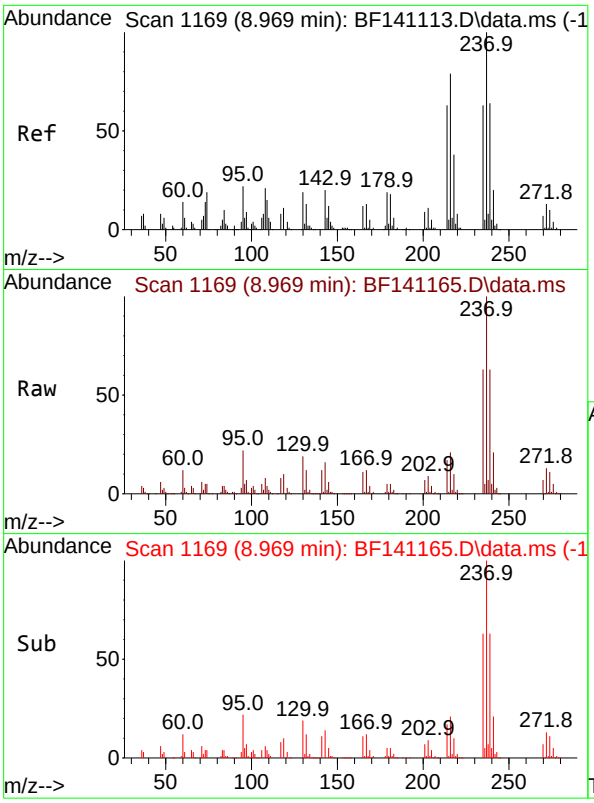


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.831 ng
RT: 8.987 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:216 Resp: 389876

Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.6	94.0
179	22.1	17.7	26.5
108	21.7	15.4	23.0



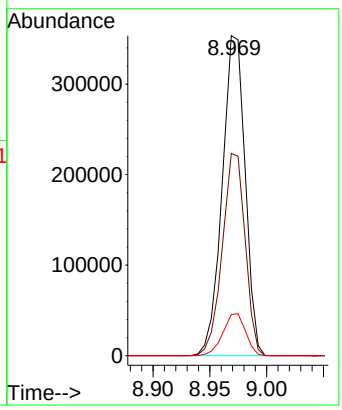


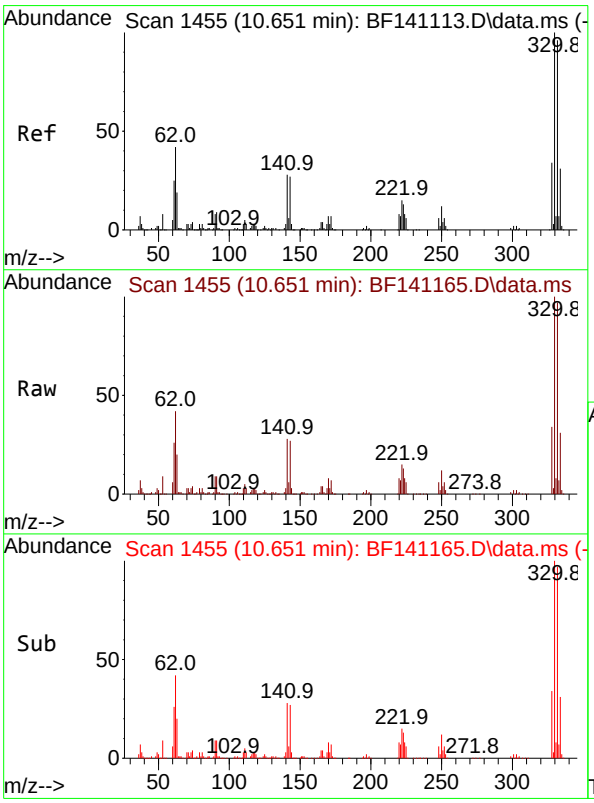
#41
Hexachlorocyclopentadiene
Concen: 178.397 ng
RT: 8.969 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:237 Resp: 496501

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.0	83.0
272	12.9	0.0	33.0

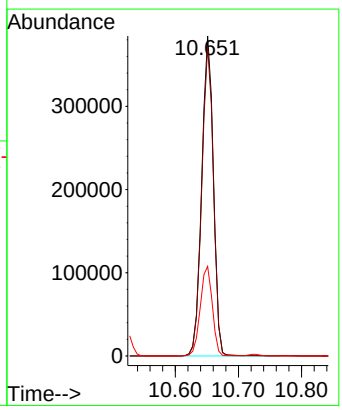


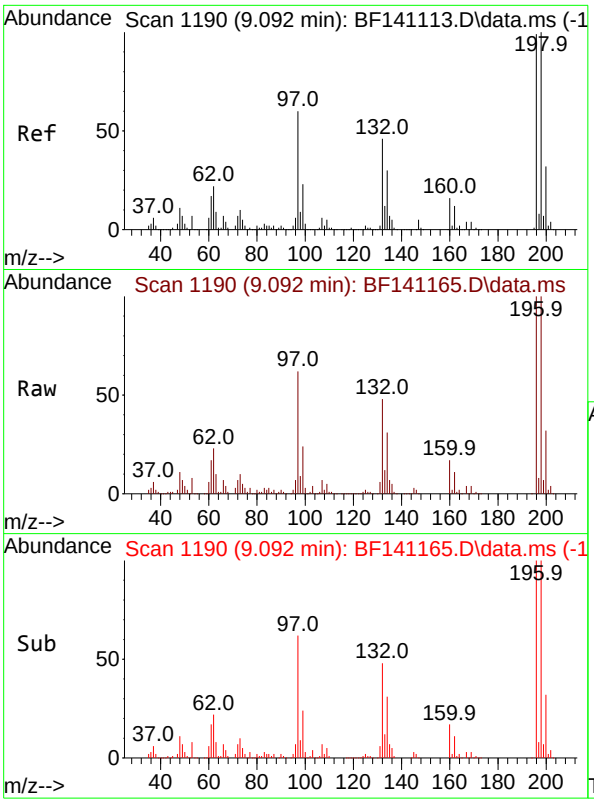


#42
2,4,6-Tribromophenol
Concen: 146.817 ng
RT: 10.651 min Scan# 1455
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:330 Resp: 495813

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	28.7	25.2	37.8



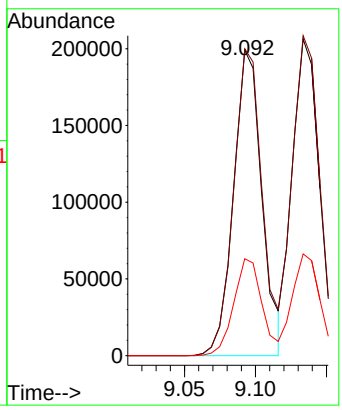


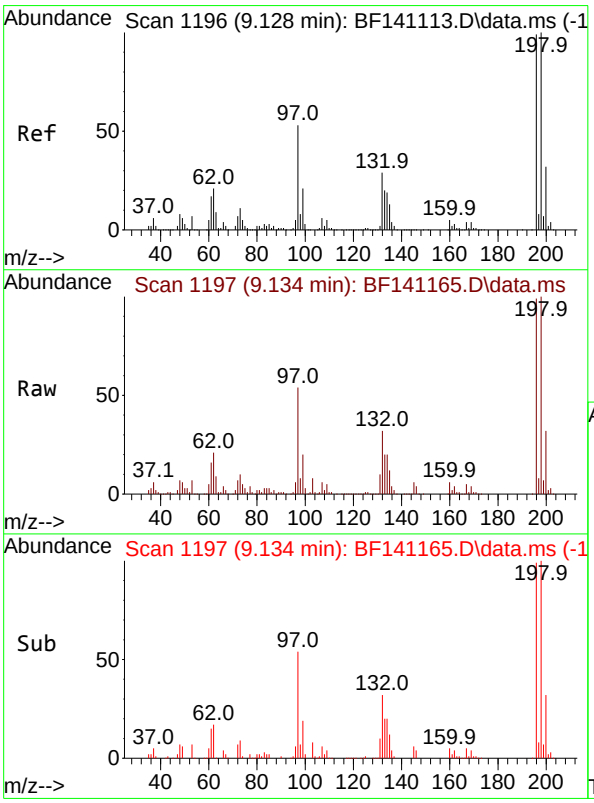
#43
2,4,6-Trichlorophenol
Concen: 48.169 ng
RT: 9.092 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:196 Resp: 276357

Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.8	121.2
200	31.8	25.7	38.5

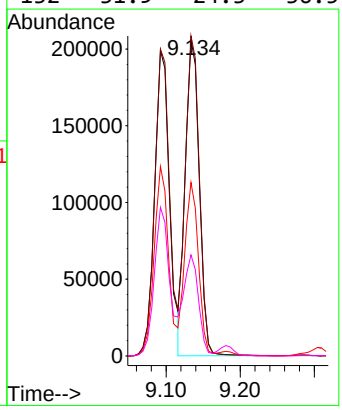


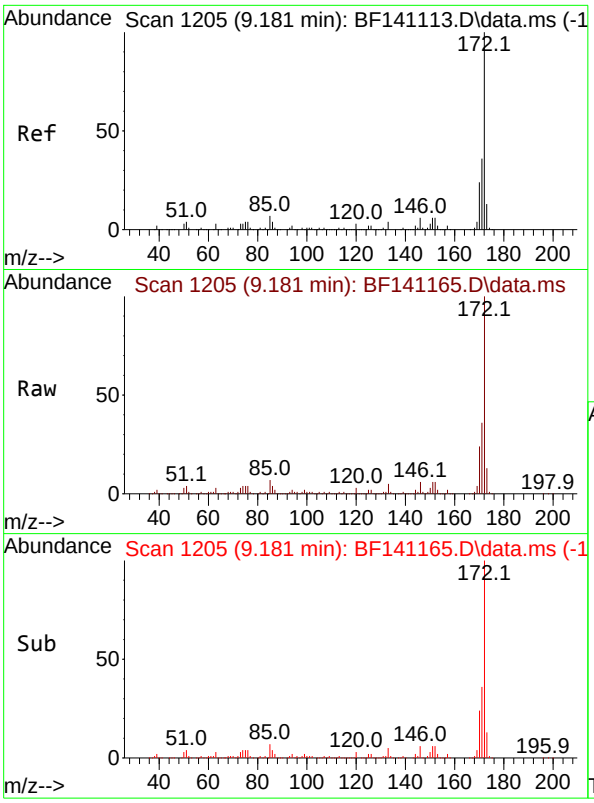


#44
2,4,5-Trichlorophenol
Concen: 44.988 ng
RT: 9.134 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:196 Resp: 272593

Ion	Ratio	Lower	Upper
196	100		
198	101.1	80.6	120.8
97	54.8	43.1	64.7
132	31.9	24.3	36.5



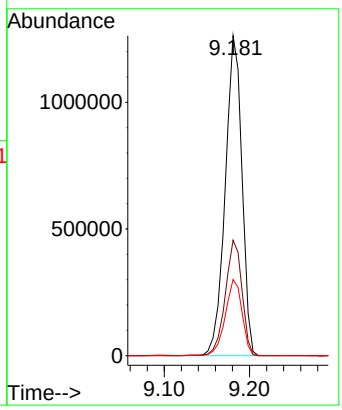


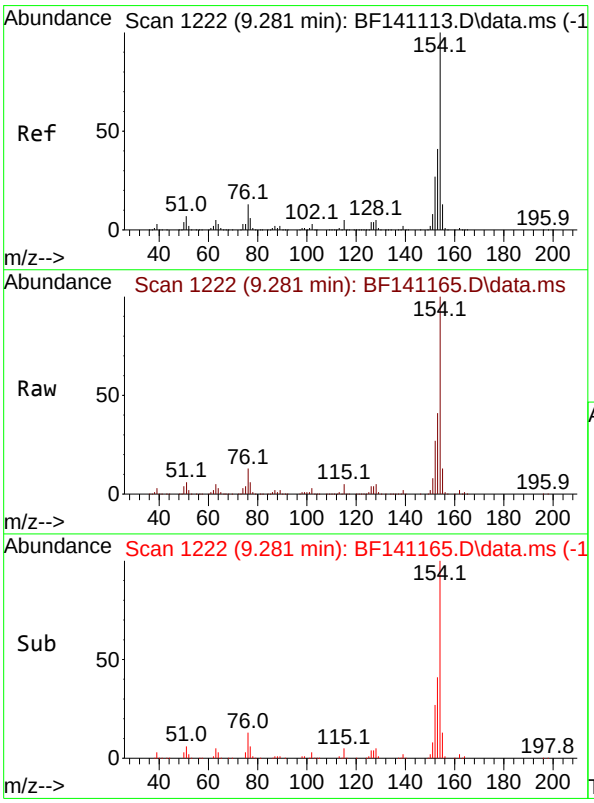
#45
2-Fluorobiphenyl
Concen: 88.547 ng
RT: 9.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:172 Resp: 1718604

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.8	19.0	28.6

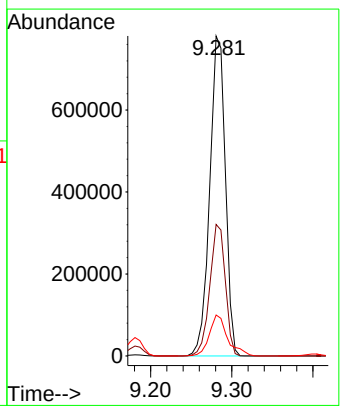


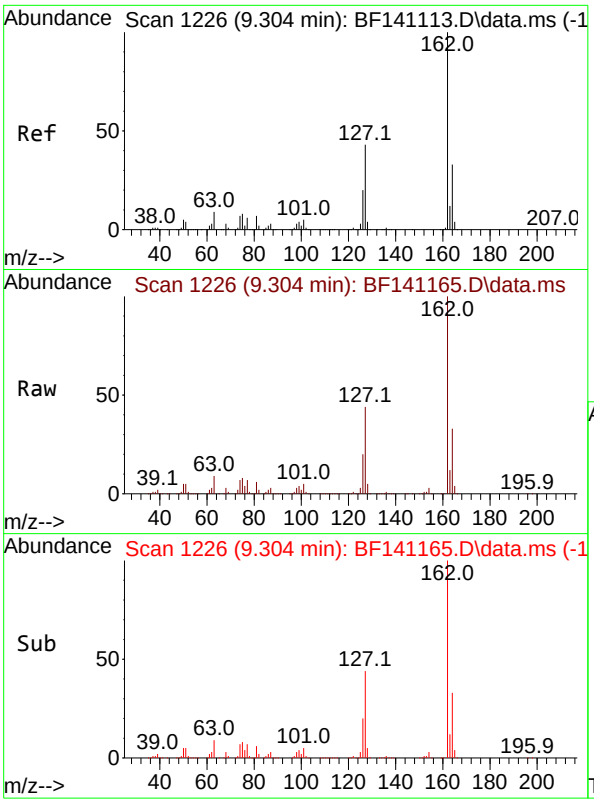


#46
1,1'-Biphenyl
Concen: 45.225 ng
RT: 9.281 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:154 Resp: 1040938

Ion	Ratio	Lower	Upper
154	100		
153	41.1	20.7	60.7
76	12.8	0.0	33.1



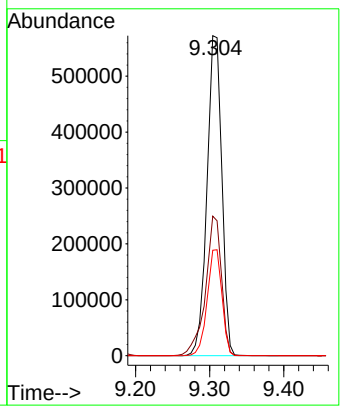


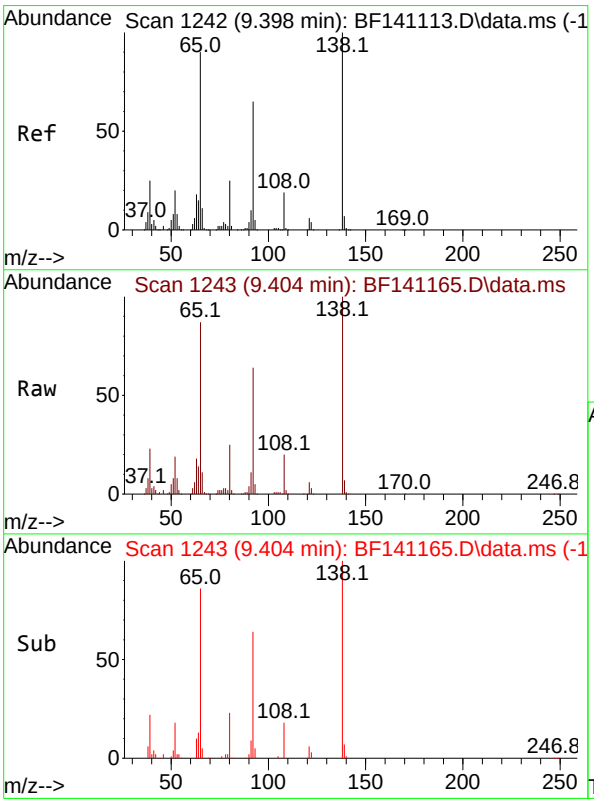
#47
2-Chloronaphthalene
Concen: 44.320 ng
RT: 9.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:162 Resp: 794541

Ion	Ratio	Lower	Upper
162	100		
127	43.6	34.6	51.8
164	33.0	26.5	39.7

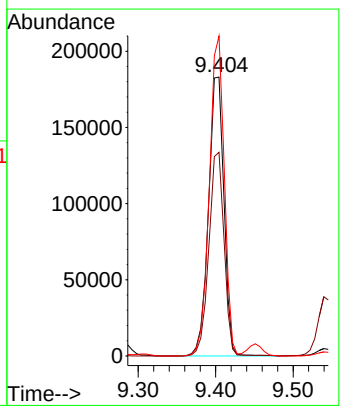


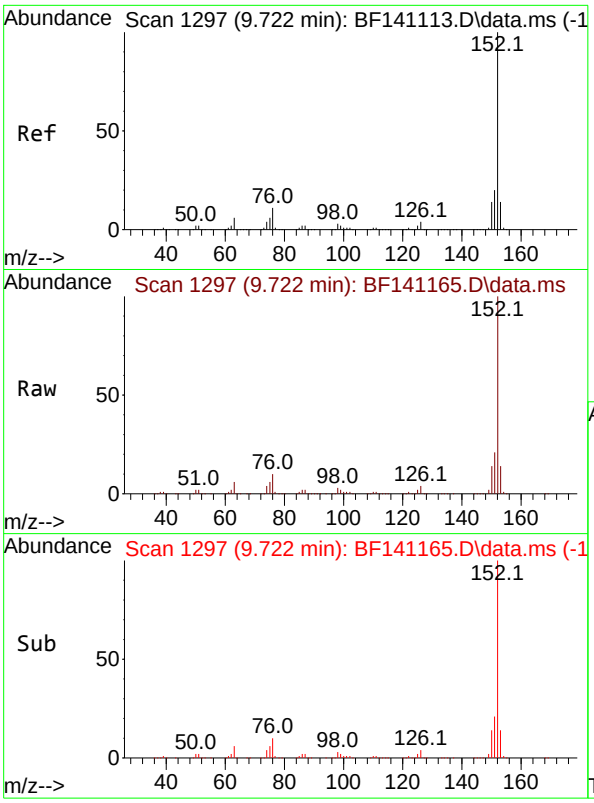


#48
2-Nitroaniline
Concen: 47.818 ng
RT: 9.404 min Scan# 1243
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion: 65 Resp: 254121

Ion	Ratio	Lower	Upper
65	100		
92	73.0	58.3	87.5
138	114.7	89.1	133.7



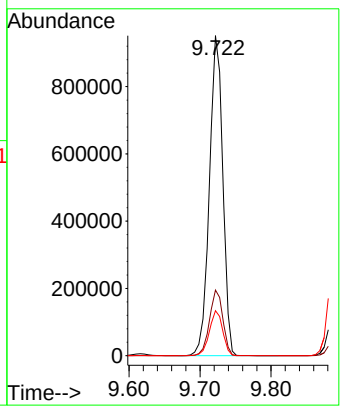


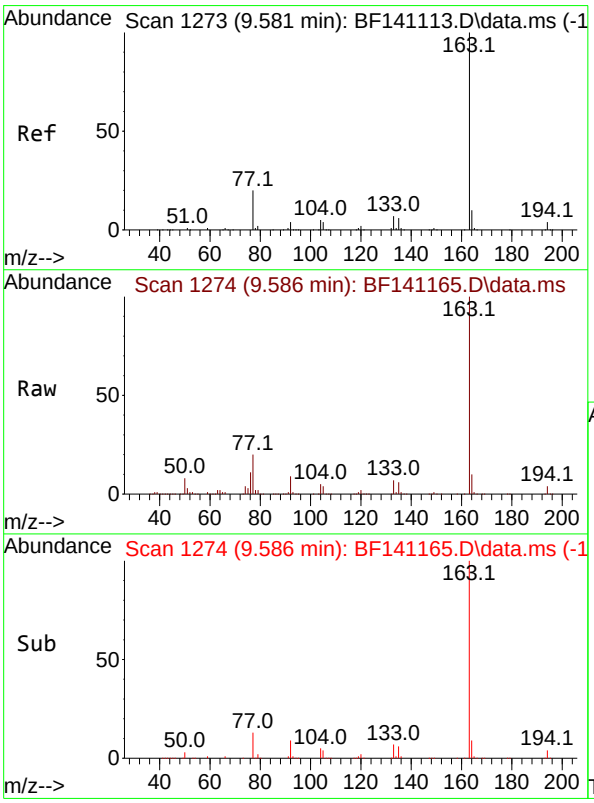
#49
Acenaphthylene
Concen: 48.714 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:152 Resp: 1247717

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	14.1	11.1	16.7

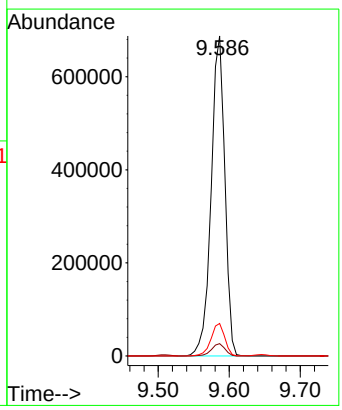


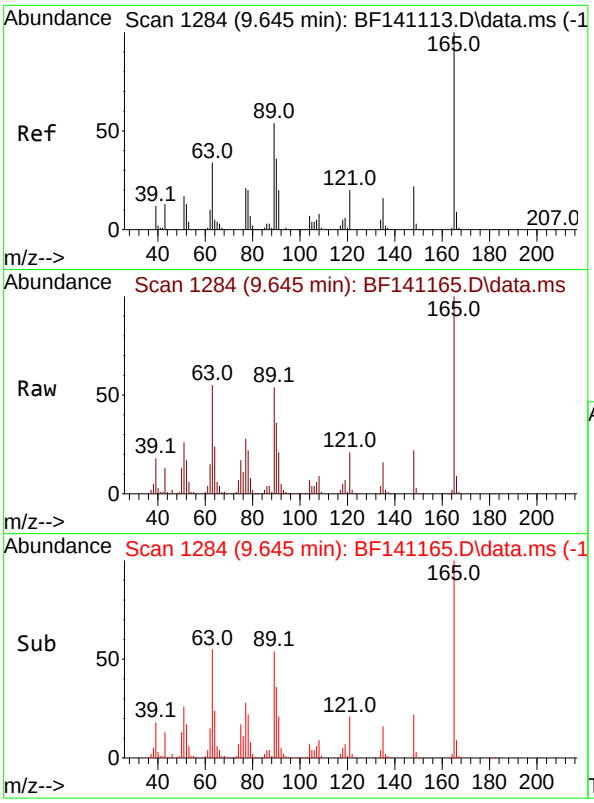


#50
Dimethylphthalate
Concen: 46.219 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:163 Resp: 919633

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.1	8.2	12.4



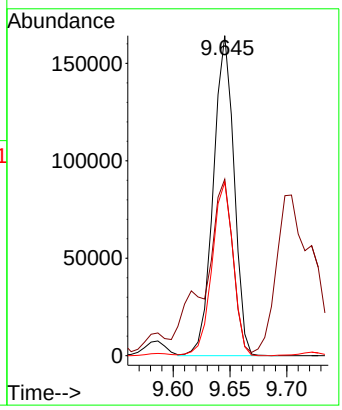


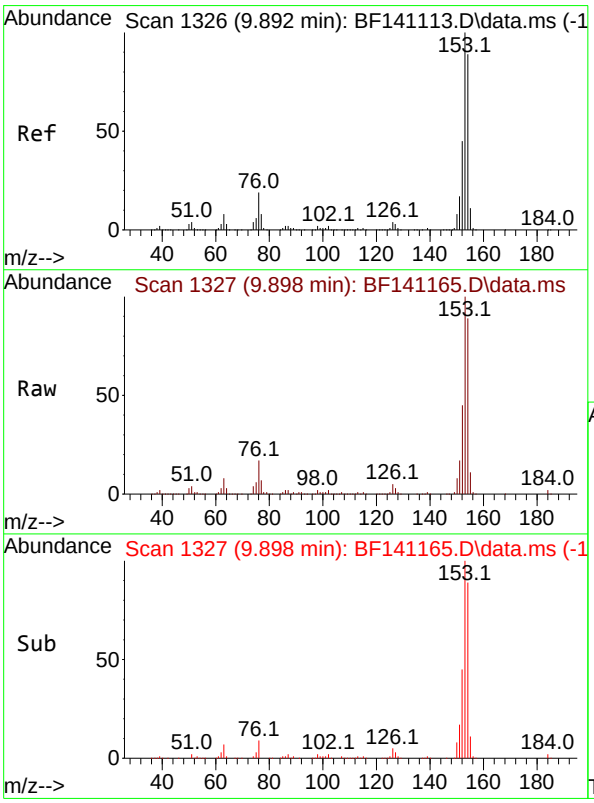
#51
2,6-Dinitrotoluene
Concen: 45.095 ng
RT: 9.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:165 Resp: 208657

Ion	Ratio	Lower	Upper
165	100		
63	55.2	42.3	63.5
89	54.2	43.1	64.7

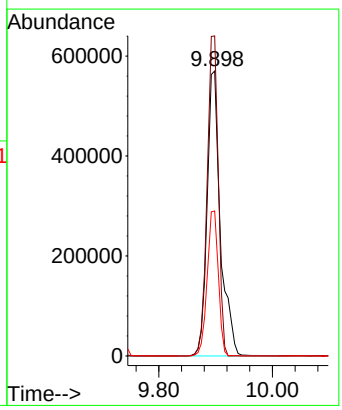


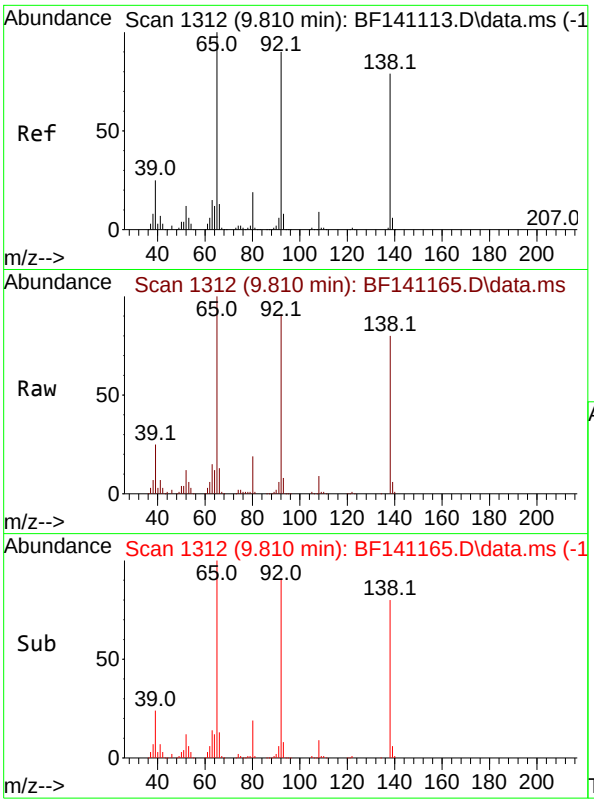


#52
Acenaphthene
Concen: 51.587 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:154 Resp: 923120

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.8	134.6
152	50.9	40.8	61.2



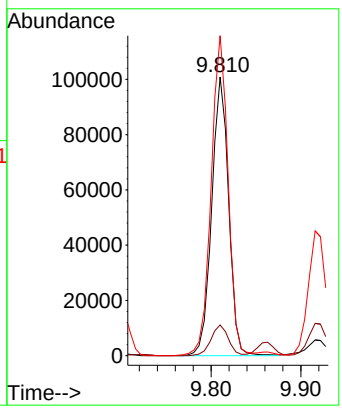


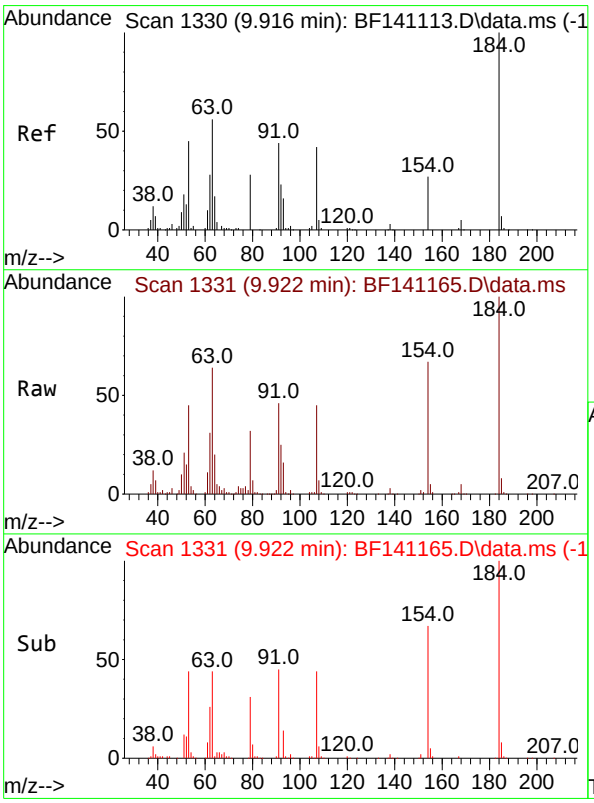
#53
3-Nitroaniline
Concen: 28.088 ng
RT: 9.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:138 Resp: 132071

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.8	13.2
92	114.8	91.3	136.9

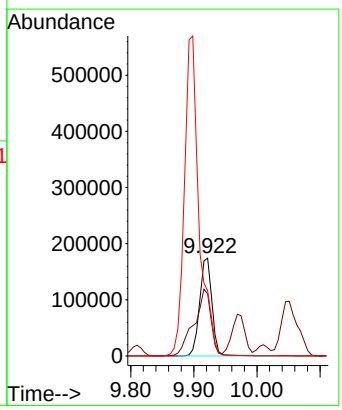


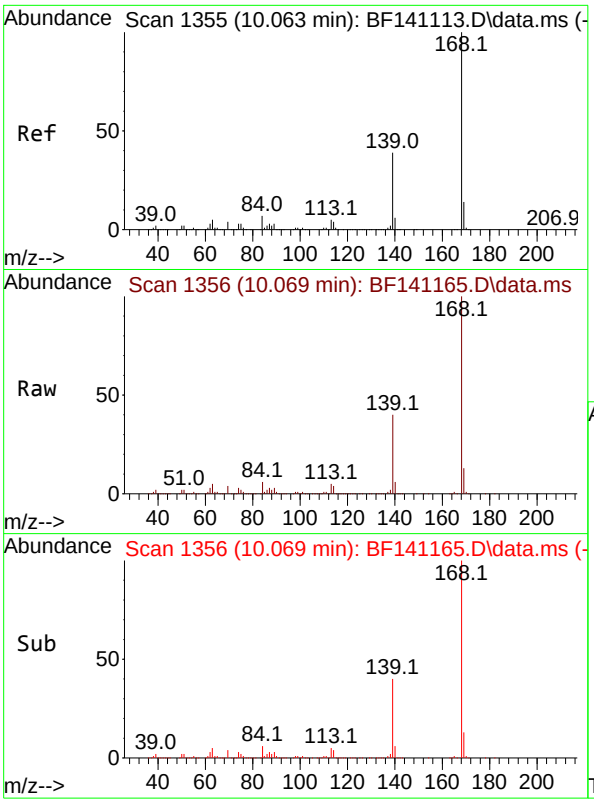


#54
2,4-Dinitrophenol
Concen: 107.198 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:184 Resp: 235763

Ion	Ratio	Lower	Upper
184	100		
63	63.5	48.7	73.1
154	66.8	57.1	85.7



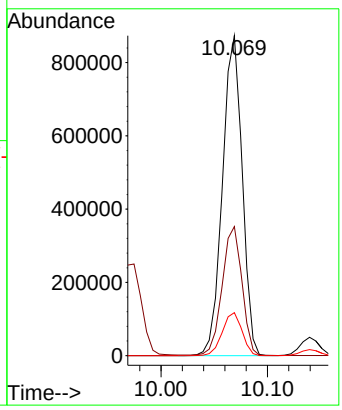


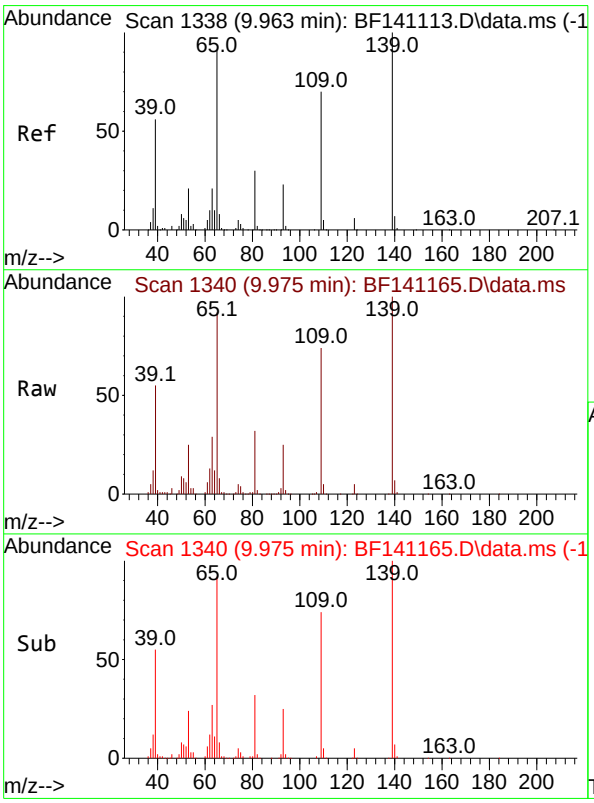
#55
Dibenzofuran
Concen: 46.212 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:168 Resp: 1124811

Ion	Ratio	Lower	Upper
168	100		
139	40.3	31.4	47.0
169	13.5	10.9	16.3

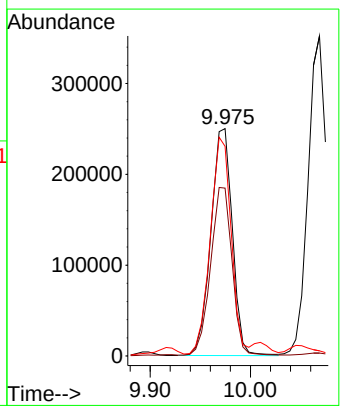


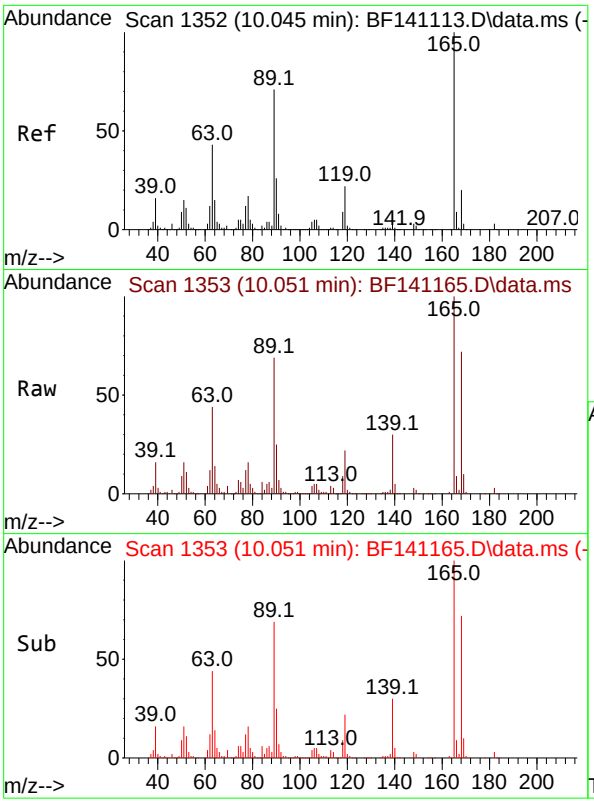


#56
4-Nitrophenol
Concen: 100.786 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.012 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:139 Resp: 371142

Ion	Ratio	Lower	Upper
139	100		
109	73.8	50.2	90.2
65	92.2	72.1	112.1



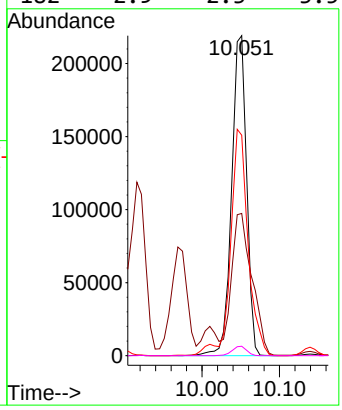


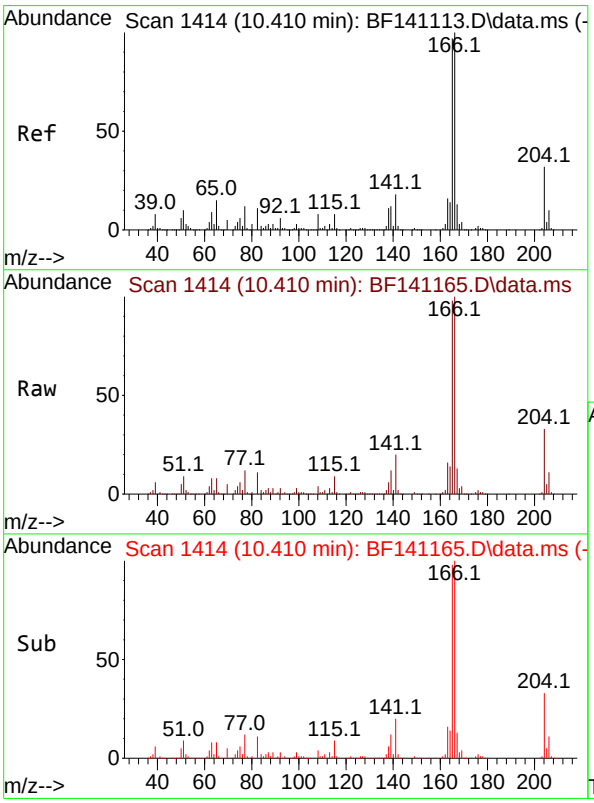
#57
2,4-Dinitrotoluene
Concen: 49.452 ng
RT: 10.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:165 Resp: 294883

Ion	Ratio	Lower	Upper
165	100		
63	44.5	35.0	52.4
89	68.9	56.7	85.1
182	2.9	2.3	3.5

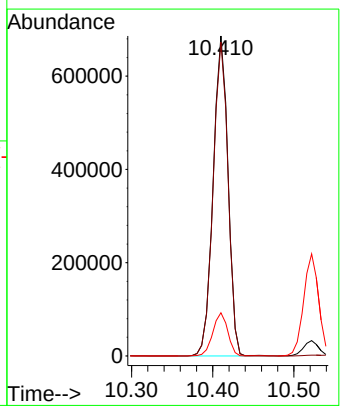


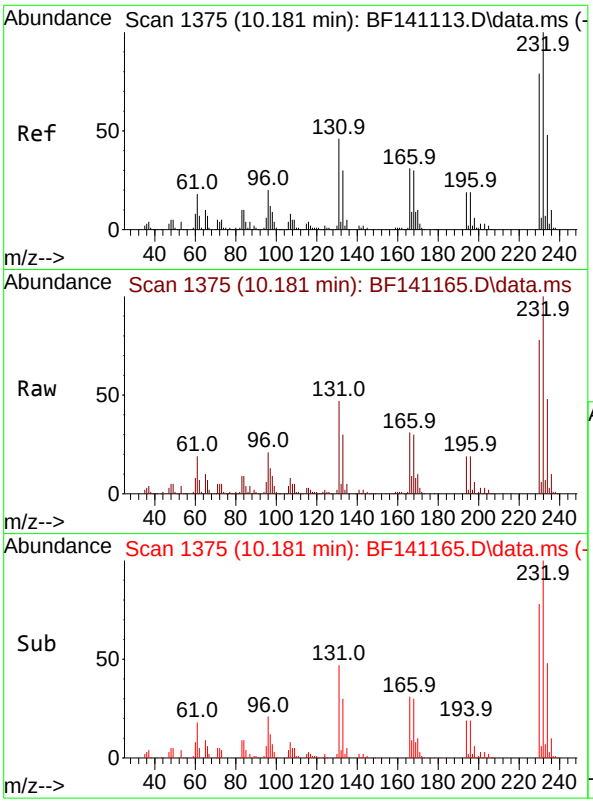


#58
Fluorene
Concen: 46.277 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:166 Resp: 875091

Ion	Ratio	Lower	Upper
166	100		
165	98.1	77.8	116.8
167	13.5	10.8	16.2



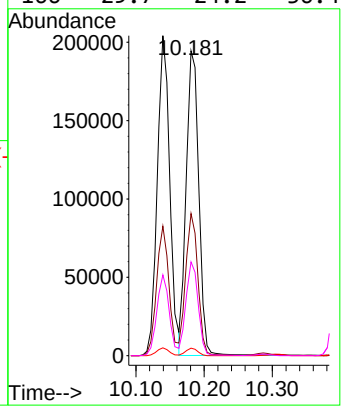


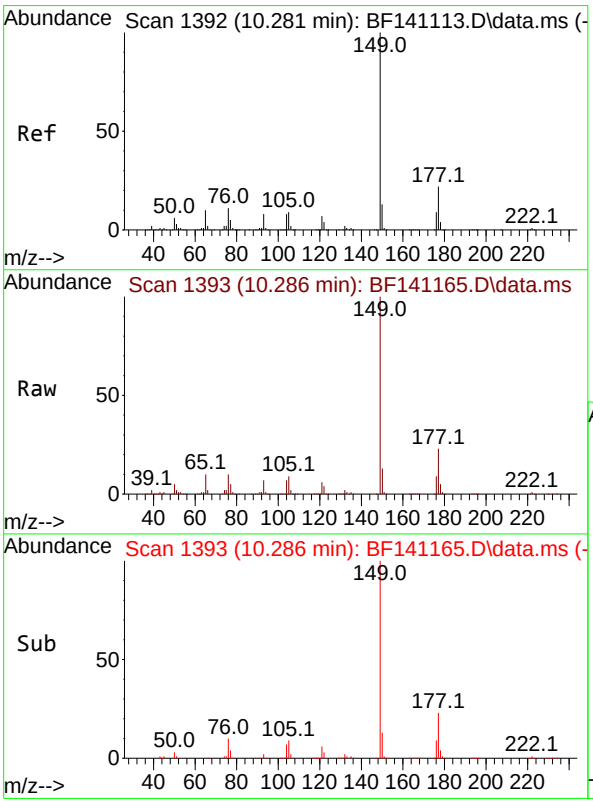
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.226 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:232 Resp: 247930

Ion	Ratio	Lower	Upper
232	100		
131	45.2	36.2	54.4
130	2.3	2.0	3.0
166	29.7	24.2	36.4

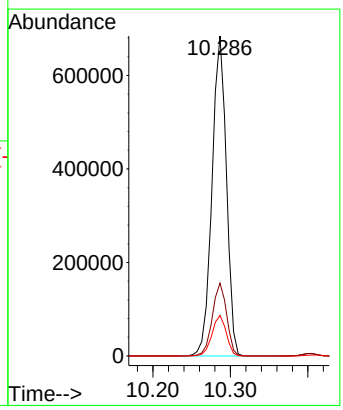


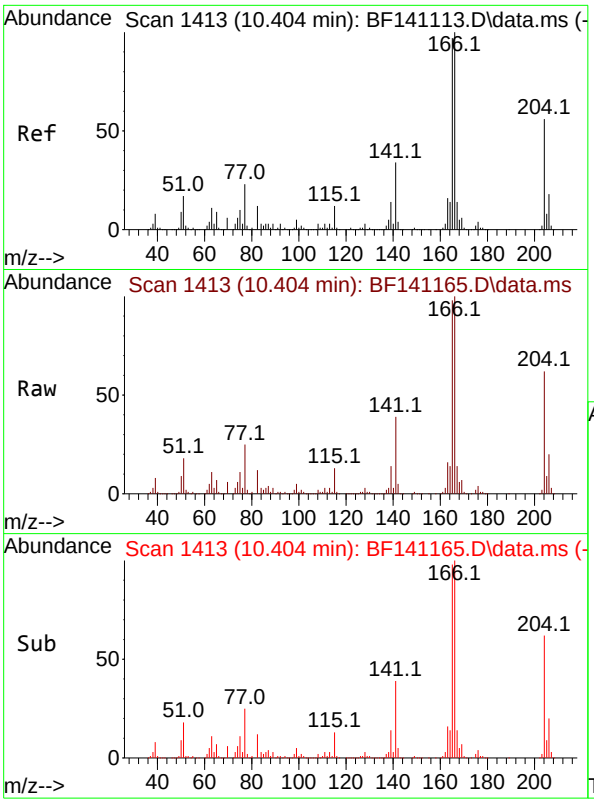


#60
Diethylphthalate
Concen: 45.376 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 881421

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.9	26.9
150	12.7	10.2	15.2



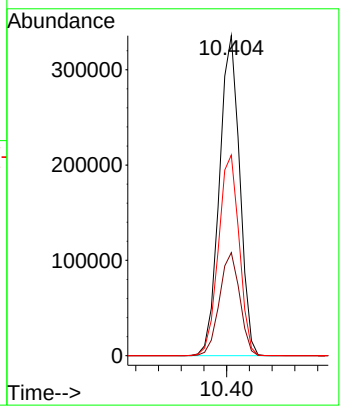


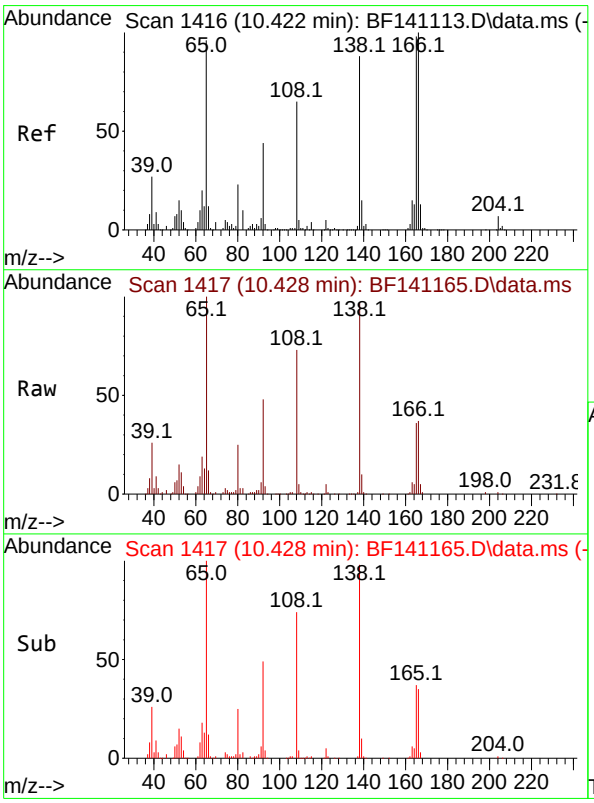
#61
4-Chlorophenyl-phenylether
Concen: 45.177 ng
RT: 10.404 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:204 Resp: 416366

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.9	38.9
141	62.7	49.1	73.7

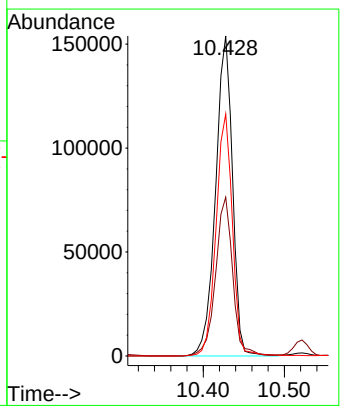


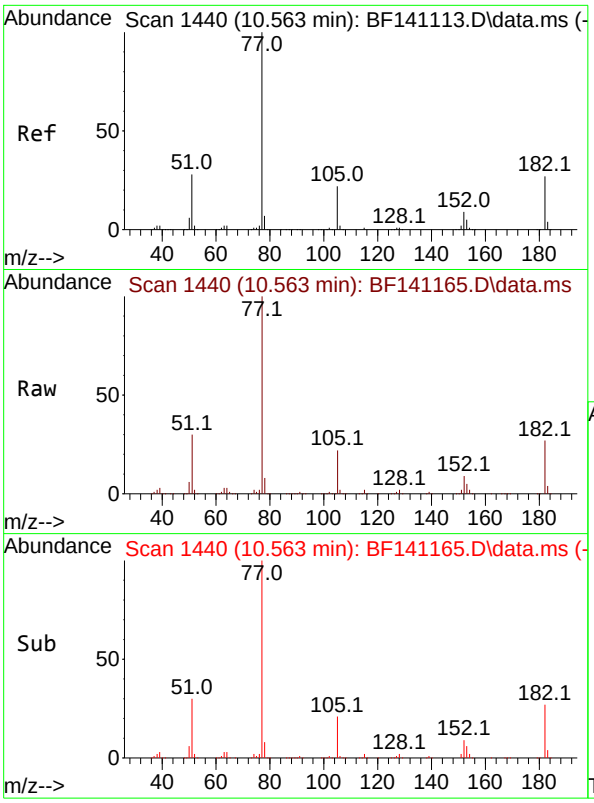


#62
4-Nitroaniline
Concen: 48.524 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:138 Resp: 223312

Ion	Ratio	Lower	Upper
138	100		
92	49.6	29.4	69.4
108	75.6	53.7	93.7



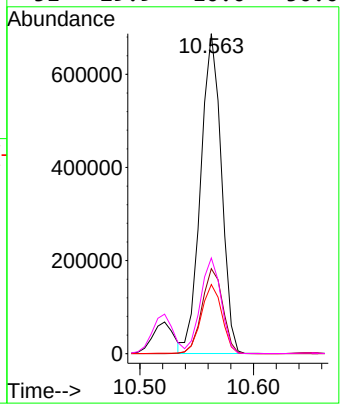


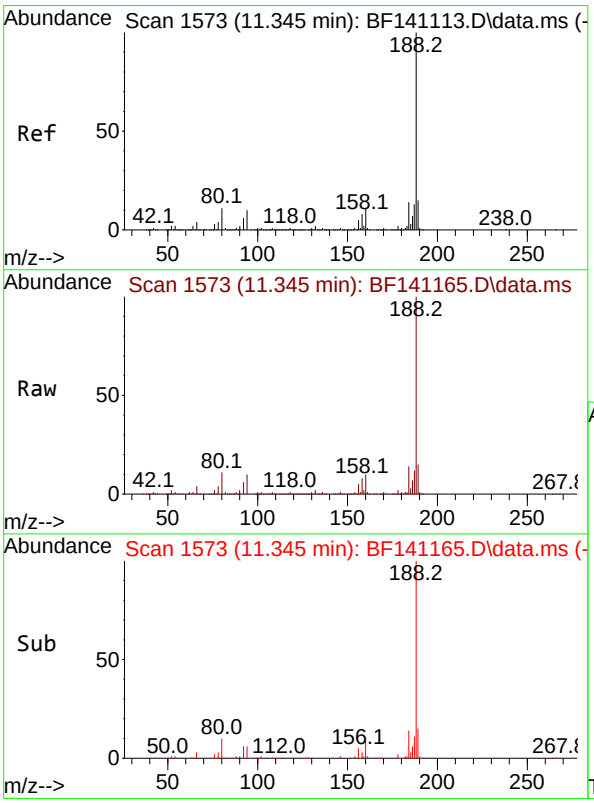
#63
Azobenzene
Concen: 45.387 ng
RT: 10.563 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion: 77 Resp: 869933

Ion	Ratio	Lower	Upper
77	100		
182	26.6	6.1	46.1
105	21.6	2.1	42.1
51	29.9	10.0	50.0

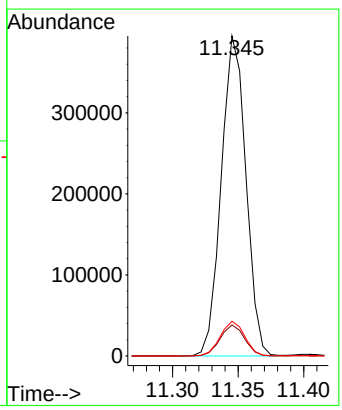


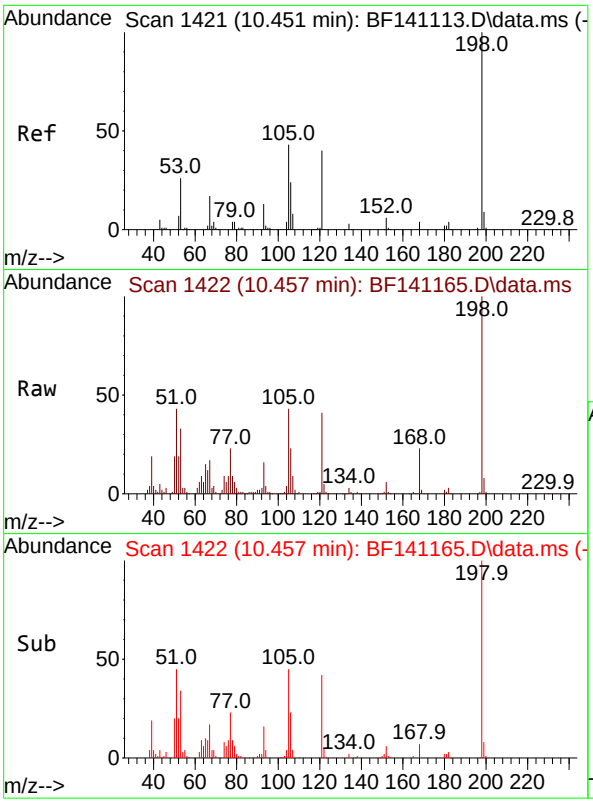


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:188 Resp: 515619

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.3	12.5
80	10.9	9.0	13.4



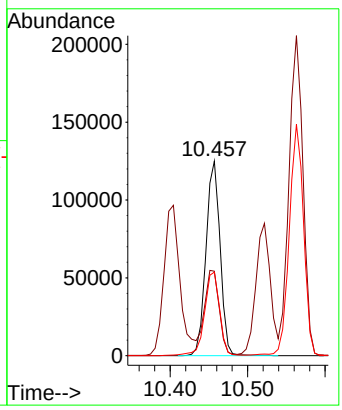


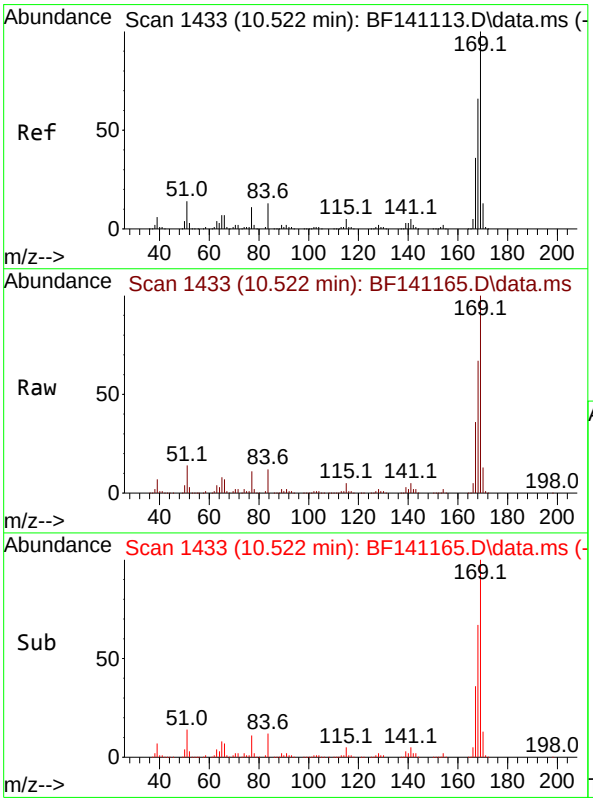
#65
4,6-Dinitro-2-methylphenol
Concen: 53.041 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:198 Resp: 158478

Ion	Ratio	Lower	Upper
198	100		
51	43.5	27.1	67.1
105	43.0	24.2	64.2

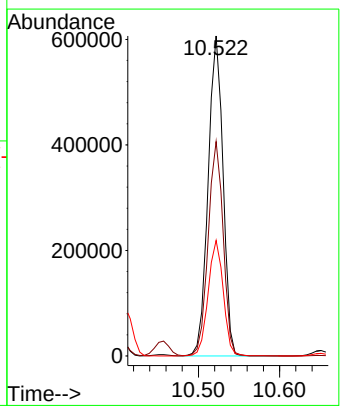


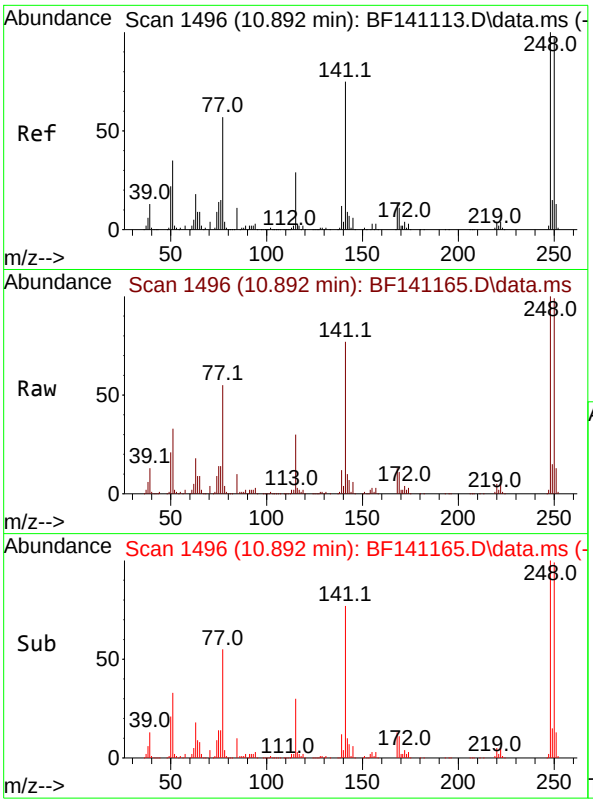


#66
n-Nitrosodiphenylamine
Concen: 46.419 ng
RT: 10.522 min Scan# 1433
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:169 Resp: 771997

Ion	Ratio	Lower	Upper
169	100		
168	67.0	52.5	78.7
167	36.1	28.9	43.3



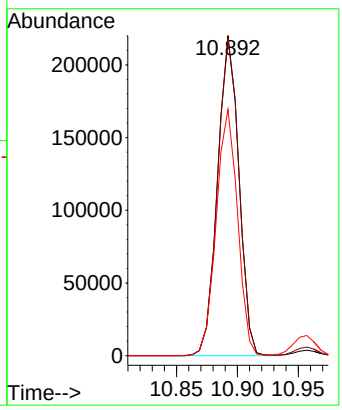


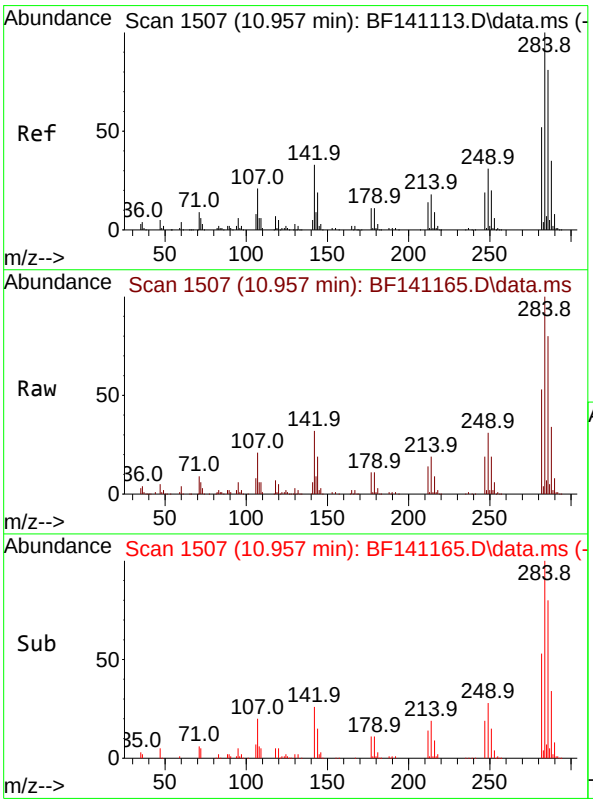
#67
4-Bromophenyl-phenylether
Concen: 45.353 ng
RT: 10.892 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:248 Resp: 269230

Ion	Ratio	Lower	Upper
248	100		
250	99.2	77.9	116.9
141	76.9	59.9	89.9

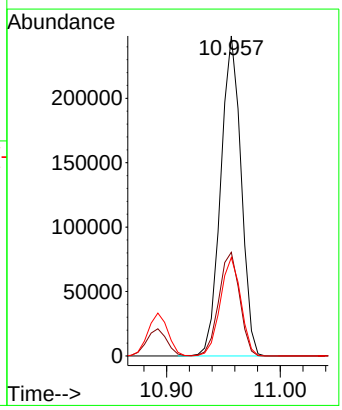


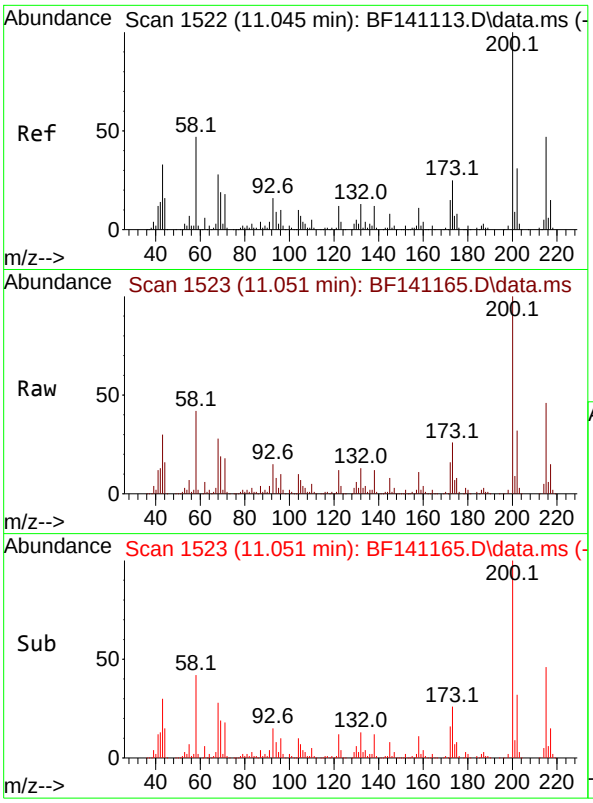


#68
Hexachlorobenzene
Concen: 46.838 ng
RT: 10.957 min Scan# 1507
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:284 Resp: 309514

Ion	Ratio	Lower	Upper
284	100		
142	32.4	26.3	39.5
249	30.7	24.9	37.3



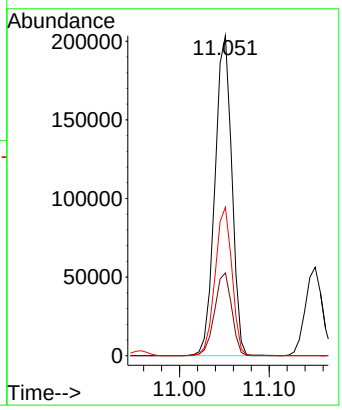


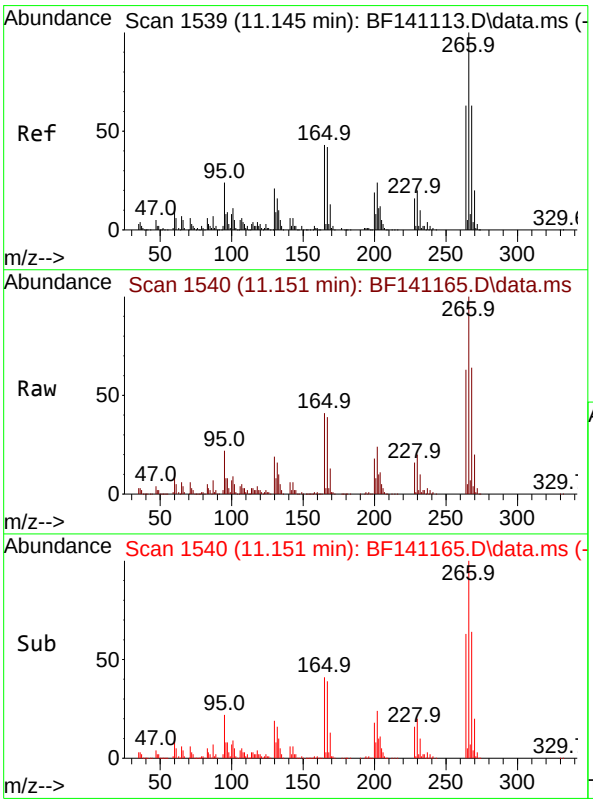
#69
Atrazine
Concen: 59.388 ng
RT: 11.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:200 Resp: 265941

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.4	45.4
215	46.4	26.6	66.6

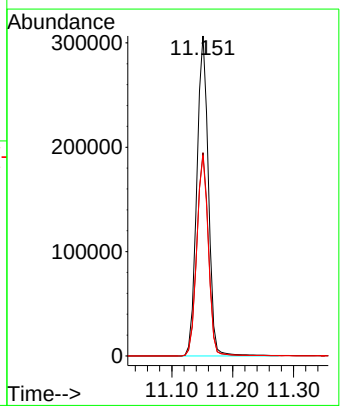


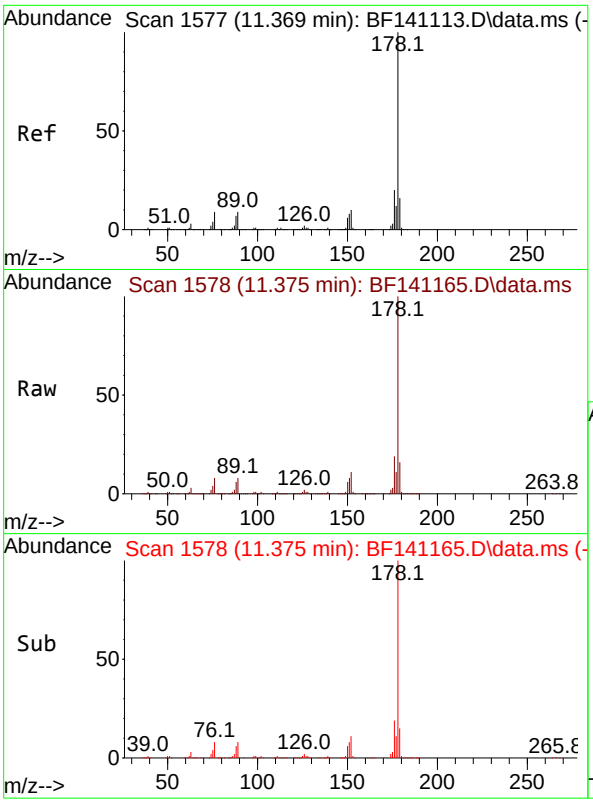


#70
Pentachlorophenol
Concen: 95.622 ng
RT: 11.151 min Scan# 1540
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:266 Resp: 404666

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.4	75.6
264	62.7	50.2	75.2



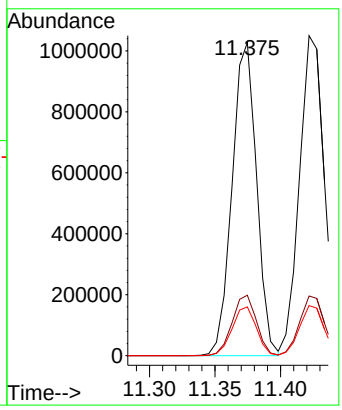


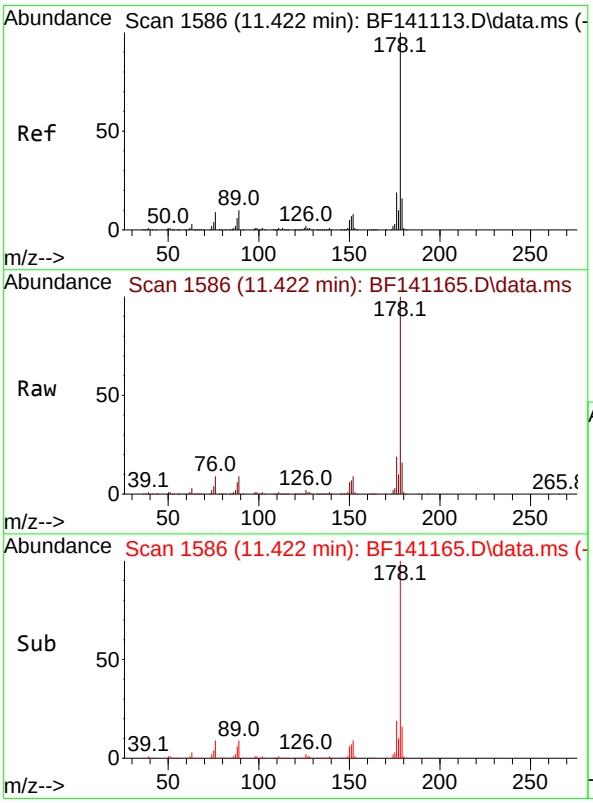
#71
Phenanthrene
Concen: 48.152 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:178 Resp: 1332947

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.6	12.6	19.0

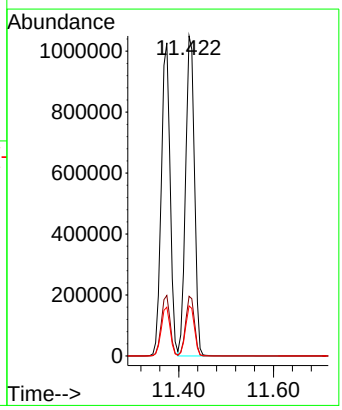


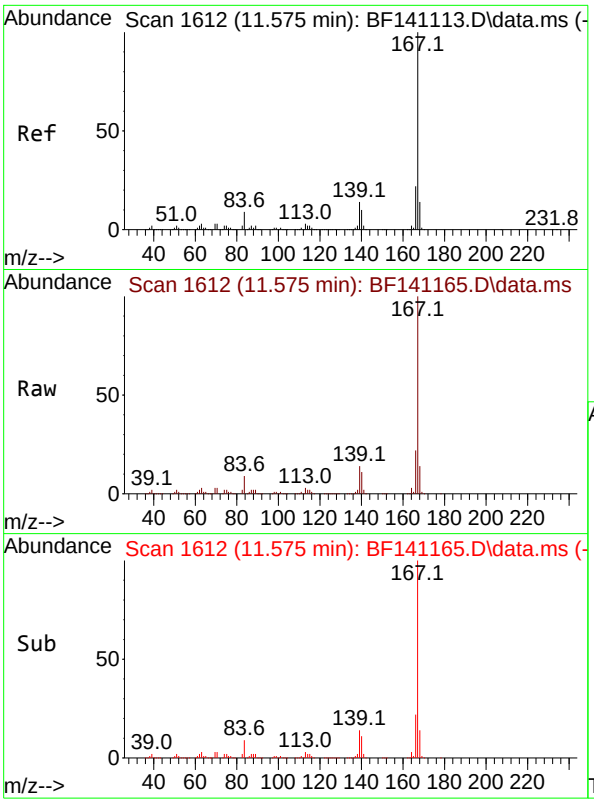


#72
Anthracene
Concen: 50.816 ng
RT: 11.422 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:178 Resp: 1367788

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.7	12.6	19.0



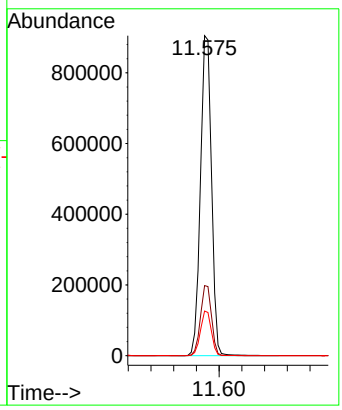


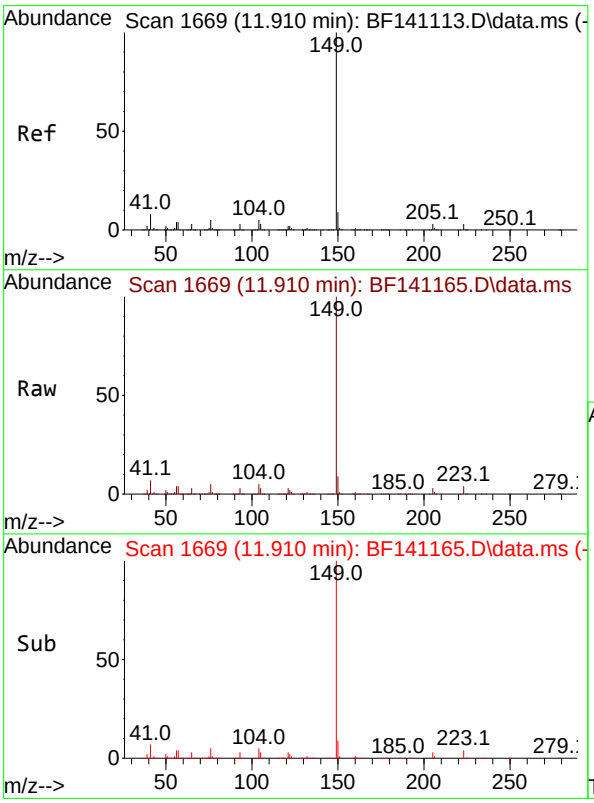
#73
Carbazole
Concen: 49.571 ng
RT: 11.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:167 Resp: 1223450

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.9	10.9	16.3

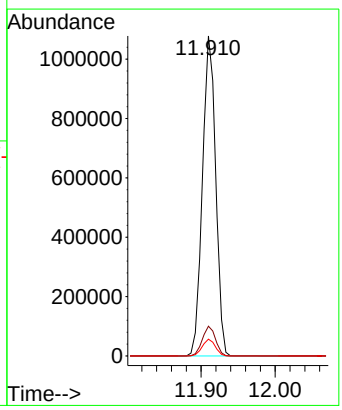


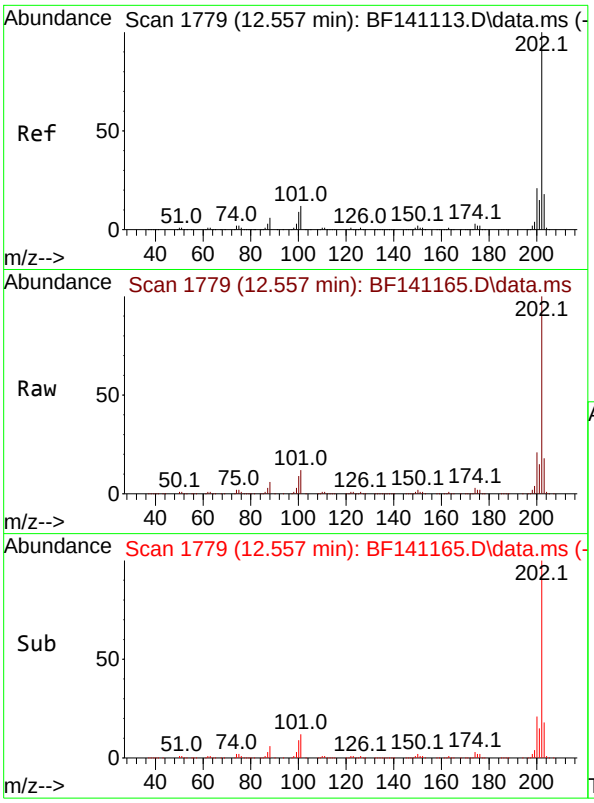


#74
Di-n-butylphthalate
Concen: 47.390 ng
RT: 11.910 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 1338545

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.2	4.2	6.2



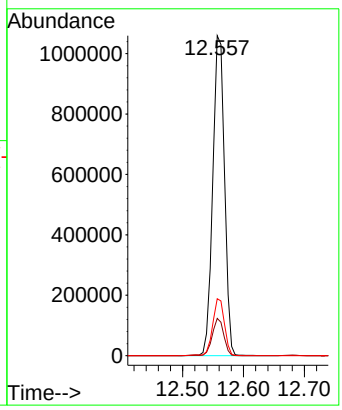


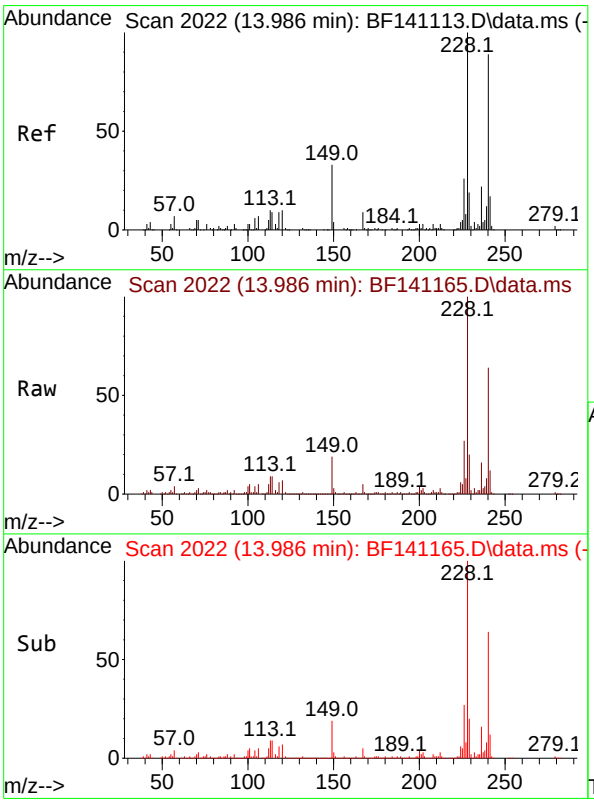
#75
Fluoranthene
Concen: 51.371 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:202 Resp: 1419075

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.3
203	17.8	0.0	37.7

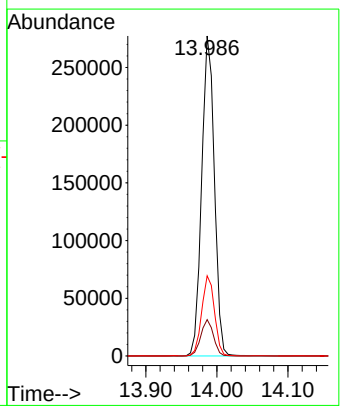


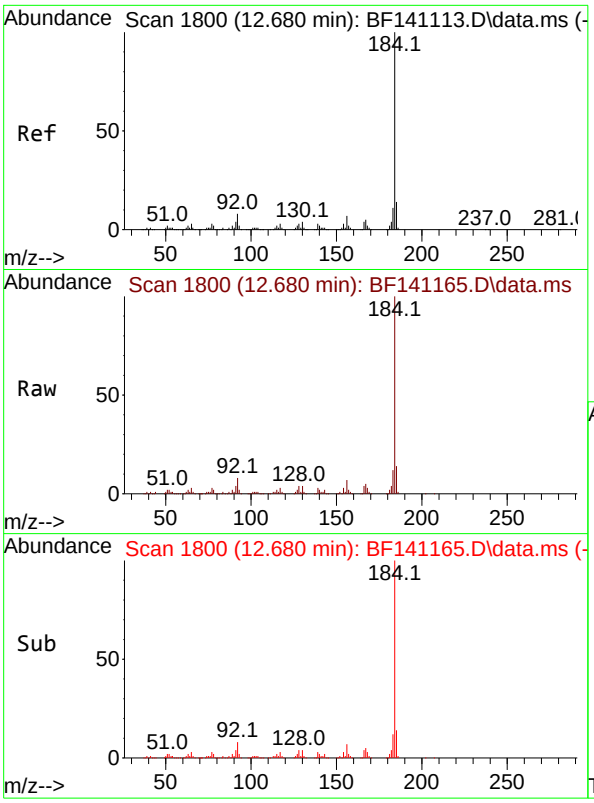


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:240 Resp: 346259

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.1	13.7
236	25.1	19.8	29.6



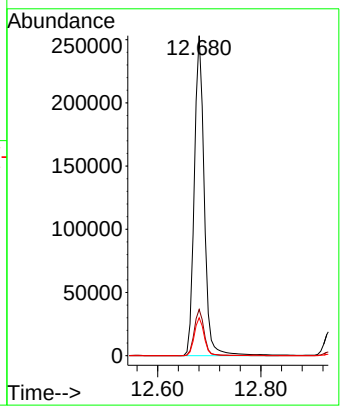


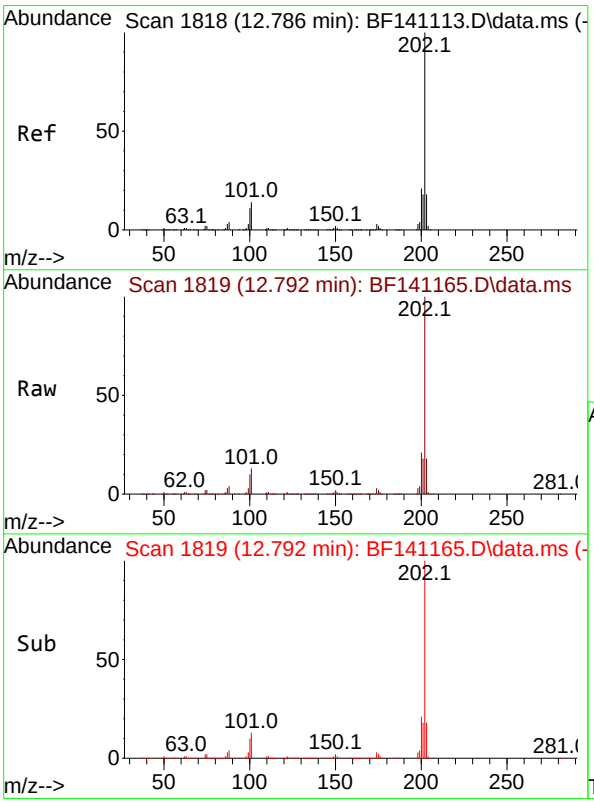
#77
Benzidine
Concen: 52.610 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:184 Resp: 337816

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.4	17.0
183	11.9	9.2	13.8

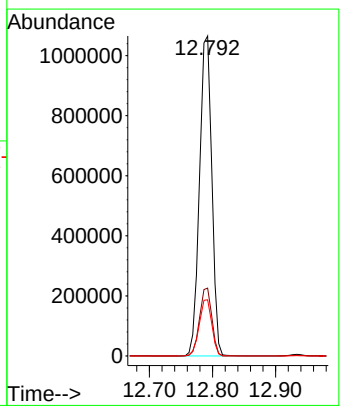


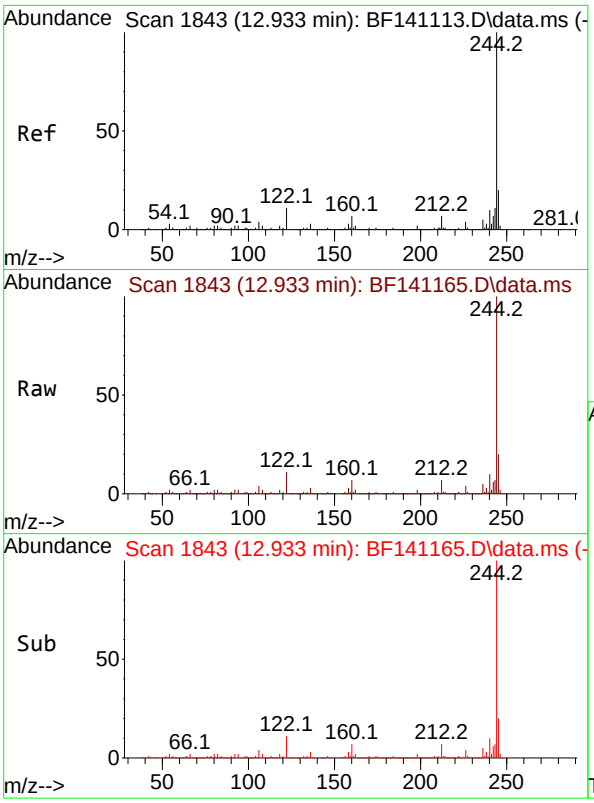


#78
Pyrene
Concen: 43.609 ng
RT: 12.792 min Scan# 1819
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:202 Resp: 1442231

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.5	14.3	21.5



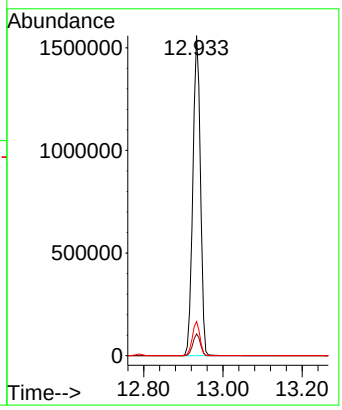


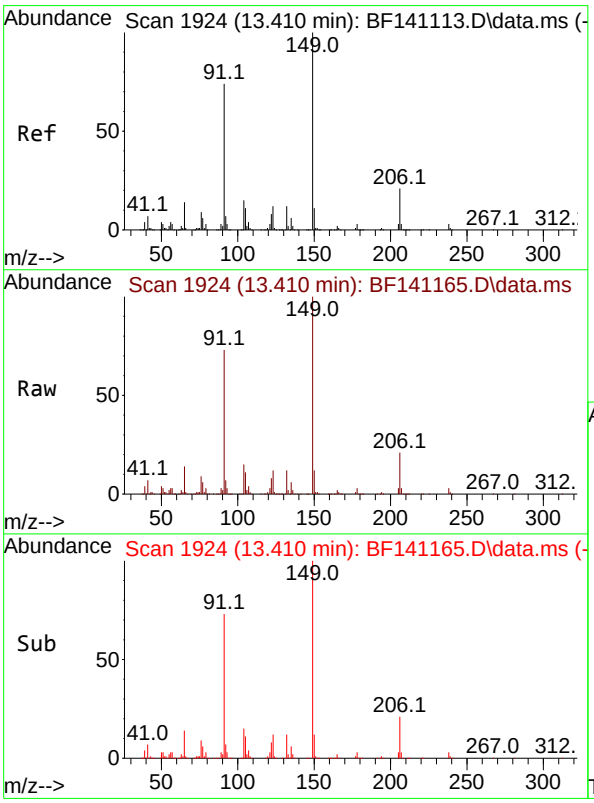
#79
Terphenyl-d14
Concen: 88.698 ng
RT: 12.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:244 Resp: 2066373

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.7	8.8	13.2

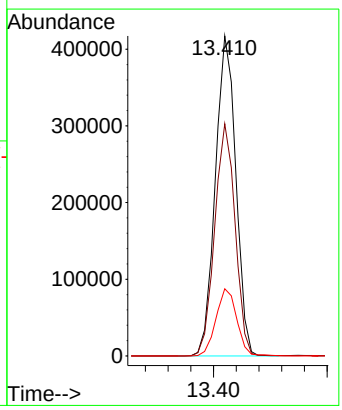


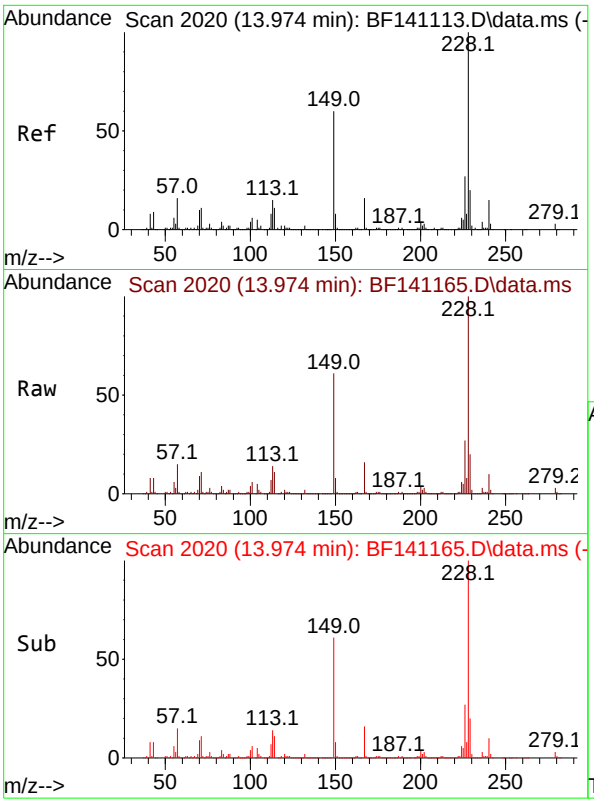


#80
Butylbenzylphthalate
Concen: 47.451 ng
RT: 13.410 min Scan# 1924
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 523212

Ion	Ratio	Lower	Upper
149	100		
91	72.6	59.0	88.6
206	21.0	16.5	24.7



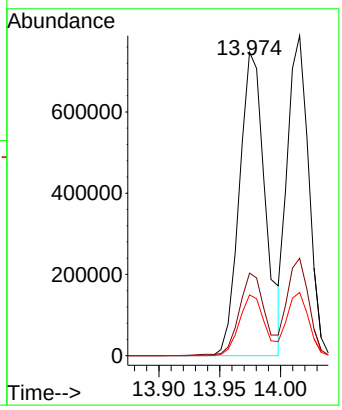


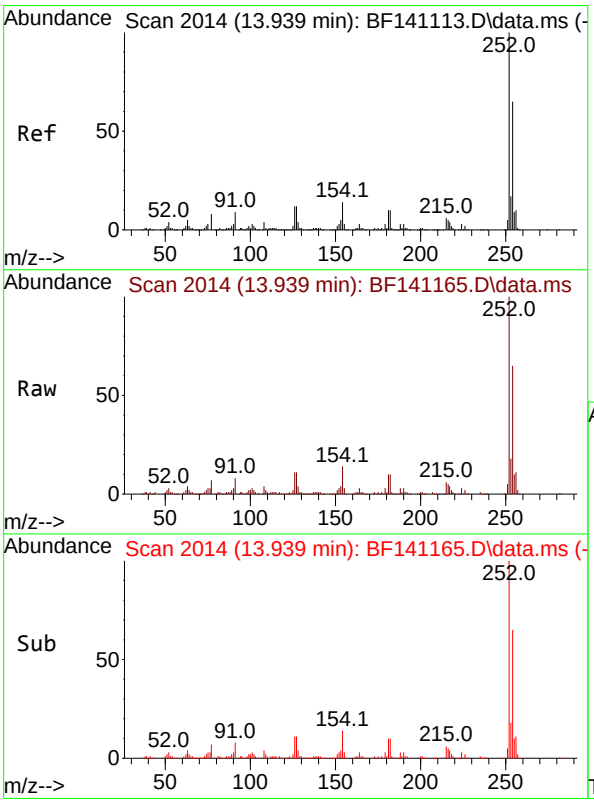
#81
Benzo(a)anthracene
Concen: 46.825 ng
RT: 13.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:228 Resp: 1103435

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.7	32.5
229	20.1	15.7	23.5

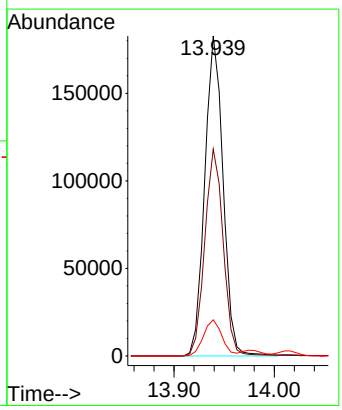


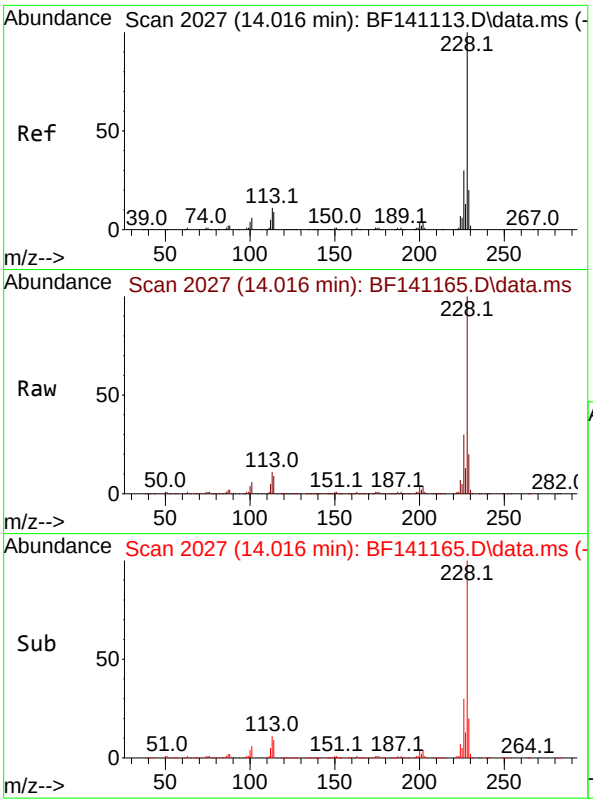


#82
3,3'-Dichlorobenzidine
Concen: 31.049 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:252 Resp: 232976

Ion	Ratio	Lower	Upper
252	100		
254	64.7	52.0	78.0
126	11.3	9.4	14.0



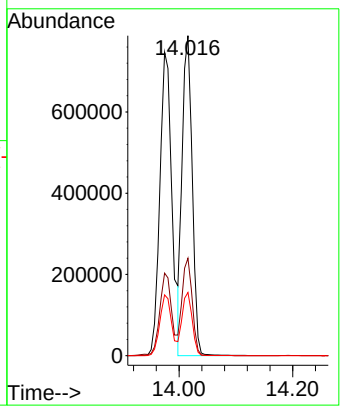


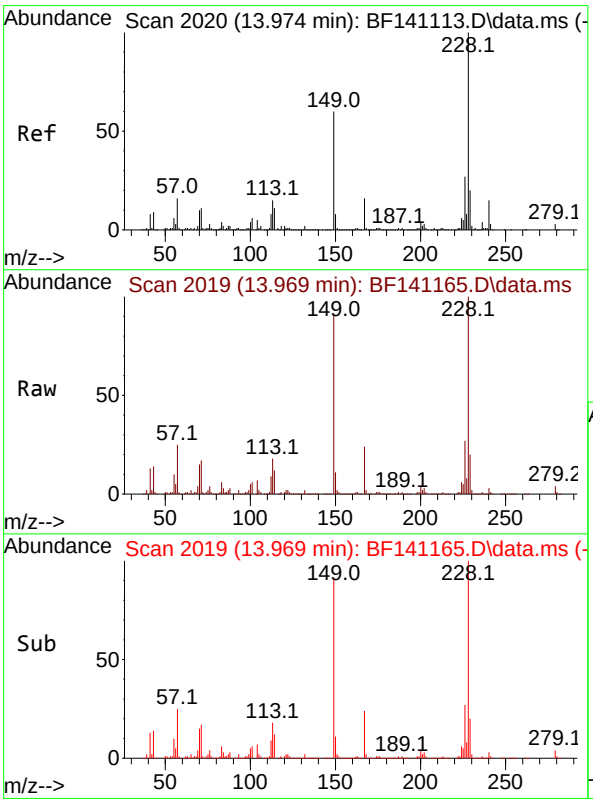
#83
Chrysene
Concen: 43.571 ng
RT: 14.016 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:228 Resp: 960710

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	19.8	15.8	23.8

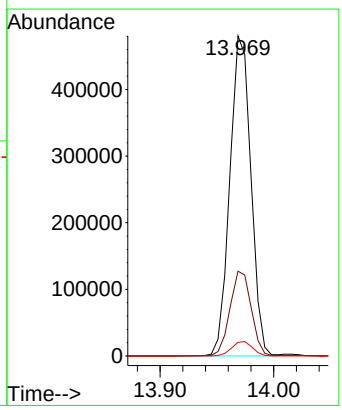


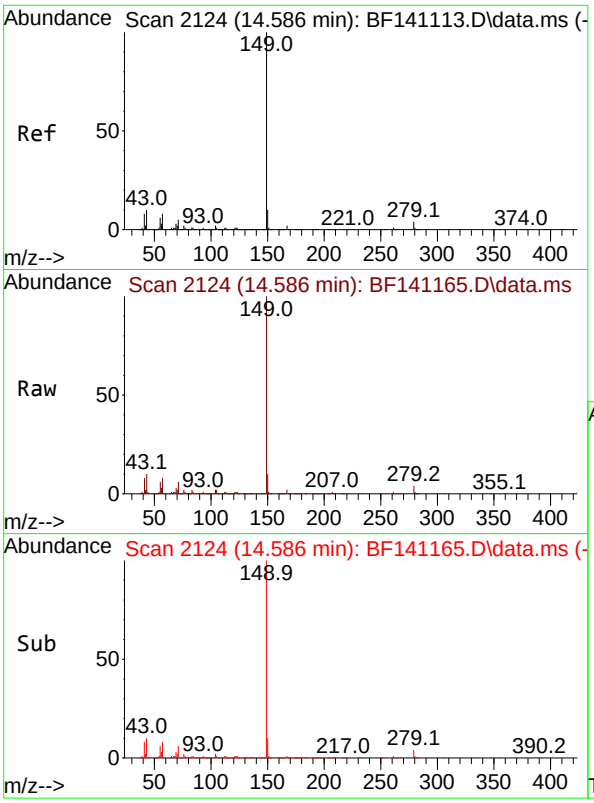


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.753 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:149 Resp: 618547

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.2
279	4.2	3.4	5.2



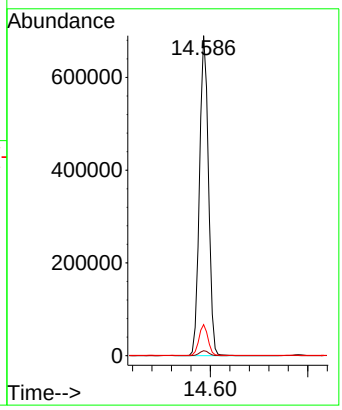


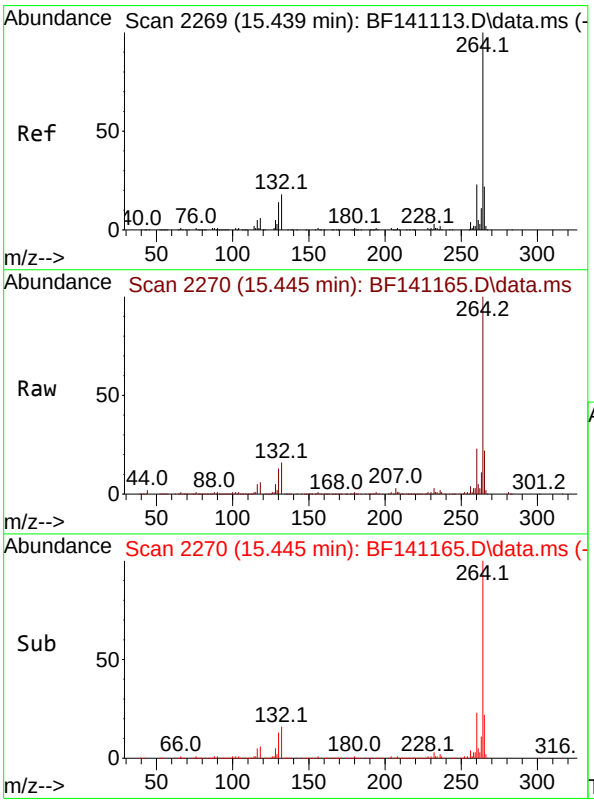
#85
Di-n-octyl phthalate
Concen: 44.131 ng
RT: 14.586 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:149 Resp: 881680

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.7	8.4	12.6

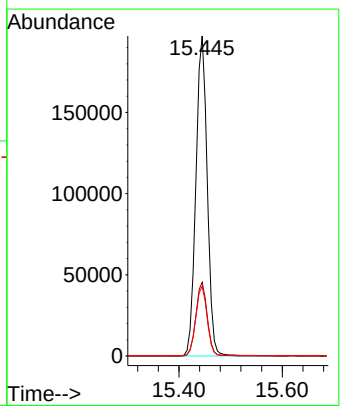


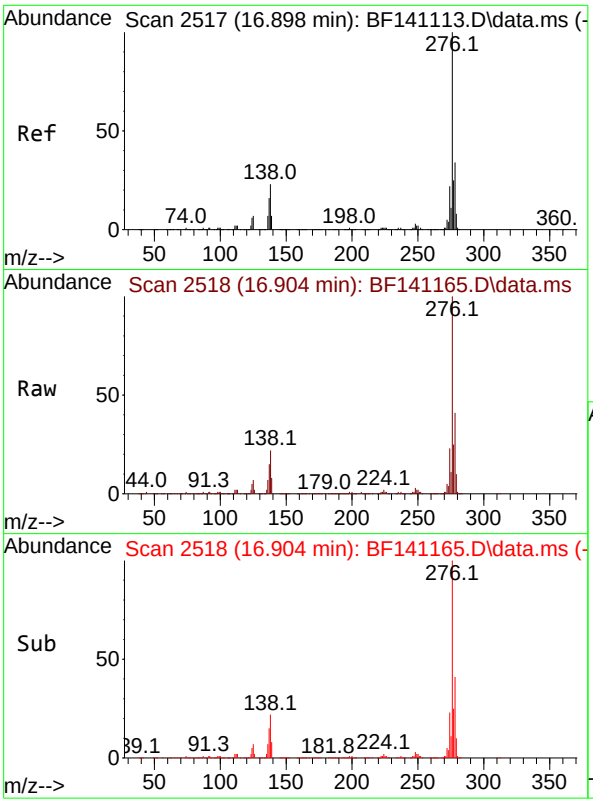


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.445 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:264 Resp: 300143

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	28.0
265	21.8	17.4	26.0



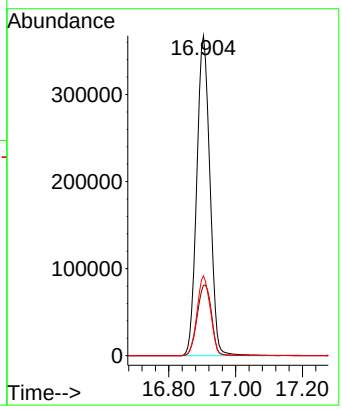


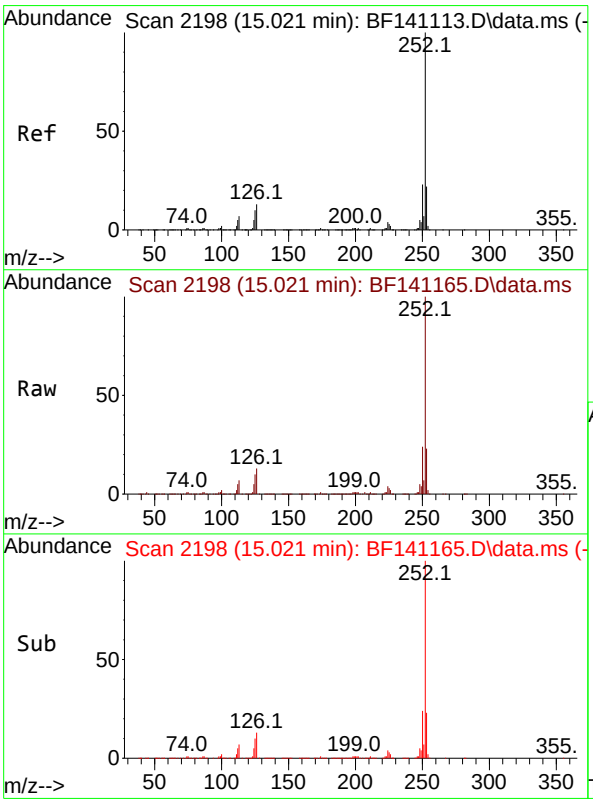
#87
Indeno(1,2,3-cd)pyrene
Concen: 45.691 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:276 Resp: 1004718

Ion	Ratio	Lower	Upper
276	100		
138	24.1	20.7	31.1
277	25.3	20.6	30.8

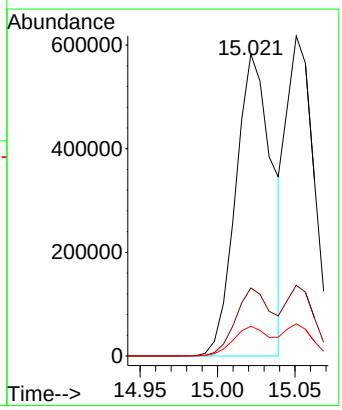


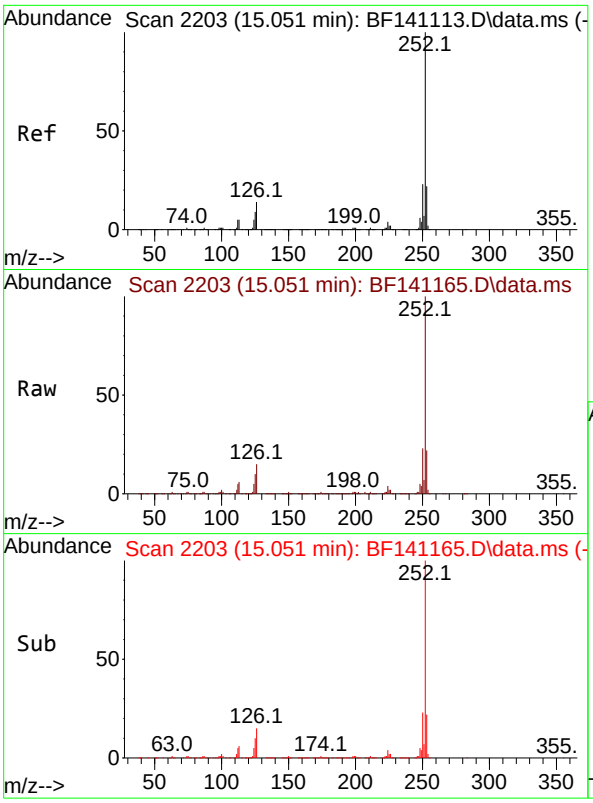


#88
Benzo(b)fluoranthene
Concen: 49.075 ng
RT: 15.021 min Scan# 2198
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:252 Resp: 949809

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	9.9	8.1	12.1



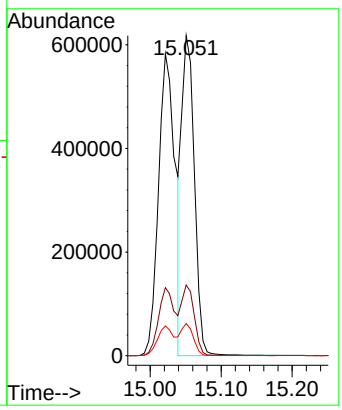


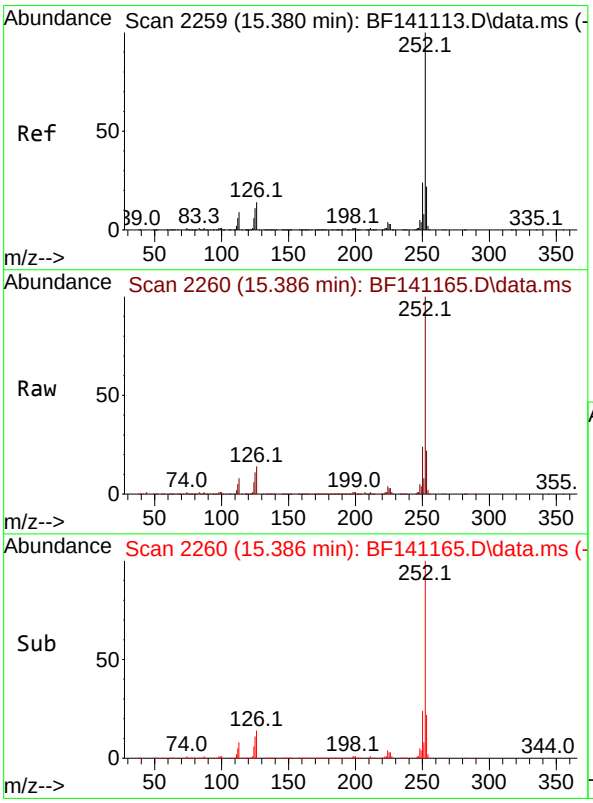
#89
Benzo(k)fluoranthene
Concen: 46.966 ng
RT: 15.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:252 Resp: 768181

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	10.0	7.9	11.9

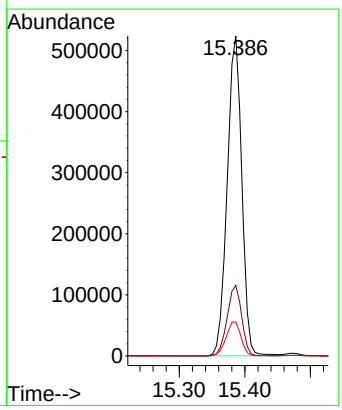


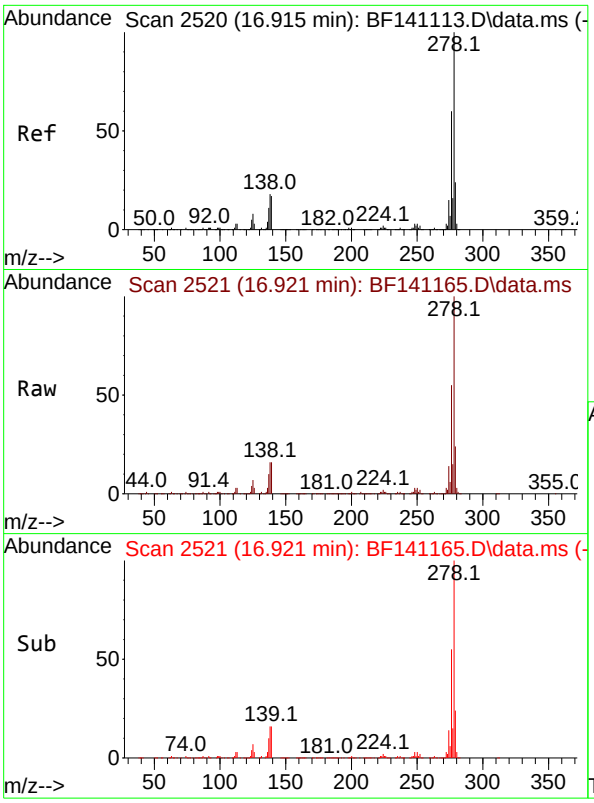


#90
Benzo(a)pyrene
Concen: 50.551 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:252 Resp: 807216

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	10.6	9.1	13.7



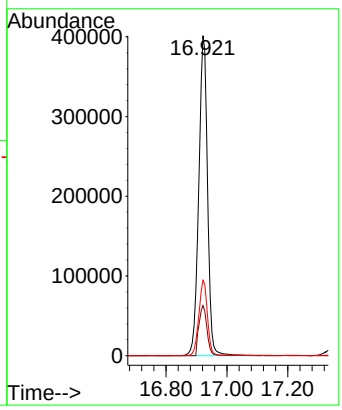


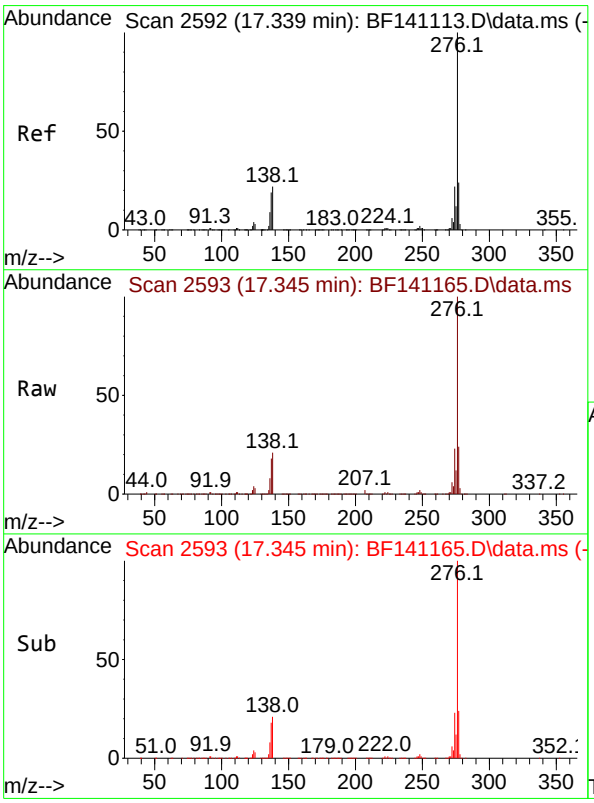
#91
Dibenzo(a,h)anthracene
Concen: 45.345 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Instrument :
BNA_F
ClientSampleId :
PB166035BS

Tgt Ion:278 Resp: 806473

Ion	Ratio	Lower	Upper
278	100		
139	15.7	13.8	20.6
279	23.5	19.1	28.7

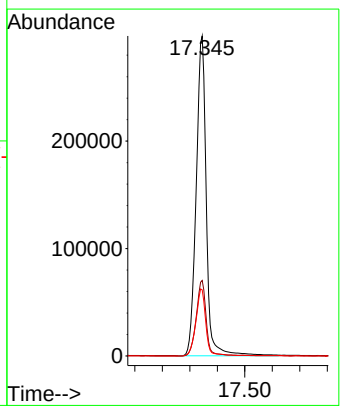




#92
Benzo(g,h,i)perylene
Concen: 41.176 ng
RT: 17.345 min Scan# 2593
Delta R.T. 0.006 min
Lab File: BF141165.D
Acq: 15 Jan 2025 10:26

Tgt Ion:276 Resp: 761728

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	20.7	17.4	26.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141172.D
Acq On : 15 Jan 2025 13:38
Operator : RC/JU
Sample : PB166061BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Quant Time: Jan 15 14:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	125655	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	494978	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	264175	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	452645	20.000	ng		0.00
76) Chrysene-d12	13.986	240	303424	20.000	ng		0.00
86) Perylene-d12	15.445	264	262459	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.440	112	1127705	138.640	ng		0.01
7) Phenol-d6	6.445	99	1424904	138.293	ng		0.00
23) Nitrobenzene-d5	7.381	82	892254	95.554	ng		0.00
42) 2,4,6-Tribromophenol	10.651	330	468311	155.580	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1639957	94.797	ng		0.00
79) Terphenyl-d14	12.933	244	1970268	96.512	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.628	88	156795	43.287	ng		100
3) Pyridine	3.363	79	388416	43.728	ng		98
4) n-Nitrosodimethylamine	3.316	42	215018	49.507	ng		99
6) Aniline	6.481	93	353898	38.687	ng		98
8) 2-Chlorophenol	6.604	128	457309	52.403	ng		96
9) Benzaldehyde	6.363	77	55655	9.171	ng		99
10) Phenol	6.463	94	557434	50.540	ng		96
11) bis(2-Chloroethyl)ether	6.557	93	406930	49.507	ng		98
12) 1,3-Dichlorobenzene	6.757	146	472098	48.504	ng		99
13) 1,4-Dichlorobenzene	6.839	146	481103	49.051	ng		99
14) 1,2-Dichlorobenzene	6.987	146	459155	50.186	ng		99
15) Benzyl Alcohol	6.963	79	383977	51.604	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.092	45	550143	47.963	ng		97
17) 2-Methylphenol	7.069	107	364075	51.675	ng		99
18) Hexachloroethane	7.334	117	172983	48.770	ng		97
19) n-Nitroso-di-n-propyla...	7.234	70	298704	49.215	ng		97
20) 3+4-Methylphenols	7.222	107	456394	51.345	ng		91
22) Acetophenone	7.228	105	594750	50.545	ng	#	95
24) Nitrobenzene	7.404	77	470238	48.319	ng		99
25) Isophorone	7.639	82	811569	50.857	ng		99
26) 2-Nitrophenol	7.716	139	236745	53.479	ng		97
27) 2,4-Dimethylphenol	7.751	122	361074	60.469	ng		98
28) bis(2-Chloroethoxy)met...	7.851	93	492644	49.192	ng		99
29) 2,4-Dichlorophenol	7.957	162	371144	52.334	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	389479	48.047	ng		99
31) Naphthalene	8.128	128	1300768	49.832	ng		99
32) Benzoic acid	7.869	122	286894	50.086	ng		99
33) 4-Chloroaniline	8.169	127	186433	20.652	ng		99
34) Hexachlorobutadiene	8.239	225	235776	48.271	ng		99
35) Caprolactam	8.539	113	88699	38.202	ng		99
36) 4-Chloro-3-methylphenol	8.657	107	403179	51.983	ng		99
37) 2-Methylnaphthalene	8.816	142	845856	50.852	ng		100
38) 1-Methylnaphthalene	8.916	142	784309	47.844	ng		99
40) 1,2,4,5-Tetrachloroben...	8.980	216	385980	50.905	ng		99
41) Hexachlorocyclopentadiene	8.969	237	465991	187.848	ng		99
43) 2,4,6-Trichlorophenol	9.092	196	272398	53.267	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141172.D
Acq On : 15 Jan 2025 13:38
Operator : RC/JU
Sample : PB166061BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Quant Time: Jan 15 14:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	270073	50.006	ng	99
46) 1,1'-Biphenyl	9.280	154	1016465	49.545	ng	99
47) 2-Chloronaphthalene	9.304	162	777411	48.651	ng	100
48) 2-Nitroaniline	9.398	65	247443	52.239	ng	99
49) Acenaphthylene	9.722	152	1221518	53.506	ng	99
50) Dimethylphthalate	9.586	163	893858	50.400	ng	99
51) 2,6-Dinitrotoluene	9.645	165	207427	50.295	ng	99
52) Acenaphthene	9.892	154	918132	57.563	ng	100
53) 3-Nitroaniline	9.810	138	120126	28.662	ng	97
54) 2,4-Dinitrophenol	9.916	184	239218	122.030	ng	97
55) Dibenzofuran	10.069	168	1106789	51.016	ng	99
56) 4-Nitrophenol	9.969	139	364246	110.972	ng	94
57) 2,4-Dinitrotoluene	10.045	165	288706	54.319	ng	99
58) Fluorene	10.410	166	853769	50.654	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	242021	53.911	ng	99
60) Diethylphthalate	10.286	149	860679	49.710	ng	99
61) 4-Chlorophenyl-phenyle...	10.404	204	412896	50.262	ng	99
62) 4-Nitroaniline	10.427	138	212430	51.787	ng	98
63) Azobenzene	10.563	77	854110	49.994	ng	99
65) 4,6-Dinitro-2-methylph...	10.457	198	159388	60.767	ng	94
66) n-Nitrosodiphenylamine	10.522	169	760298	52.076	ng	99
67) 4-Bromophenyl-phenylether	10.892	248	265942	51.032	ng	98
68) Hexachlorobenzene	10.957	284	308124	53.114	ng	98
69) Atrazine	11.045	200	256384	65.219	ng	99
70) Pentachlorophenol	11.151	266	392836	105.741	ng	99
71) Phenanthrene	11.369	178	1319932	54.316	ng	100
72) Anthracene	11.422	178	1332321	56.385	ng	99
73) Carbazole	11.574	167	1198881	55.334	ng	99
74) Di-n-butylphthalate	11.910	149	1286652	51.891	ng	100
75) Fluoranthene	12.557	202	1388188	57.245	ng	99
77) Benzidine	12.680	184	268054	47.639	ng	100
78) Pyrene	12.786	202	1436638	49.572	ng	100
80) Butylbenzylphthalate	13.410	149	508795	52.657	ng	98
81) Benzo(a)anthracene	13.974	228	1046000	50.654	ng	100
82) 3,3'-Dichlorobenzidine	13.939	252	214412	32.609	ng	100
83) Chrysene	14.015	228	998963	51.701	ng	100
84) Bis(2-ethylhexyl)phtha...	13.968	149	604164	52.112	ng	99
85) Di-n-octyl phthalate	14.586	149	881079	50.327	ng	97
87) Indeno(1,2,3-cd)pyrene	16.904	276	975311	50.722	ng	98
88) Benzo(b)fluoranthene	15.021	252	939329	55.502	ng	100
89) Benzo(k)fluoranthene	15.051	252	767255	53.645	ng	99
90) Benzo(a)pyrene	15.386	252	809001	57.937	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	792781	50.976	ng	98
92) Benzo(g,h,i)perylene	17.339	276	723237	44.709	ng	99

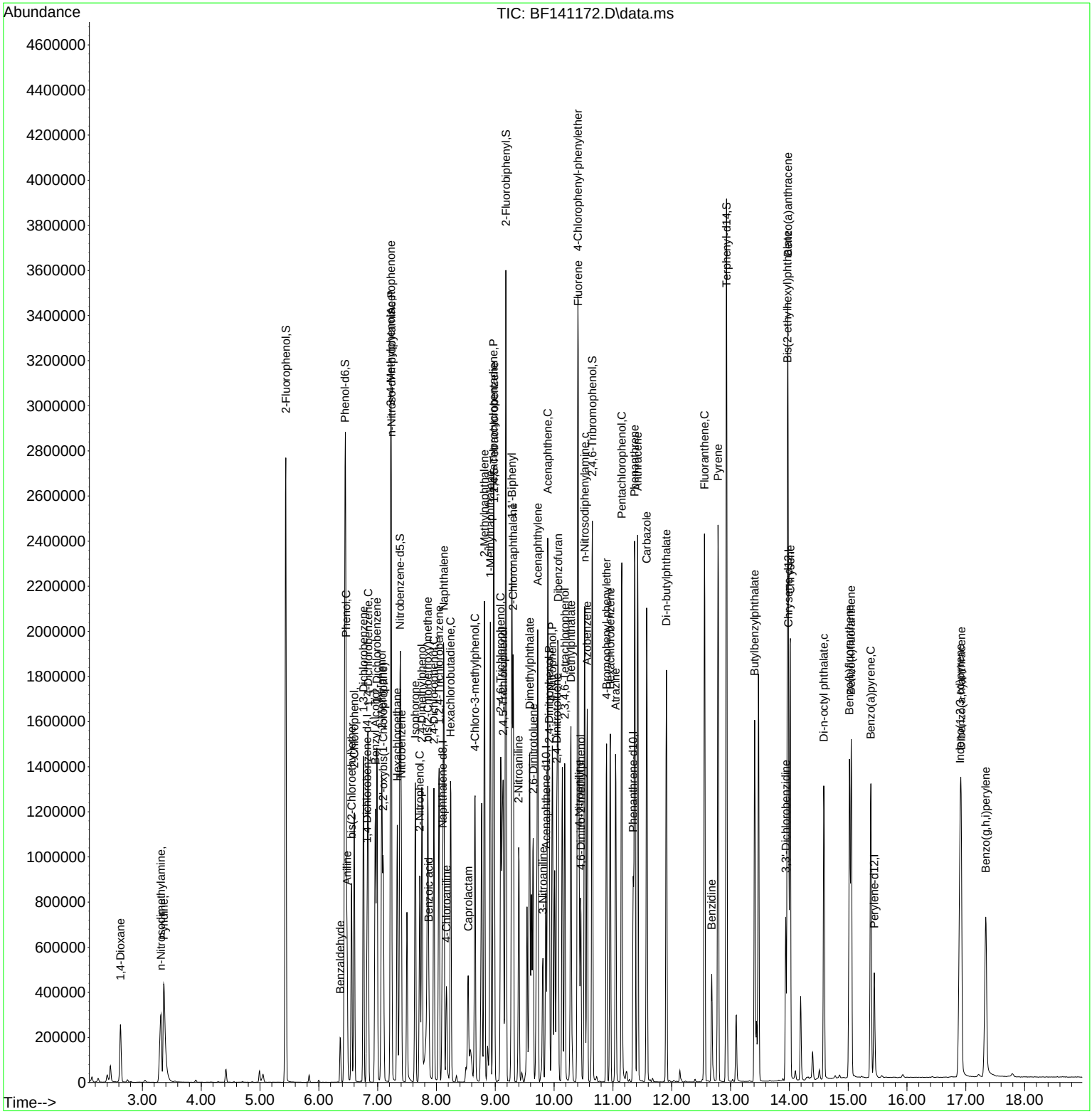
(#) = qualifier out of range (m) = manual integration (+) = signals summed

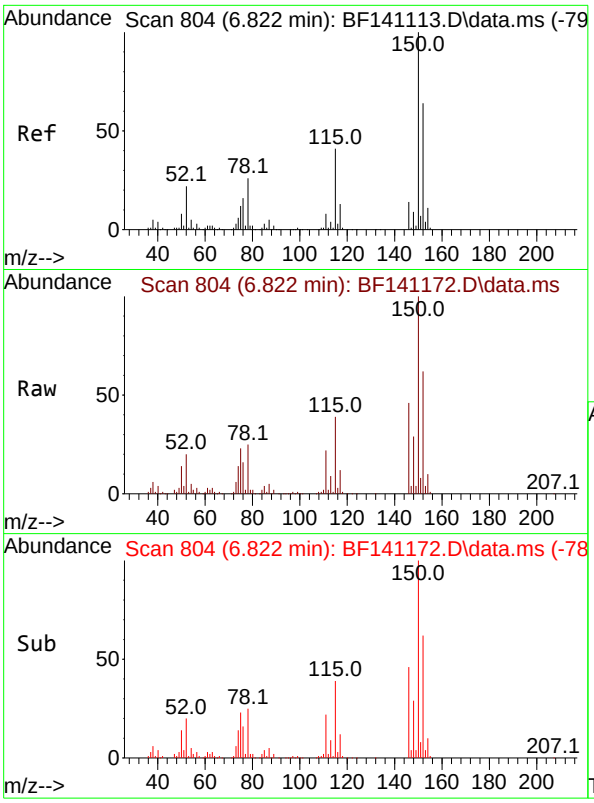
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141172.D
Acq On : 15 Jan 2025 13:38
Operator : RC/JU
Sample : PB166061BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Quant Time: Jan 15 14:09:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



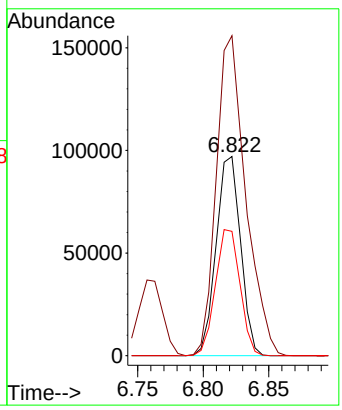


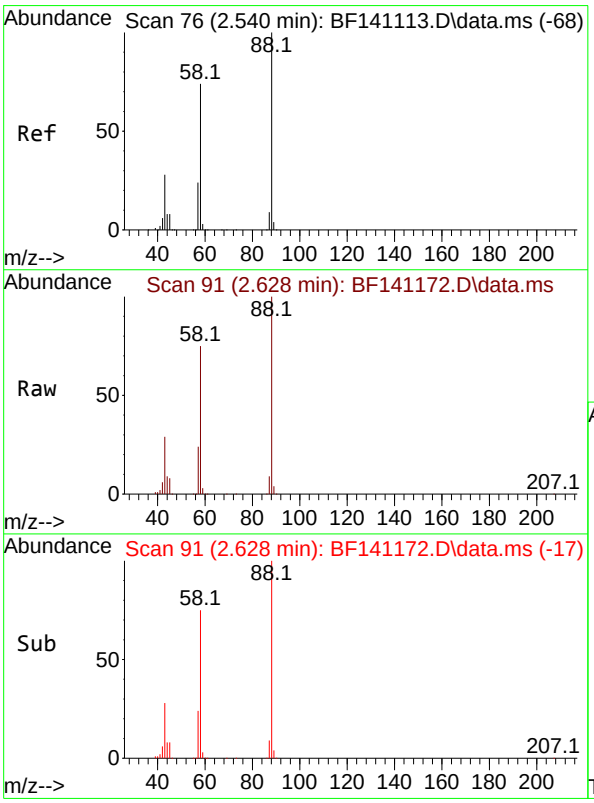
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:152 Resp: 125655

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.8	188.8
115	62.5	51.4	77.2

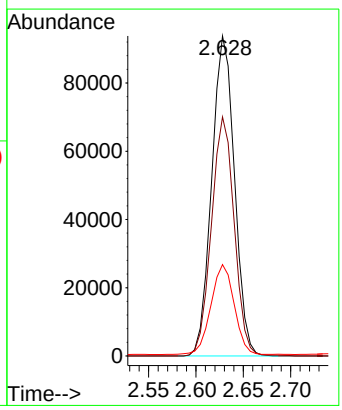


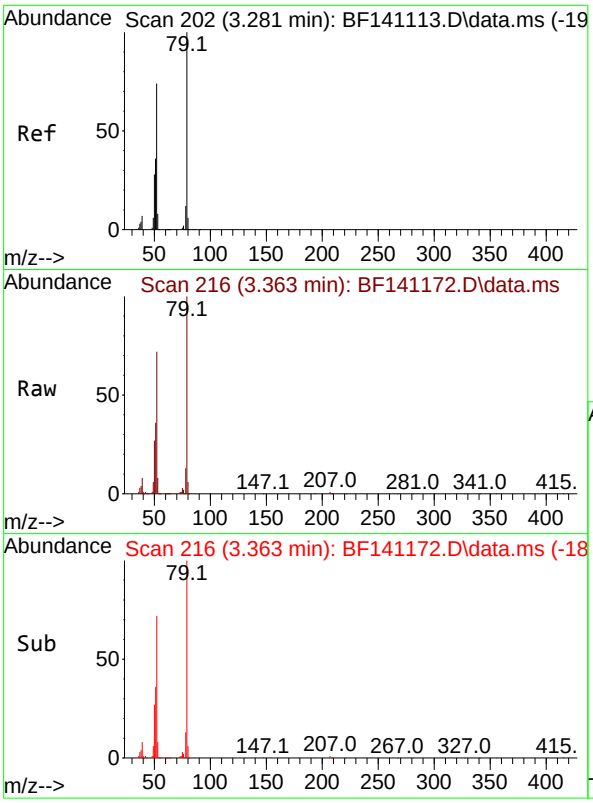


#2
1,4-Dioxane
Concen: 43.287 ng
RT: 2.628 min Scan# 91
Delta R.T. 0.088 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 88 Resp: 156795

Ion	Ratio	Lower	Upper
88	100		
58	74.7	60.1	90.1
43	28.7	23.1	34.7



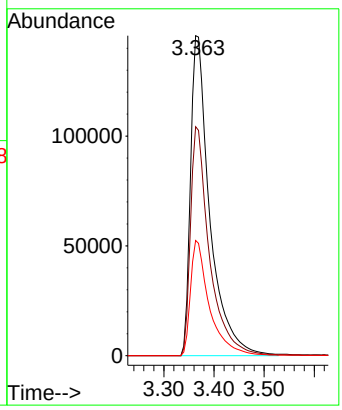


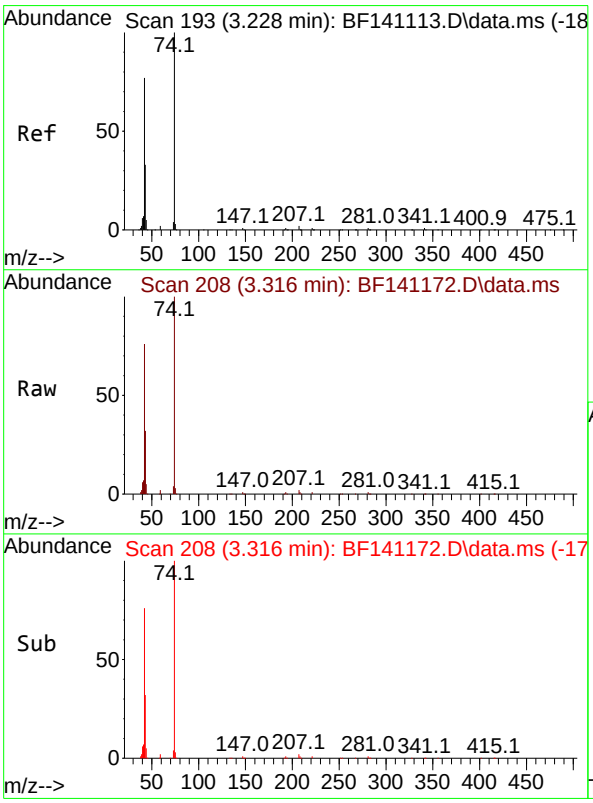
#3
Pyridine
Concen: 43.728 ng
RT: 3.363 min Scan# 21
Delta R.T. 0.082 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 79 Resp: 388416

Ion	Ratio	Lower	Upper
79	100		
52	71.5	58.9	88.3
51	36.0	29.1	43.7

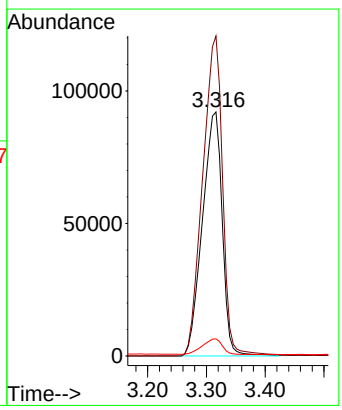


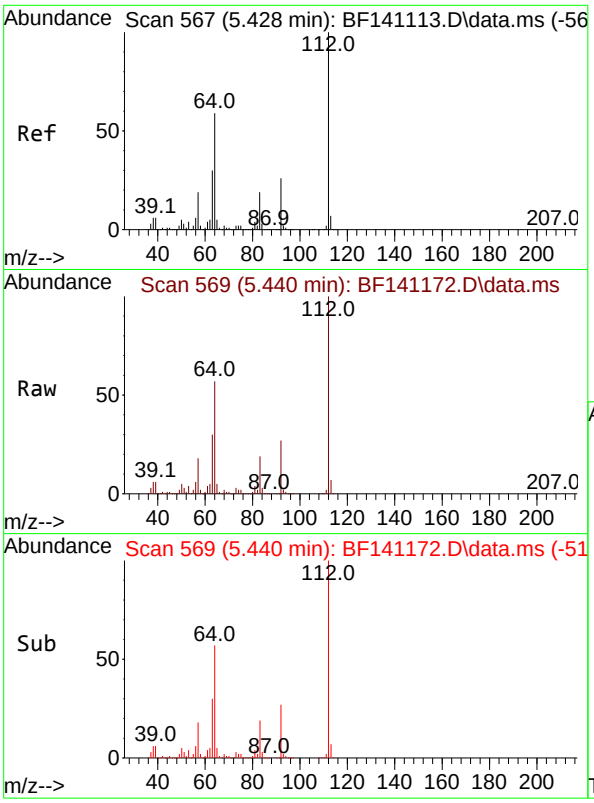


#4
n-Nitrosodimethylamine
Concen: 49.507 ng
RT: 3.316 min Scan# 208
Delta R.T. 0.088 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 42 Resp: 215018

Ion	Ratio	Lower	Upper
42	100		
74	131.1	103.8	155.6
44	7.0	5.3	7.9



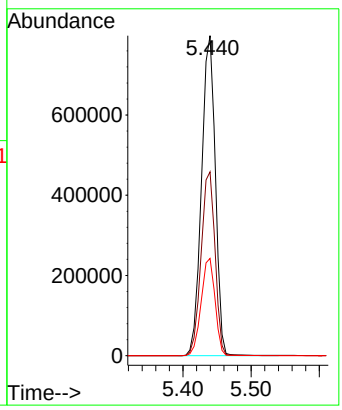


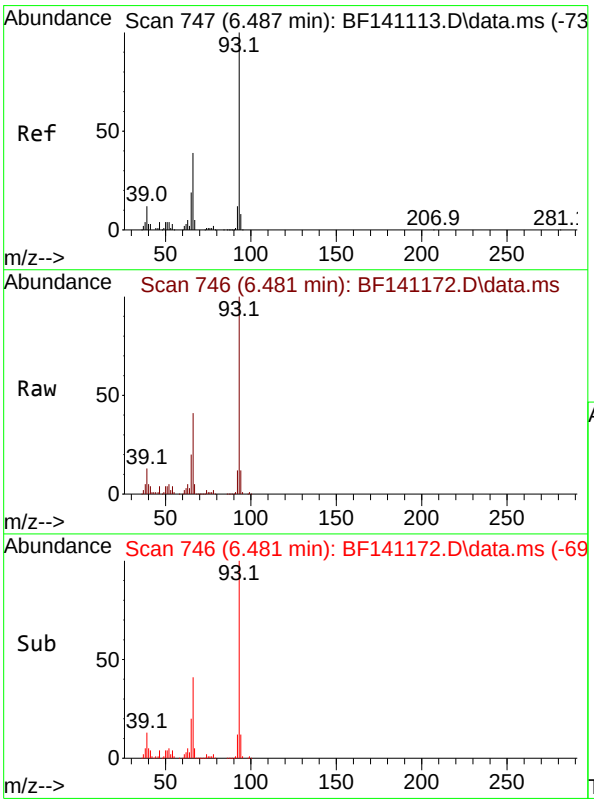
#5
2-Fluorophenol
Concen: 138.640 ng
RT: 5.440 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:112 Resp: 1127705

Ion	Ratio	Lower	Upper
112	100		
64	57.5	47.3	70.9
63	30.4	24.2	36.2

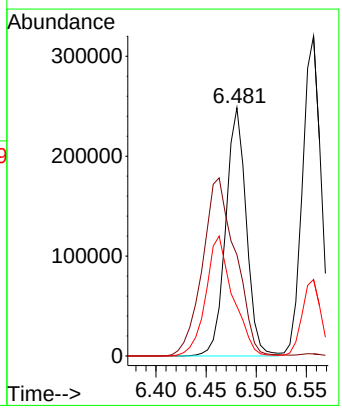


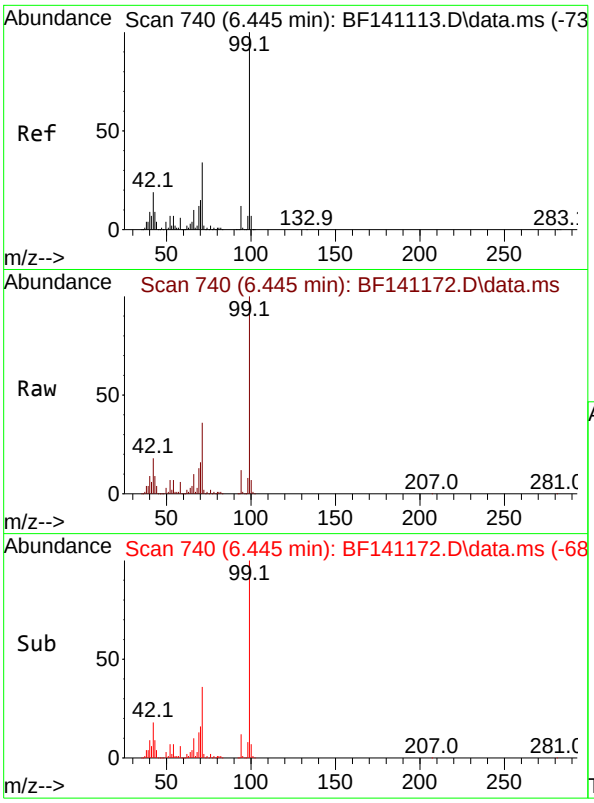


#6
Aniline
Concen: 38.687 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 93 Resp: 353898

Ion	Ratio	Lower	Upper
93	100		
66	40.8	31.5	47.3
65	20.0	15.3	22.9



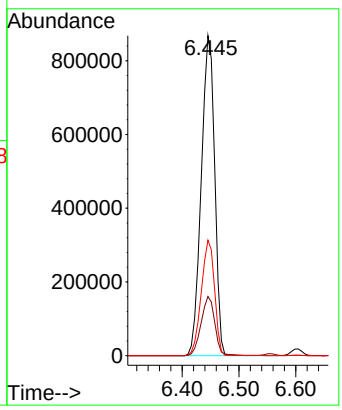


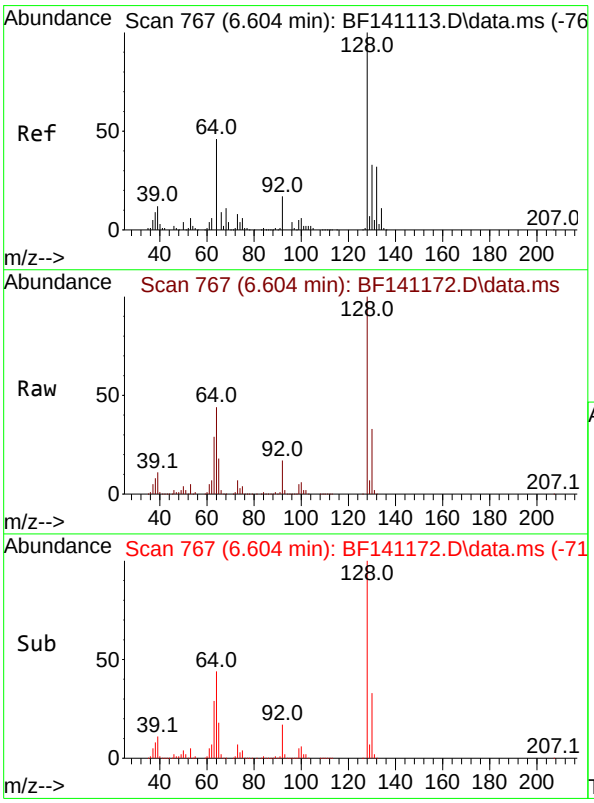
#7
Phenol-d6
Concen: 138.293 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 99 Resp: 1424904

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.0	22.4
71	36.1	27.6	41.4

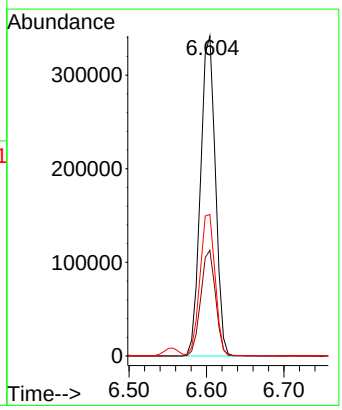


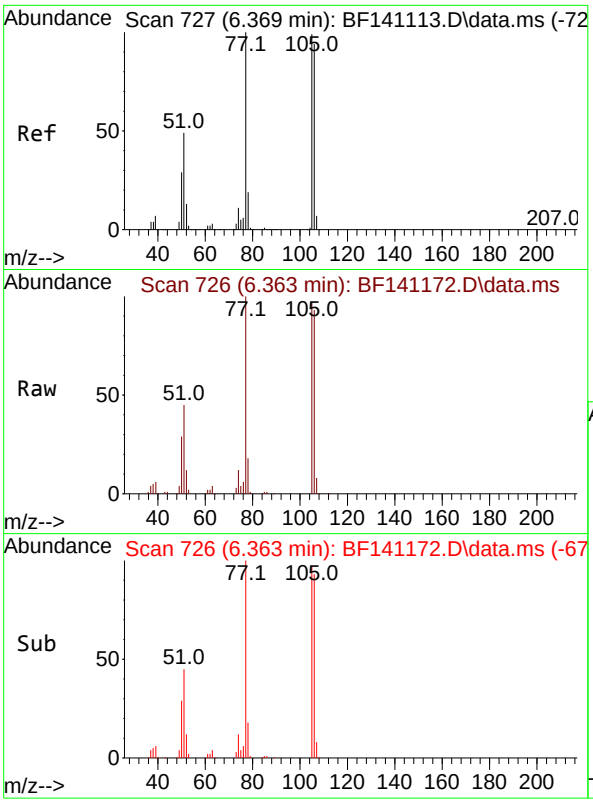


#8
2-Chlorophenol
Concen: 52.403 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:128 Resp: 457309

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.5	52.5
64	44.2	28.3	68.3



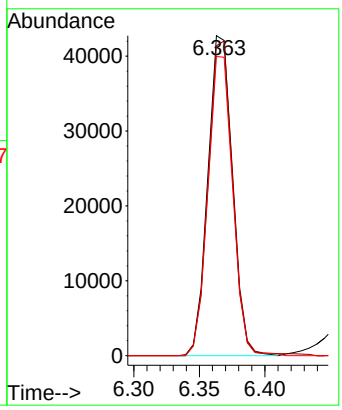


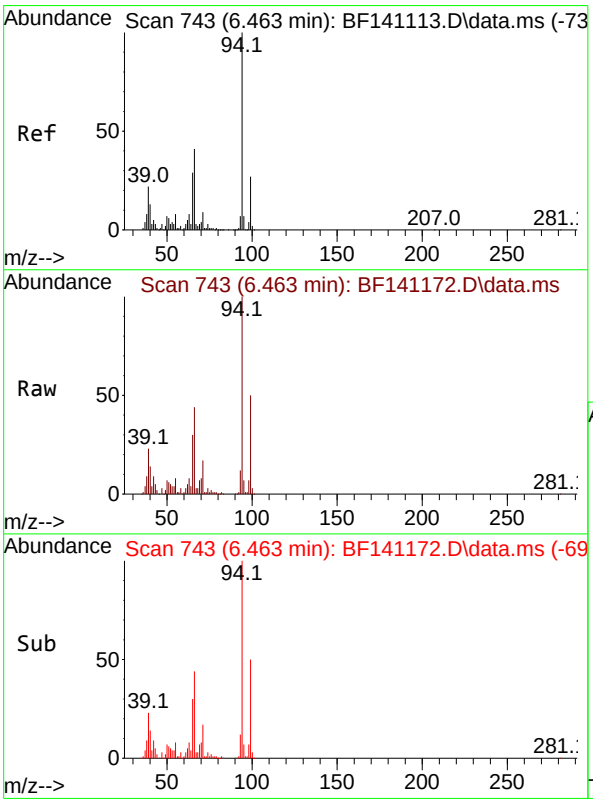
#9
Benzaldehyde
Concen: 9.171 ng
RT: 6.363 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 77 Resp: 55655

Ion	Ratio	Lower	Upper
77	100		
105	96.9	78.9	118.9
106	93.5	73.6	113.6

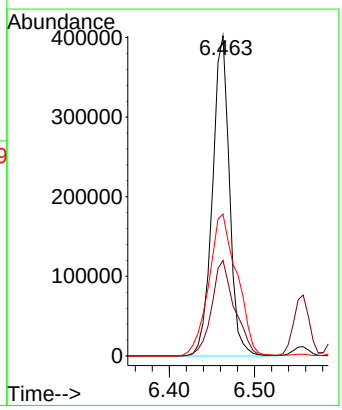


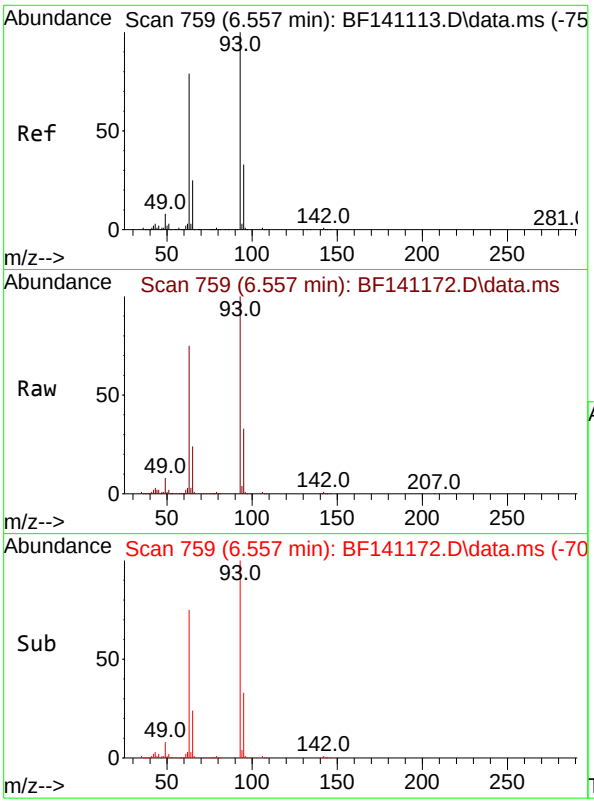


#10
Phenol
Concen: 50.540 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 94 Resp: 557434

Ion	Ratio	Lower	Upper
94	100		
65	29.9	8.9	48.9
66	44.3	21.2	61.2



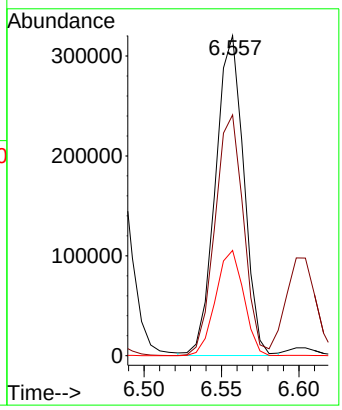


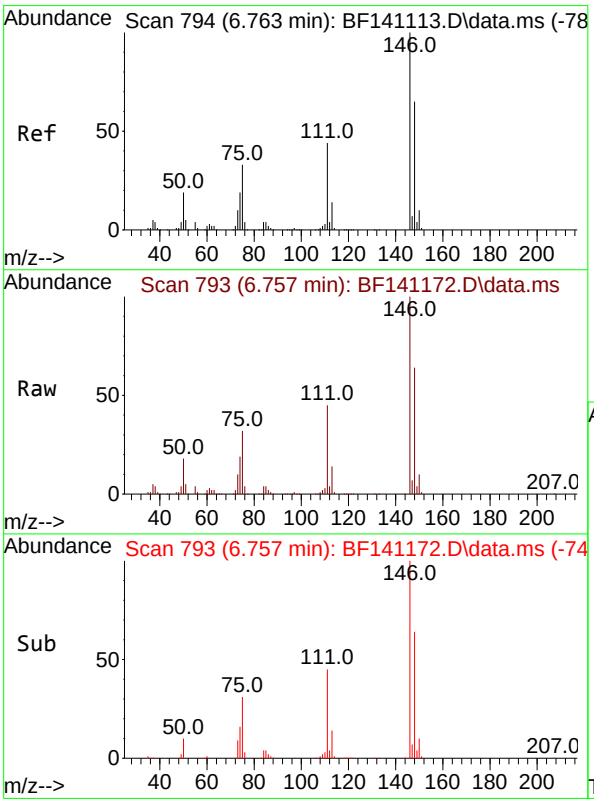
#11
bis(2-Chloroethyl)ether
Concen: 49.507 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 93 Resp: 406930

Ion	Ratio	Lower	Upper
93	100		
63	75.2	58.0	98.0
95	32.9	12.5	52.5

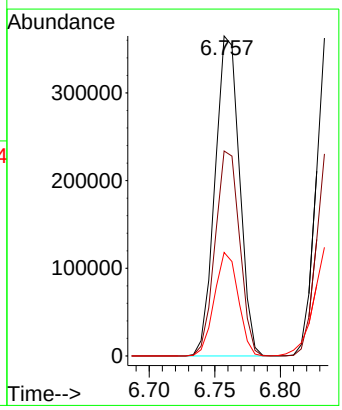


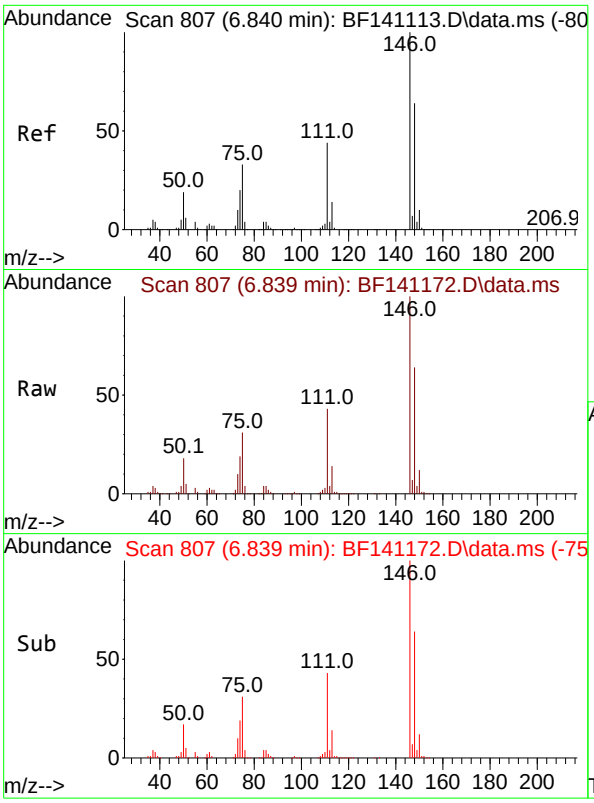


#12
1,3-Dichlorobenzene
Concen: 48.504 ng
RT: 6.757 min Scan# 793
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:146 Resp: 472098

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.6	77.4
75	32.4	26.2	39.2



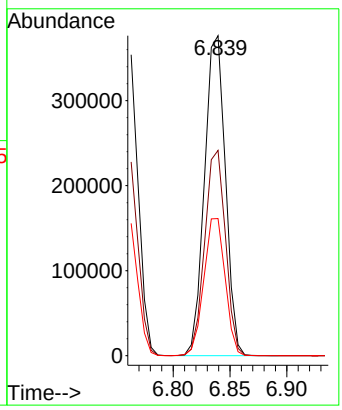


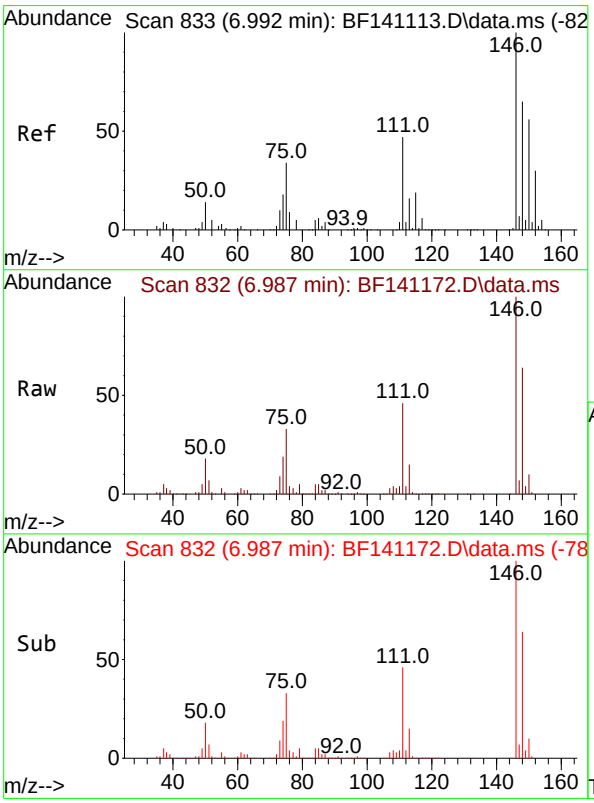
#13
1,4-Dichlorobenzene
Concen: 49.051 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:146 Resp: 481103

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	42.8	34.9	52.3

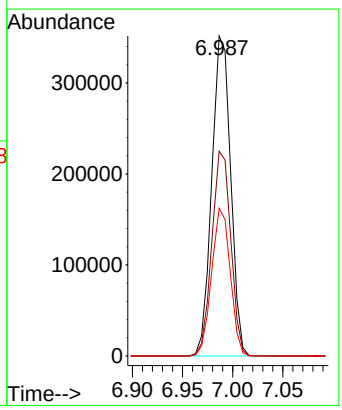


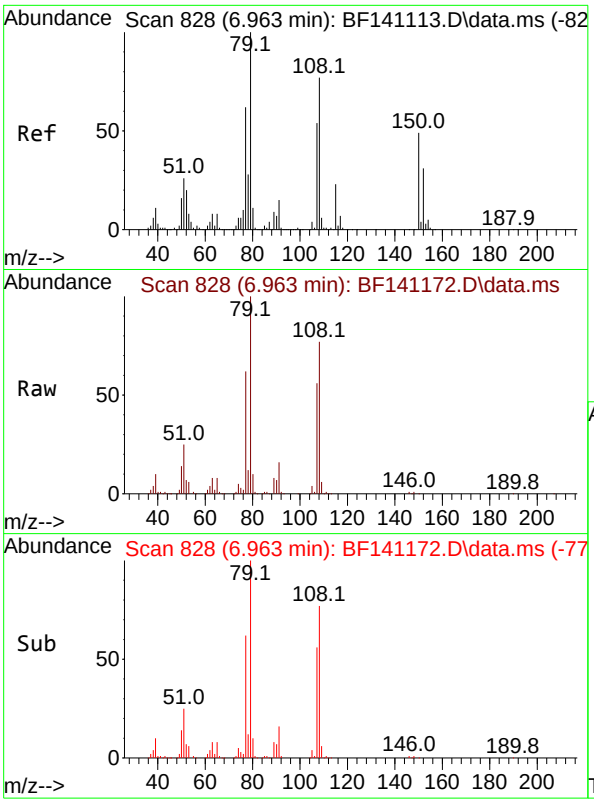


#14
1,2-Dichlorobenzene
Concen: 50.186 ng
RT: 6.987 min Scan# 832
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:146 Resp: 459155

Ion	Ratio	Lower	Upper
146	100		
148	64.0	52.2	78.4
111	46.2	37.5	56.3



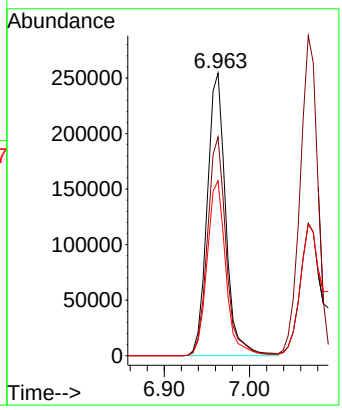


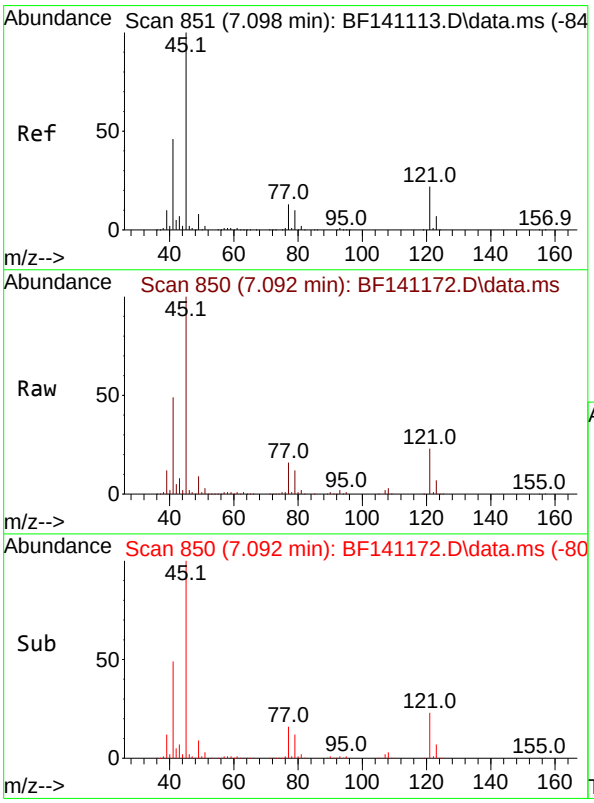
#15
Benzyl Alcohol
Concen: 51.604 ng
RT: 6.963 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 79 Resp: 383977

Ion	Ratio	Lower	Upper
79	100		
108	77.4	61.4	92.0
77	61.9	49.8	74.6

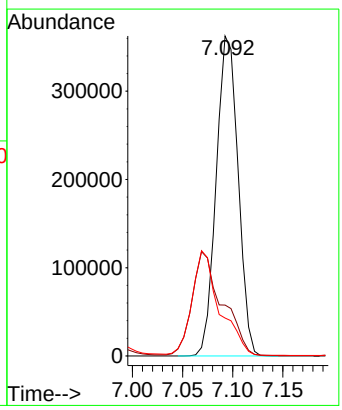


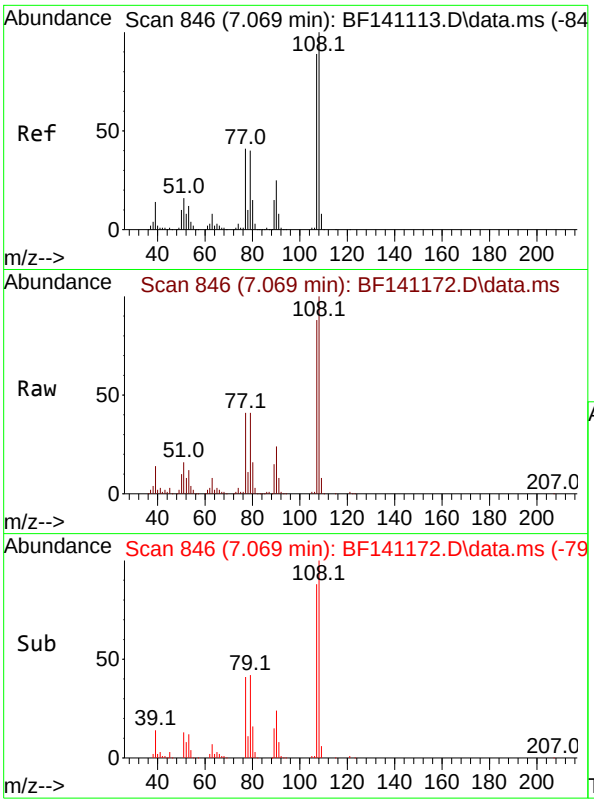


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.963 ng
RT: 7.092 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 45 Resp: 550143

Ion	Ratio	Lower	Upper
45	100		
77	15.9	0.0	34.1
79	11.9	0.0	31.0



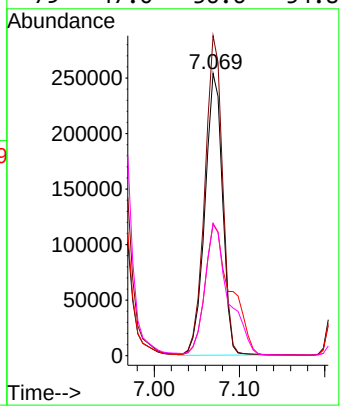


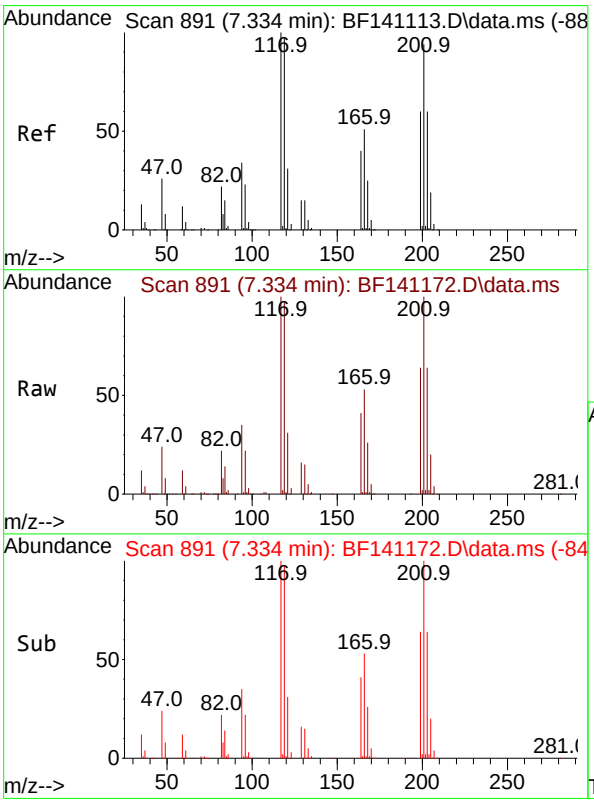
#17
2-Methylphenol
Concen: 51.675 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:107 Resp: 364075

Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.1	135.1
77	46.5	36.6	55.0
79	47.0	36.6	54.8

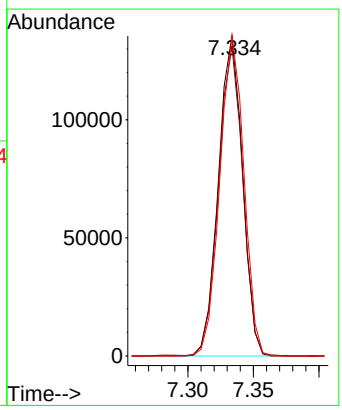


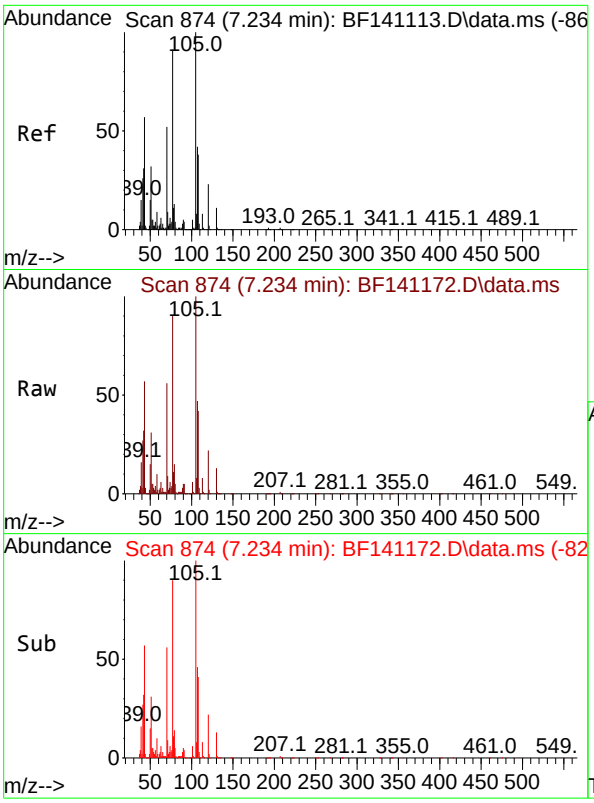


#18
Hexachloroethane
Concen: 48.770 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:117 Resp: 172983

Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.6	116.4
201	100.0	75.1	112.7



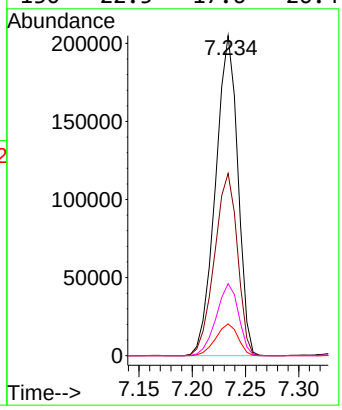


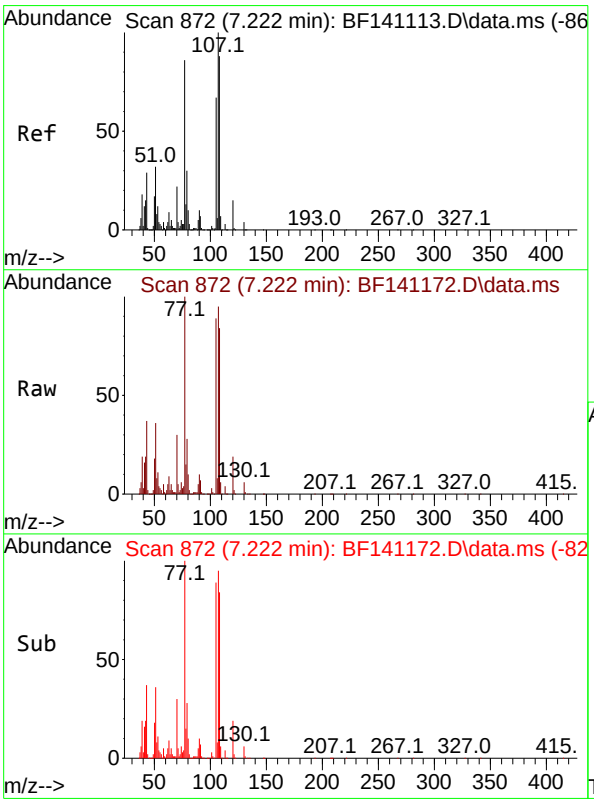
#19
n-Nitroso-di-n-propylamine
Concen: 49.215 ng
RT: 7.234 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 70 Resp: 298704

Ion	Ratio	Lower	Upper
70	100		
42	57.0	47.8	71.6
101	10.0	7.9	11.9
130	22.5	17.6	26.4

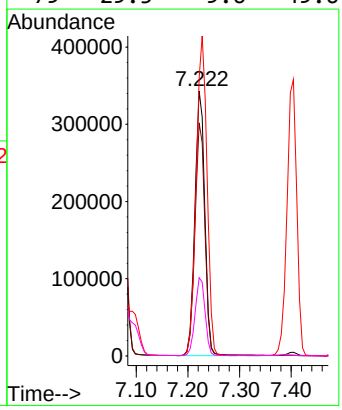


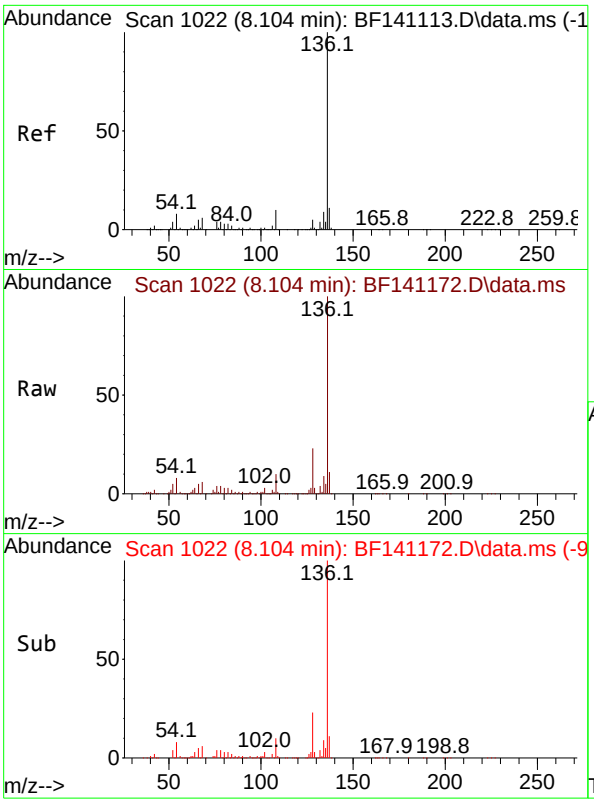


#20
3+4-Methylphenols
Concen: 51.345 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:107 Resp: 456394

Ion	Ratio	Lower	Upper
107	100		
108	88.0	68.3	108.3
77	104.9	66.4	106.4
79	29.5	9.6	49.6



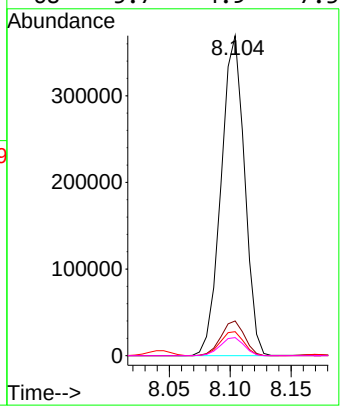


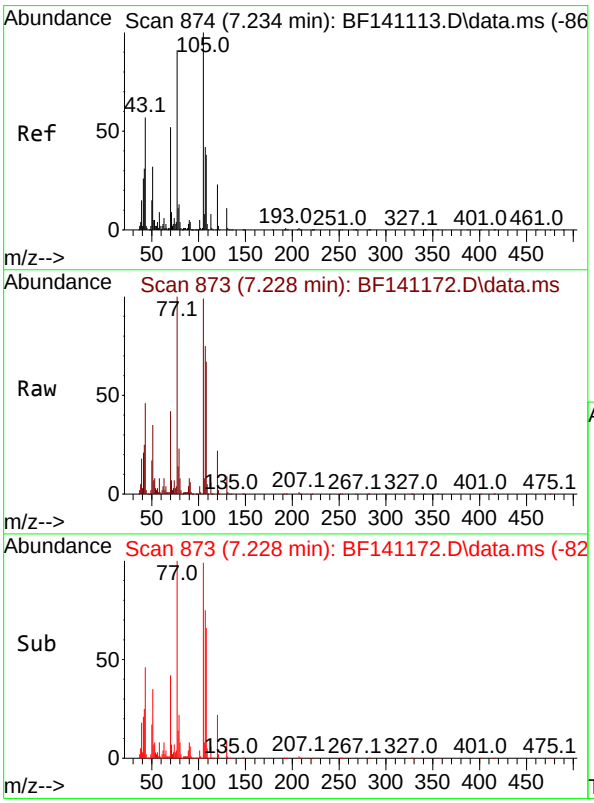
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:136 Resp: 494978

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.5	6.3	9.5
68	5.7	4.9	7.3

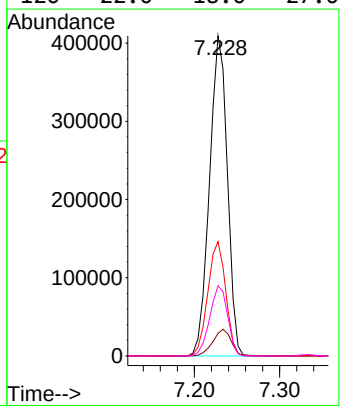


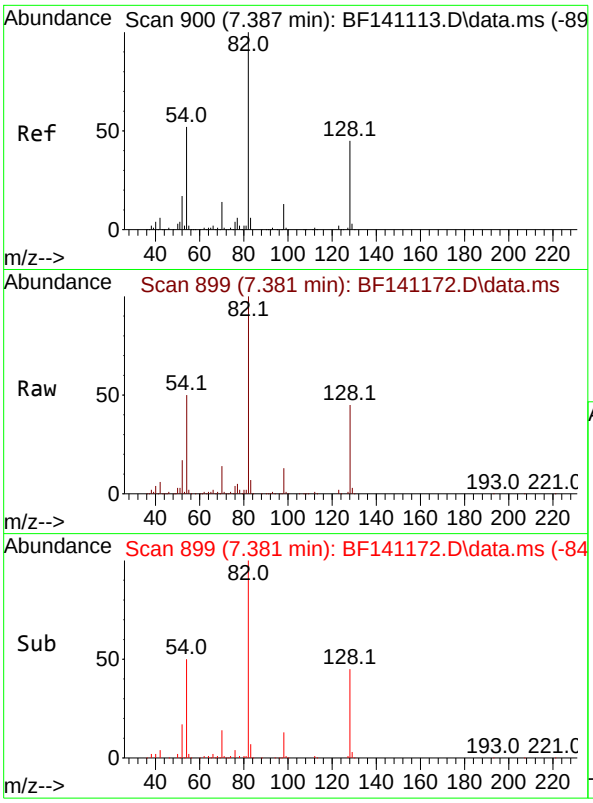


#22
Acetophenone
Concen: 50.545 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:105 Resp: 594750

Ion	Ratio	Lower	Upper
105	100		
71	7.0	7.1	10.7#
51	35.7	25.4	38.2
120	22.0	18.0	27.0



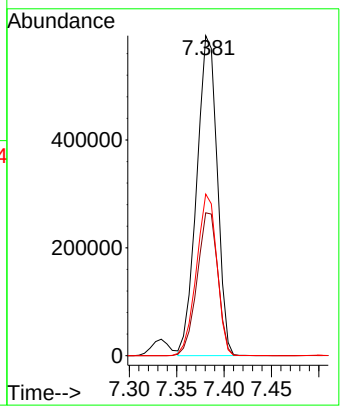


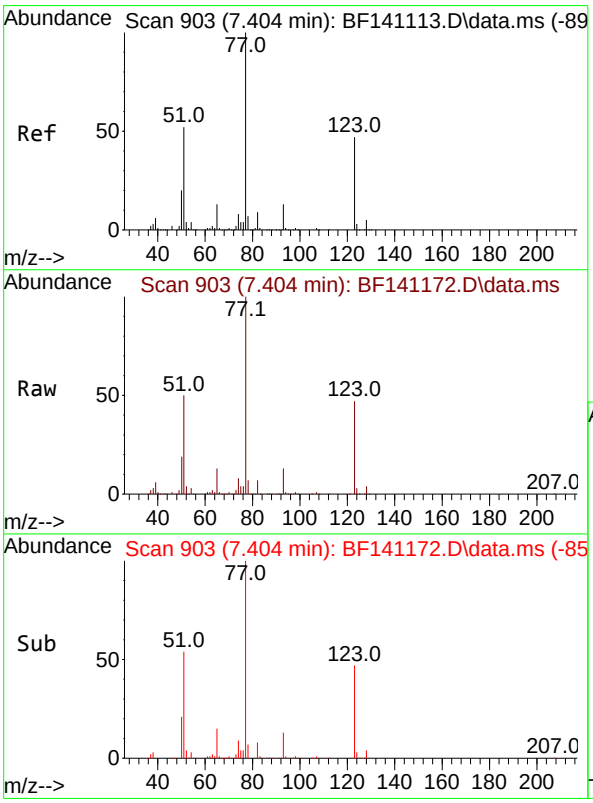
#23
Nitrobenzene-d5
Concen: 95.554 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 82 Resp: 892254

Ion	Ratio	Lower	Upper
82	100		
128	44.7	36.1	54.1
54	50.5	41.0	61.4

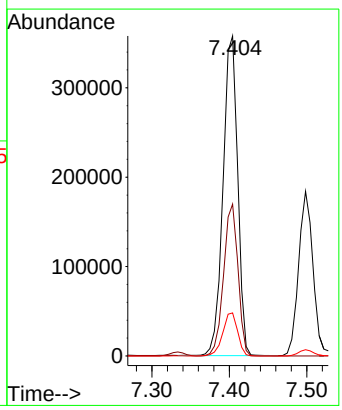


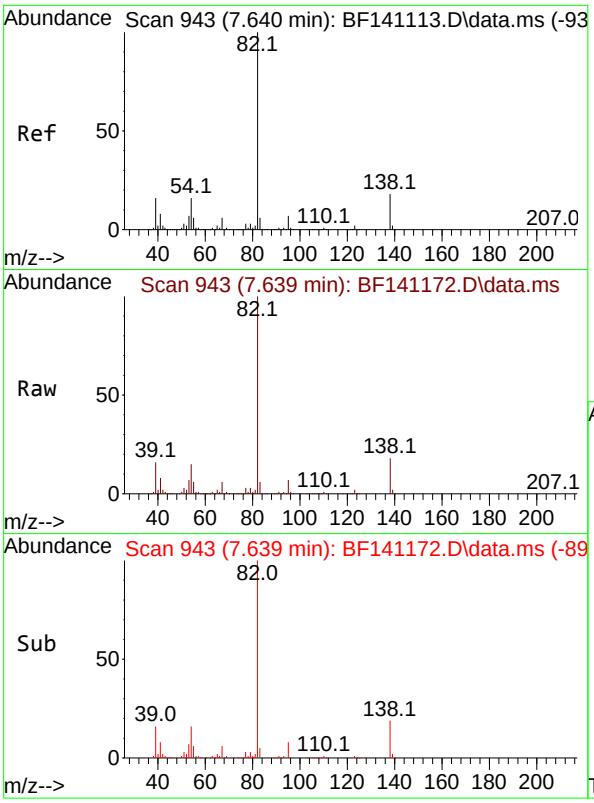


#24
Nitrobenzene
Concen: 48.319 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 77 Resp: 470238

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.7	56.5
65	13.5	10.6	16.0



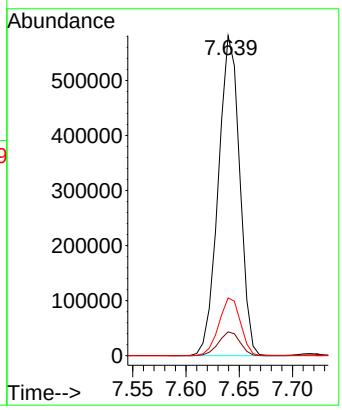


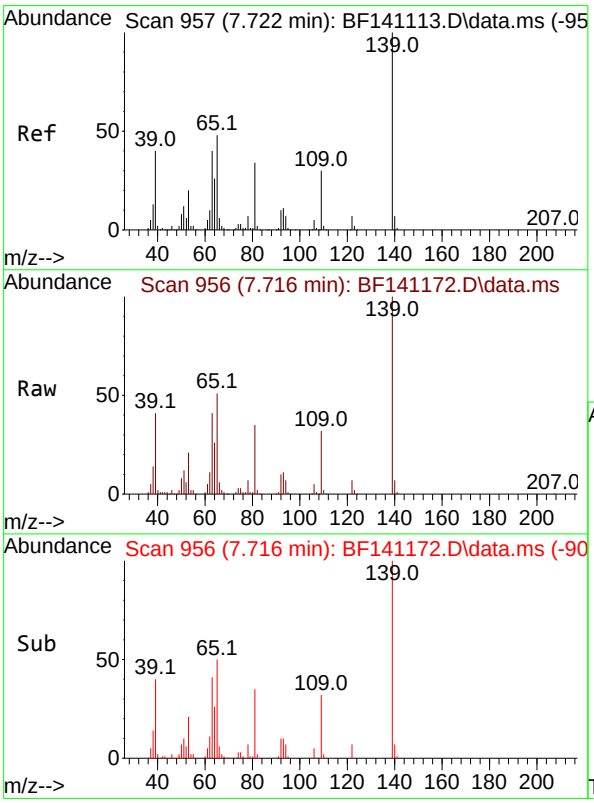
#25
Isophorone
Concen: 50.857 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 82 Resp: 811569

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.9	8.9
138	18.0	14.2	21.2

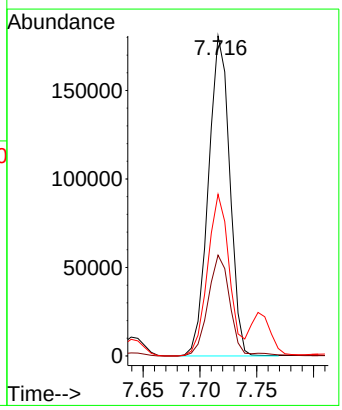


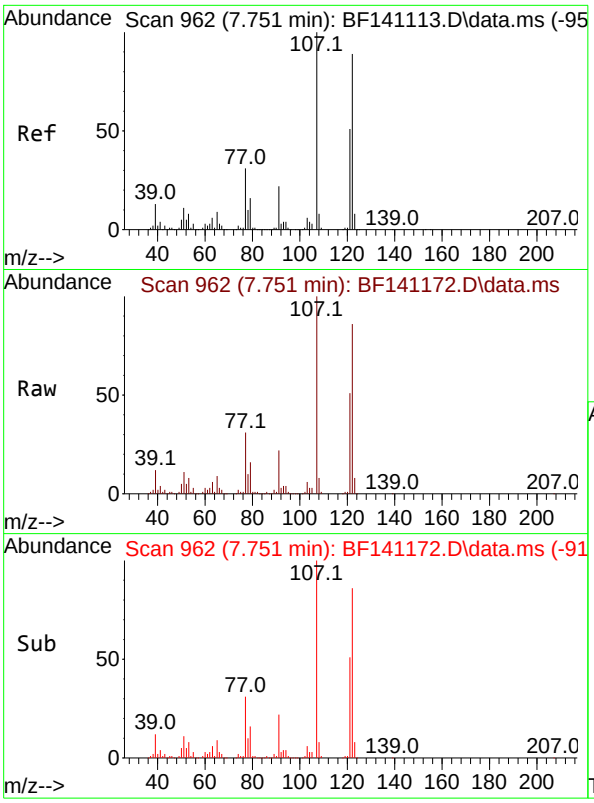


#26
2-Nitrophenol
Concen: 53.479 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:139 Resp: 236745

Ion	Ratio	Lower	Upper
139	100		
109	31.5	23.8	35.6
65	50.5	38.5	57.7



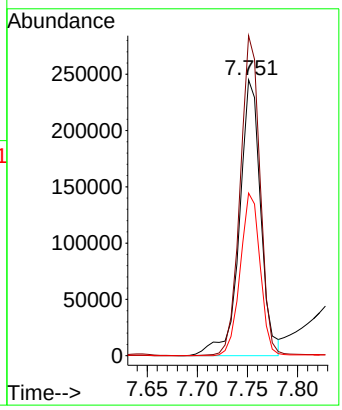


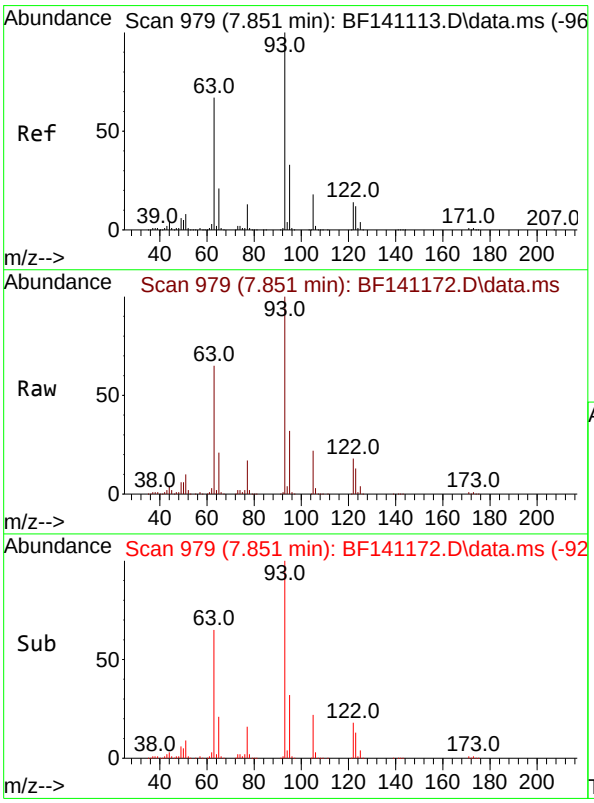
#27
2,4-Dimethylphenol
Concen: 60.469 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:122 Resp: 361074

Ion	Ratio	Lower	Upper
122	100		
107	116.0	90.3	135.5
121	59.0	46.5	69.7

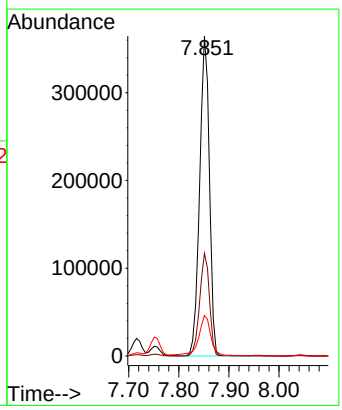


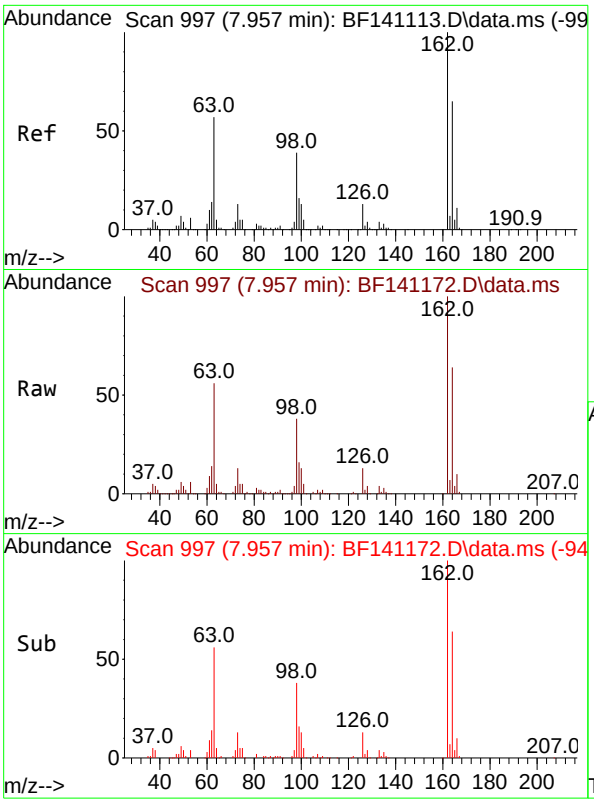


#28
bis(2-Chloroethoxy)methane
Concen: 49.192 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 93 Resp: 492644

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.2	39.4
123	12.7	10.1	15.1



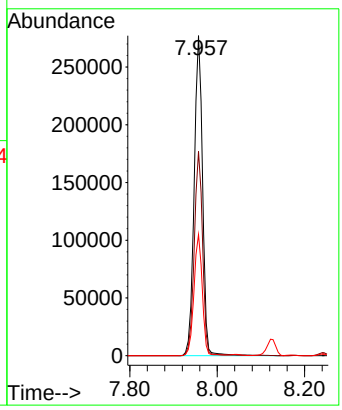


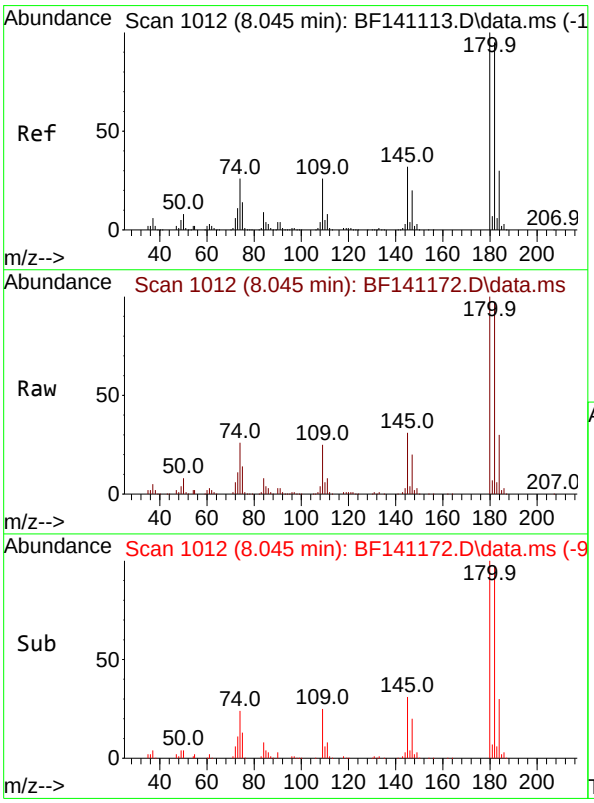
#29
2,4-Dichlorophenol
Concen: 52.334 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:162 Resp: 371144

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.5	84.5
98	37.8	18.5	58.5

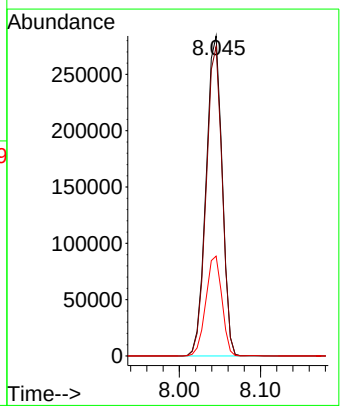


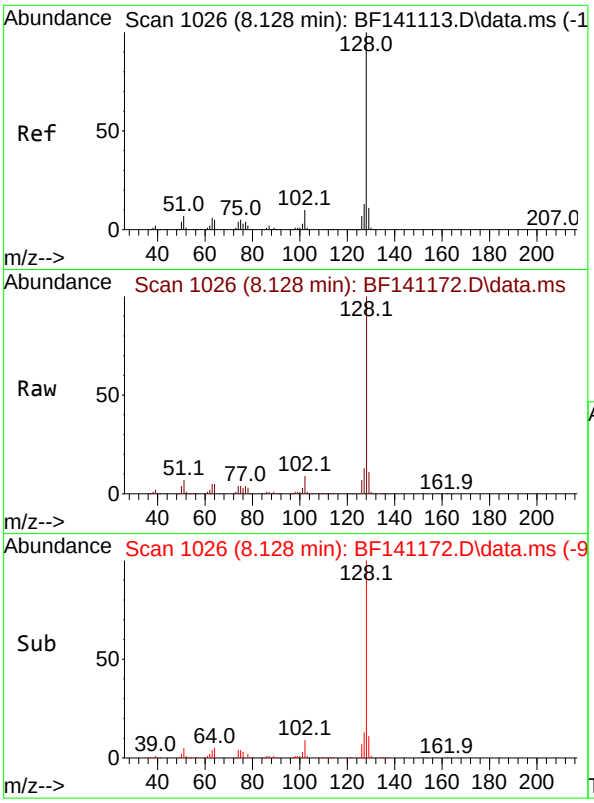


#30
1,2,4-Trichlorobenzene
Concen: 48.047 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:180 Resp: 389479

Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.2	114.2
145	31.2	25.3	37.9



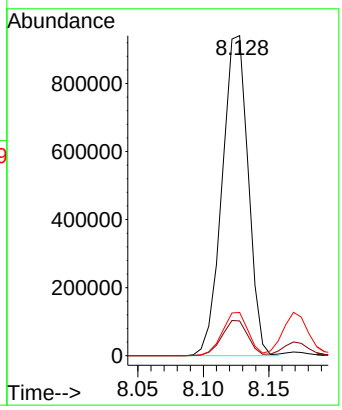


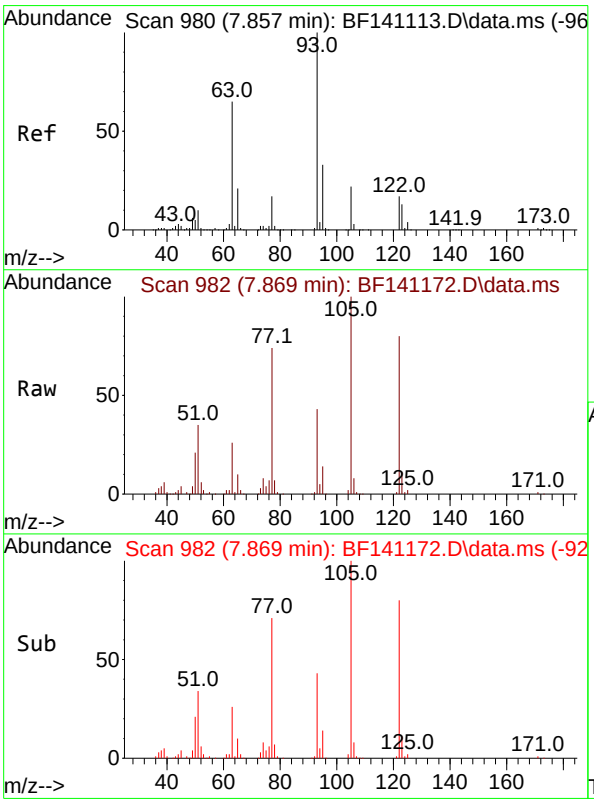
#31
Naphthalene
Concen: 49.832 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:128 Resp: 1300768

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	13.5	10.8	16.2

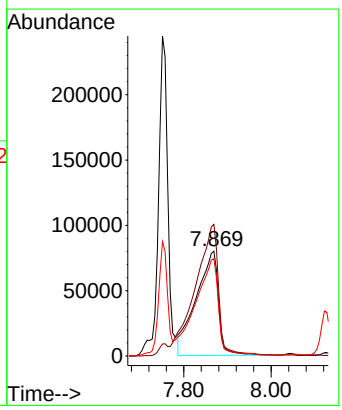


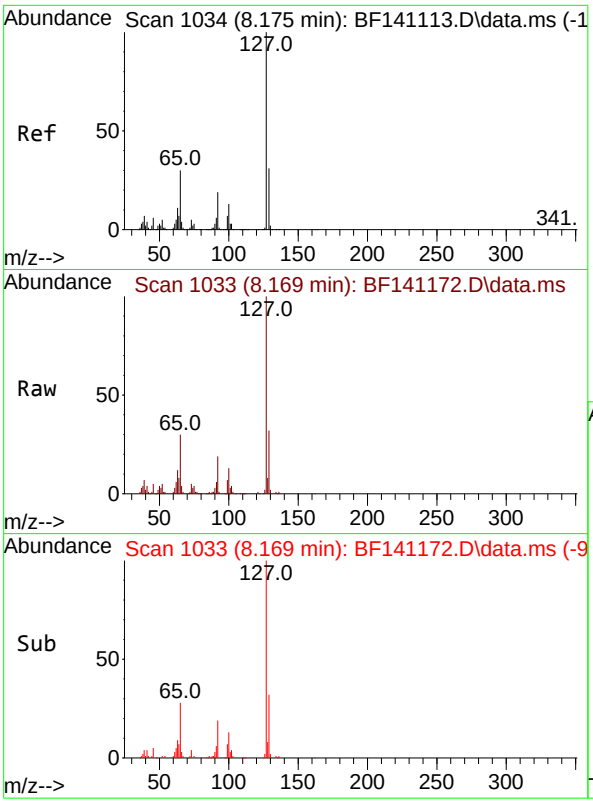


#32
Benzoic acid
Concen: 50.086 ng
RT: 7.869 min Scan# 982
Delta R.T. 0.012 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:122 Resp: 286894

Ion	Ratio	Lower	Upper
122	100		
105	125.6	105.5	145.5
77	92.9	75.1	115.1



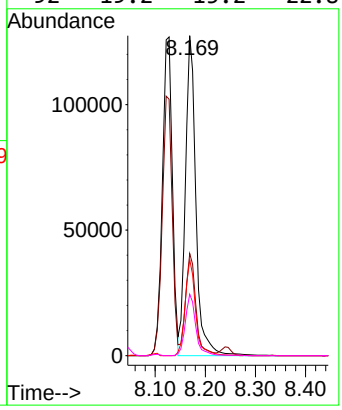


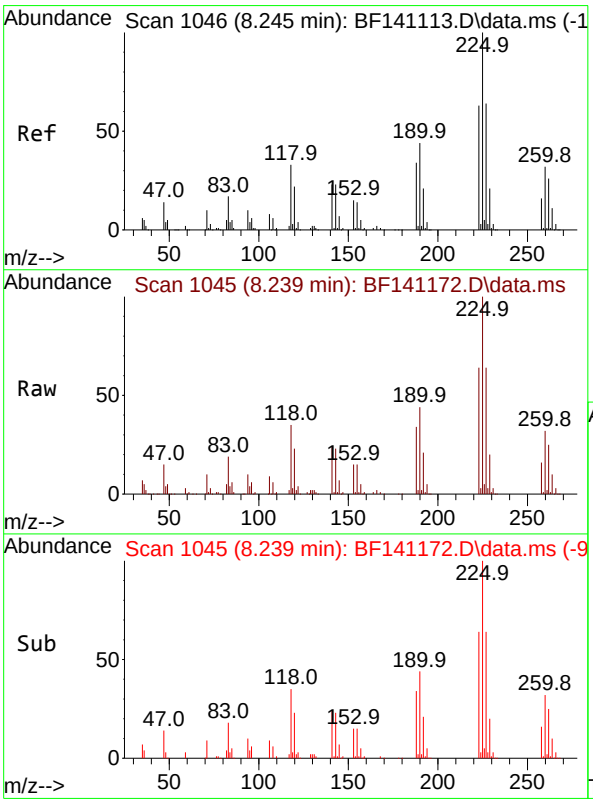
#33
4-Chloroaniline
Concen: 20.652 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:127 Resp: 186433

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	30.0	23.8	35.8
92	19.2	15.2	22.8

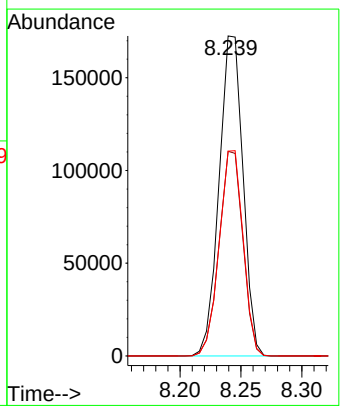


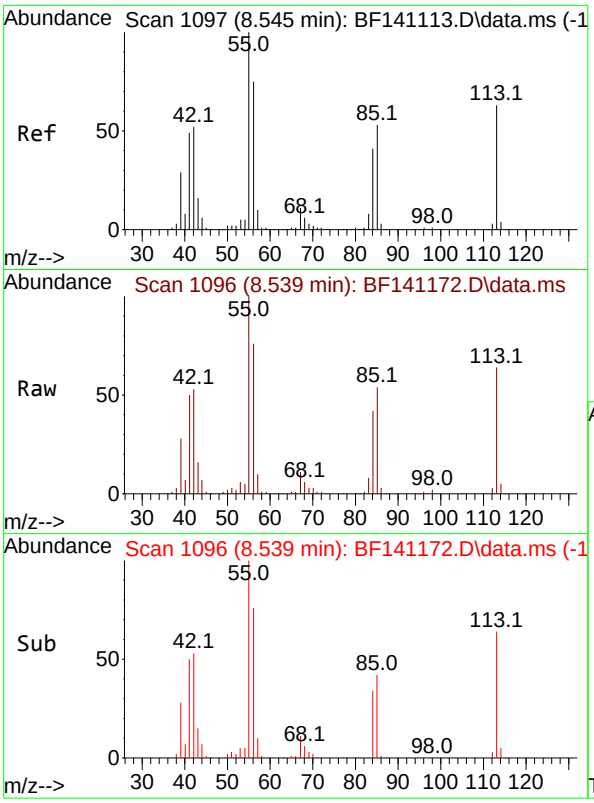


#34
Hexachlorobutadiene
Concen: 48.271 ng
RT: 8.239 min Scan# 1045
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:225 Resp: 235776

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.6	76.0
227	64.0	51.6	77.4



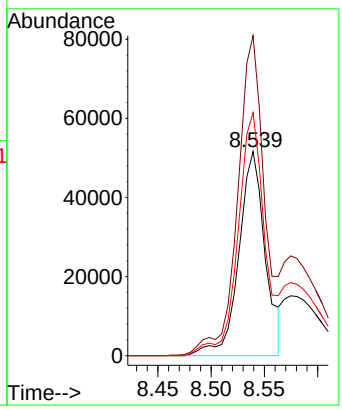


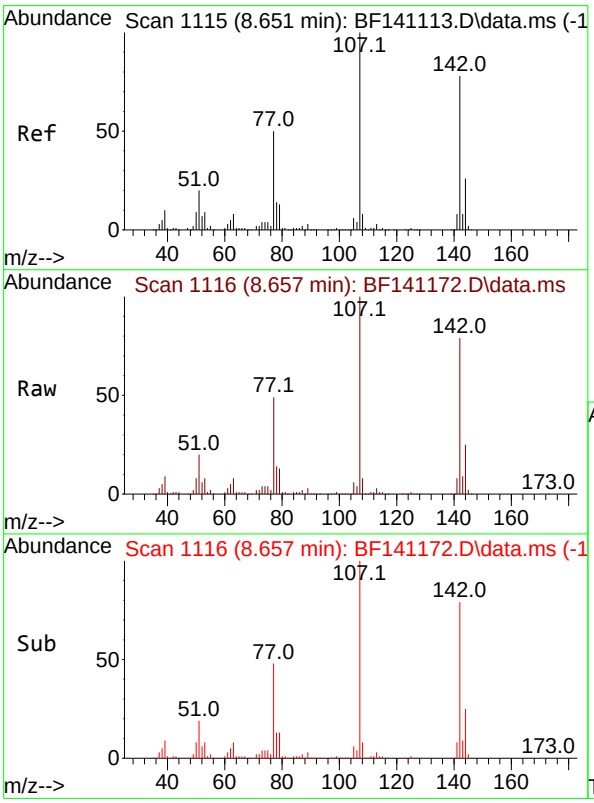
#35
Caprolactam
Concen: 38.202 ng
RT: 8.539 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:113 Resp: 88699

Ion	Ratio	Lower	Upper
113	100		
55	156.8	139.7	179.7
56	119.1	99.4	139.4

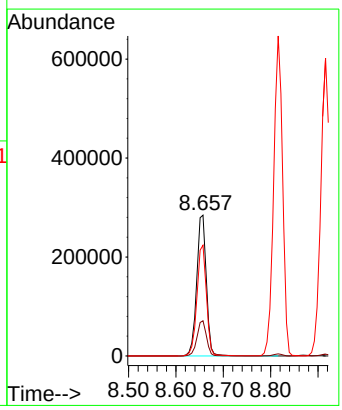


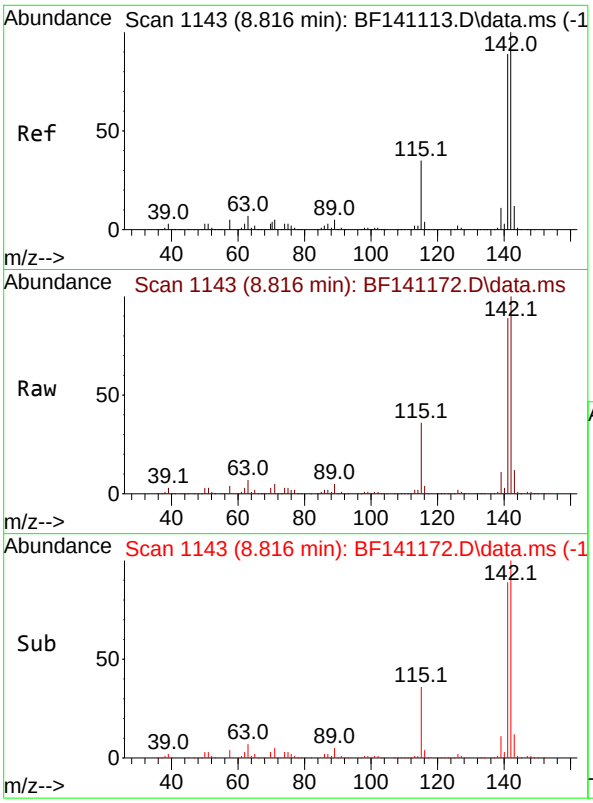


#36
4-Chloro-3-methylphenol
Concen: 51.983 ng
RT: 8.657 min Scan# 1116
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:107 Resp: 403179

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.4	30.6
142	78.7	62.2	93.2



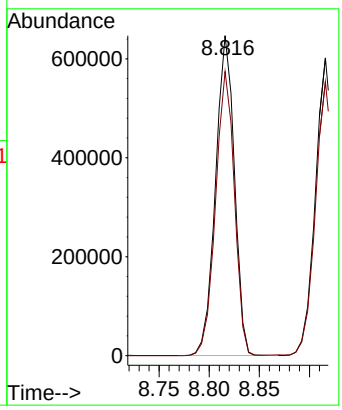


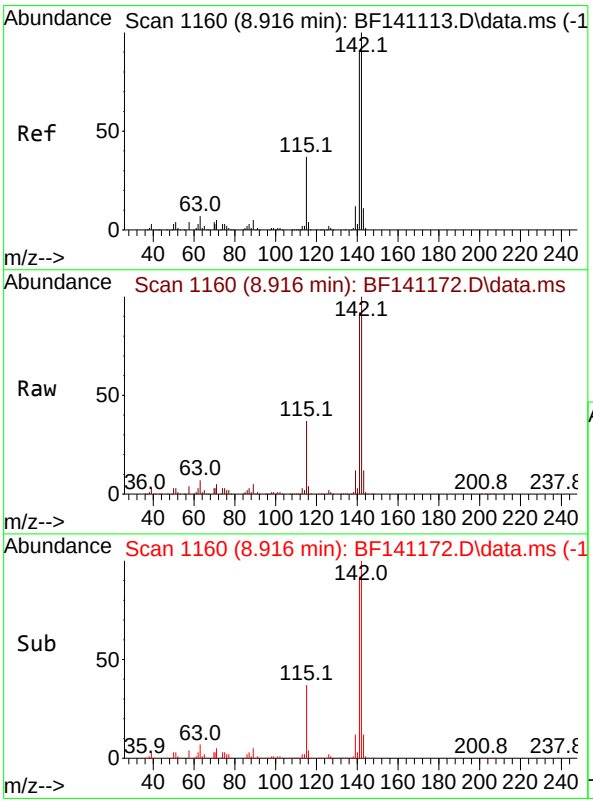
#37
2-Methylnaphthalene
Concen: 50.852 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:142 Resp: 845856

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.3	106.9

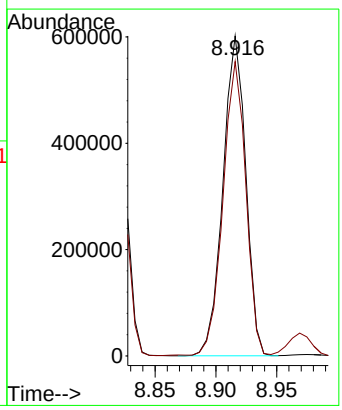


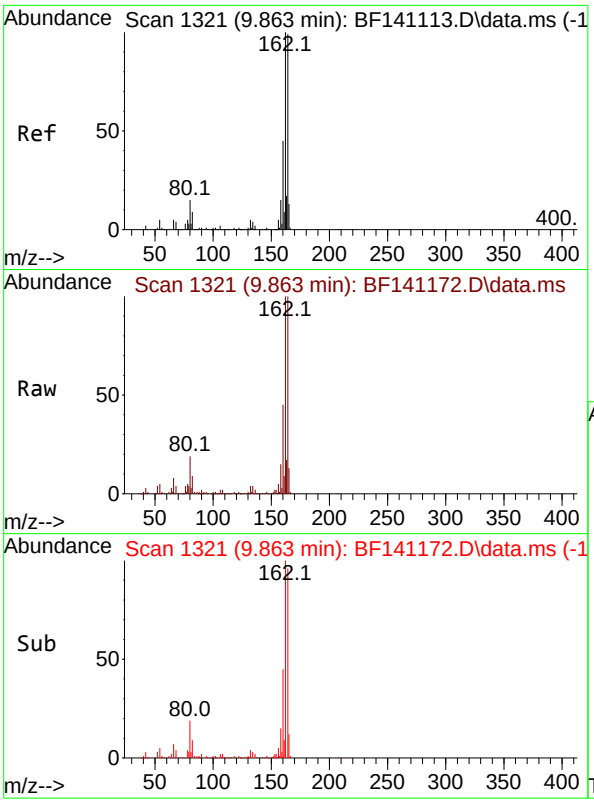


#38
1-Methylnaphthalene
Concen: 47.844 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:142 Resp: 784309

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7



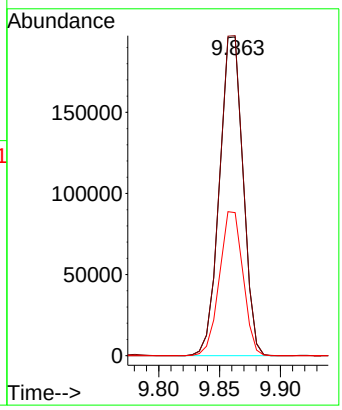


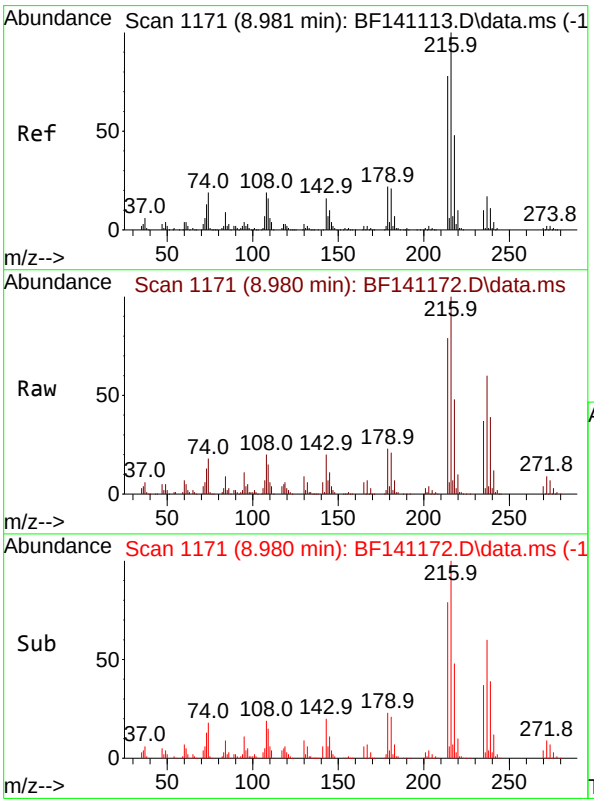
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:164 Resp: 264175

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.4
160	44.9	36.1	54.1

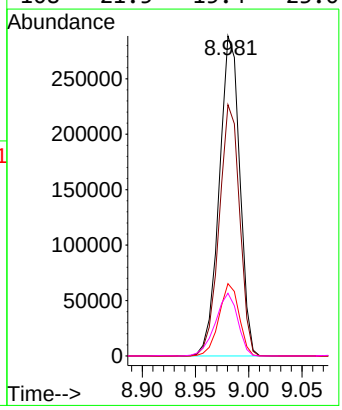


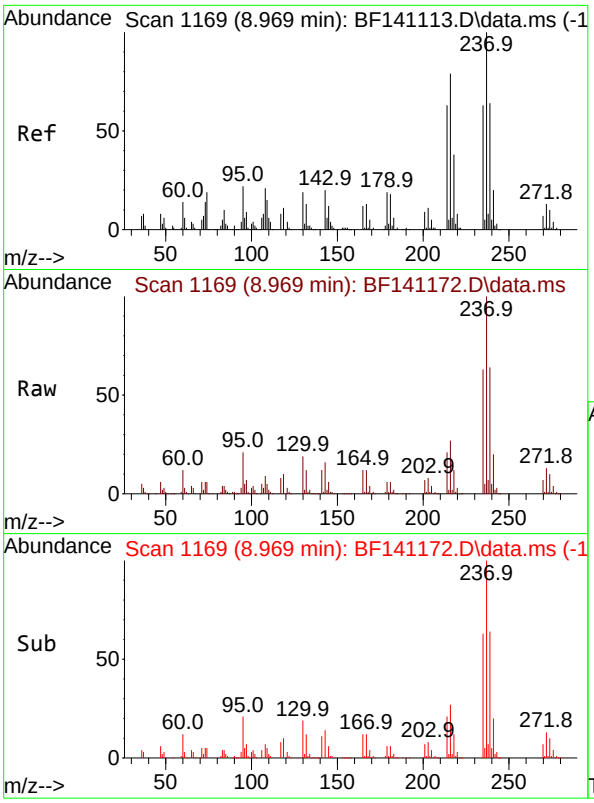


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.905 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:216 Resp: 385980

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.6	94.0
179	22.2	17.7	26.5
108	21.5	15.4	23.0



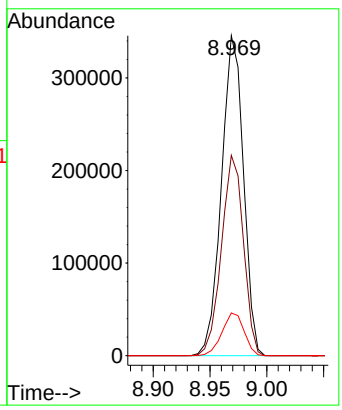


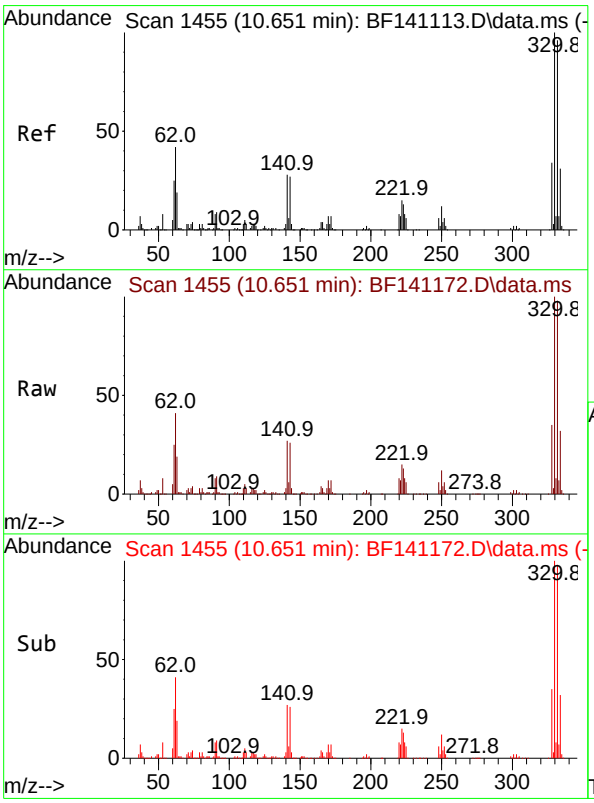
#41
Hexachlorocyclopentadiene
Concen: 187.848 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:237 Resp: 465991

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.0	83.0
272	13.3	0.0	33.0

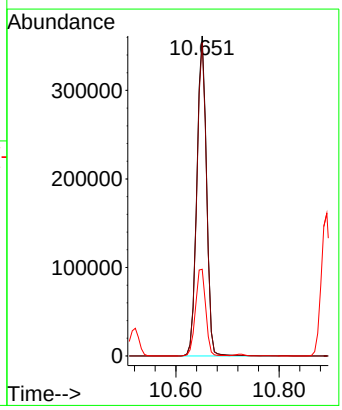


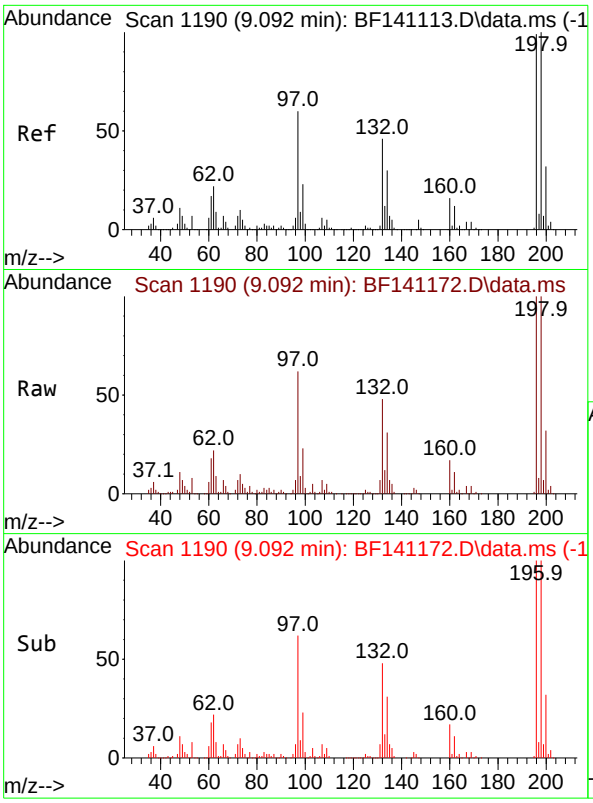


#42
2,4,6-Tribromophenol
Concen: 155.580 ng
RT: 10.651 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:330 Resp: 468311

Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.9	115.3
141	28.8	25.2	37.8



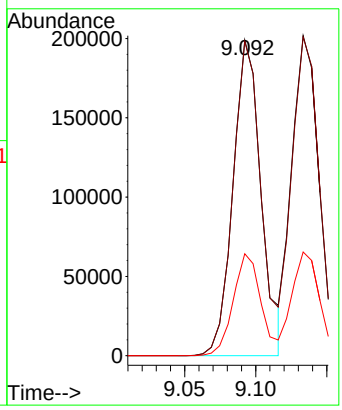


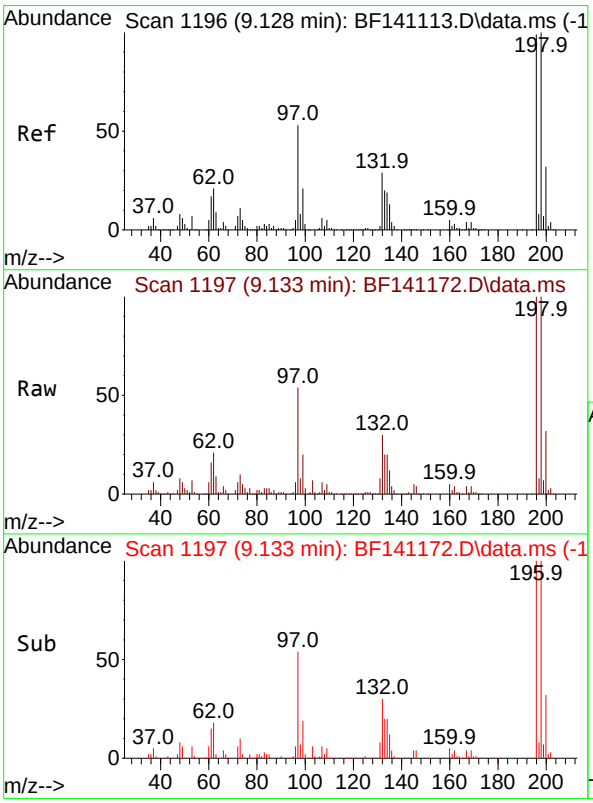
#43
2,4,6-Trichlorophenol
Concen: 53.267 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:196 Resp: 272398

Ion	Ratio	Lower	Upper
196	100		
198	99.5	80.8	121.2
200	32.3	25.7	38.5

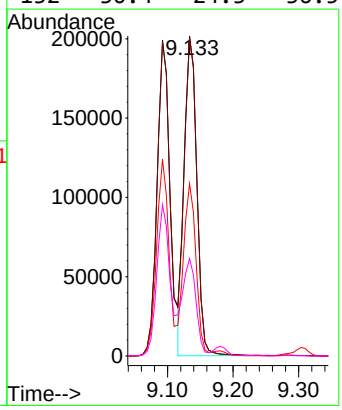


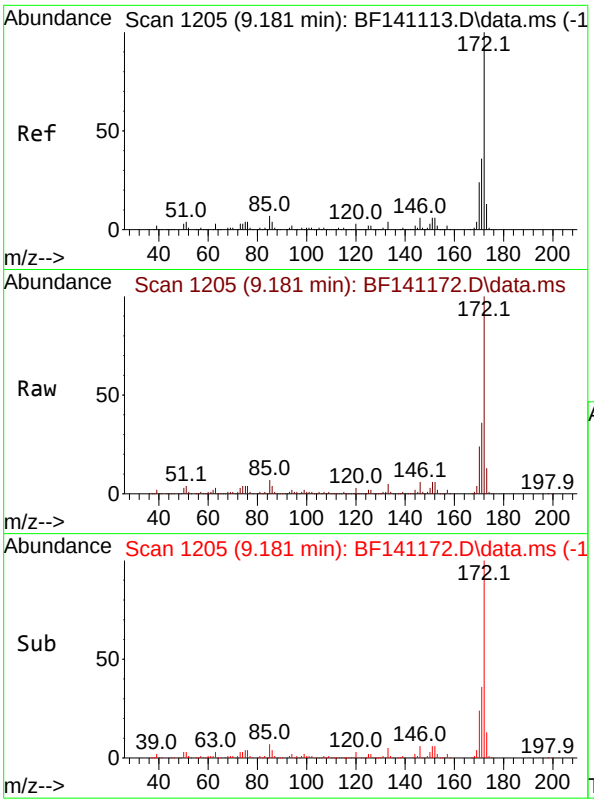


#44
2,4,5-Trichlorophenol
Concen: 50.006 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:196 Resp: 270073

Ion	Ratio	Lower	Upper
196	100		
198	99.6	80.6	120.8
97	53.9	43.1	64.7
132	30.4	24.3	36.5



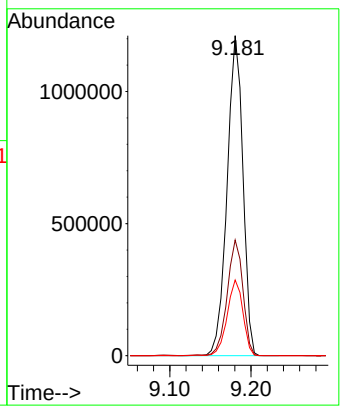


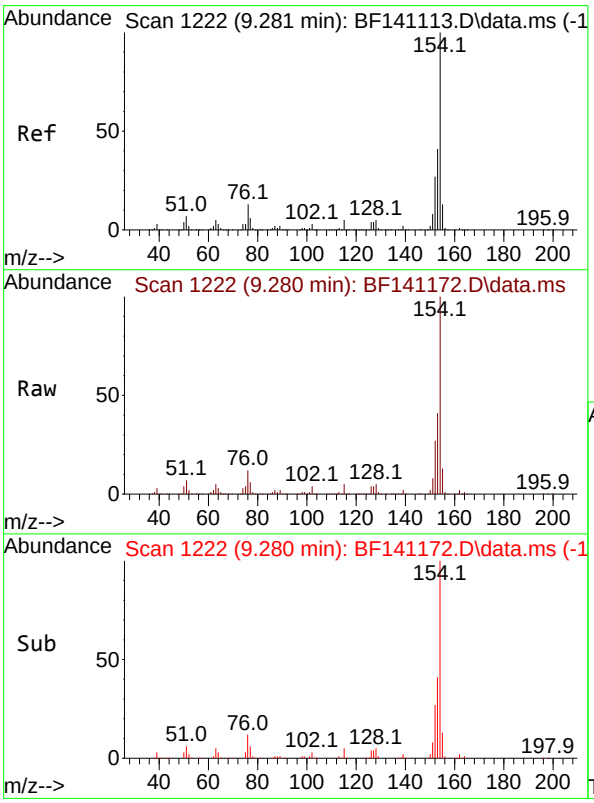
#45
2-Fluorobiphenyl
Concen: 94.797 ng
RT: 9.181 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:172 Resp: 1639957

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.7	43.1
170	23.7	19.0	28.6

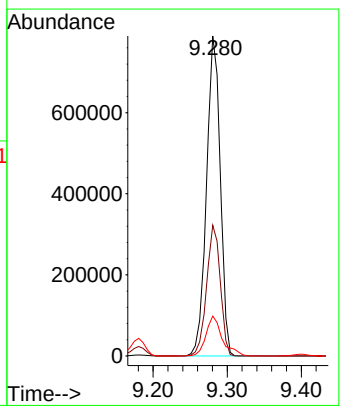


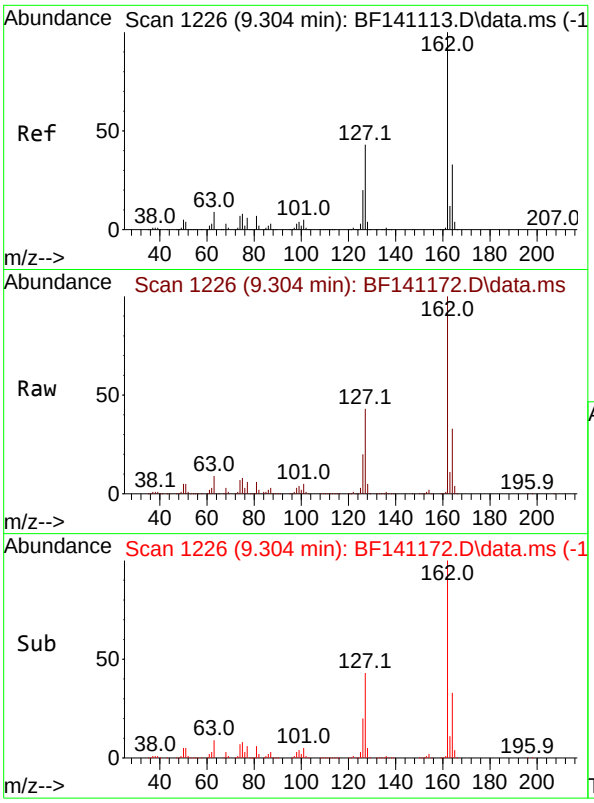


#46
1,1'-Biphenyl
Concen: 49.545 ng
RT: 9.280 min Scan# 1222
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:154 Resp: 1016465

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.7	60.7
76	12.5	0.0	33.1



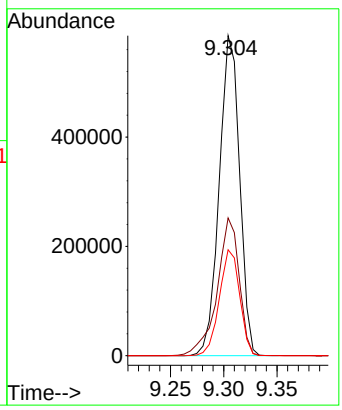


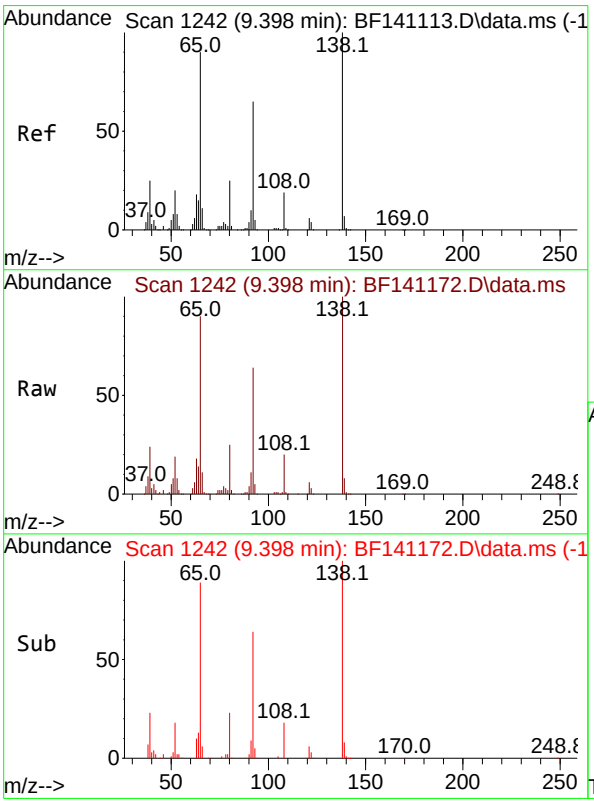
#47
2-Chloronaphthalene
Concen: 48.651 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:162 Resp: 777411

Ion	Ratio	Lower	Upper
162	100		
127	43.1	34.6	51.8
164	33.1	26.5	39.7

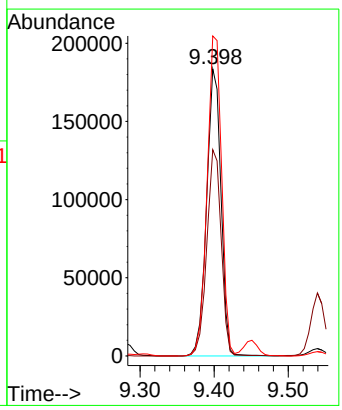


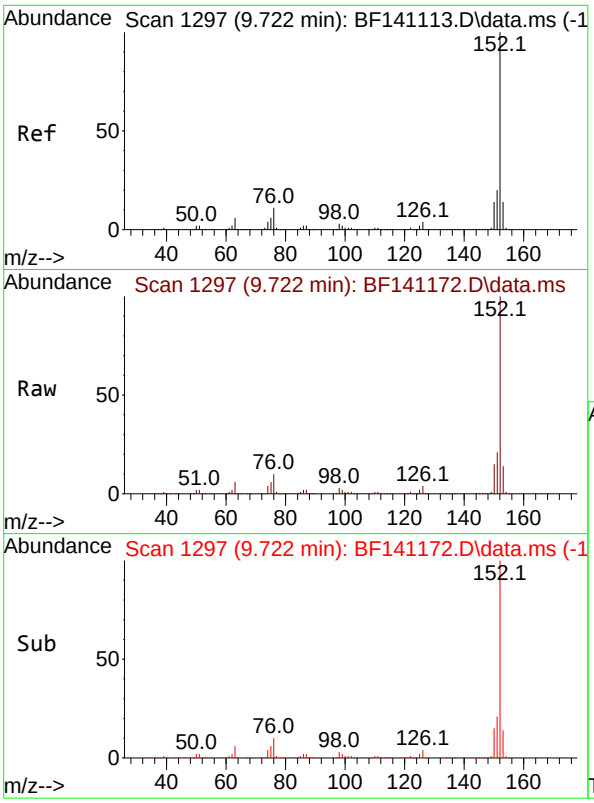


#48
2-Nitroaniline
Concen: 52.239 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion: 65 Resp: 247443

Ion	Ratio	Lower	Upper
65	100		
92	71.9	58.3	87.5
138	111.5	89.1	133.7



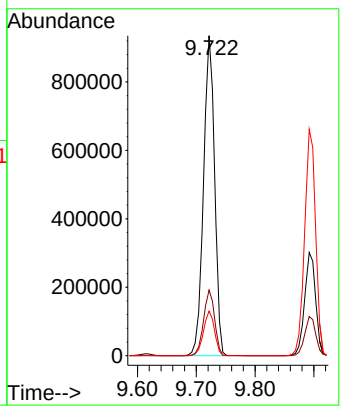


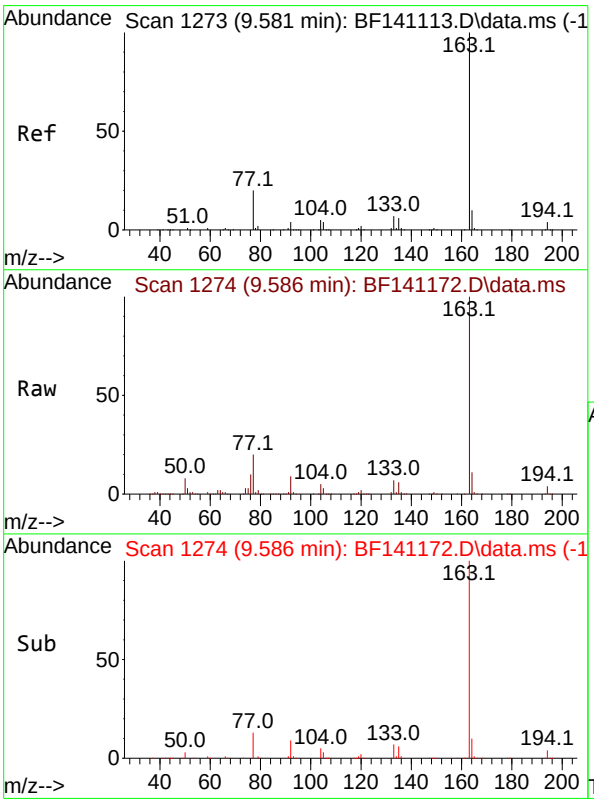
#49
Acenaphthylene
Concen: 53.506 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:152 Resp: 1221518

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	13.9	11.1	16.7

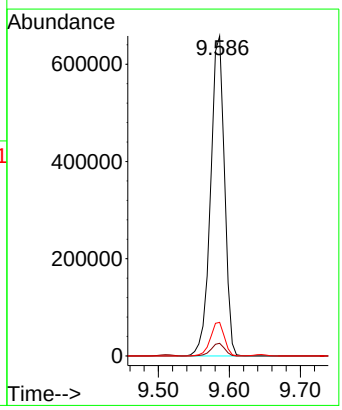


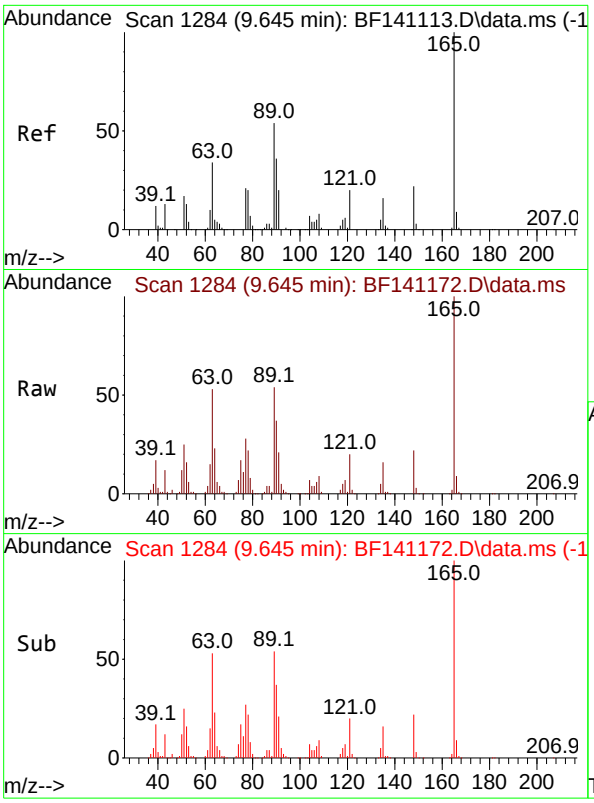


#50
Dimethylphthalate
Concen: 50.400 ng
RT: 9.586 min Scan# 1274
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:163 Resp: 893858

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.5	8.2	12.4



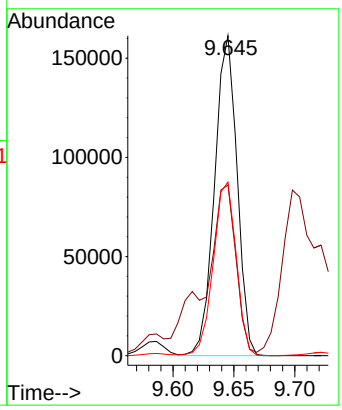


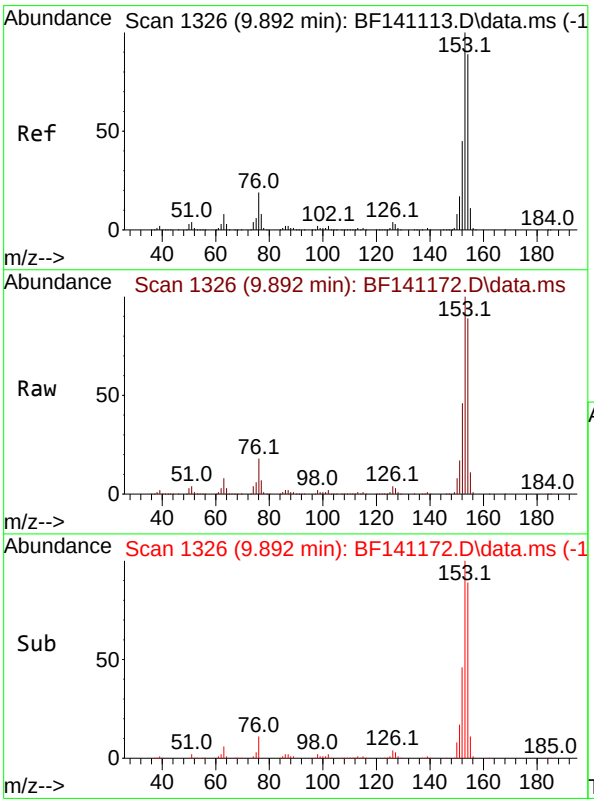
#51
2,6-Dinitrotoluene
Concen: 50.295 ng
RT: 9.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:165 Resp: 207427

Ion	Ratio	Lower	Upper
165	100		
63	53.3	42.3	63.5
89	54.3	43.1	64.7

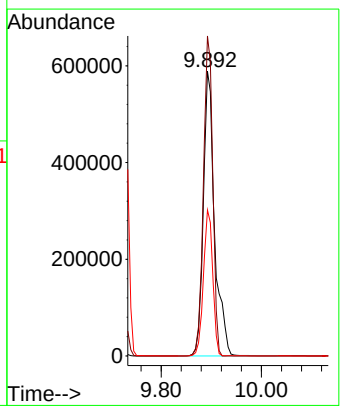


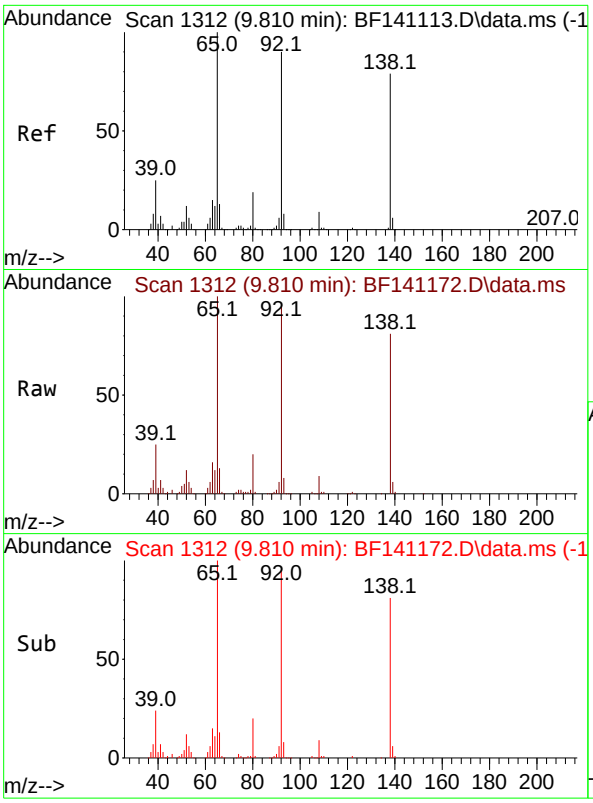


#52
Acenaphthene
Concen: 57.563 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:154 Resp: 918132

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.8	134.6
152	51.3	40.8	61.2



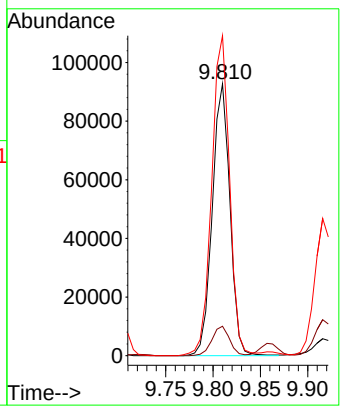


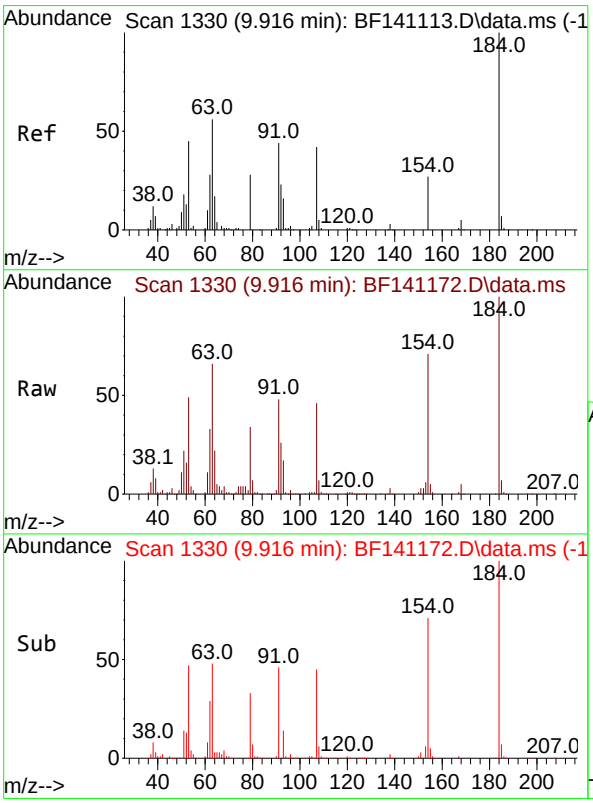
#53
3-Nitroaniline
Concen: 28.662 ng
RT: 9.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:138 Resp: 120126

Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.8	13.2
92	117.7	91.3	136.9

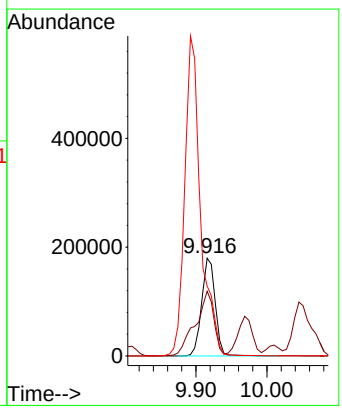


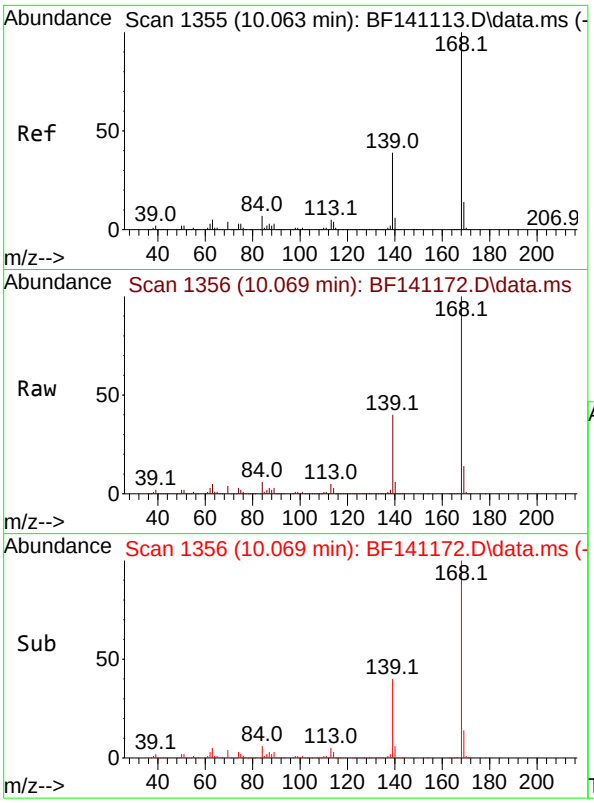


#54
2,4-Dinitrophenol
Concen: 122.030 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:184 Resp: 239218

Ion	Ratio	Lower	Upper
184	100		
63	66.2	48.7	73.1
154	71.5	57.1	85.7



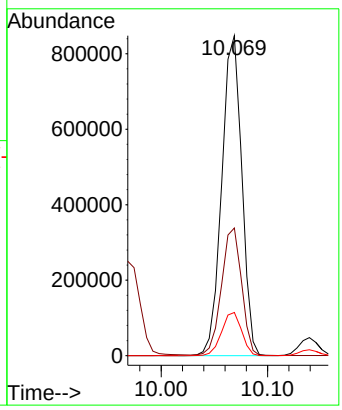


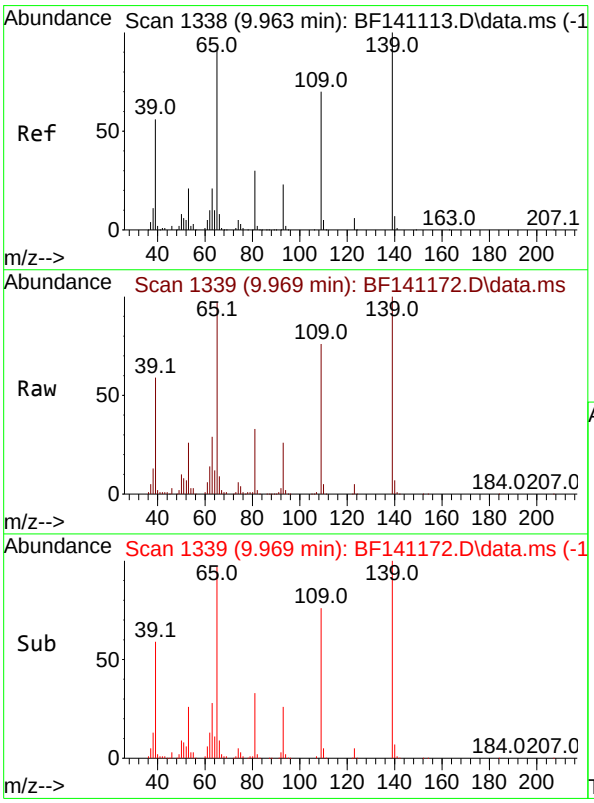
#55
Dibenzofuran
Concen: 51.016 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:168 Resp: 1106789

Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.4	47.0
169	13.5	10.9	16.3

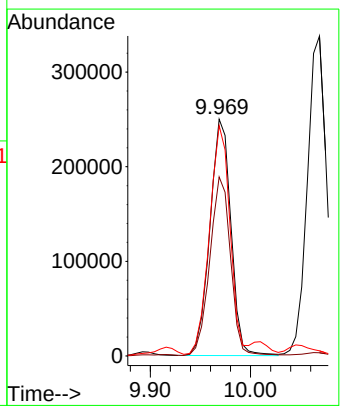


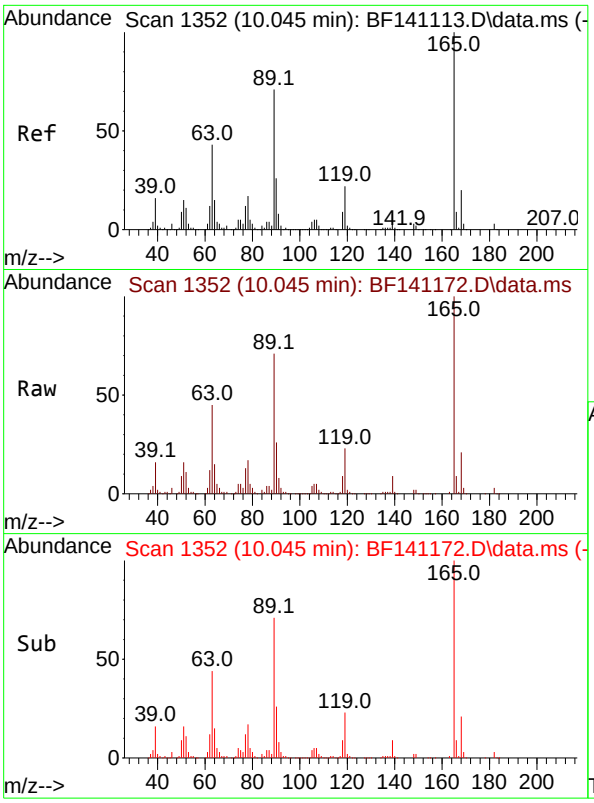


#56
4-Nitrophenol
Concen: 110.972 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:139 Resp: 364246

Ion	Ratio	Lower	Upper
139	100		
109	75.6	50.2	90.2
65	97.2	72.1	112.1



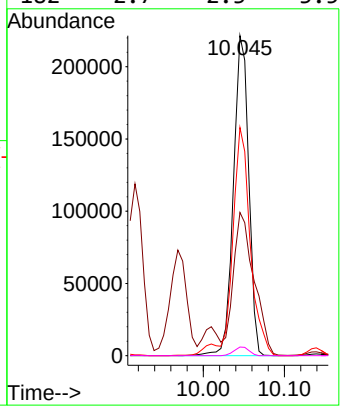


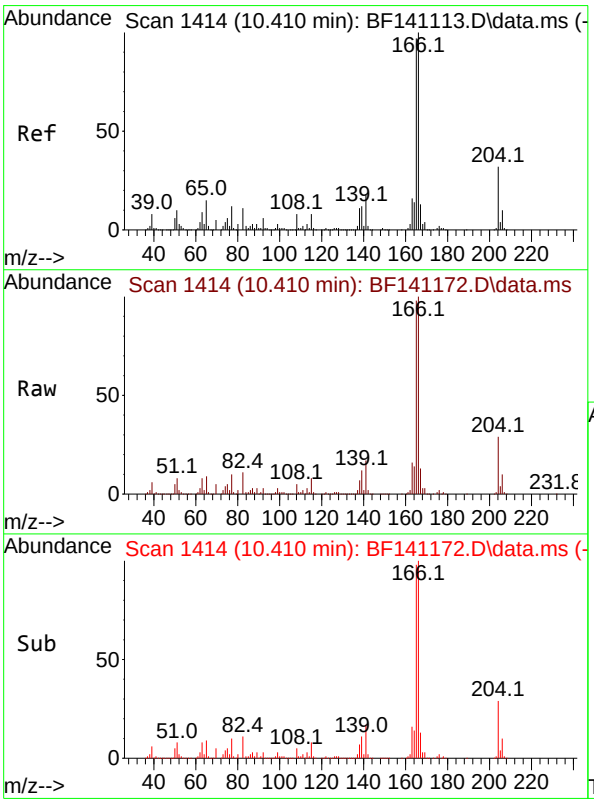
#57
2,4-Dinitrotoluene
Concen: 54.319 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:165 Resp: 288706

Ion	Ratio	Lower	Upper
165	100		
63	44.8	35.0	52.4
89	71.3	56.7	85.1
182	2.7	2.3	3.5

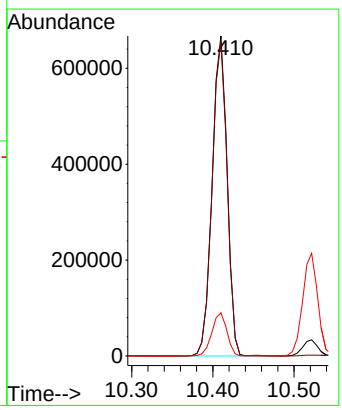


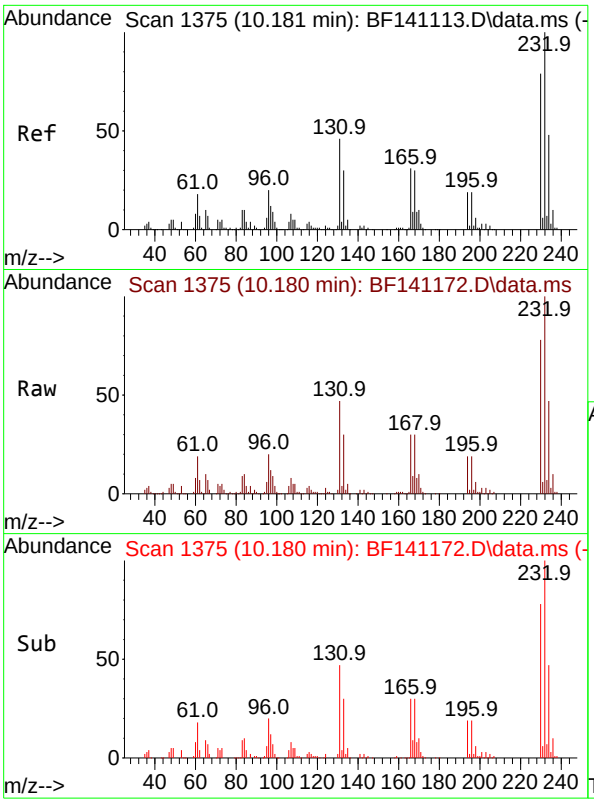


#58
Fluorene
Concen: 50.654 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:166 Resp: 853769

Ion	Ratio	Lower	Upper
166	100		
165	98.2	77.8	116.8
167	13.5	10.8	16.2



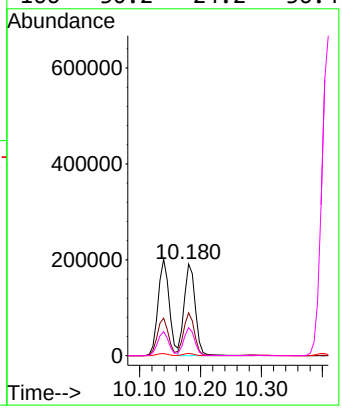


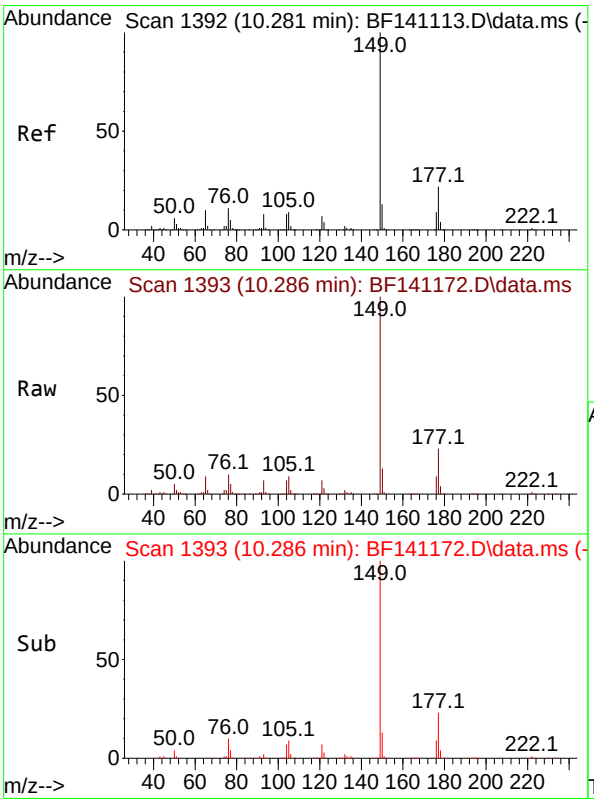
#59
2,3,4,6-Tetrachlorophenol
Concen: 53.911 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:232 Resp: 242021

Ion	Ratio	Lower	Upper
232	100		
131	46.8	36.2	54.4
130	2.5	2.0	3.0
166	30.2	24.2	36.4

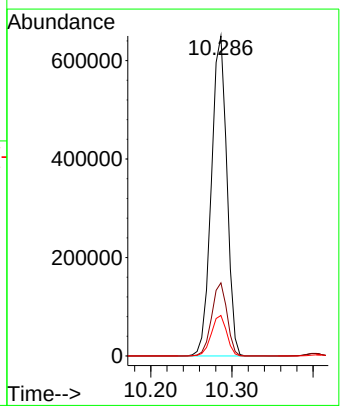


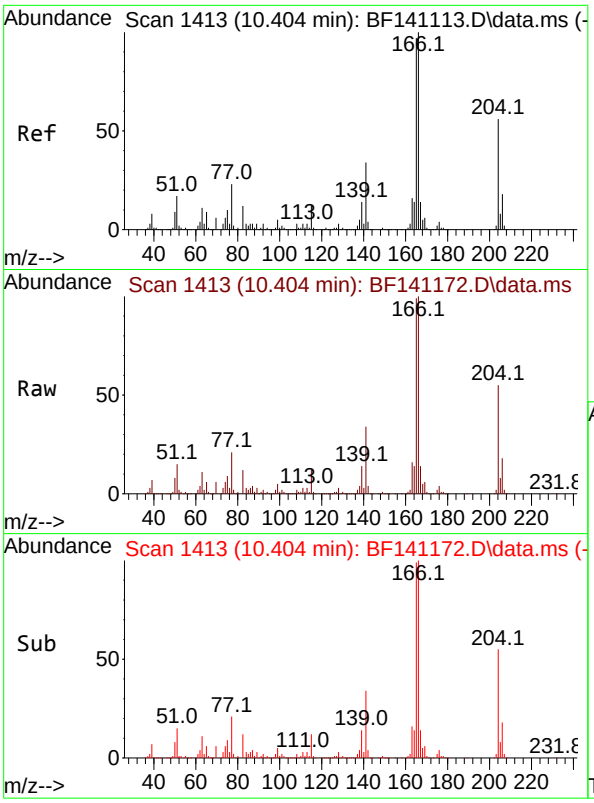


#60
Diethylphthalate
Concen: 49.710 ng
RT: 10.286 min Scan# 1393
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 860679

Ion	Ratio	Lower	Upper
149	100		
177	22.9	17.9	26.9
150	12.6	10.2	15.2



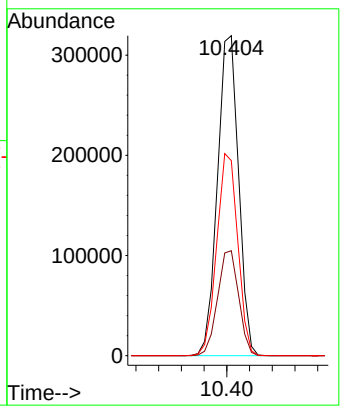


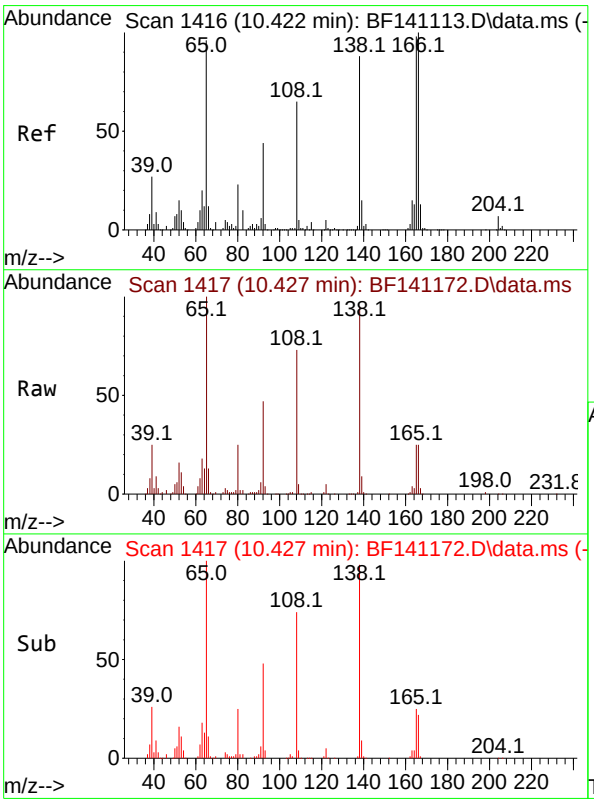
#61
4-Chlorophenyl-phenylether
Concen: 50.262 ng
RT: 10.404 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:204 Resp: 412896

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.9	38.9
141	60.9	49.1	73.7

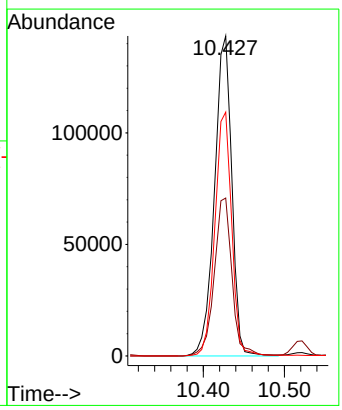


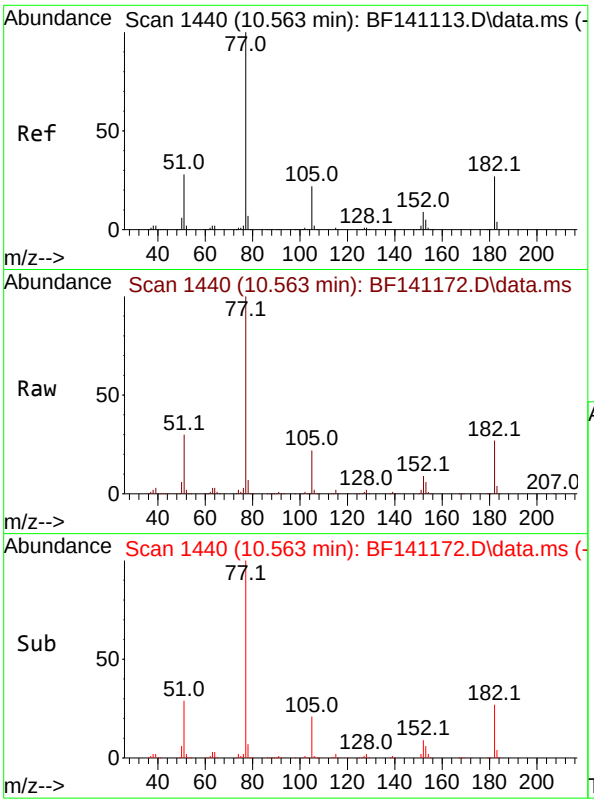


#62
4-Nitroaniline
Concen: 51.787 ng
RT: 10.427 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:138 Resp: 212430

Ion	Ratio	Lower	Upper
138	100		
92	49.4	29.4	69.4
108	76.2	53.7	93.7



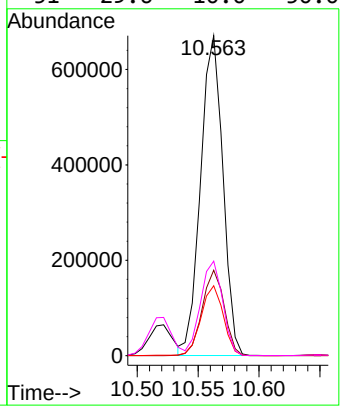


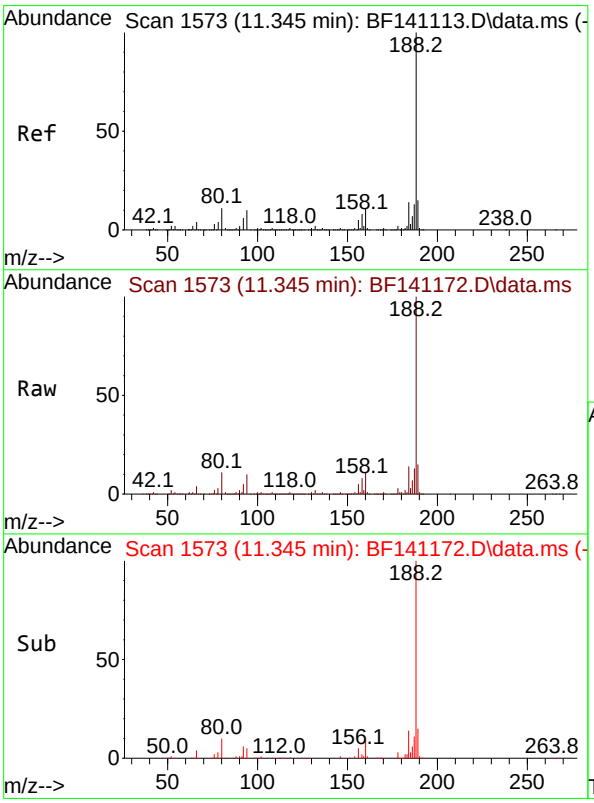
#63
Azobenzene
Concen: 49.994 ng
RT: 10.563 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion: 77 Resp: 854110

Ion	Ratio	Lower	Upper
77	100		
182	26.7	6.1	46.1
105	21.9	2.1	42.1
51	29.6	10.0	50.0

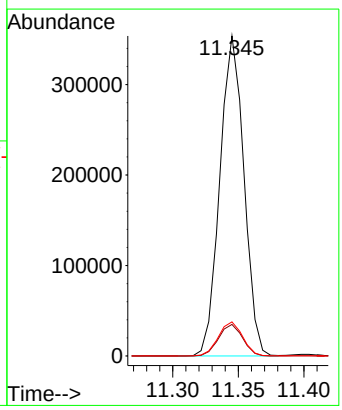


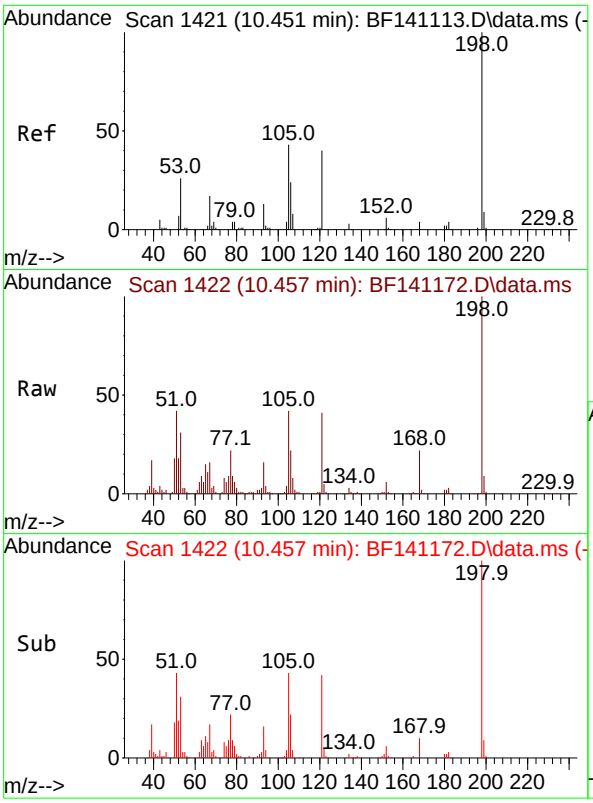


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:188 Resp: 452645

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.3	12.5
80	10.7	9.0	13.4



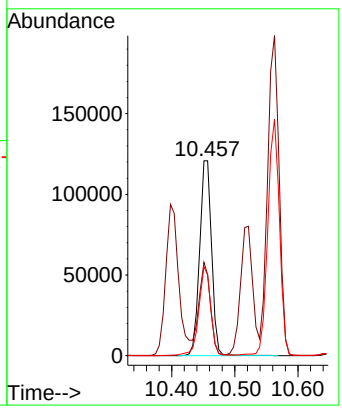


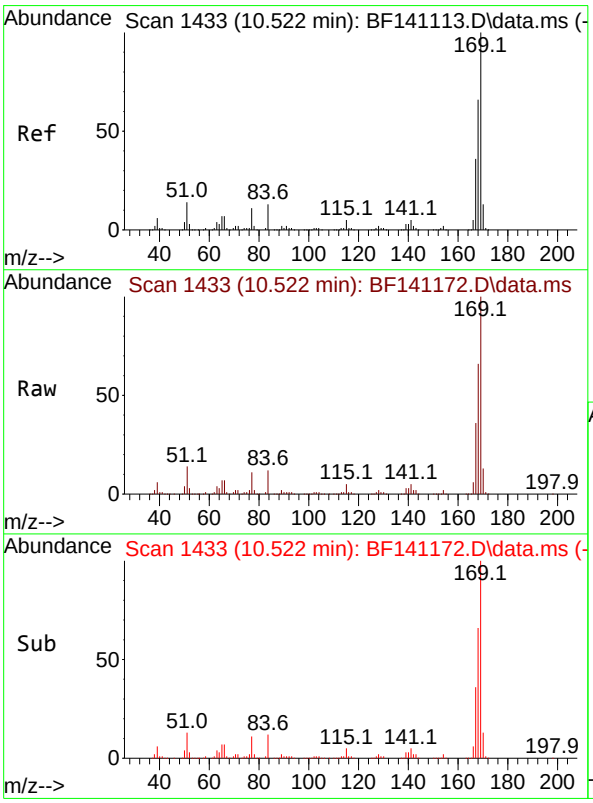
#65
4,6-Dinitro-2-methylphenol
Concen: 60.767 ng
RT: 10.457 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:198 Resp: 159388

Ion	Ratio	Lower	Upper
198	100		
51	41.5	27.1	67.1
105	41.5	24.2	64.2

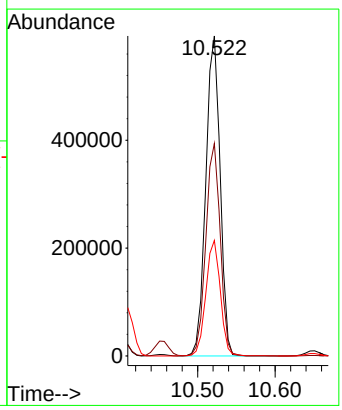


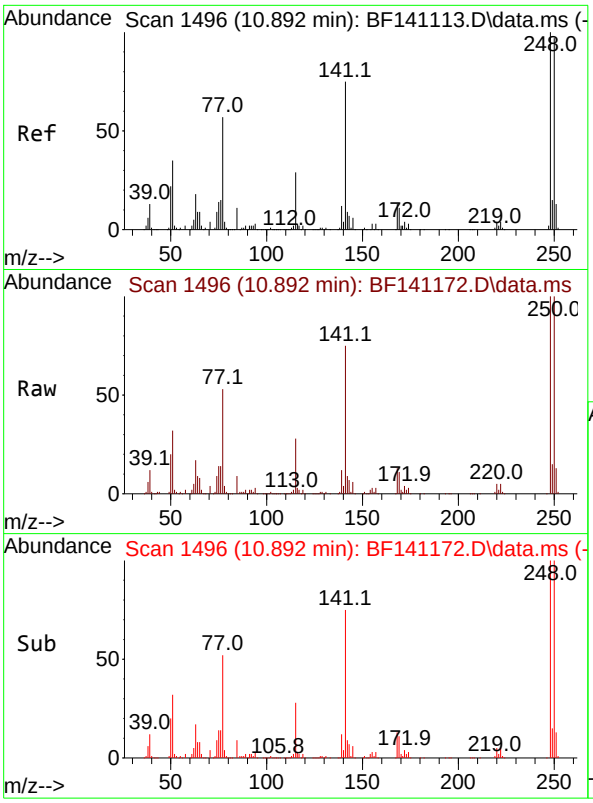


#66
n-Nitrosodiphenylamine
Concen: 52.076 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:169 Resp: 760298

Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.5	78.7
167	36.1	28.9	43.3



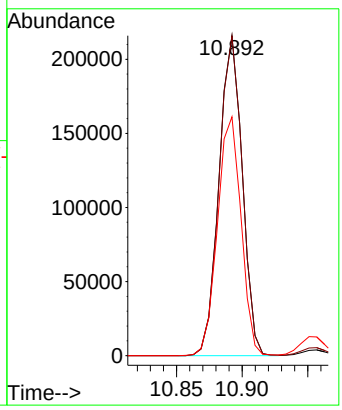


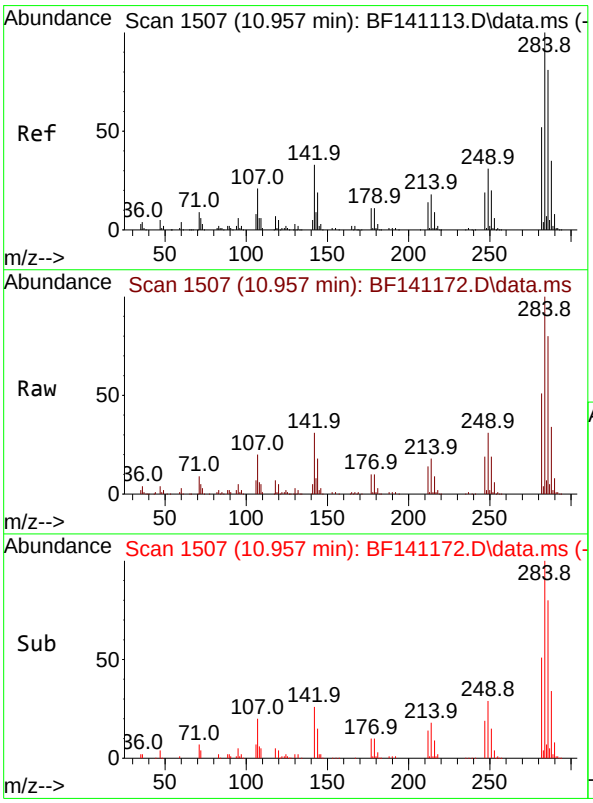
#67
4-Bromophenyl-phenylether
Concen: 51.032 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:248 Resp: 265942

Ion	Ratio	Lower	Upper
248	100		
250	99.8	77.9	116.9
141	74.7	59.9	89.9

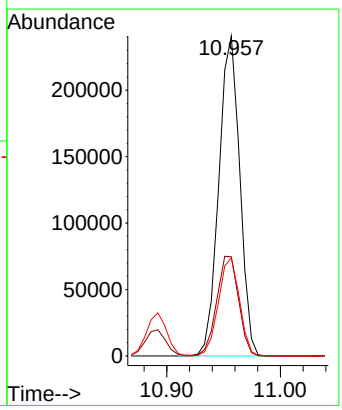


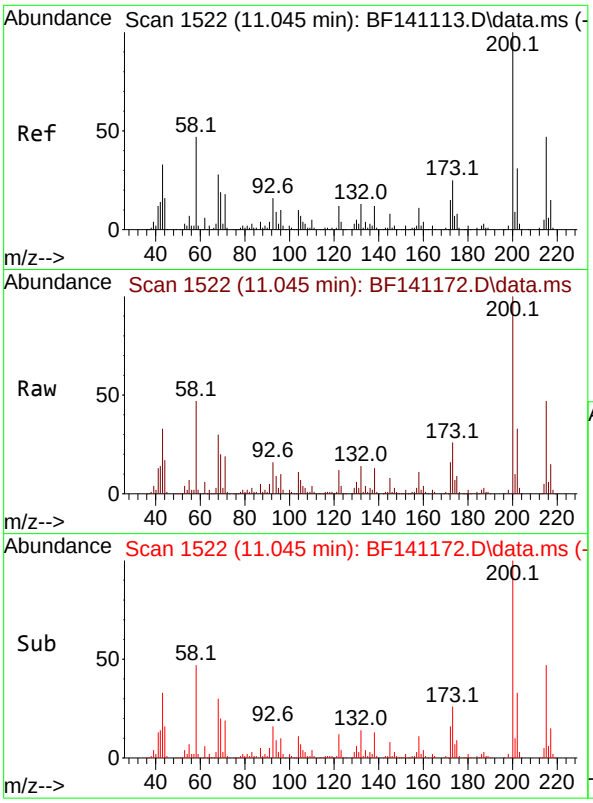


#68
Hexachlorobenzene
Concen: 53.114 ng
RT: 10.957 min Scan# 1507
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:284 Resp: 308124

Ion	Ratio	Lower	Upper
284	100		
142	31.0	26.3	39.5
249	30.7	24.9	37.3



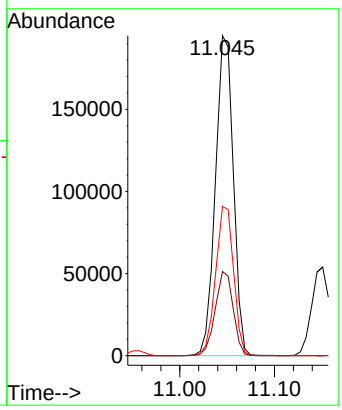


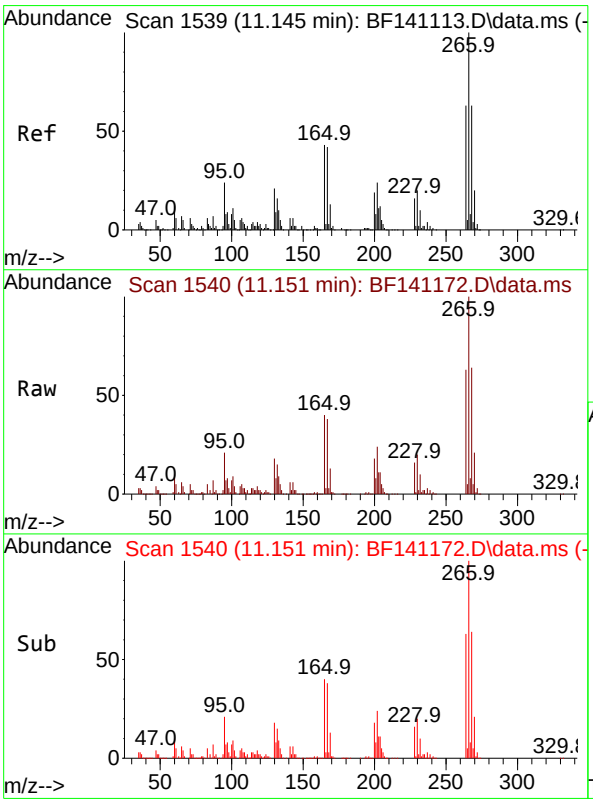
#69
Atrazine
Concen: 65.219 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:200 Resp: 256384

Ion	Ratio	Lower	Upper
200	100		
173	26.3	5.4	45.4
215	46.6	26.6	66.6

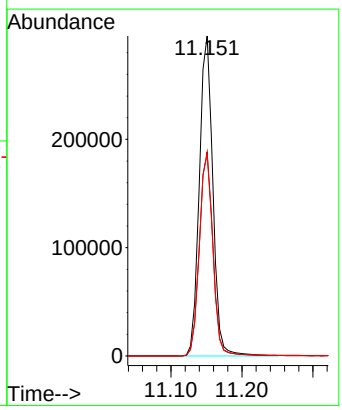


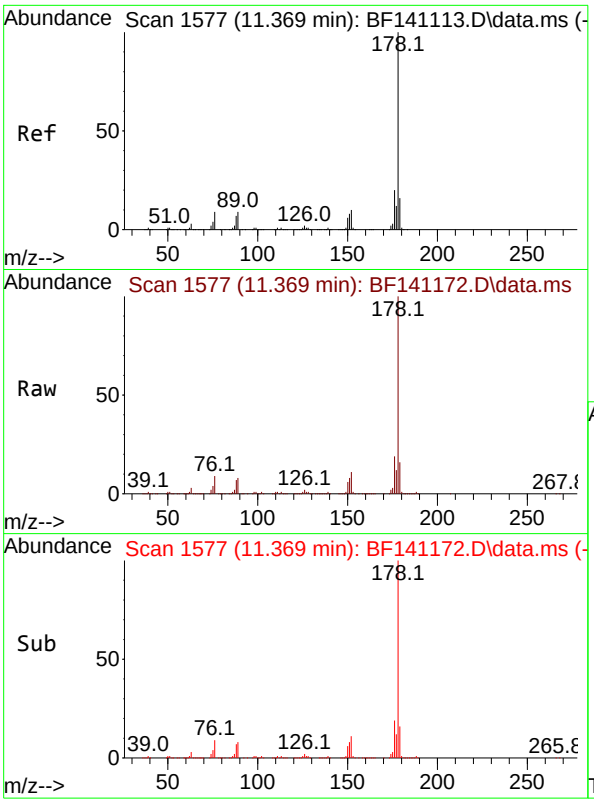


#70
Pentachlorophenol
Concen: 105.741 ng
RT: 11.151 min Scan# 1540
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:266 Resp: 392836

Ion	Ratio	Lower	Upper
266	100		
268	63.7	50.4	75.6
264	63.1	50.2	75.2



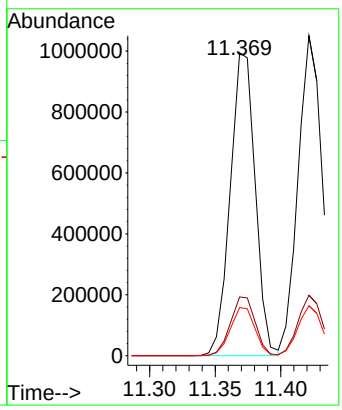


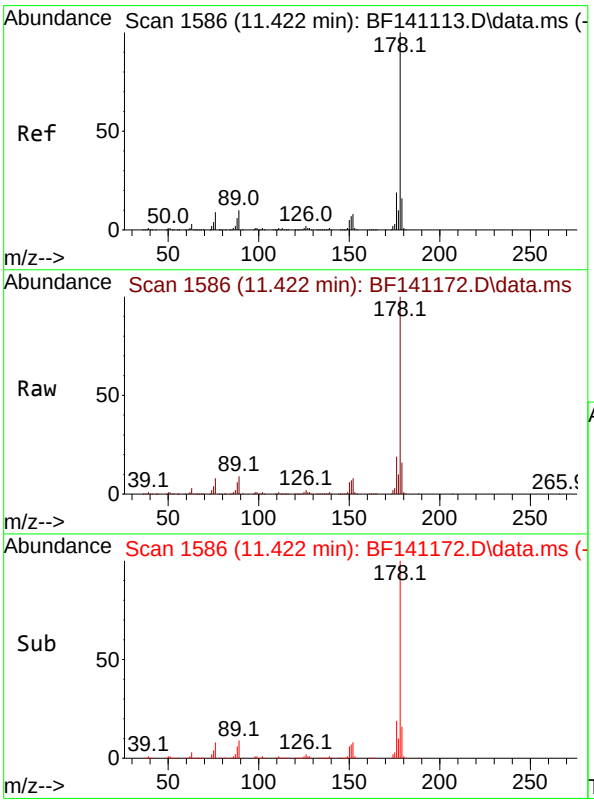
#71
Phenanthrene
Concen: 54.316 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:178 Resp: 1319932

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.7	23.5
179	15.9	12.6	19.0

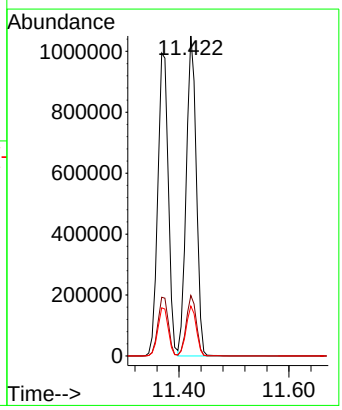


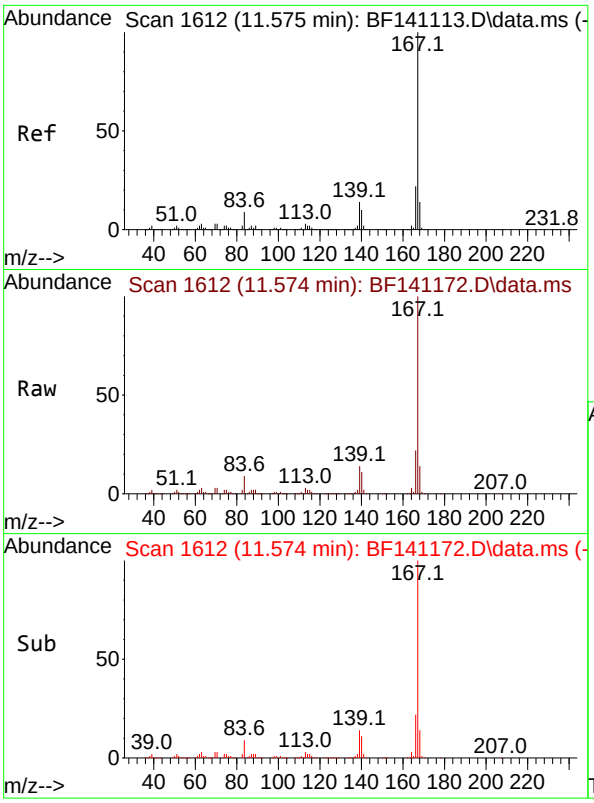


#72
Anthracene
Concen: 56.385 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:178 Resp: 1332321

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.6	12.6	19.0



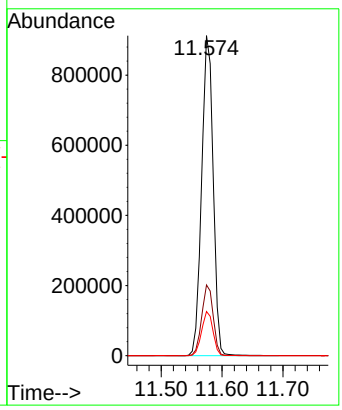


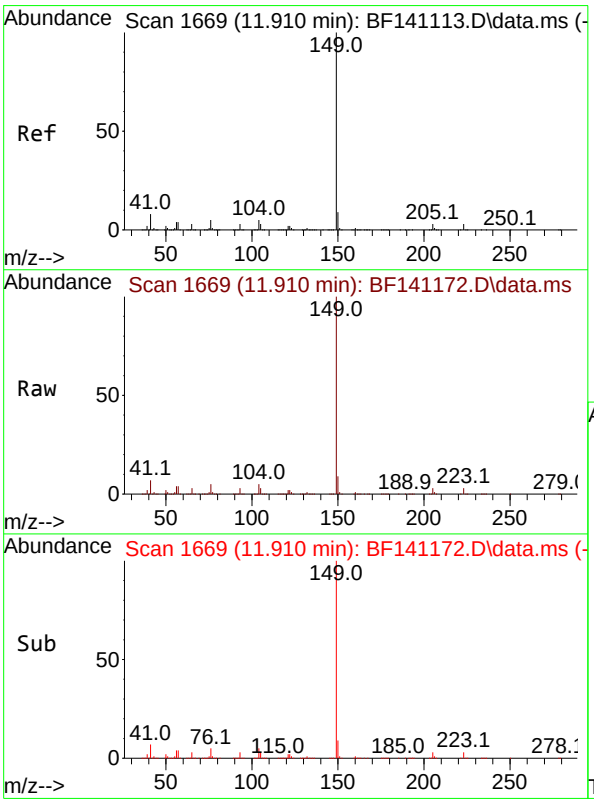
#73
Carbazole
Concen: 55.334 ng
RT: 11.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:167 Resp: 1198881

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.4	26.2
139	13.8	10.9	16.3

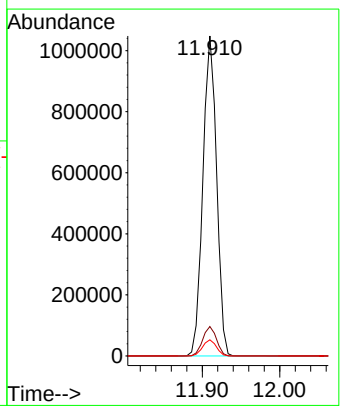


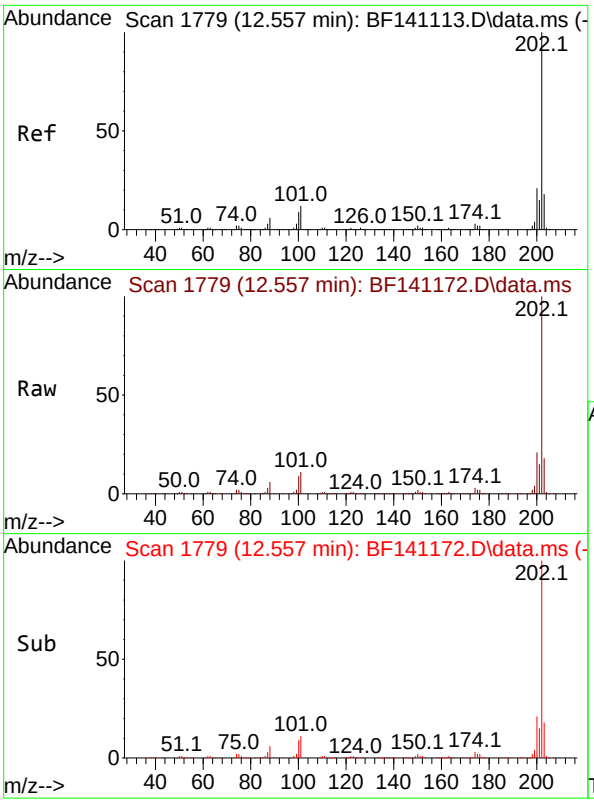


#74
Di-n-butylphthalate
Concen: 51.891 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 1286652

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.1	4.2	6.2



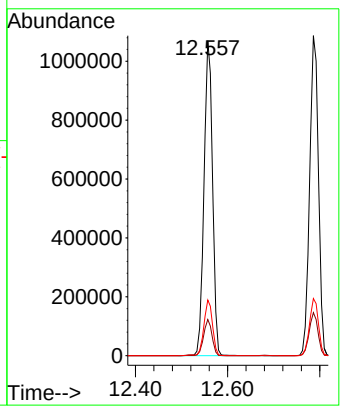


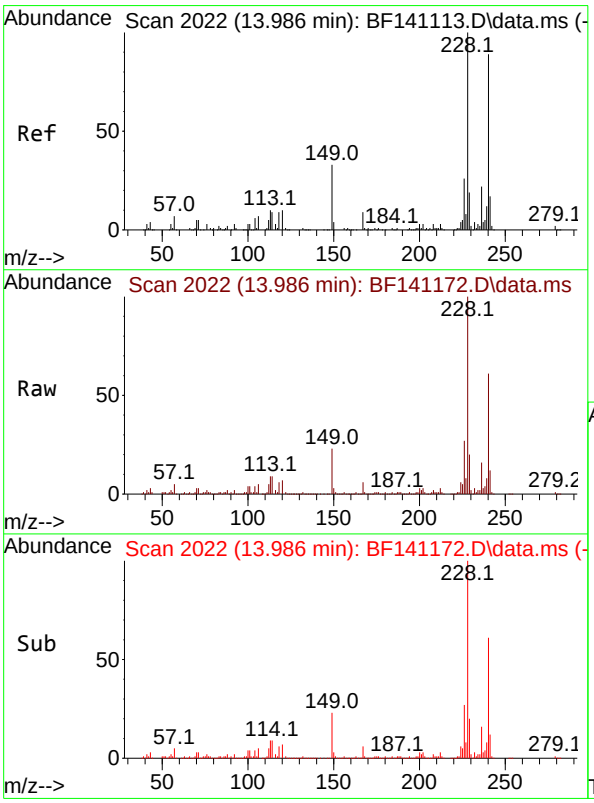
#75
Fluoranthene
Concen: 57.245 ng
RT: 12.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:202 Resp: 1388188

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.3
203	17.7	0.0	37.7

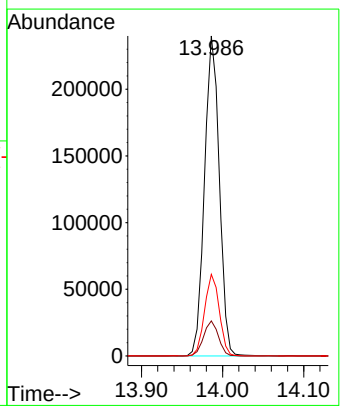


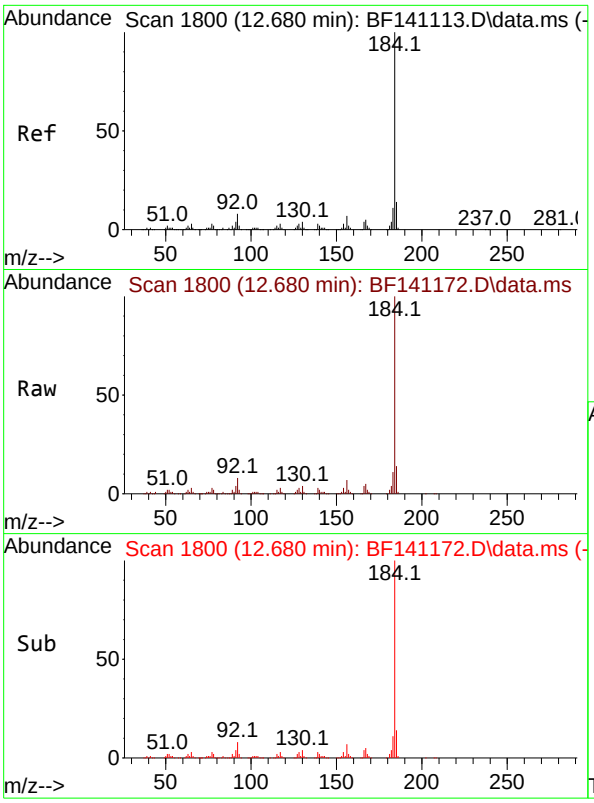


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:240 Resp: 303424

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.1	13.7
236	25.5	19.8	29.6



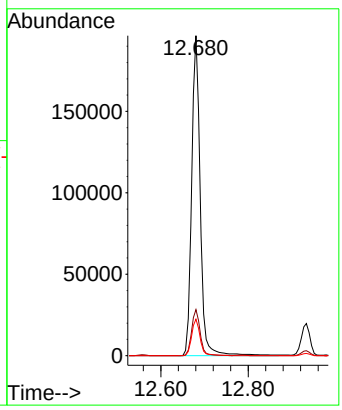


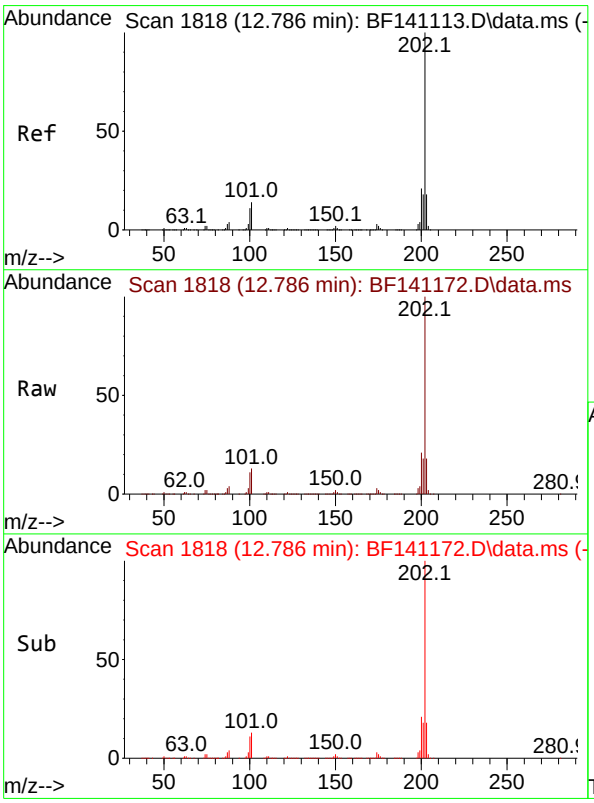
#77
Benzidine
Concen: 47.639 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:184 Resp: 268054

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.4	17.0
183	11.4	9.2	13.8

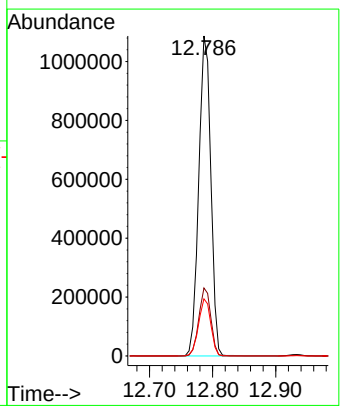


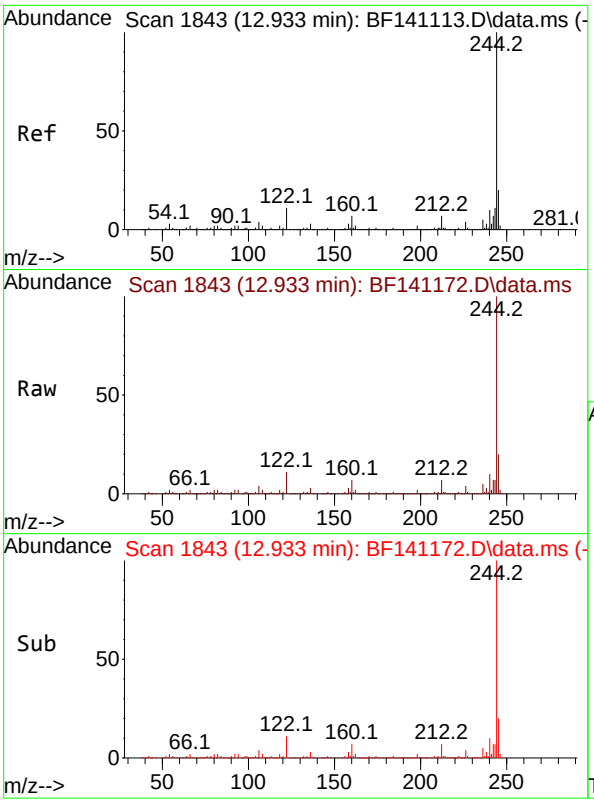


#78
Pyrene
Concen: 49.572 ng
RT: 12.786 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:202 Resp: 1436638

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.9	14.3	21.5



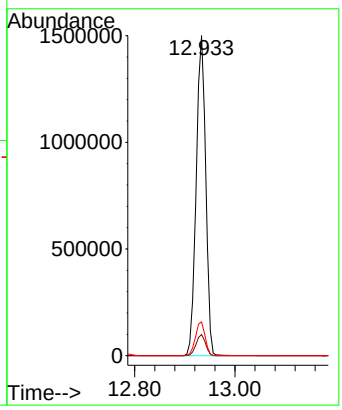


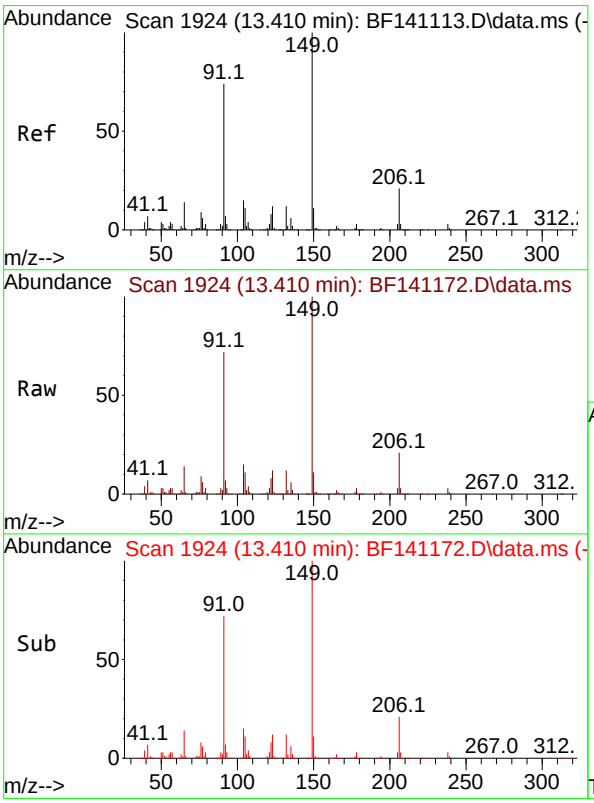
#79
Terphenyl-d14
Concen: 96.512 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:244 Resp: 1970268

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	10.5	8.8	13.2

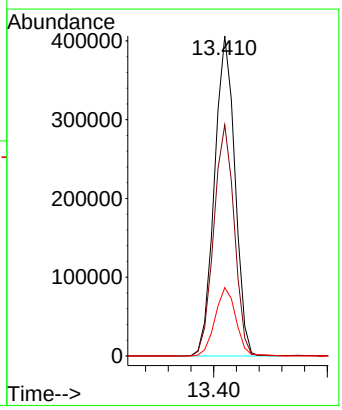


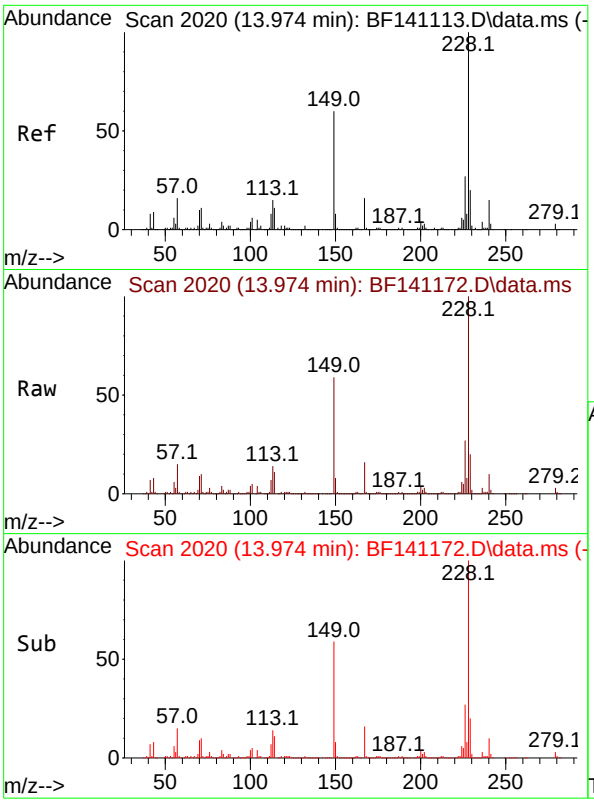


#80
Butylbenzylphthalate
Concen: 52.657 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 508795

Ion	Ratio	Lower	Upper
149	100		
91	72.2	59.0	88.6
206	21.3	16.5	24.7



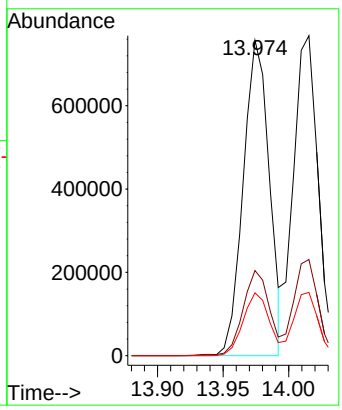


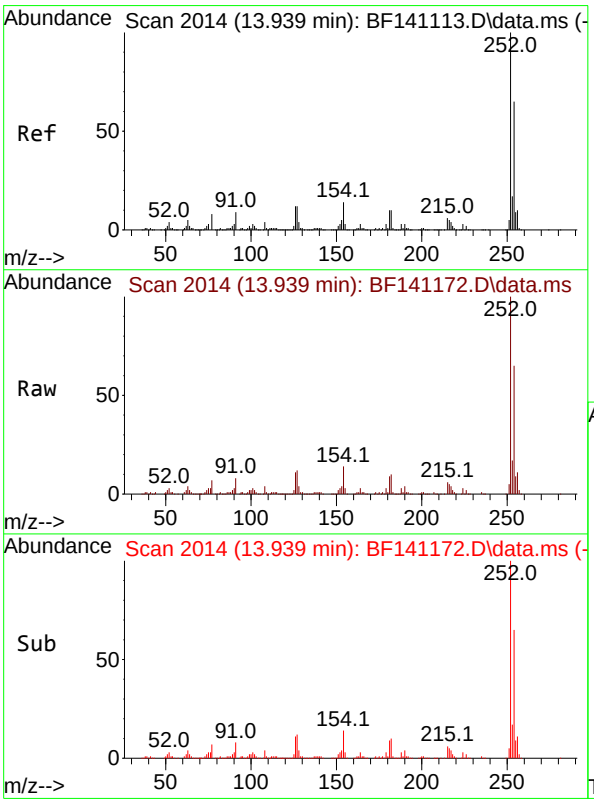
#81
Benzo(a)anthracene
Concen: 50.654 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:228 Resp: 1046000

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.7	32.5
229	20.0	15.7	23.5

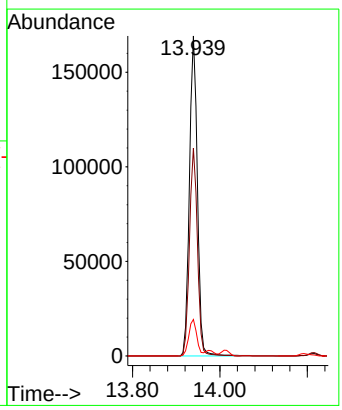


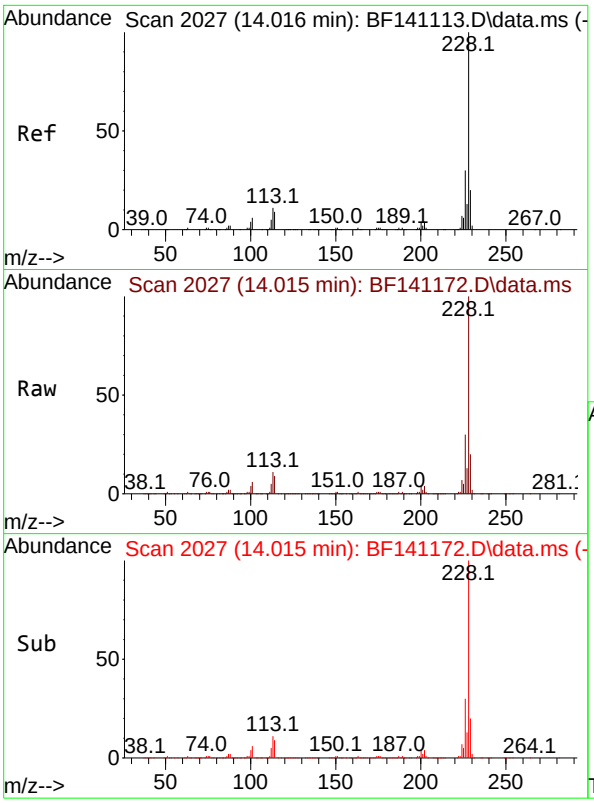


#82
3,3'-Dichlorobenzidine
Concen: 32.609 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:252 Resp: 214412

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.0	78.0
126	11.4	9.4	14.0



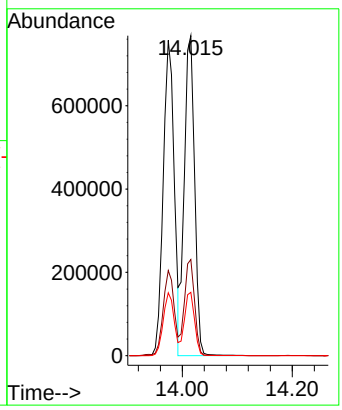


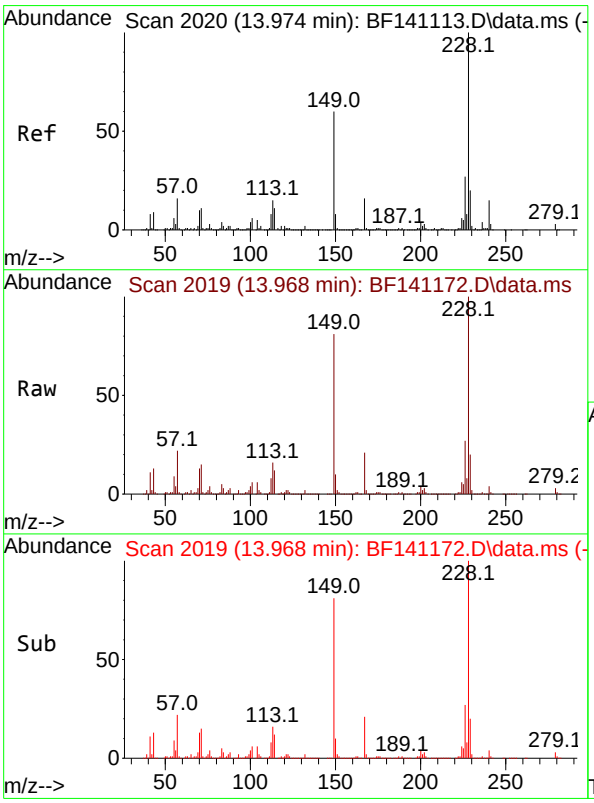
#83
Chrysene
Concen: 51.701 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:228 Resp: 998963

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.8	35.8
229	19.8	15.8	23.8

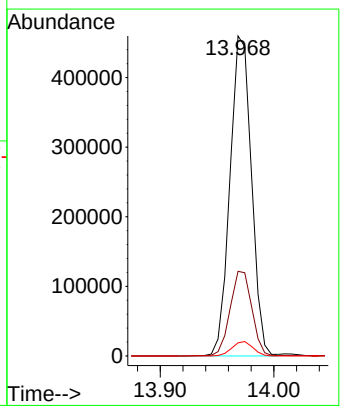


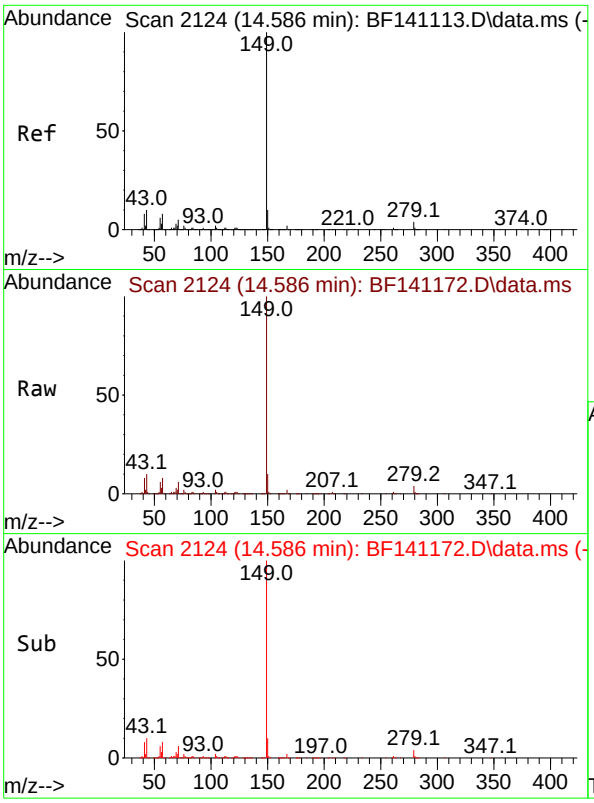


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.112 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:149 Resp: 604164

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.2
279	4.1	3.4	5.2



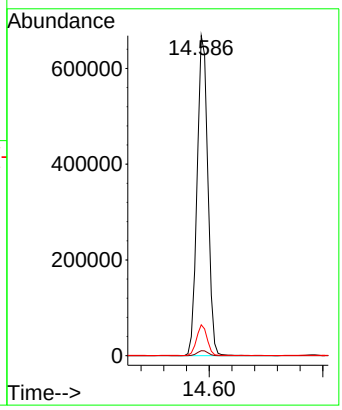


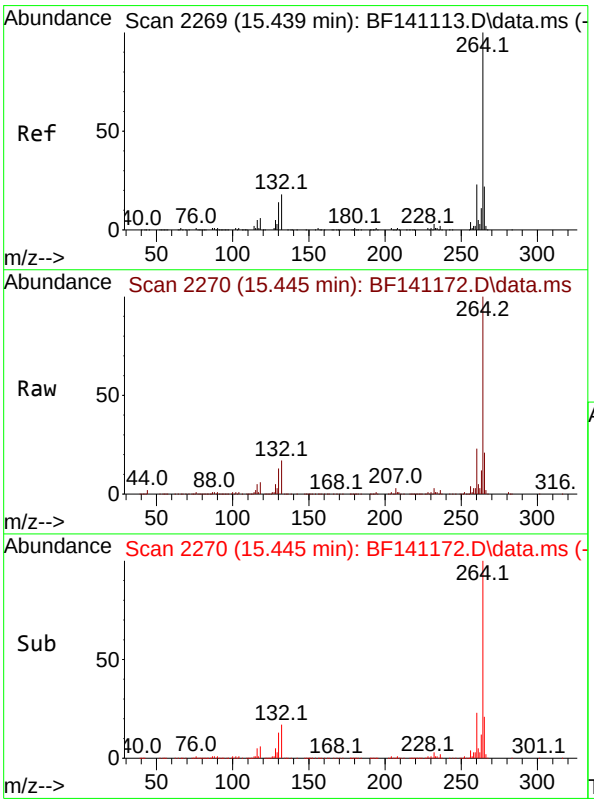
#85
Di-n-octyl phthalate
Concen: 50.327 ng
RT: 14.586 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:149 Resp: 881079

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.4	8.4	12.6

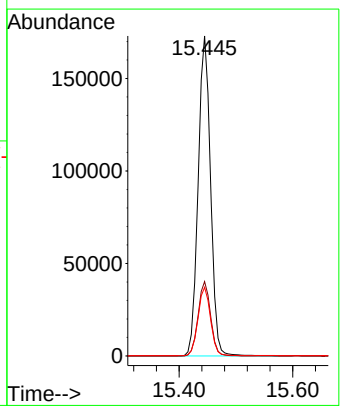


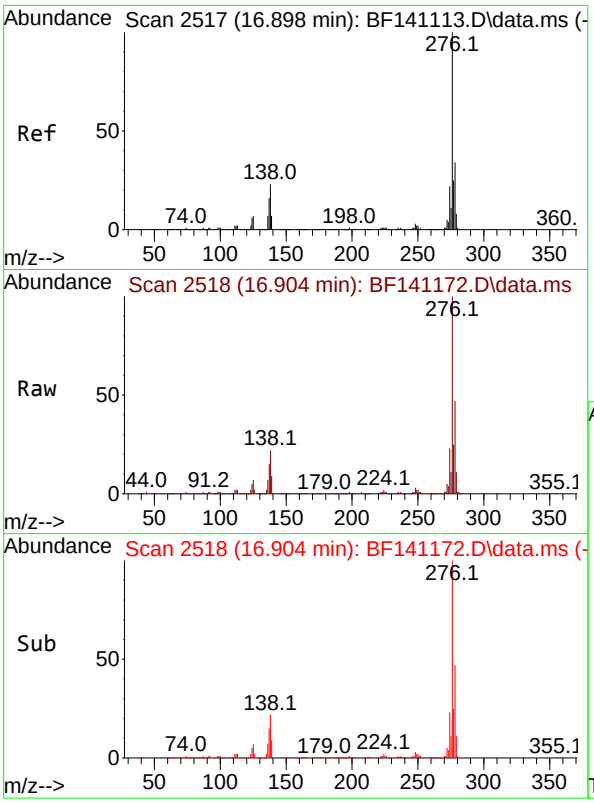


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.445 min Scan# 2270
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:264 Resp: 262459

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.4	17.4	26.0



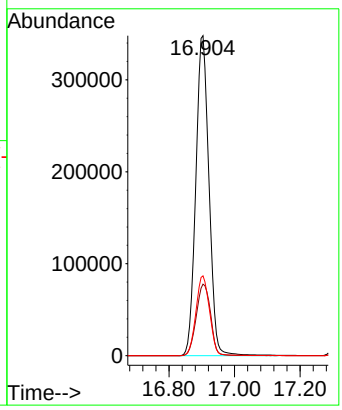


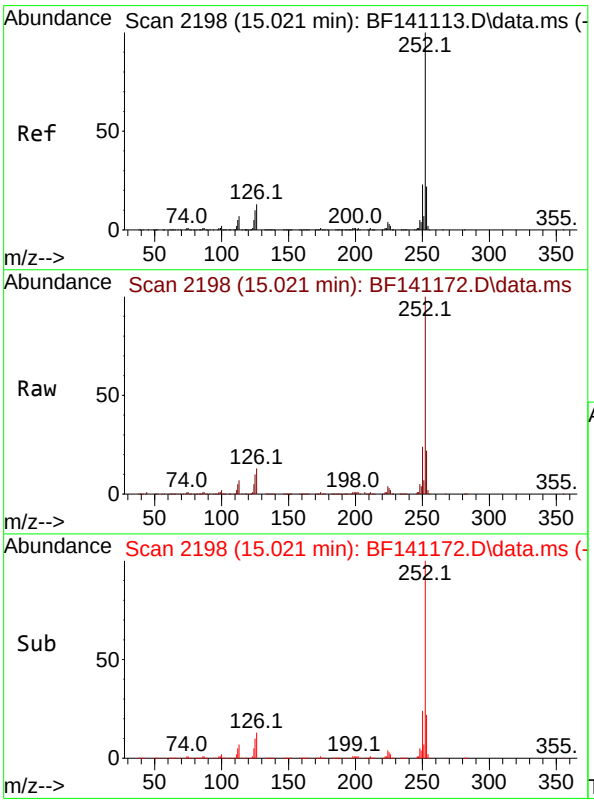
#87
Indeno(1,2,3-cd)pyrene
Concen: 50.722 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:276 Resp: 975311

Ion	Ratio	Lower	Upper
276	100		
138	24.2	20.7	31.1
277	25.8	20.6	30.8

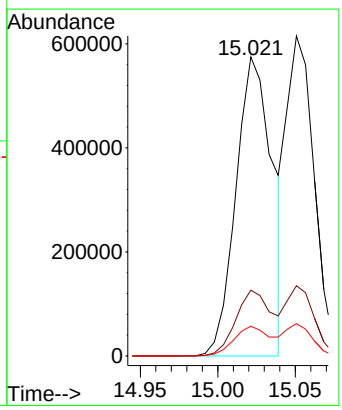


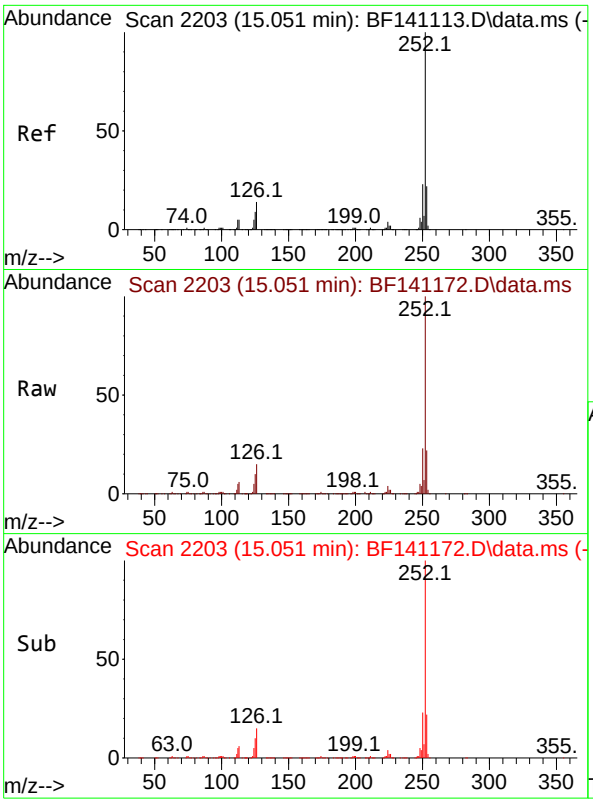


#88
Benzo(b)fluoranthene
Concen: 55.502 ng
RT: 15.021 min Scan# 2198
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:252 Resp: 939329

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	10.0	8.1	12.1



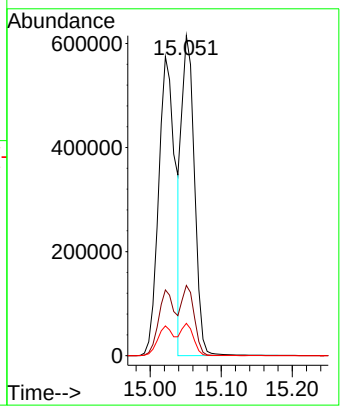


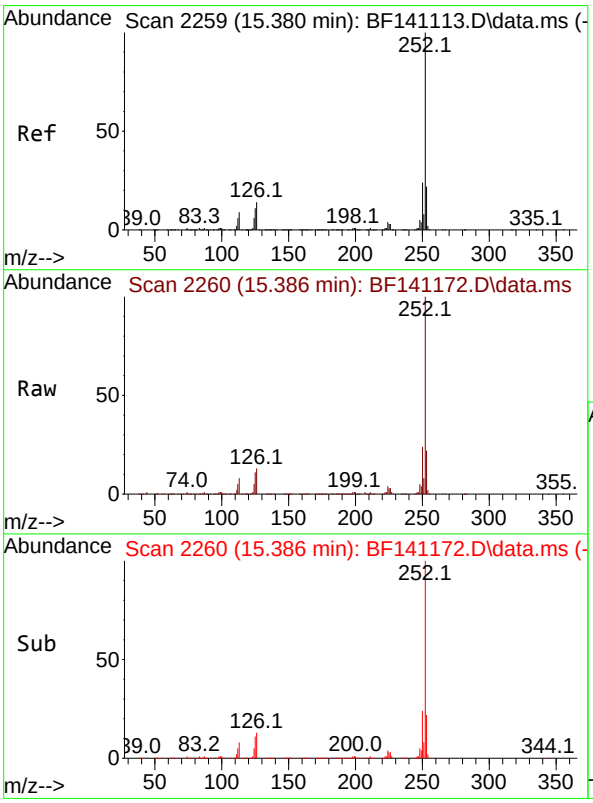
#89
Benzo(k)fluoranthene
Concen: 53.645 ng
RT: 15.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:252 Resp: 767255

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.1	7.9	11.9

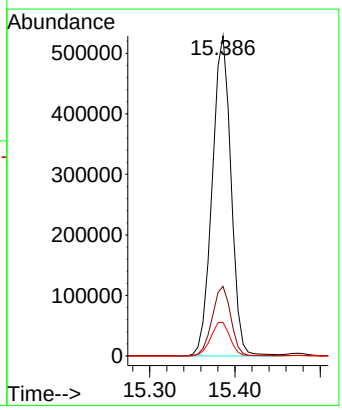


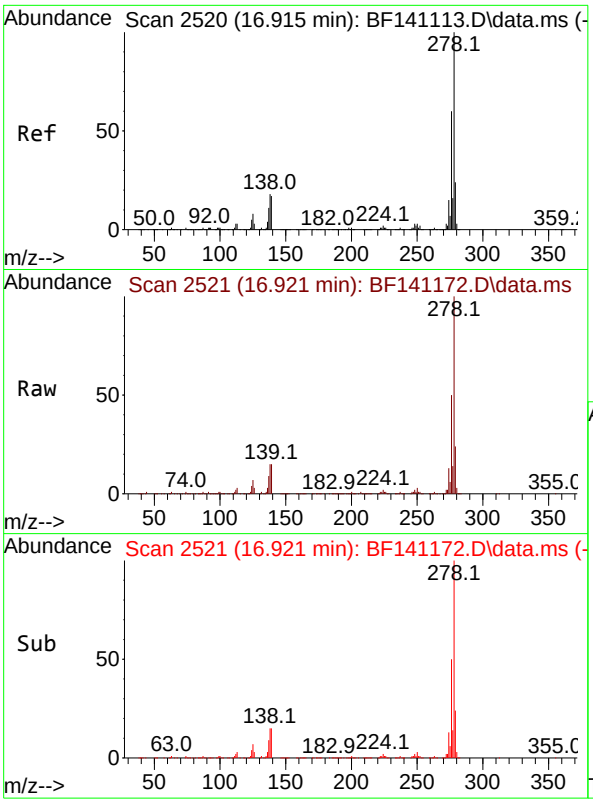


#90
Benzo(a)pyrene
Concen: 57.937 ng
RT: 15.386 min Scan# 2260
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:252 Resp: 809001

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	10.5	9.1	13.7



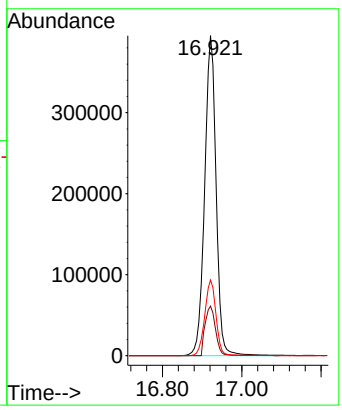


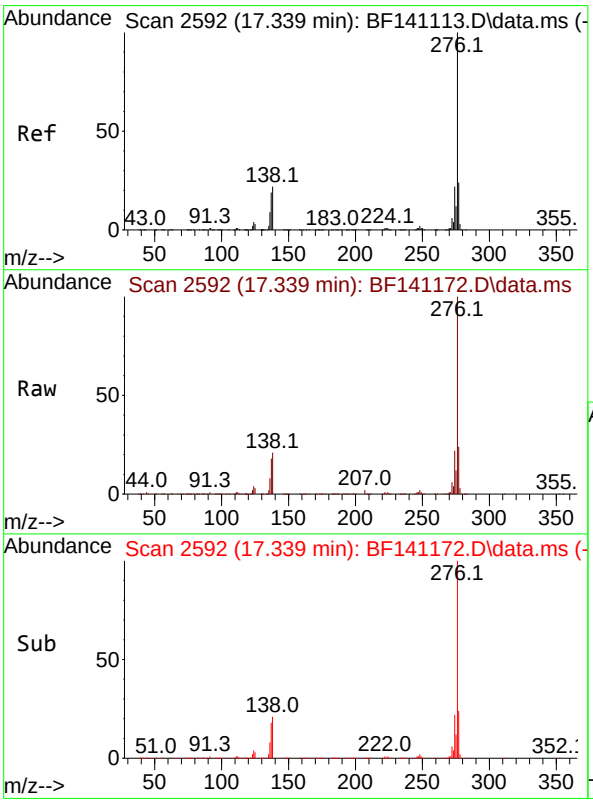
#91
Dibenzo(a,h)anthracene
Concen: 50.976 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Instrument :
BNA_F
ClientSampleId :
PB166061BS

Tgt Ion:278 Resp: 792781

Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.8	20.6
279	23.7	19.1	28.7

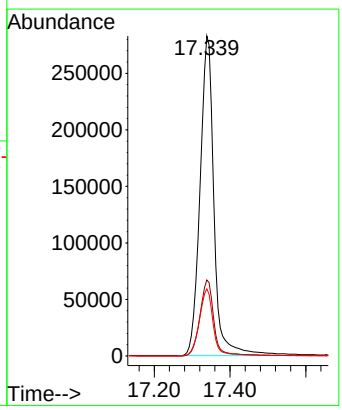




#92
Benzo(g,h,i)perylene
Concen: 44.709 ng
RT: 17.339 min Scan# 2592
Delta R.T. -0.000 min
Lab File: BF141172.D
Acq: 15 Jan 2025 13:38

Tgt Ion:276 Resp: 723237

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	21.0	17.4	26.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141175.D
Acq On : 15 Jan 2025 15:05
Operator : RC/JU
Sample : Q1068-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Quant Time: Jan 15 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	151239	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	561441	20.000	ng		0.00
39) Acenaphthene-d10	9.857	164	265282	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	349564	20.000	ng		0.00
76) Chrysene-d12	13.986	240	322664	20.000	ng		0.00
86) Perylene-d12	15.451	264	314686	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	683044	69.768	ng		0.00
7) Phenol-d6	6.445	99	1001559	80.762	ng		0.00
23) Nitrobenzene-d5	7.381	82	649918	61.362	ng		0.00
42) 2,4,6-Tribromophenol	10.645	330	100774	33.339	ng		0.00
45) 2-Fluorobiphenyl	9.180	172	1143953	65.849	ng		0.00
79) Terphenyl-d14	12.933	244	984818	45.364	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	105406	24.177	ng		99
3) Pyridine	3.316	79	252917	23.657	ng		96
4) n-Nitrosodimethylamine	3.257	42	146758	28.074	ng		100
6) Aniline	6.481	93	159952	14.527	ng		96
8) 2-Chlorophenol	6.604	128	293315	27.925	ng		97
9) Benzaldehyde	6.369	77	40960	5.608	ng		95
10) Phenol	6.463	94	379203	28.565	ng		99
11) bis(2-Chloroethyl)ether	6.557	93	298559	30.178	ng		96
12) 1,3-Dichlorobenzene	6.763	146	323049	27.576	ng		99
13) 1,4-Dichlorobenzene	6.839	146	327369	27.731	ng		100
14) 1,2-Dichlorobenzene	6.992	146	311743	28.310	ng		97
15) Benzyl Alcohol	6.957	79	271930	30.363	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.098	45	397871	28.820	ng		97
17) 2-Methylphenol	7.069	107	245642	28.967	ng		99
18) Hexachloroethane	7.334	117	120353	28.192	ng		99
19) n-Nitroso-di-n-propyla...	7.234	70	215674	29.523	ng		98
20) 3+4-Methylphenols	7.222	107	309253	28.906	ng	#	87
22) Acetophenone	7.228	105	419952	31.465	ng		97
24) Nitrobenzene	7.404	77	320631	29.046	ng		99
25) Isophorone	7.639	82	574003	31.712	ng		99
26) 2-Nitrophenol	7.716	139	120397	23.977	ng		97
27) 2,4-Dimethylphenol	7.751	122	241988	35.728	ng		98
28) bis(2-Chloroethoxy)met...	7.851	93	355223	31.271	ng		99
29) 2,4-Dichlorophenol	7.957	162	217566	27.047	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	263047	28.609	ng		100
31) Naphthalene	8.128	128	918606	31.026	ng		100
32) Benzoic acid	7.751	122	241988	37.245	ng	#	13
33) 4-Chloroaniline	8.175	127	115343	11.264	ng		99
34) Hexachlorobutadiene	8.245	225	162534	29.337	ng		99
35) Caprolactam	8.516	113	69129	26.249	ng		95
36) 4-Chloro-3-methylphenol	8.651	107	246845	28.059	ng		99
37) 2-Methylnaphthalene	8.816	142	578514	30.662	ng		99
38) 1-Methylnaphthalene	8.916	142	536900	28.874	ng		99
40) 1,2,4,5-Tetrachloroben...	8.980	216	255628	33.573	ng		99
41) Hexachlorocyclopentadiene	8.969	237	159842	64.166	ng		99
43) 2,4,6-Trichlorophenol	9.092	196	88165	17.169	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141175.D
Acq On : 15 Jan 2025 15:05
Operator : RC/JU
Sample : Q1068-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Quant Time: Jan 15 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

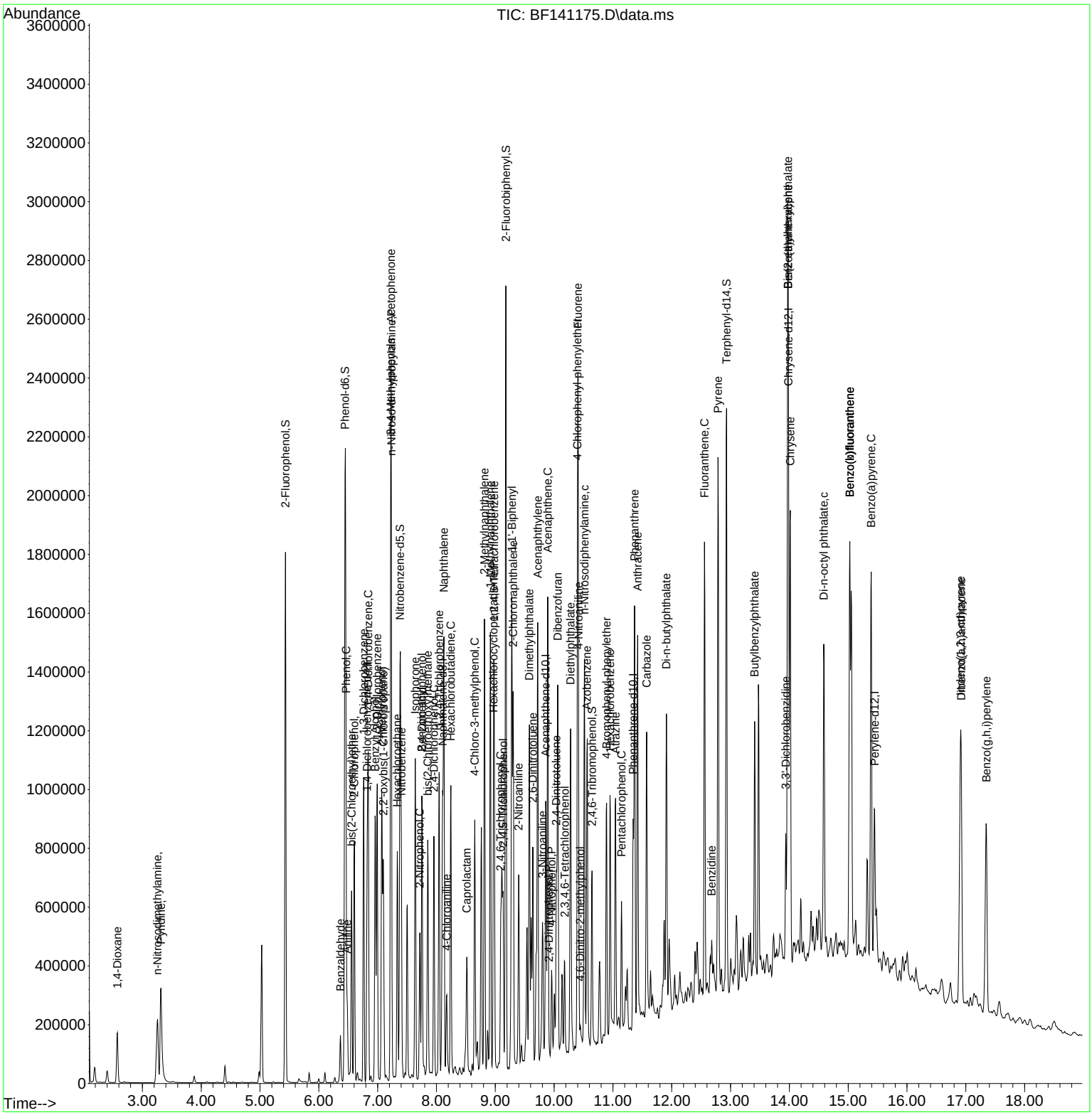
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	119487	22.032	ng		98
46) 1,1'-Biphenyl	9.280	154	690480	33.515	ng		99
47) 2-Chloronaphthalene	9.304	162	495753	30.895	ng		100
48) 2-Nitroaniline	9.398	65	149394	31.408	ng		98
49) Acenaphthylene	9.722	152	877645	38.283	ng		100
50) Dimethylphthalate	9.580	163	590143	33.137	ng		100
51) 2,6-Dinitrotoluene	9.639	165	122290	29.528	ng		94
52) Acenaphthene	9.892	154	485274	30.298	ng		100
53) 3-Nitroaniline	9.804	138	94941	22.559	ng		98
54) 2,4-Dinitrophenol	9.910	184	6772	3.440	ng	#	1
55) Dibenzofuran	10.063	168	667349	30.632	ng		99
56) 4-Nitrophenol	9.957	139	68610	20.816	ng		96
57) 2,4-Dinitrotoluene	10.039	165	150510	28.200	ng		100
58) Fluorene	10.404	166	518351	30.626	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	51375	11.396	ng	#	99
60) Diethylphthalate	10.280	149	543883	31.282	ng		100
61) 4-Chlorophenyl-phenyle...	10.398	204	247267	29.974	ng		97
62) 4-Nitroaniline	10.416	138	99151	24.070	ng		99
63) Azobenzene	10.557	77	532827	31.058	ng		99
65) 4,6-Dinitro-2-methylph...	10.445	198	12033	5.940	ng		81
66) n-Nitrosodiphenylamine	10.516	169	431187	38.243	ng		100
67) 4-Bromophenyl-phenylether	10.892	248	145801	36.228	ng		99
68) Hexachlorobenzene	10.951	284	150906	33.684	ng		98
69) Atrazine	11.045	200	134509	44.306	ng		100
70) Pentachlorophenol	11.145	266	68531	23.886	ng		99
71) Phenanthrene	11.369	178	746258	39.764	ng		99
72) Anthracene	11.422	178	727636	39.875	ng		99
73) Carbazole	11.574	167	555900	33.223	ng		100
74) Di-n-butylphthalate	11.910	149	684830	35.764	ng		100
75) Fluoranthene	12.557	202	867978	46.347	ng		99
77) Benzidine	12.680	184	98399	16.445	ng	#	95
78) Pyrene	12.786	202	1043972	33.875	ng		99
80) Butylbenzylphthalate	13.410	149	282822	27.525	ng		100
81) Benzo(a)anthracene	13.980	228	914236	41.633	ng		95
82) 3,3'-Dichlorobenzidine	13.939	252	141773	20.276	ng		99
83) Chrysene	14.015	228	771864	37.566	ng		98
84) Bis(2-ethylhexyl)phtha...	13.974	149	394268	31.980	ng		100
85) Di-n-octyl phthalate	14.586	149	724119	38.895	ng		98
87) Indeno(1,2,3-cd)pyrene	16.909	276	685937	29.752	ng		96
88) Benzo(b)fluoranthene	15.027	252	906206	44.658	ng		100
89) Benzo(k)fluoranthene	15.027	252	906206	52.845	ng		100
90) Benzo(a)pyrene	15.392	252	834847	49.865	ng		99
91) Dibenzo(a,h)anthracene	16.921	278	468043	25.100	ng		99
92) Benzo(g,h,i)perylene	17.351	276	603676	31.124	ng		98

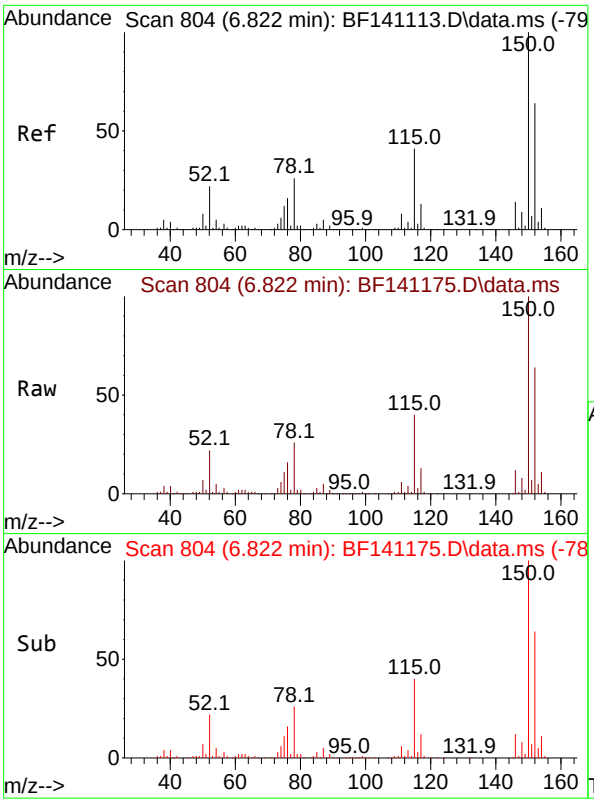
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141175.D
Acq On : 15 Jan 2025 15:05
Operator : RC/JU
Sample : Q1068-01MS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Quant Time: Jan 15 15:37:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



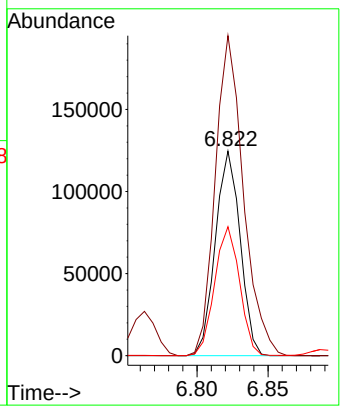


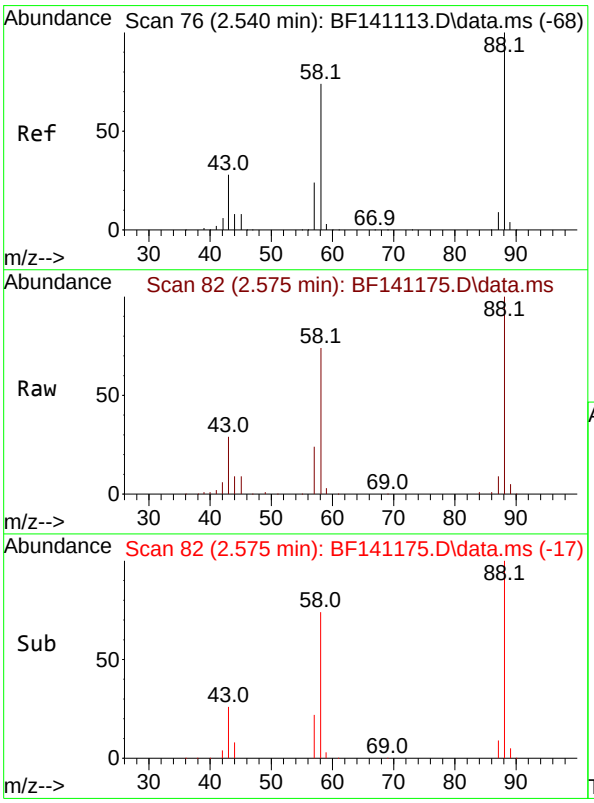
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:152 Resp: 151239

Ion	Ratio	Lower	Upper
152	100		
150	156.5	125.8	188.8
115	63.1	51.4	77.2

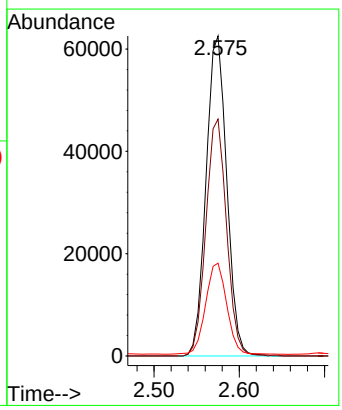


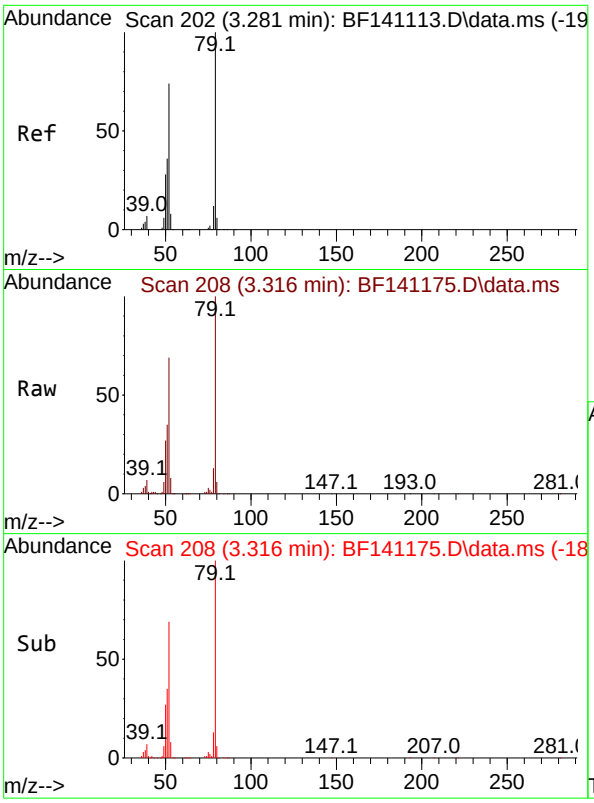


#2
1,4-Dioxane
Concen: 24.177 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.035 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 88 Resp: 105406

Ion	Ratio	Lower	Upper
88	100		
58	74.0	60.1	90.1
43	29.0	23.1	34.7



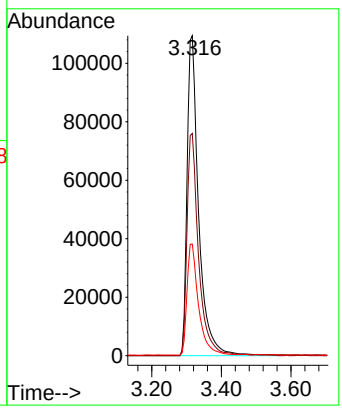


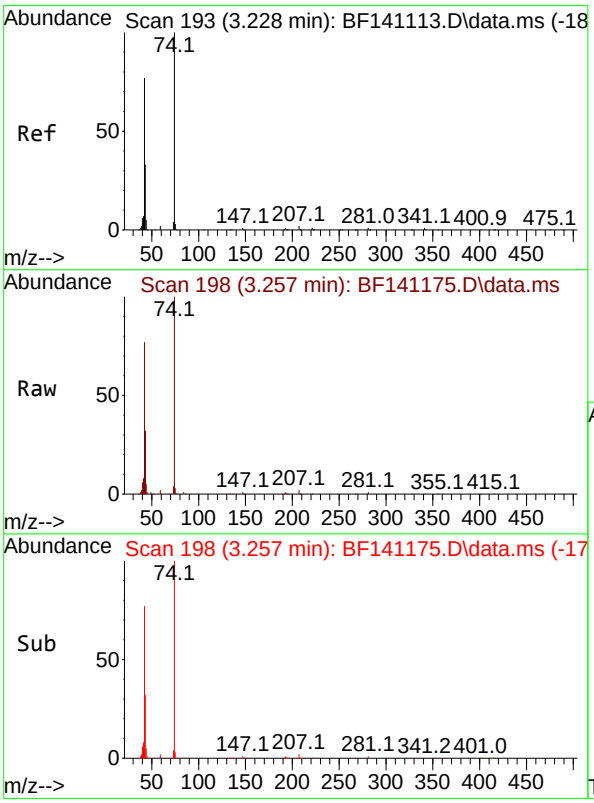
#3
Pyridine
Concen: 23.657 ng
RT: 3.316 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 79 Resp: 252917

Ion	Ratio	Lower	Upper
79	100		
52	69.5	58.9	88.3
51	34.9	29.1	43.7

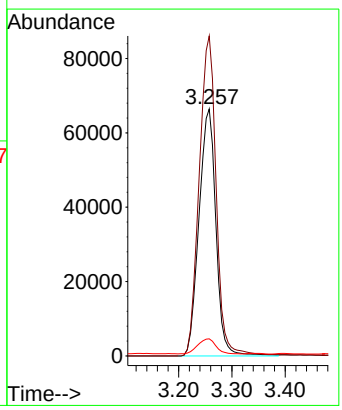


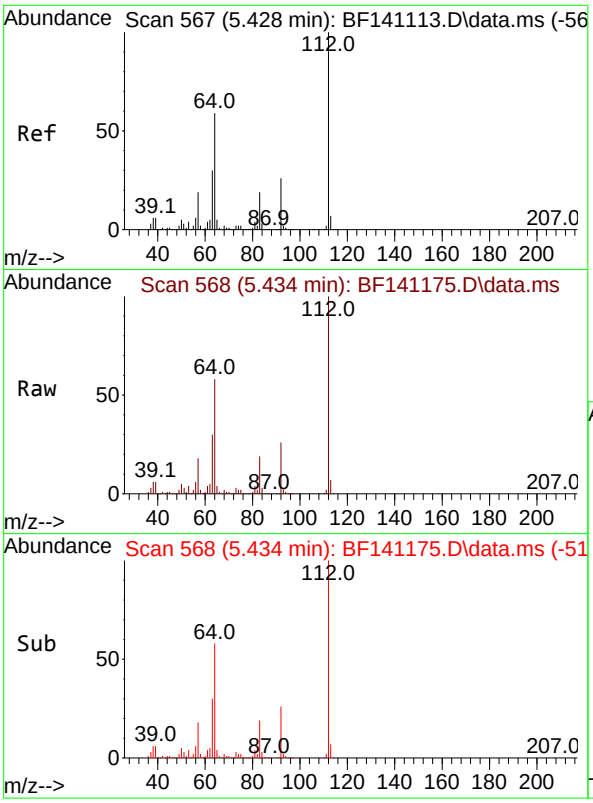


#4
n-Nitrosodimethylamine
Concen: 28.074 ng
RT: 3.257 min Scan# 198
Delta R.T. 0.029 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 42 Resp: 146758

Ion	Ratio	Lower	Upper
42	100		
74	129.6	103.8	155.6
44	6.9	5.3	7.9



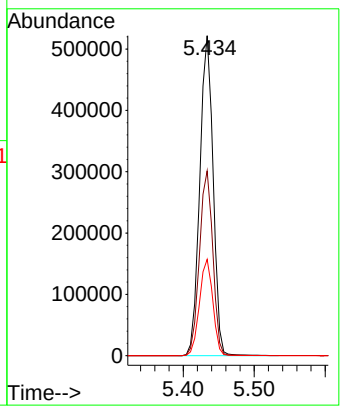


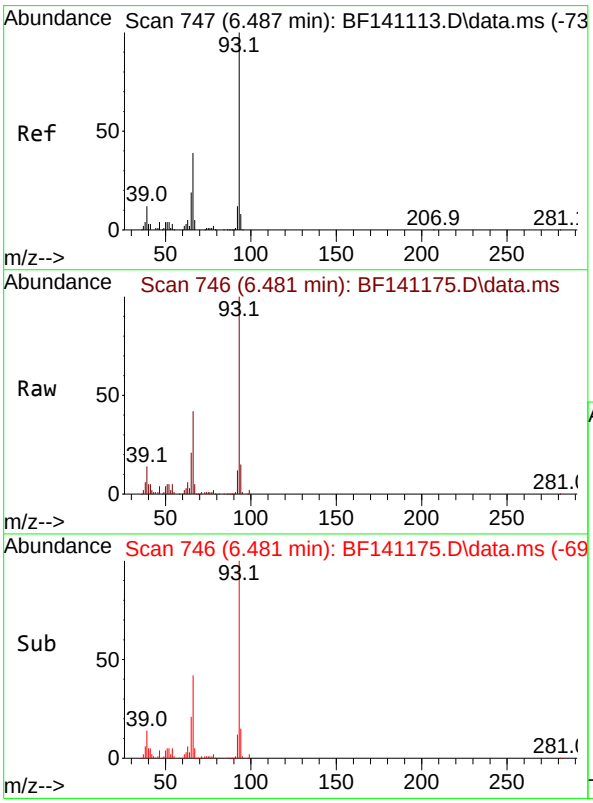
#5
2-Fluorophenol
Concen: 69.768 ng
RT: 5.434 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:112 Resp: 683044

Ion	Ratio	Lower	Upper
112	100		
64	57.8	47.3	70.9
63	30.1	24.2	36.2

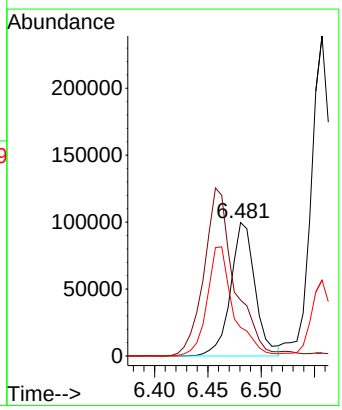


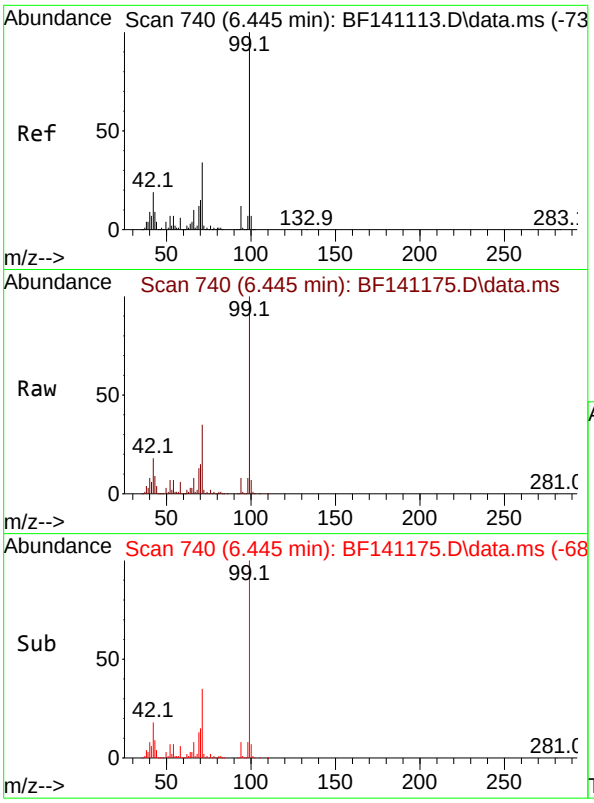


#6
Aniline
Concen: 14.527 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 93 Resp: 159952

Ion	Ratio	Lower	Upper
93	100		
66	41.8	31.5	47.3
65	21.3	15.3	22.9



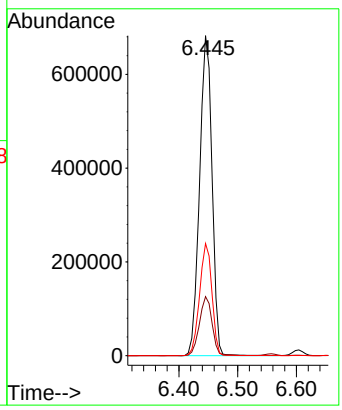


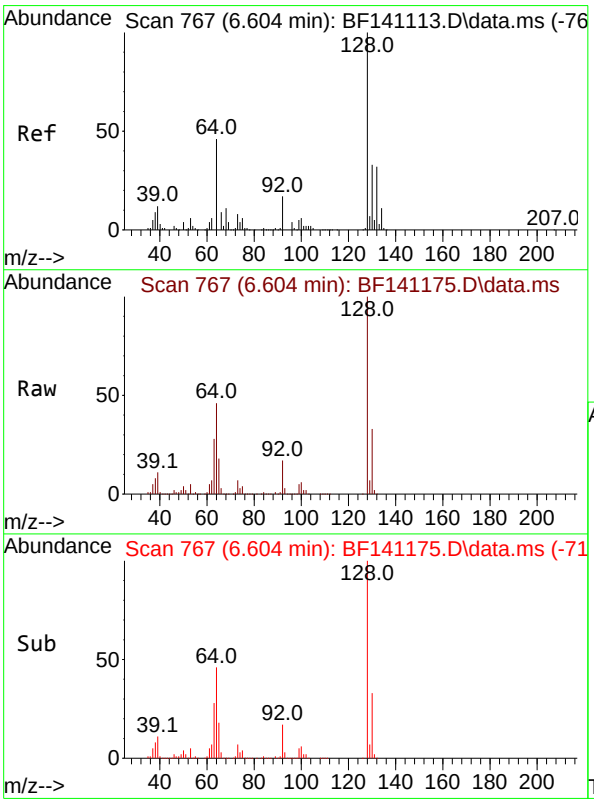
#7
Phenol-d6
Concen: 80.762 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 99 Resp: 1001559

Ion	Ratio	Lower	Upper
99	100		
42	18.4	15.0	22.4
71	35.1	27.6	41.4

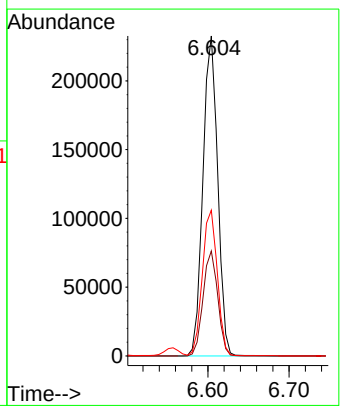


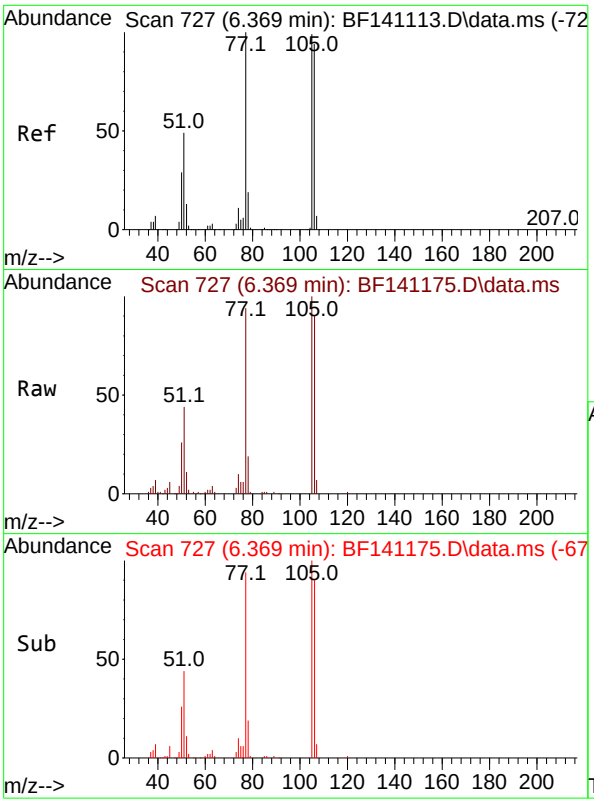


#8
2-Chlorophenol
Concen: 27.925 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:128 Resp: 293315

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.5	52.5
64	45.6	28.3	68.3



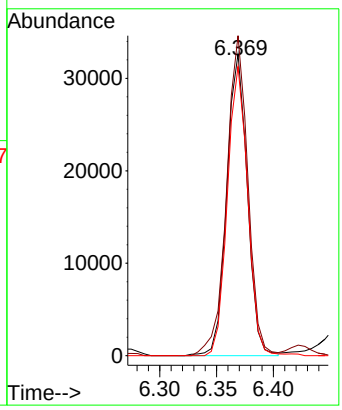


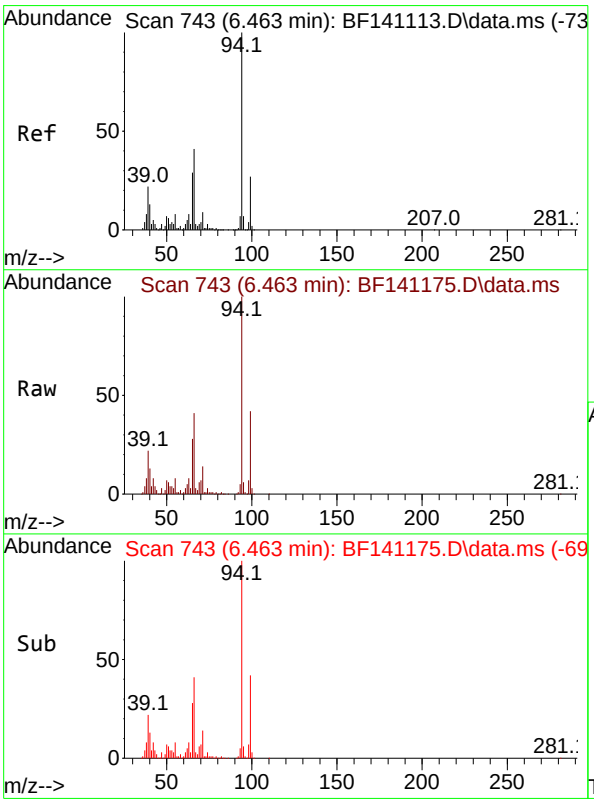
#9
Benzaldehyde
Concen: 5.608 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 77 Resp: 40960

Ion	Ratio	Lower	Upper
77	100		
105	106.0	78.9	118.9
106	95.8	73.6	113.6

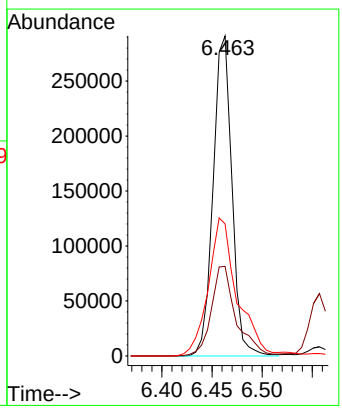


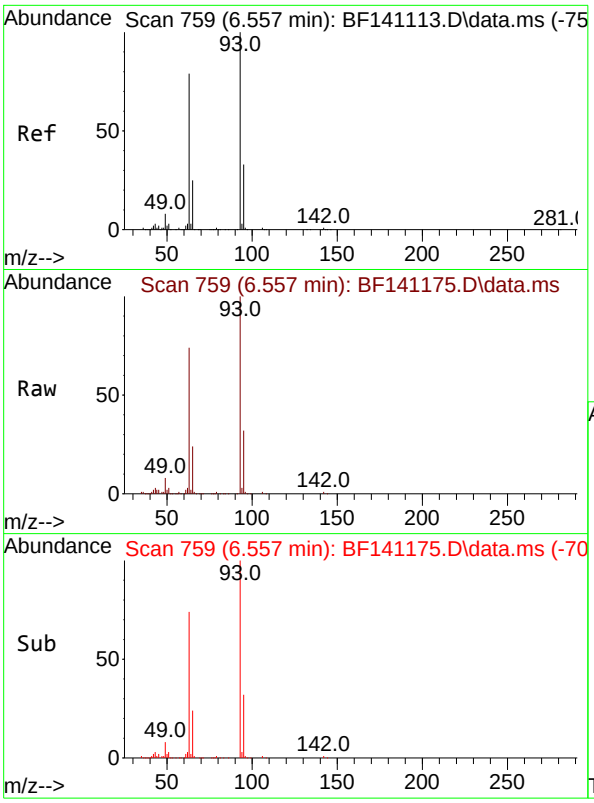


#10
Phenol
Concen: 28.565 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 94 Resp: 379203

Ion	Ratio	Lower	Upper
94	100		
65	28.0	8.9	48.9
66	41.3	21.2	61.2



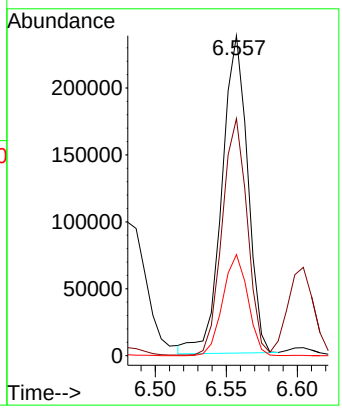


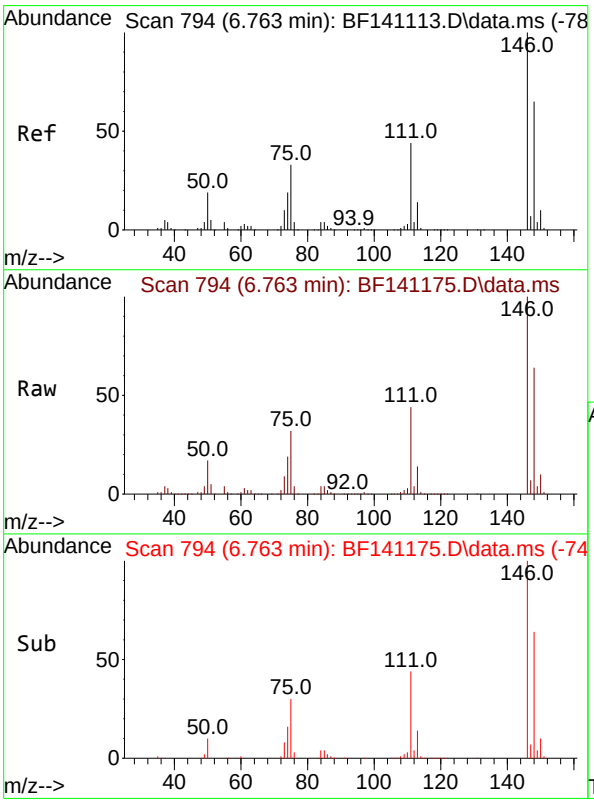
#11
bis(2-Chloroethyl)ether
Concen: 30.178 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 93 Resp: 298559

Ion	Ratio	Lower	Upper
93	100		
63	74.1	58.0	98.0
95	31.6	12.5	52.5

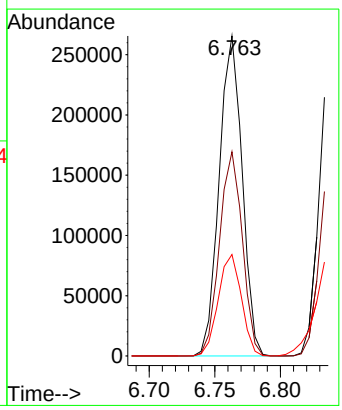


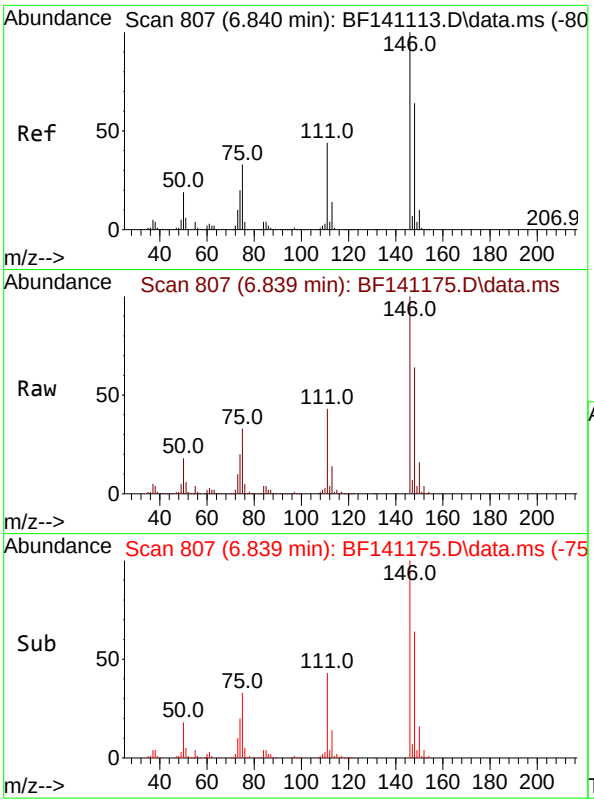


#12
1,3-Dichlorobenzene
Concen: 27.576 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:146 Resp: 323049

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.6	77.4
75	31.7	26.2	39.2



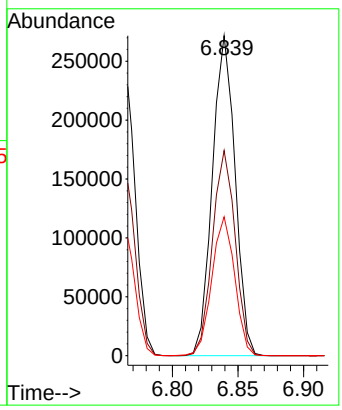


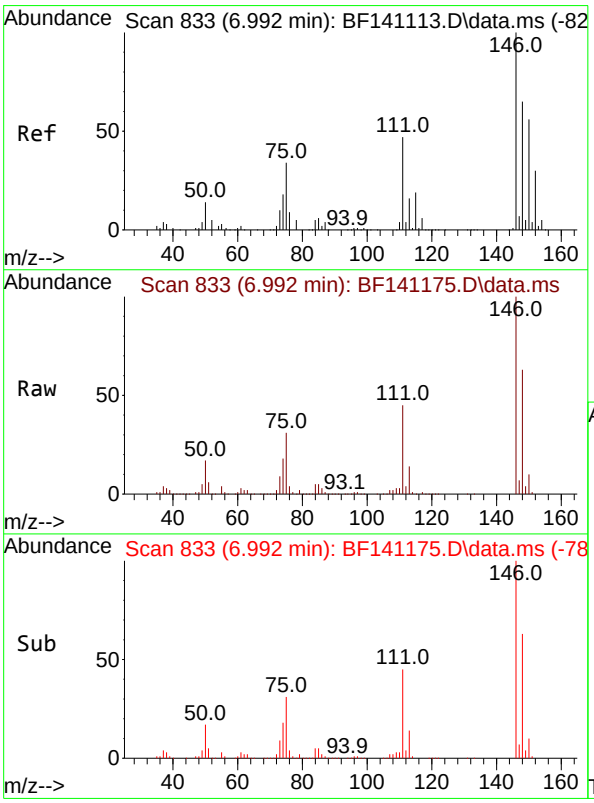
#13
1,4-Dichlorobenzene
Concen: 27.731 ng
RT: 6.839 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:146 Resp: 327369

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	43.4	34.9	52.3

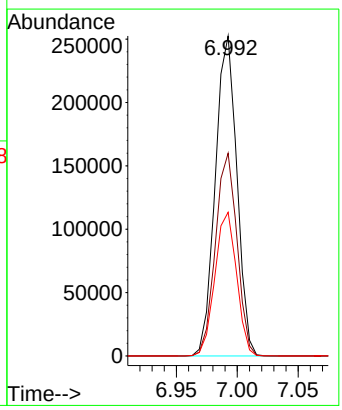


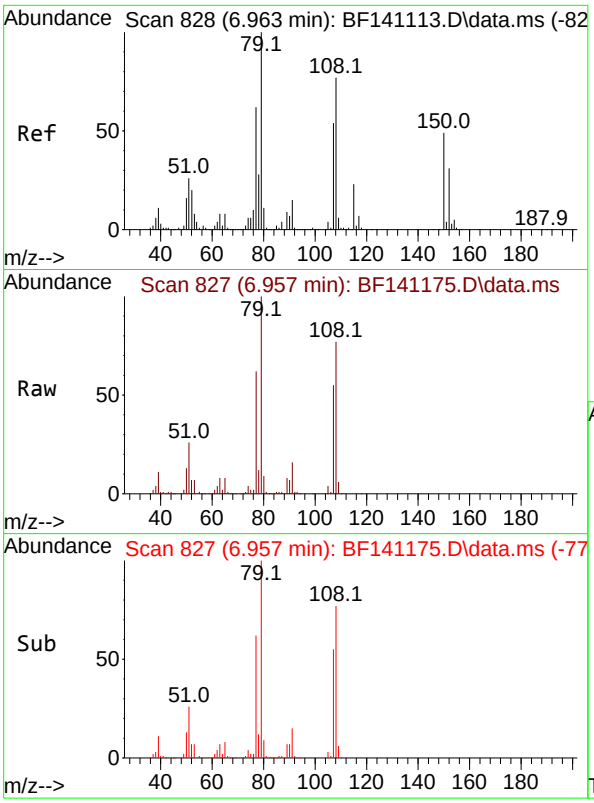


#14
1,2-Dichlorobenzene
Concen: 28.310 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:146 Resp: 311743

Ion	Ratio	Lower	Upper
146	100		
148	63.3	52.2	78.4
111	44.9	37.5	56.3



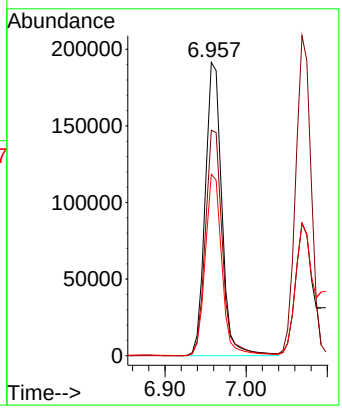


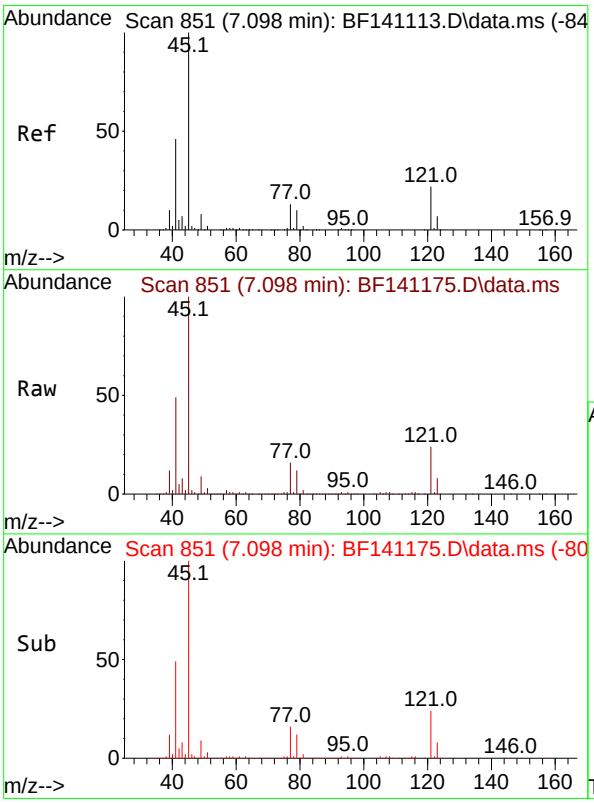
#15
Benzyl Alcohol
Concen: 30.363 ng
RT: 6.957 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 79 Resp: 271930

Ion	Ratio	Lower	Upper
79	100		
108	76.9	61.4	92.0
77	61.8	49.8	74.6

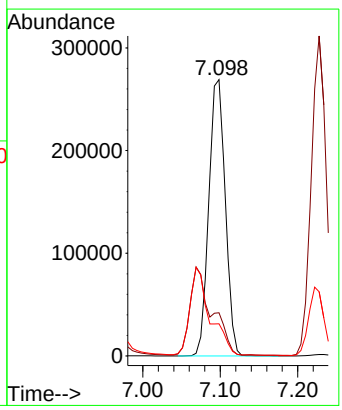


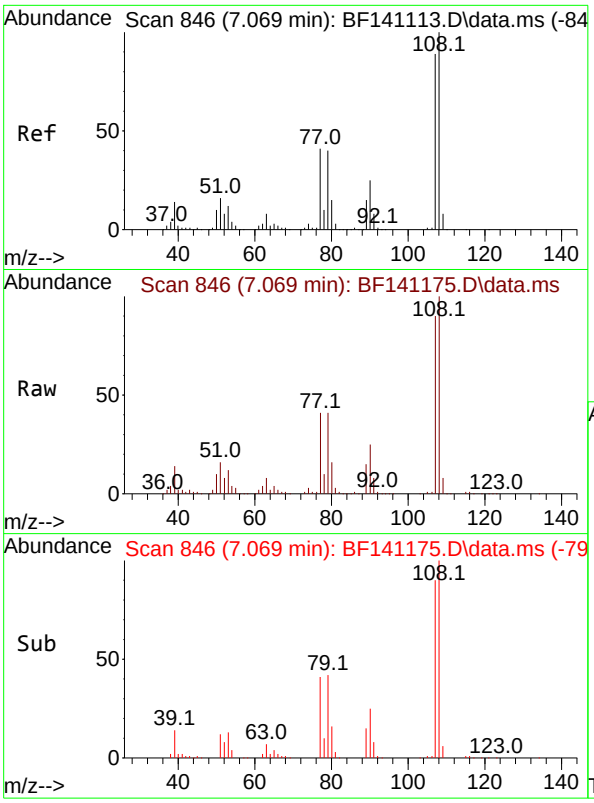


#16
2,2'-oxybis(1-Chloropropane)
Concen: 28.820 ng
RT: 7.098 min Scan# 851
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 45 Resp: 397871

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.1
79	11.6	0.0	31.0



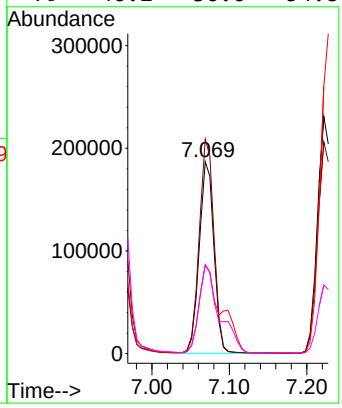


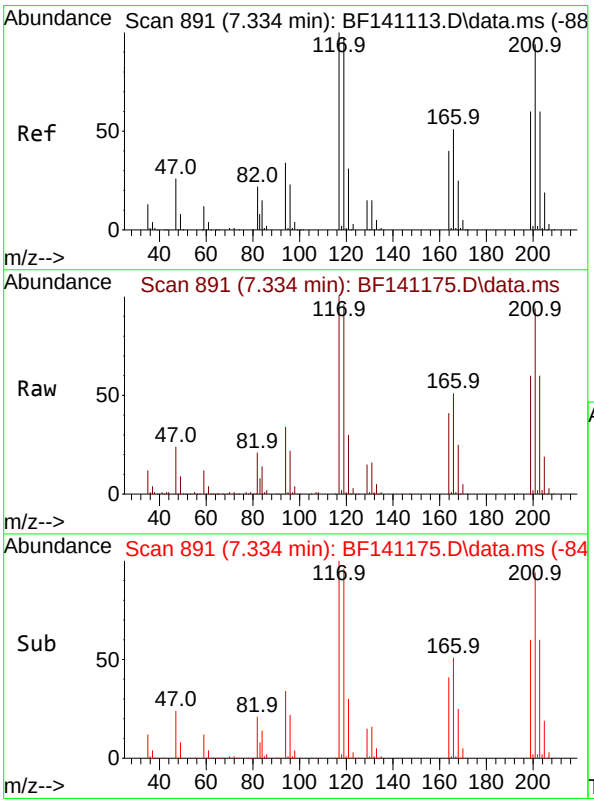
#17
2-Methylphenol
Concen: 28.967 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:107 Resp: 245642

Ion	Ratio	Lower	Upper
107	100		
108	111.7	90.1	135.1
77	46.3	36.6	55.0
79	46.2	36.6	54.8

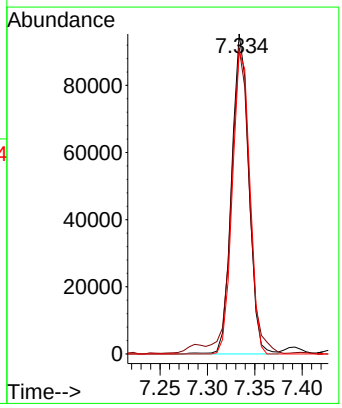


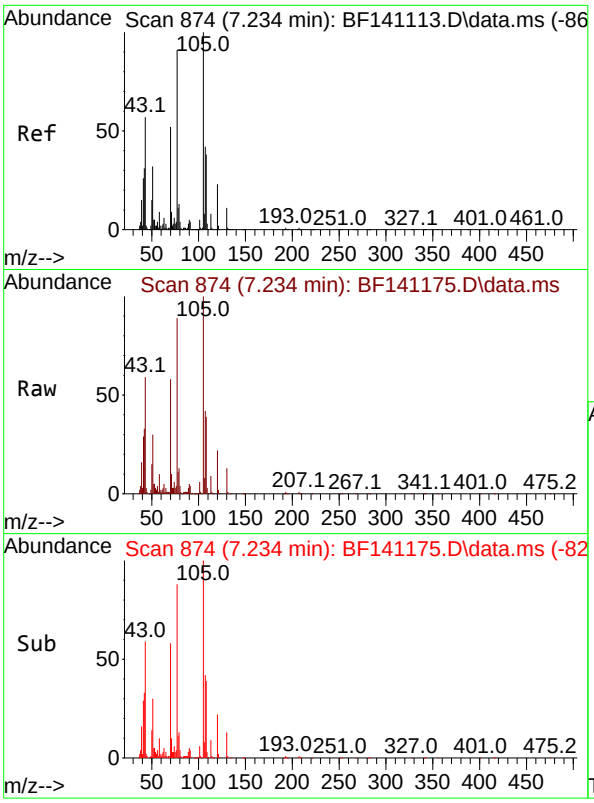


#18
Hexachloroethane
Concen: 28.192 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:117 Resp: 120353

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.6	116.4
201	94.5	75.1	112.7



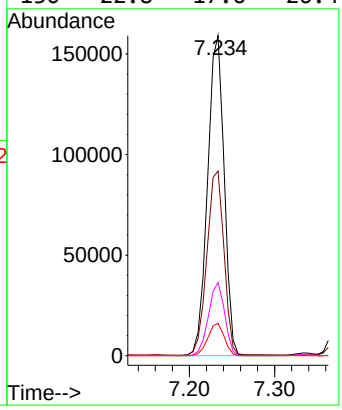


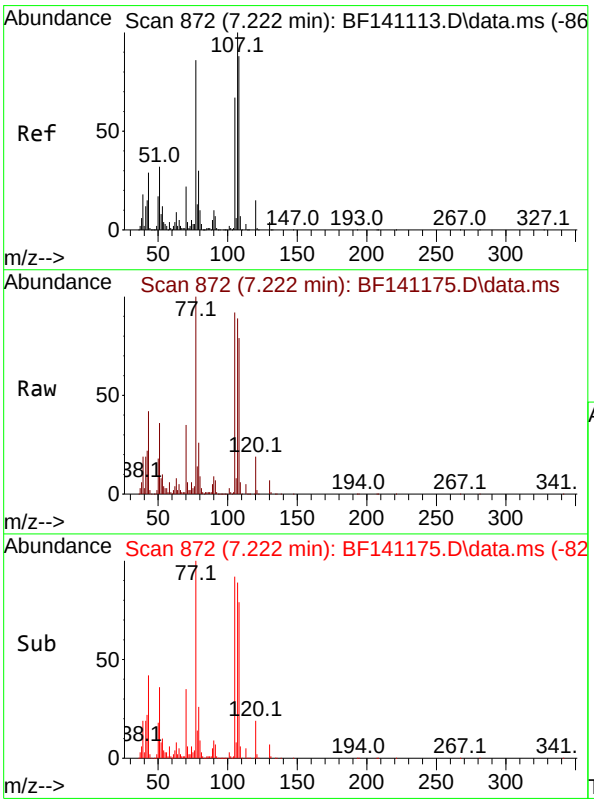
#19
n-Nitroso-di-n-propylamine
Concen: 29.523 ng
RT: 7.234 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 70 Resp: 215674

Ion	Ratio	Lower	Upper
70	100		
42	57.7	47.8	71.6
101	10.1	7.9	11.9
130	22.8	17.6	26.4

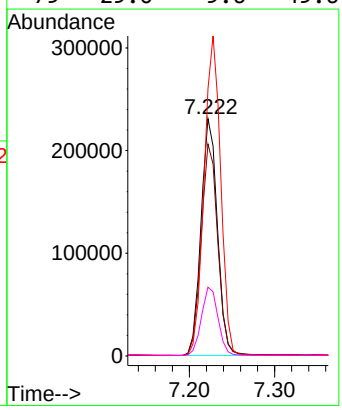


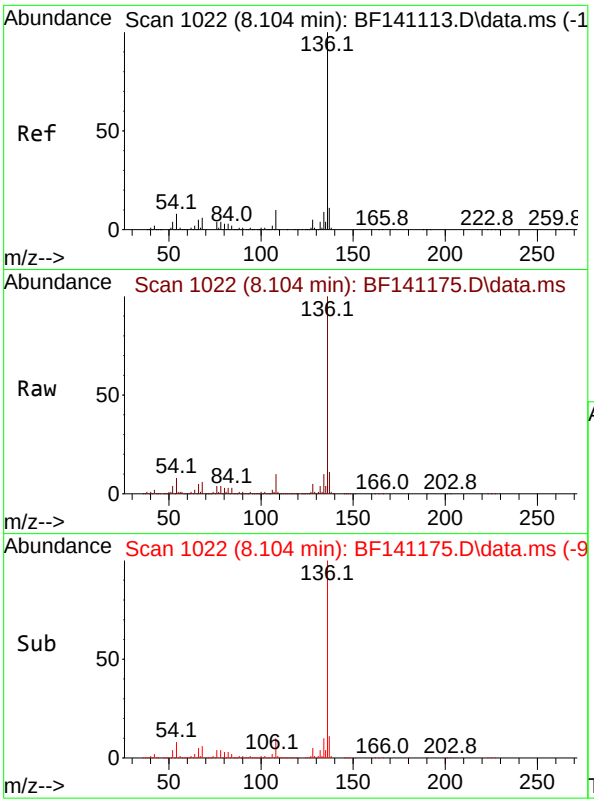


#20
3+4-Methylphenols
Concen: 28.906 ng
RT: 7.222 min Scan# 872
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:107 Resp: 309253

Ion	Ratio	Lower	Upper
107	100		
108	89.3	68.3	108.3
77	112.6	66.4	106.4#
79	29.0	9.6	49.6



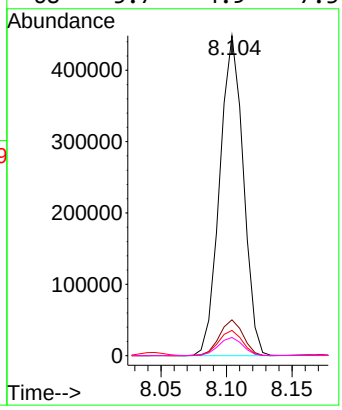


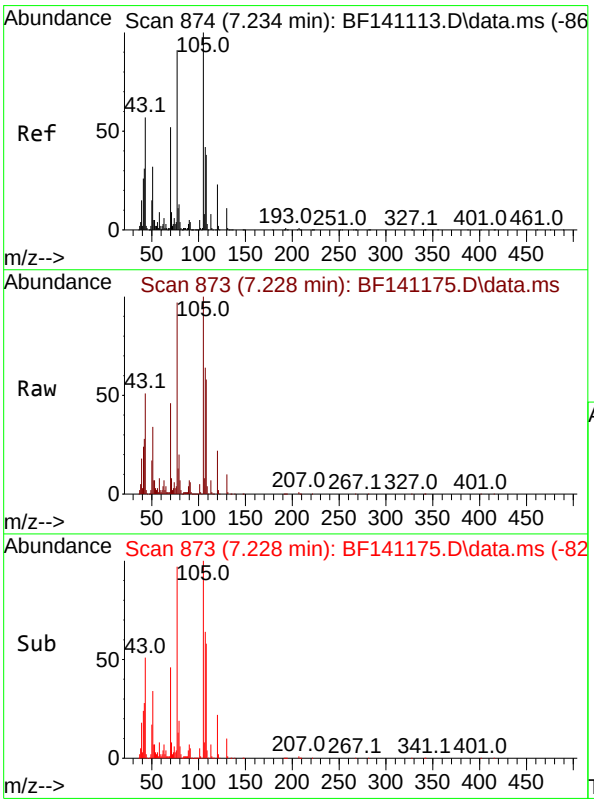
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:136 Resp: 561441

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	7.9	6.3	9.5
68	5.7	4.9	7.3

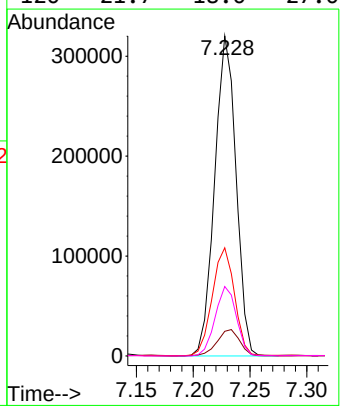


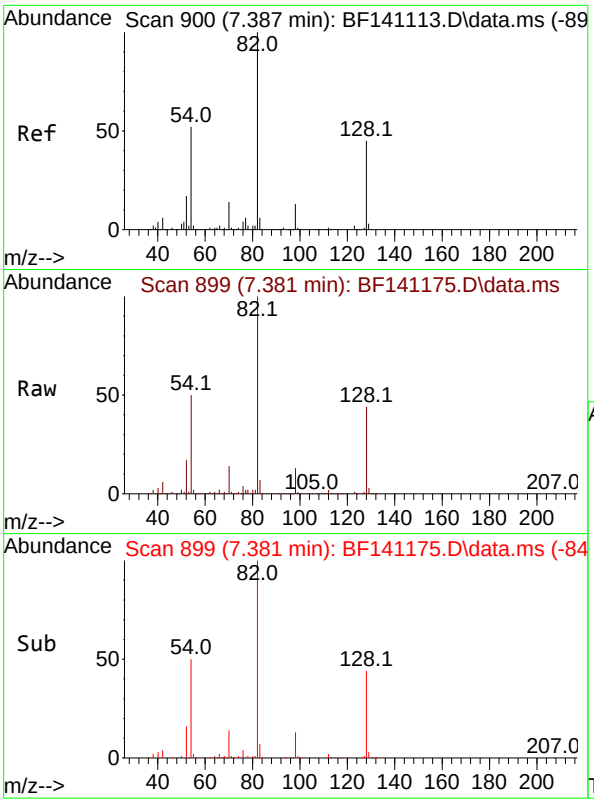


#22
Acetophenone
Concen: 31.465 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:105 Resp: 419952

Ion	Ratio	Lower	Upper
105	100		
71	7.7	7.1	10.7
51	33.8	25.4	38.2
120	21.7	18.0	27.0



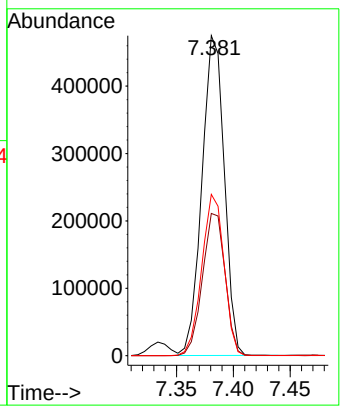


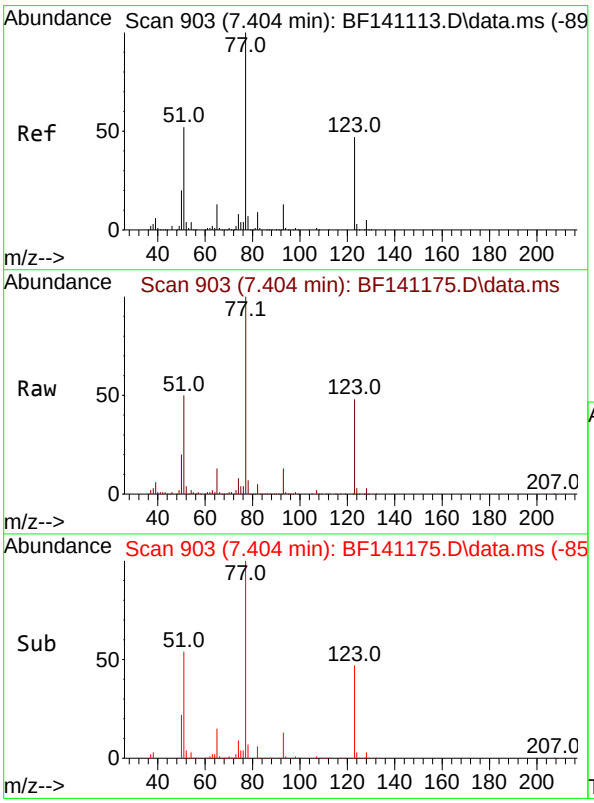
#23
Nitrobenzene-d5
Concen: 61.362 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 82 Resp: 649918

Ion	Ratio	Lower	Upper
82	100		
128	44.4	36.1	54.1
54	50.4	41.0	61.4

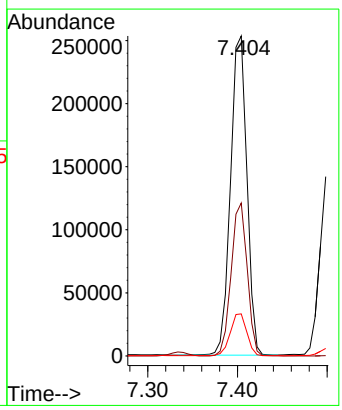


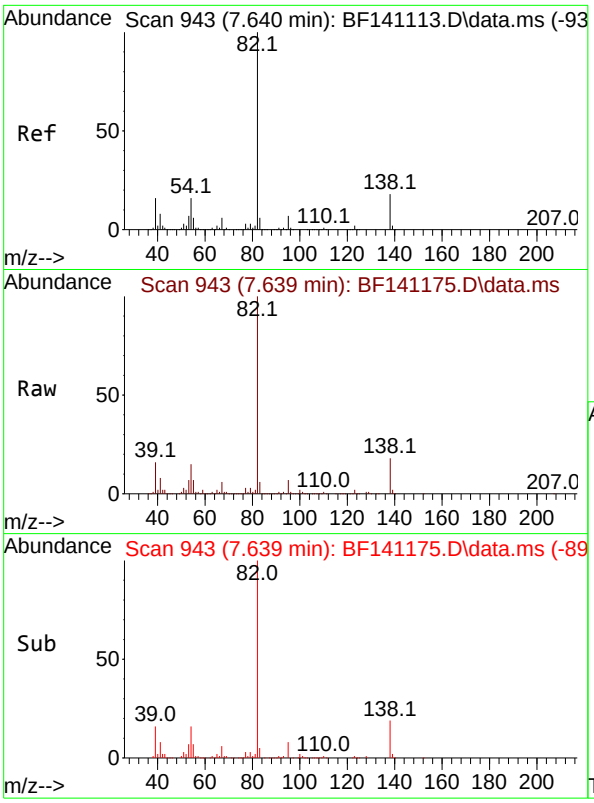


#24
Nitrobenzene
Concen: 29.046 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 77 Resp: 320631

Ion	Ratio	Lower	Upper
77	100		
123	47.8	37.7	56.5
65	13.2	10.6	16.0



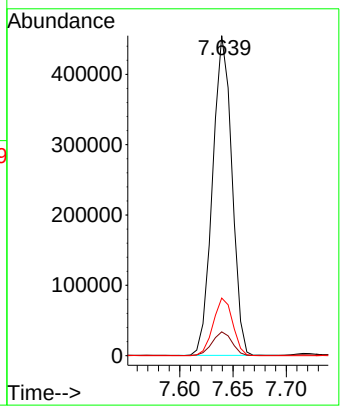


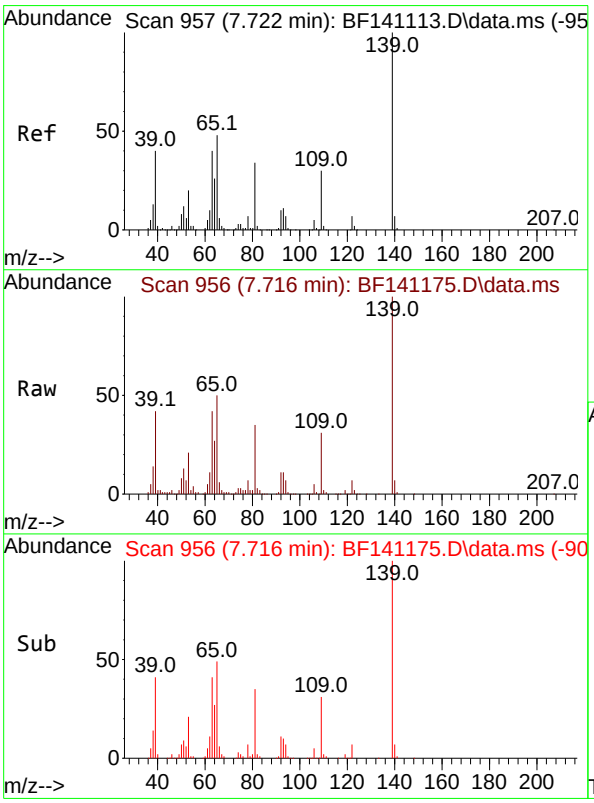
#25
Isophorone
Concen: 31.712 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 82 Resp: 574003

Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.9	8.9
138	18.0	14.2	21.2

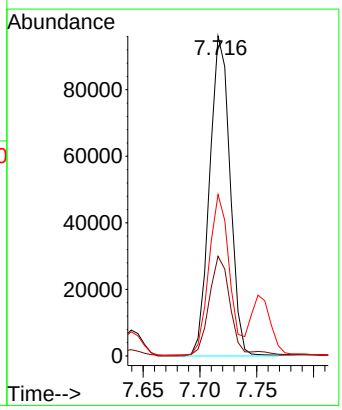


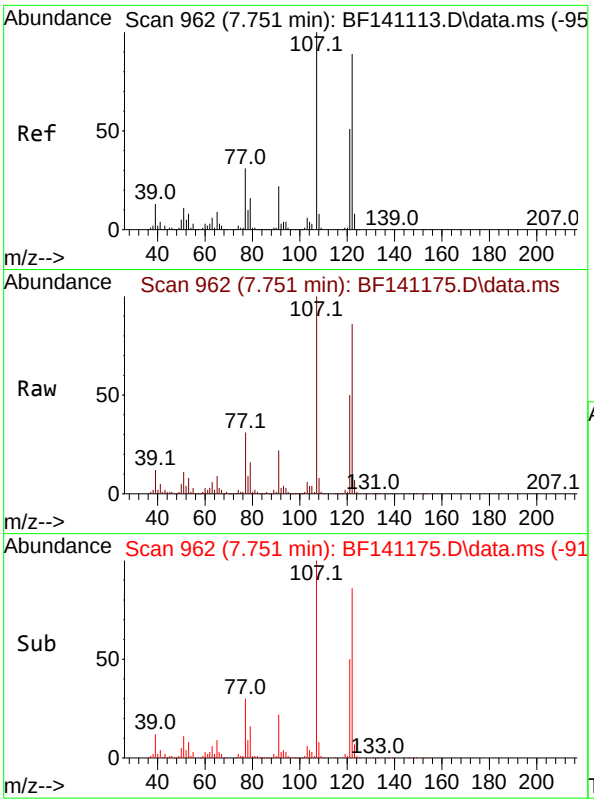


#26
2-Nitrophenol
Concen: 23.977 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:139 Resp: 120397

Ion	Ratio	Lower	Upper
139	100		
109	31.2	23.8	35.6
65	50.5	38.5	57.7



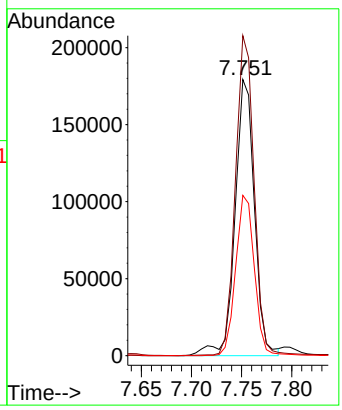


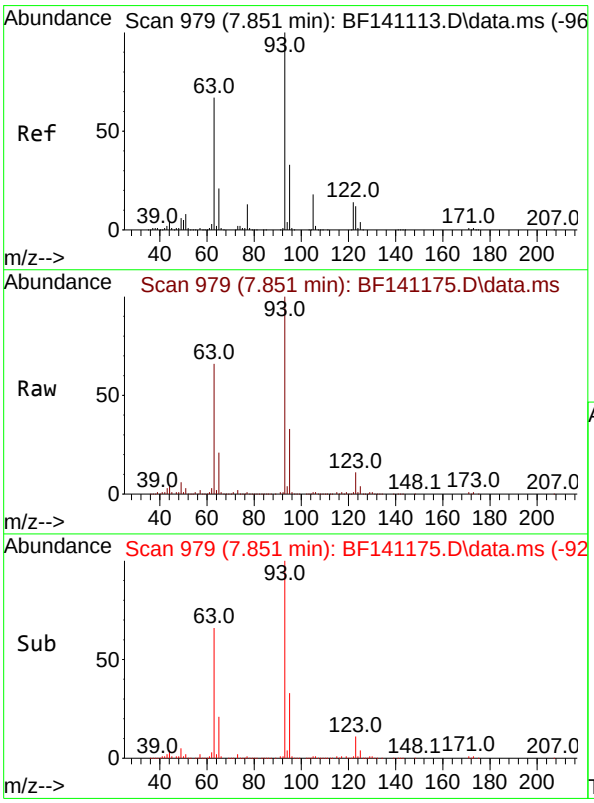
#27
2,4-Dimethylphenol
Concen: 35.728 ng
RT: 7.751 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:122 Resp: 241988

Ion	Ratio	Lower	Upper
122	100		
107	115.9	90.3	135.5
121	58.1	46.5	69.7

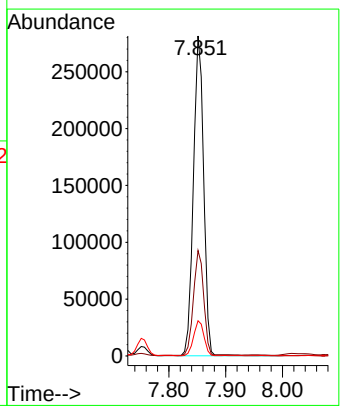


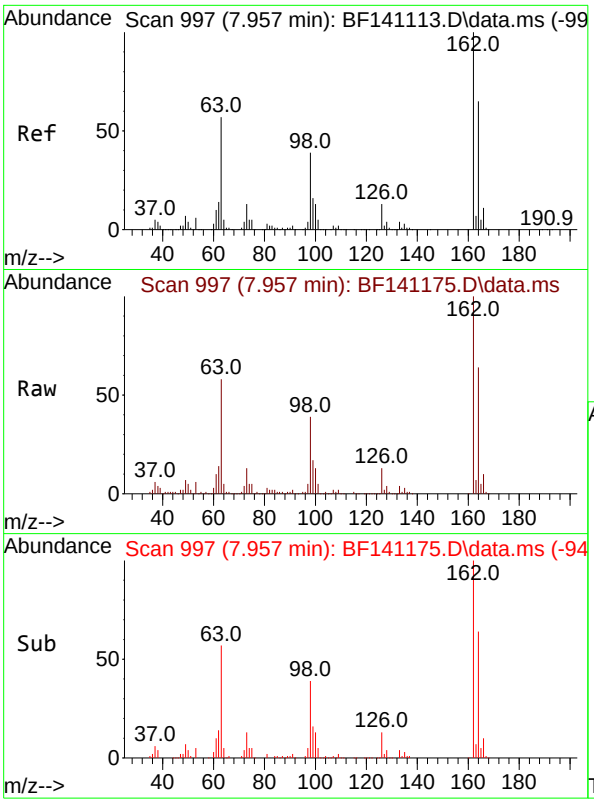


#28
bis(2-Chloroethoxy)methane
Concen: 31.271 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 93 Resp: 355223

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.2	39.4
123	11.0	10.1	15.1



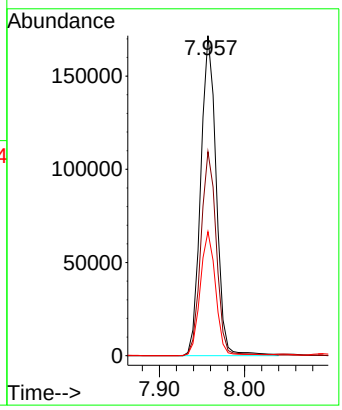


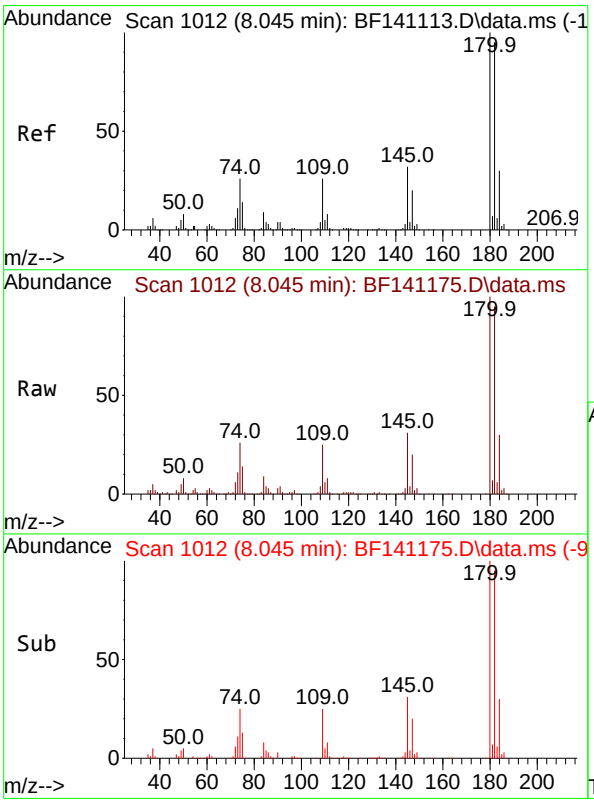
#29
2,4-Dichlorophenol
Concen: 27.047 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:162 Resp: 217566

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.5	84.5
98	38.8	18.5	58.5

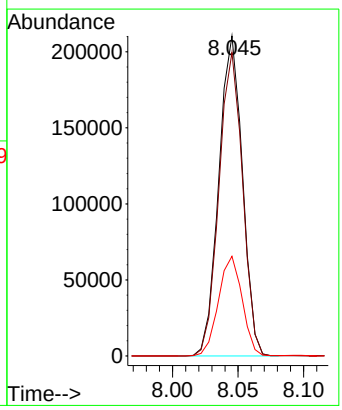


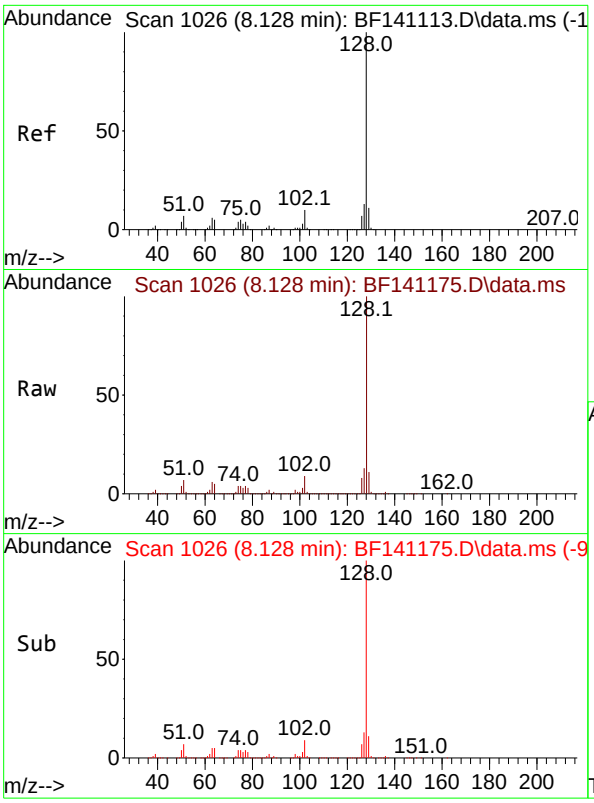


#30
1,2,4-Trichlorobenzene
Concen: 28.609 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:180 Resp: 263047

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.2	114.2
145	31.2	25.3	37.9



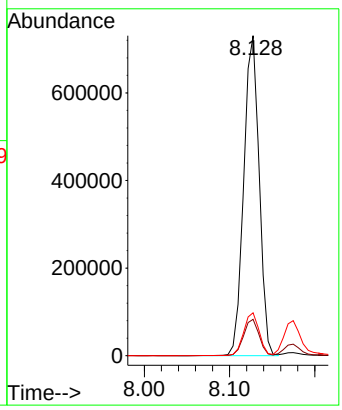


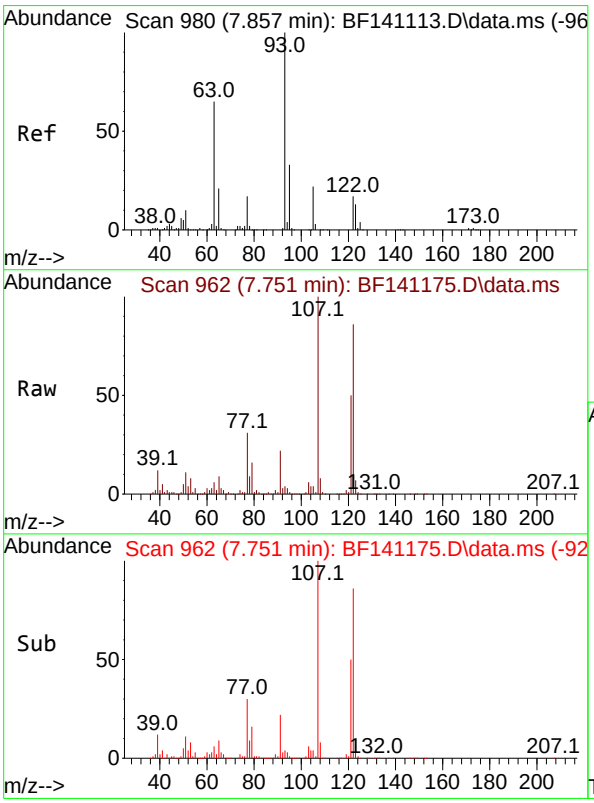
#31
Naphthalene
Concen: 31.026 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:128 Resp: 918606

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.6
127	13.4	10.8	16.2

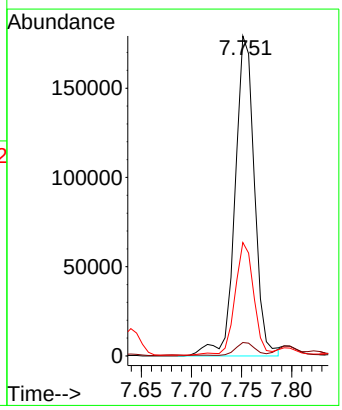


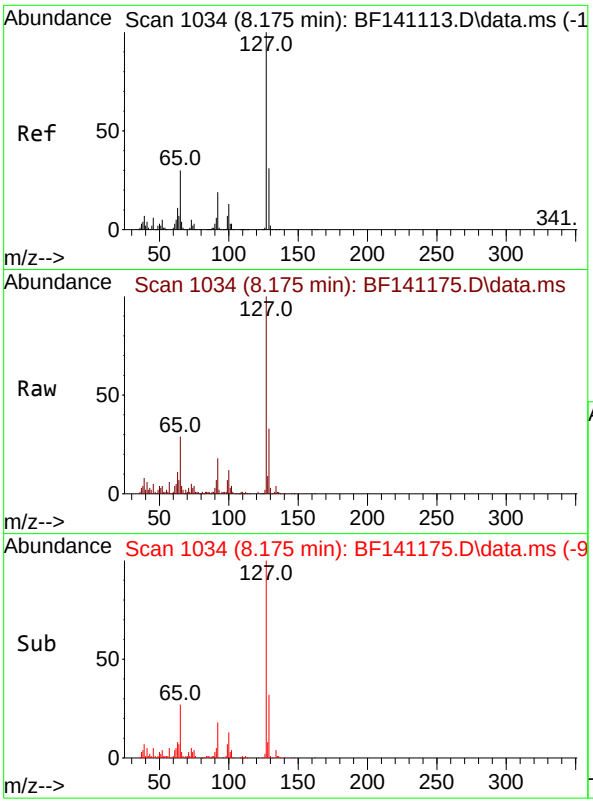


#32
Benzoic acid
Concen: 37.245 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.106 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:122 Resp: 241988

Ion	Ratio	Lower	Upper
122	100		
105	4.2	105.5	145.5#
77	35.4	75.1	115.1#



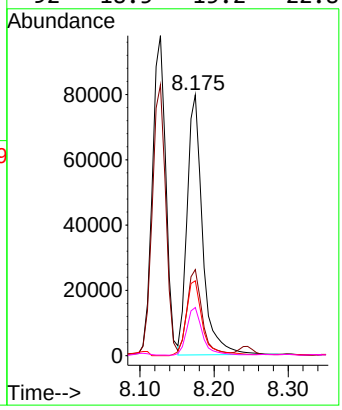


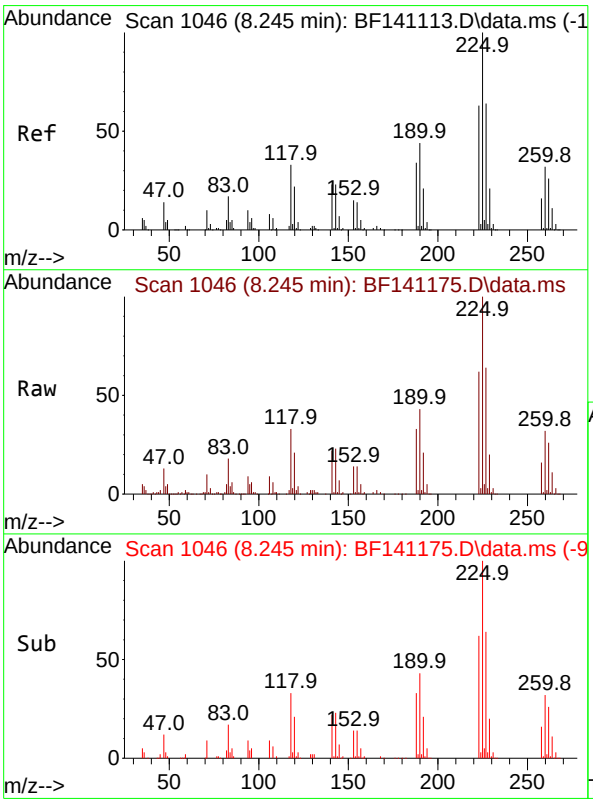
#33
4-Chloroaniline
Concen: 11.264 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:127 Resp: 115343

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.9	38.9
65	28.7	23.8	35.8
92	18.5	15.2	22.8

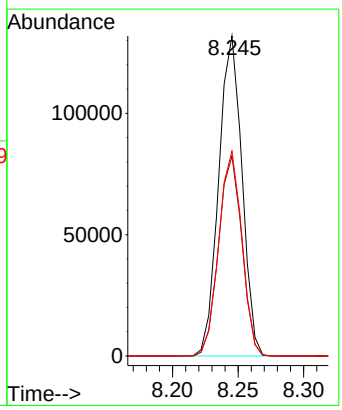


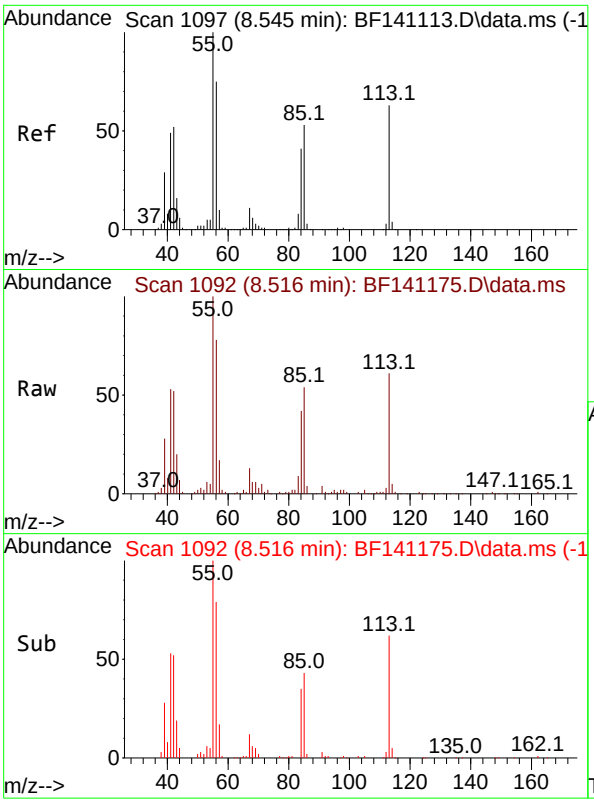


#34
Hexachlorobutadiene
Concen: 29.337 ng
RT: 8.245 min Scan# 1046
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:225 Resp: 162534

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.6	76.0
227	64.0	51.6	77.4



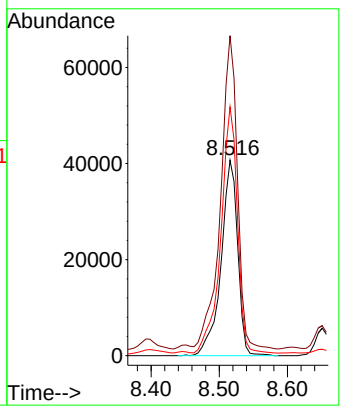


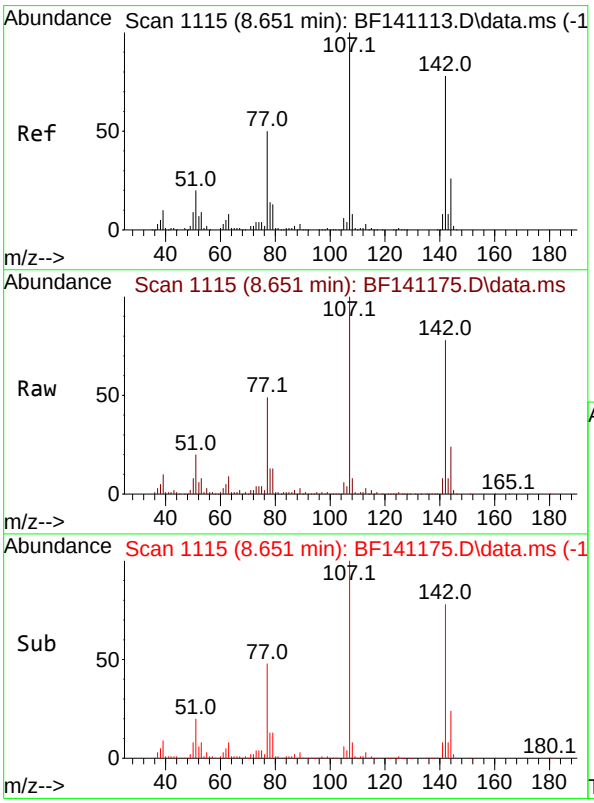
#35
Caprolactam
Concen: 26.249 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.030 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:113 Resp: 69129

Ion	Ratio	Lower	Upper
113	100		
55	163.8	139.7	179.7
56	127.3	99.4	139.4

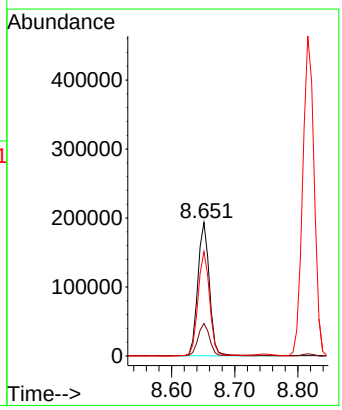


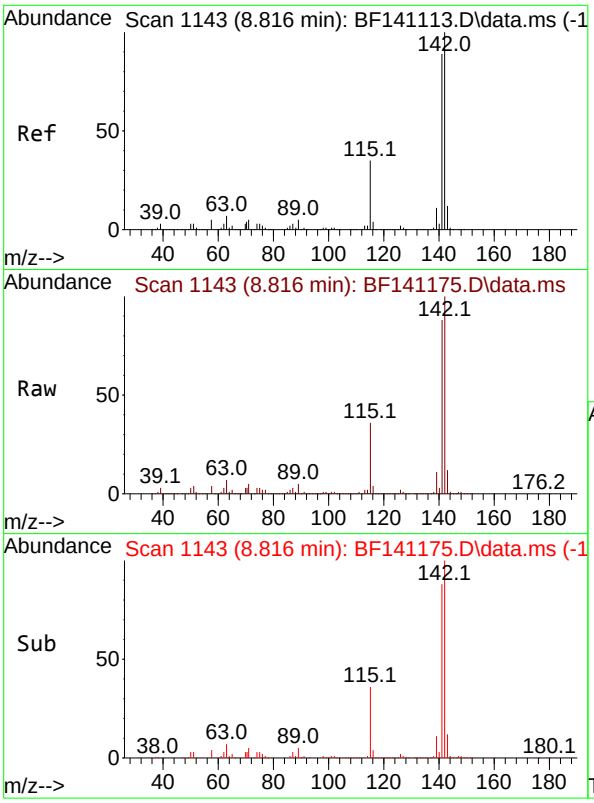


#36
4-Chloro-3-methylphenol
Concen: 28.059 ng
RT: 8.651 min Scan# 1115
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:107 Resp: 246845

Ion	Ratio	Lower	Upper
107	100		
144	24.4	20.4	30.6
142	78.2	62.2	93.2



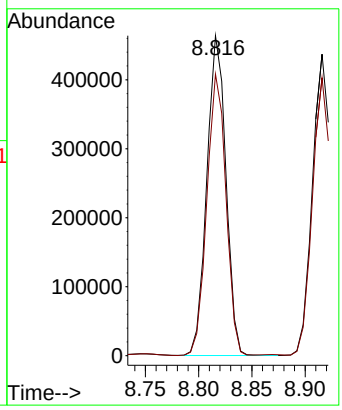


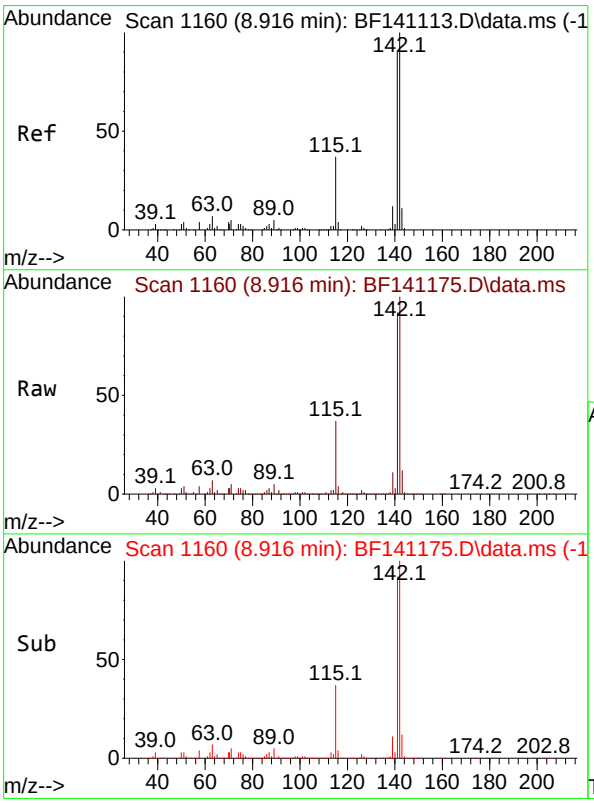
#37
2-Methylnaphthalene
Concen: 30.662 ng
RT: 8.816 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:142 Resp: 578514

Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.3	106.9

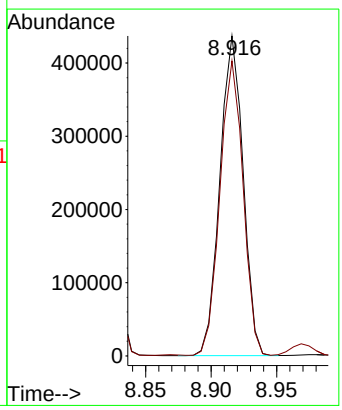


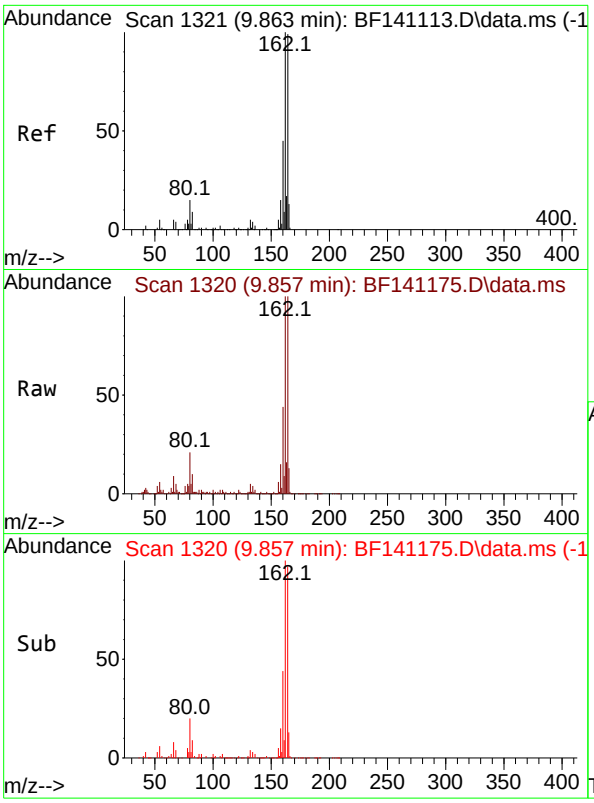


#38
1-Methylnaphthalene
Concen: 28.874 ng
RT: 8.916 min Scan# 1160
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:142 Resp: 536900

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.1	109.7



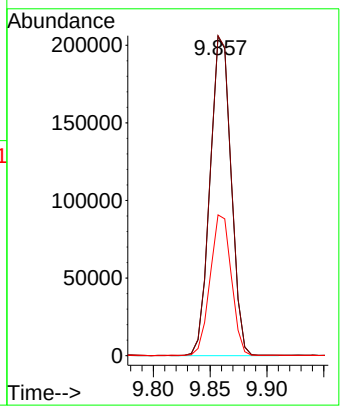


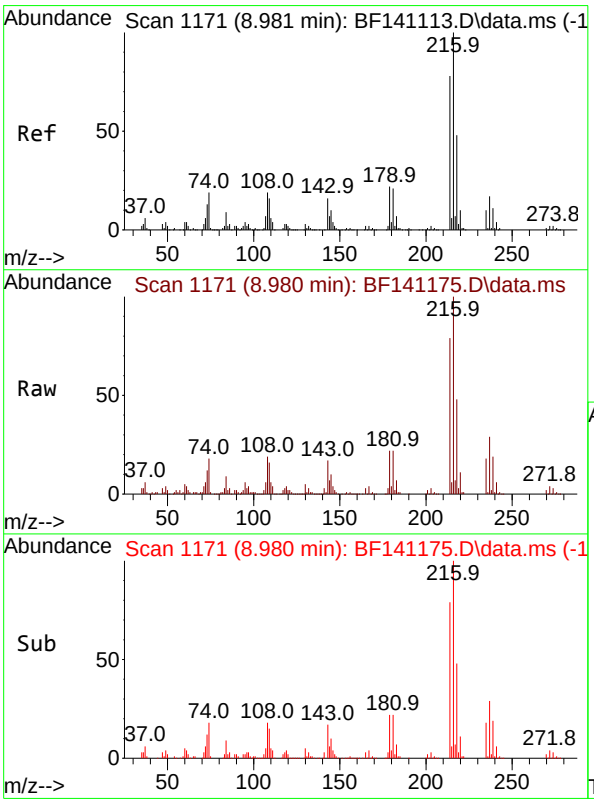
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:164 Resp: 265282

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.4
160	44.1	36.1	54.1

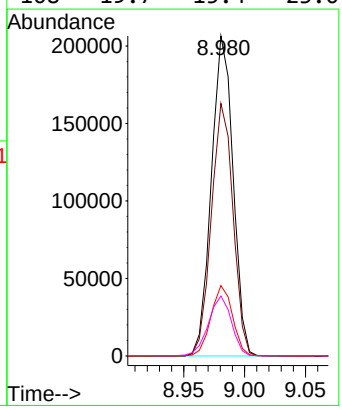


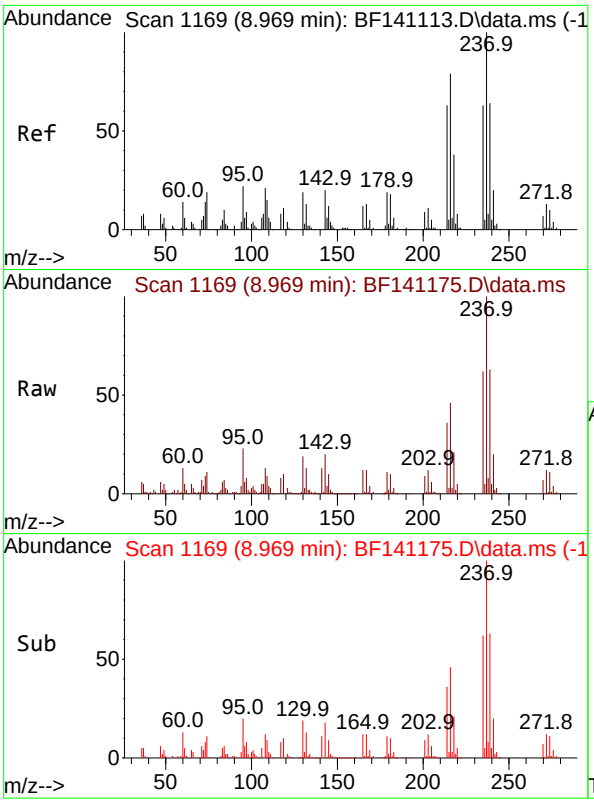


#40
1,2,4,5-Tetrachlorobenzene
Concen: 33.573 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:216 Resp: 255628

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.6	94.0
179	21.7	17.7	26.5
108	19.7	15.4	23.0



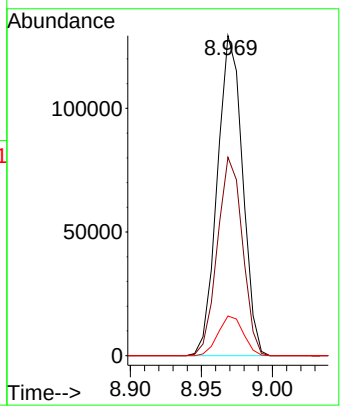


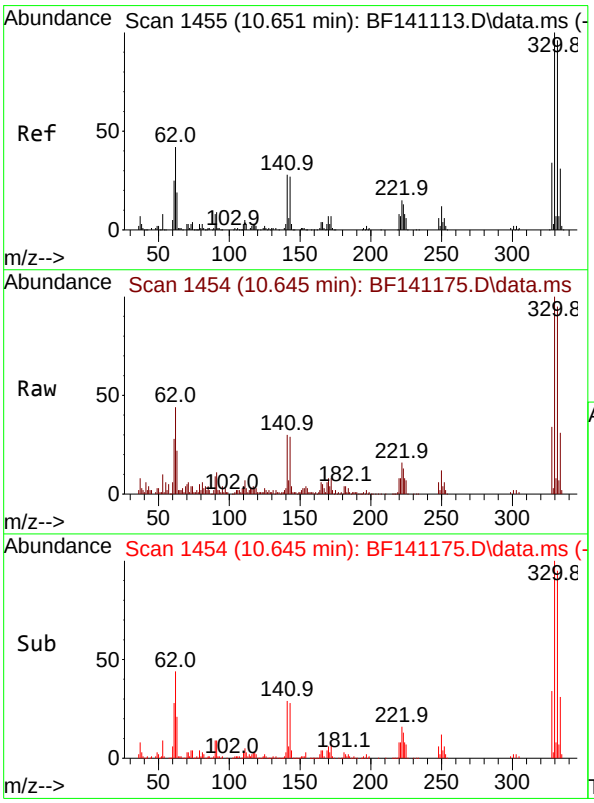
#41
Hexachlorocyclopentadiene
Concen: 64.166 ng
RT: 8.969 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:237 Resp: 159842

Ion	Ratio	Lower	Upper
237	100		
235	62.0	43.0	83.0
272	12.4	0.0	33.0

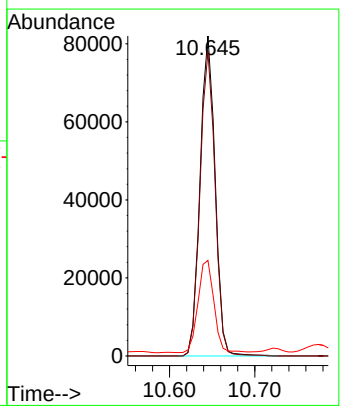


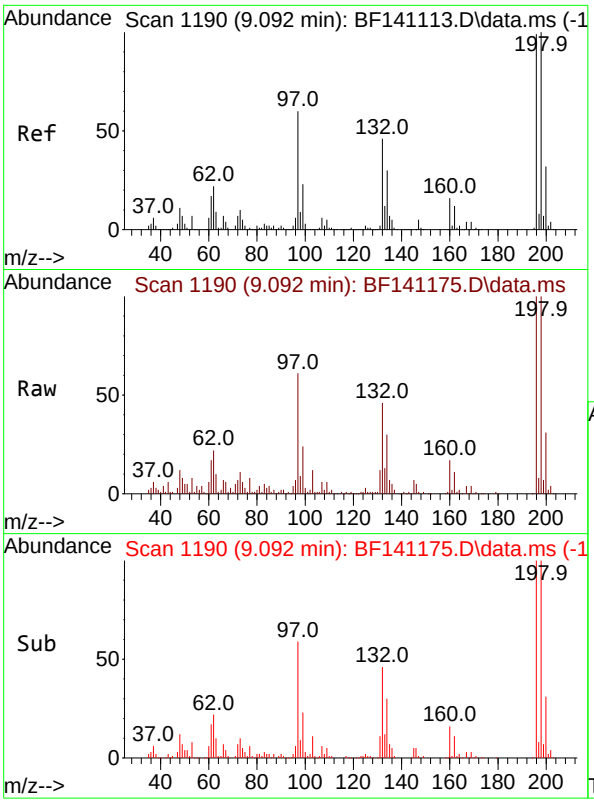


#42
2,4,6-Tribromophenol
Concen: 33.339 ng
RT: 10.645 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:330 Resp: 100774

Ion	Ratio	Lower	Upper
330	100		
332	94.9	76.9	115.3
141	30.3	25.2	37.8



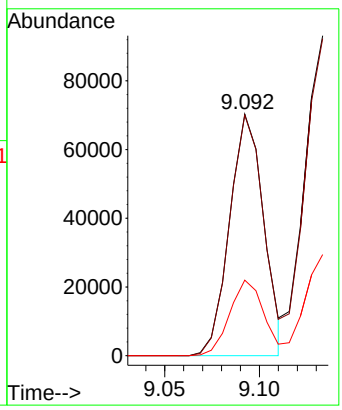


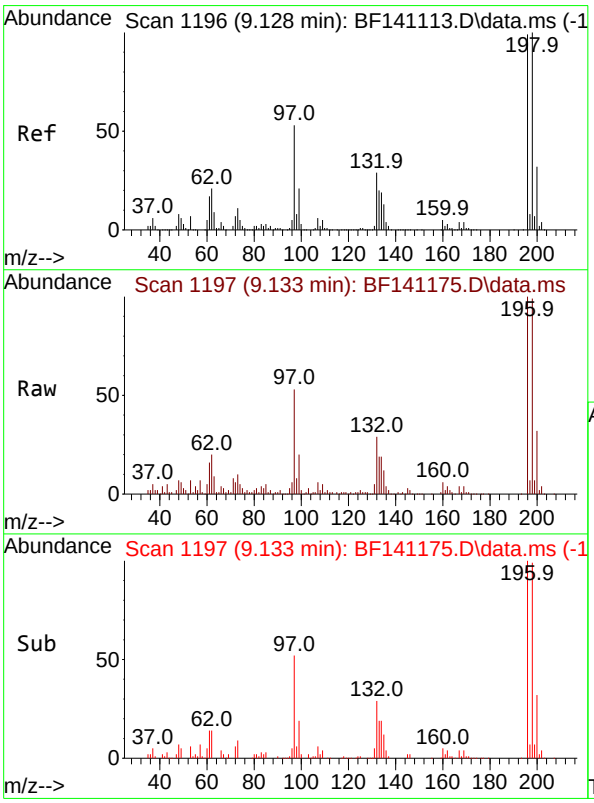
#43
2,4,6-Trichlorophenol
Concen: 17.169 ng
RT: 9.092 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:196 Resp: 88165

Ion	Ratio	Lower	Upper
196	100		
198	99.5	80.8	121.2
200	31.3	25.7	38.5

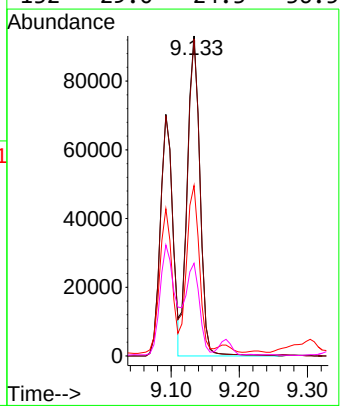


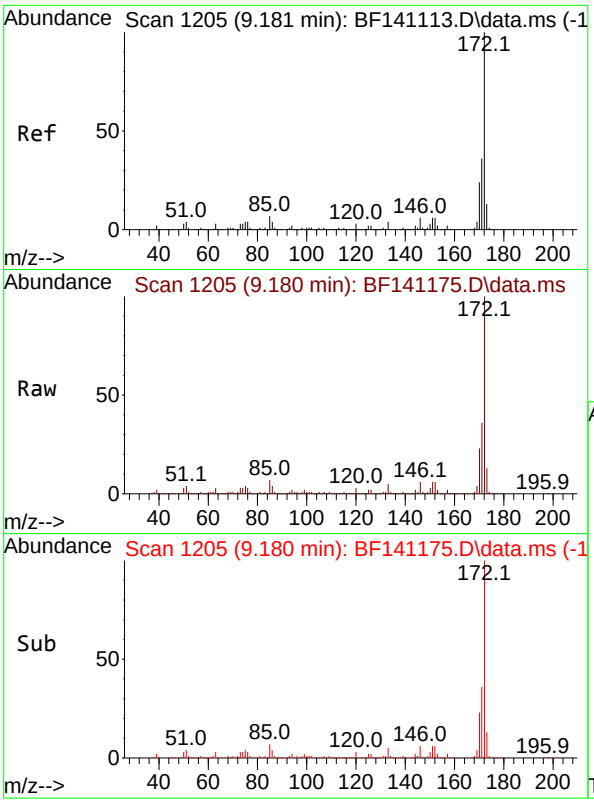


#44
2,4,5-Trichlorophenol
Concen: 22.032 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:196 Resp: 119487

Ion	Ratio	Lower	Upper
196	100		
198	99.1	80.6	120.8
97	53.3	43.1	64.7
132	29.0	24.3	36.5



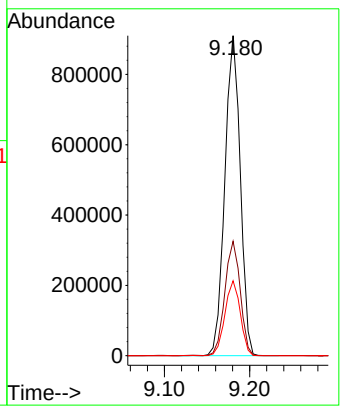


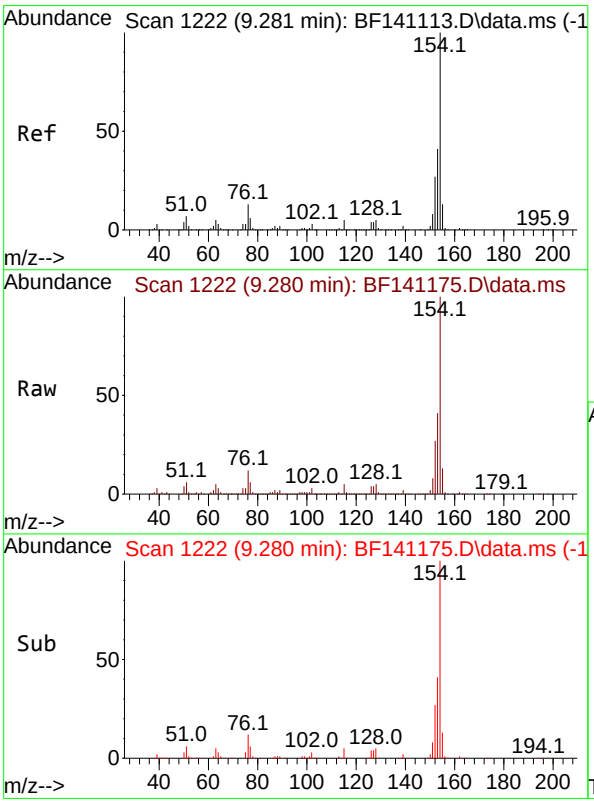
#45
2-Fluorobiphenyl
Concen: 65.849 ng
RT: 9.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:172 Resp: 1143953

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.4	19.0	28.6

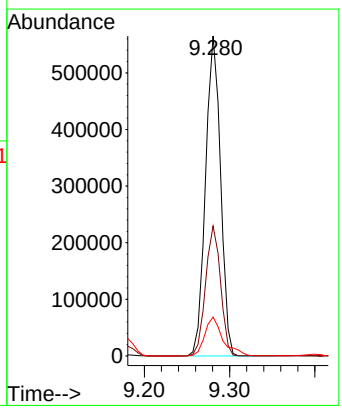


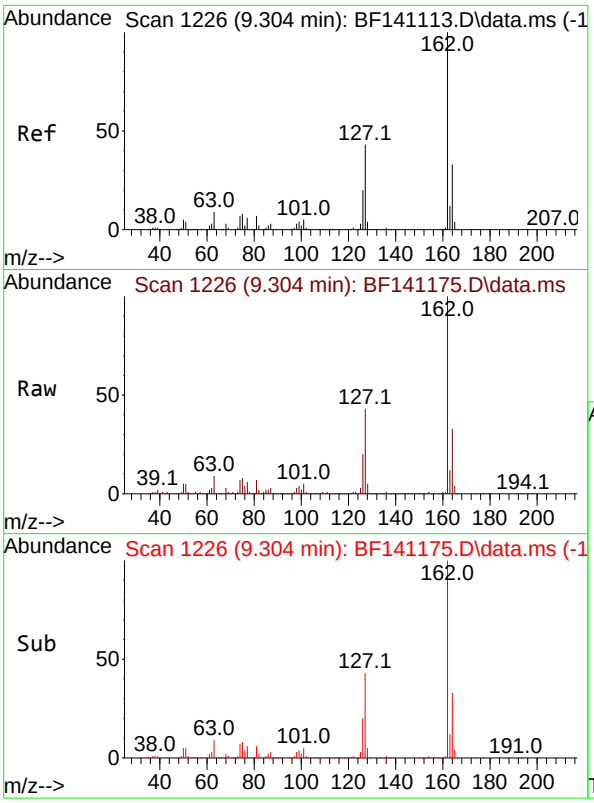


#46
1,1'-Biphenyl
Concen: 33.515 ng
RT: 9.280 min Scan# 1222
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:154 Resp: 690480

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.7	60.7
76	12.1	0.0	33.1



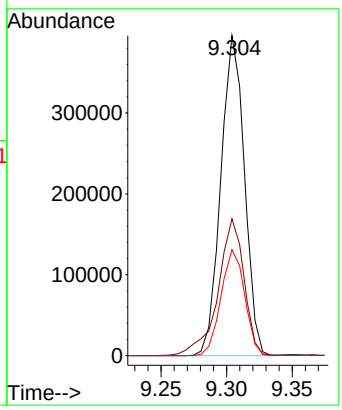


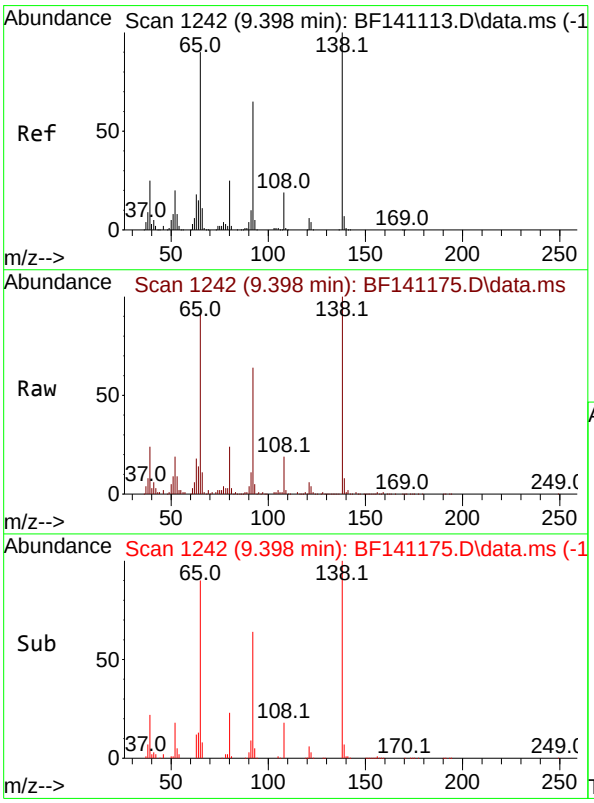
#47
2-Chloronaphthalene
Concen: 30.895 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:162 Resp: 495753

Ion	Ratio	Lower	Upper
162	100		
127	42.7	34.6	51.8
164	33.1	26.5	39.7

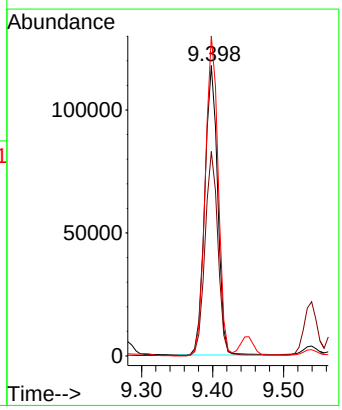


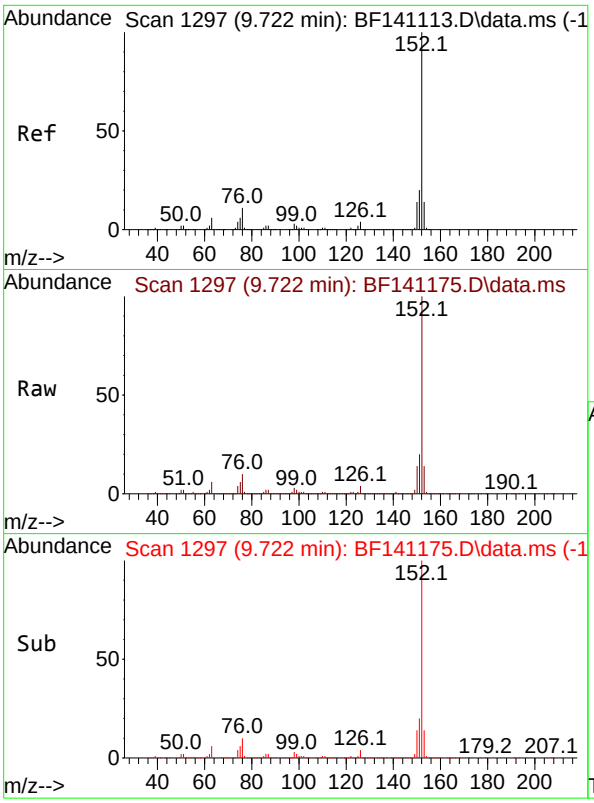


#48
2-Nitroaniline
Concen: 31.408 ng
RT: 9.398 min Scan# 1242
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion: 65 Resp: 149394

Ion	Ratio	Lower	Upper
65	100		
92	70.4	58.3	87.5
138	110.2	89.1	133.7



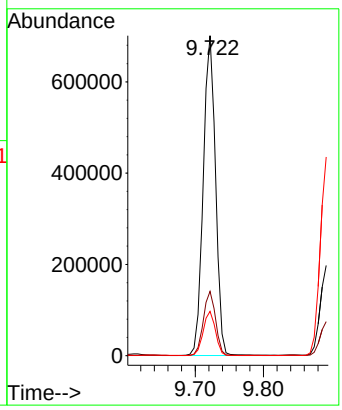


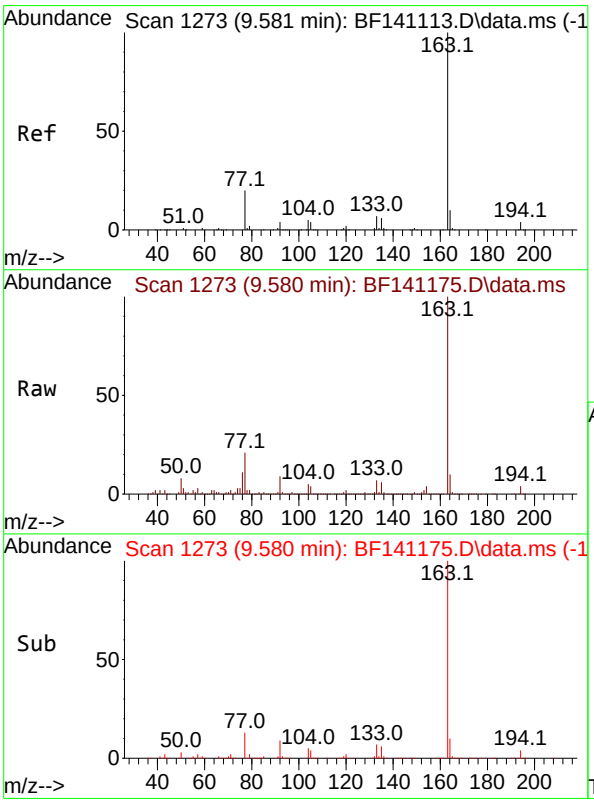
#49
Acenaphthylene
Concen: 38.283 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:152 Resp: 877645

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.9	11.1	16.7

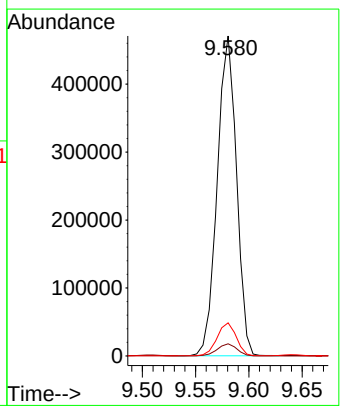


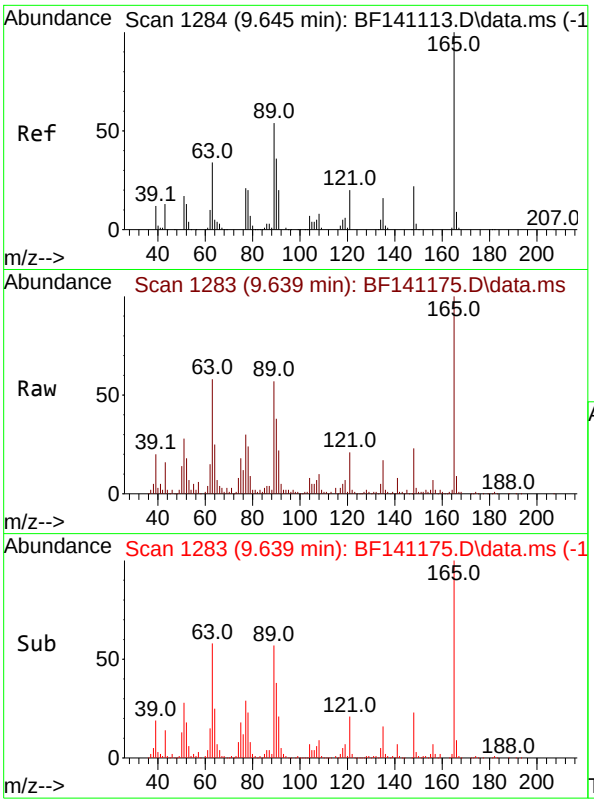


#50
Dimethylphthalate
Concen: 33.137 ng
RT: 9.580 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:163 Resp: 590143

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.2	12.4



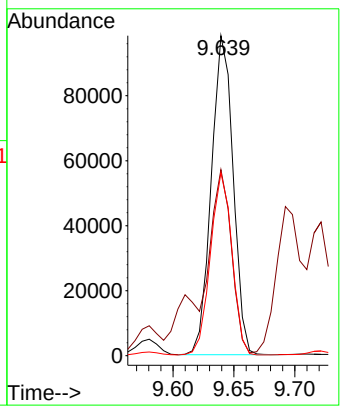


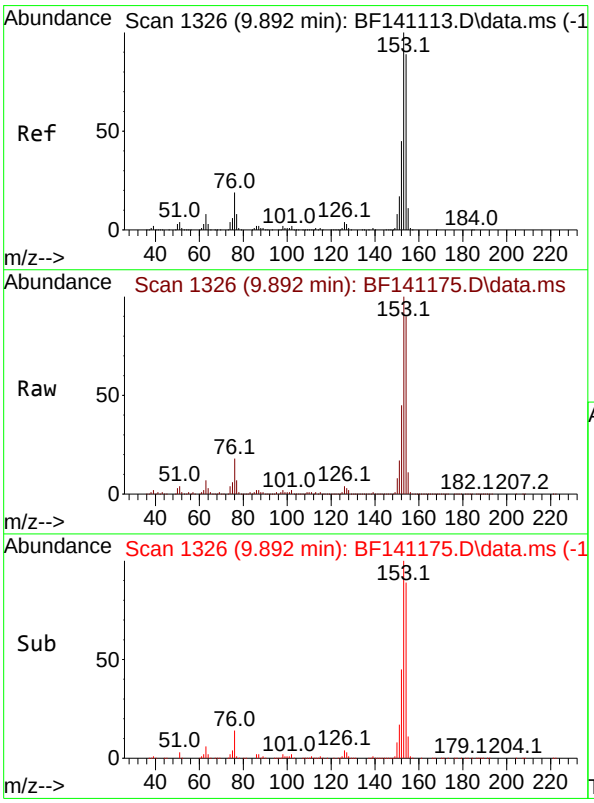
#51
2,6-Dinitrotoluene
Concen: 29.528 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:165 Resp: 122290

Ion	Ratio	Lower	Upper
165	100		
63	58.1	42.3	63.5
89	57.1	43.1	64.7

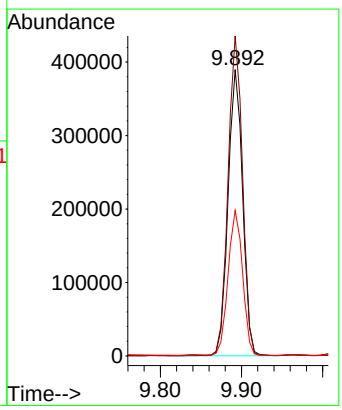


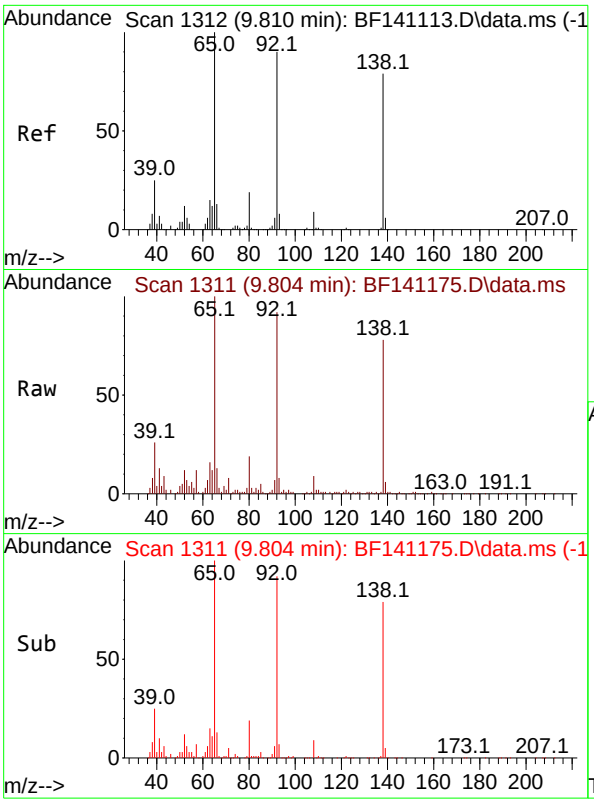


#52
Acenaphthene
Concen: 30.298 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:154 Resp: 485274

Ion	Ratio	Lower	Upper
154	100		
153	111.7	89.8	134.6
152	50.8	40.8	61.2



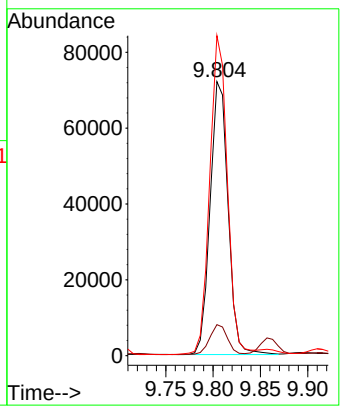


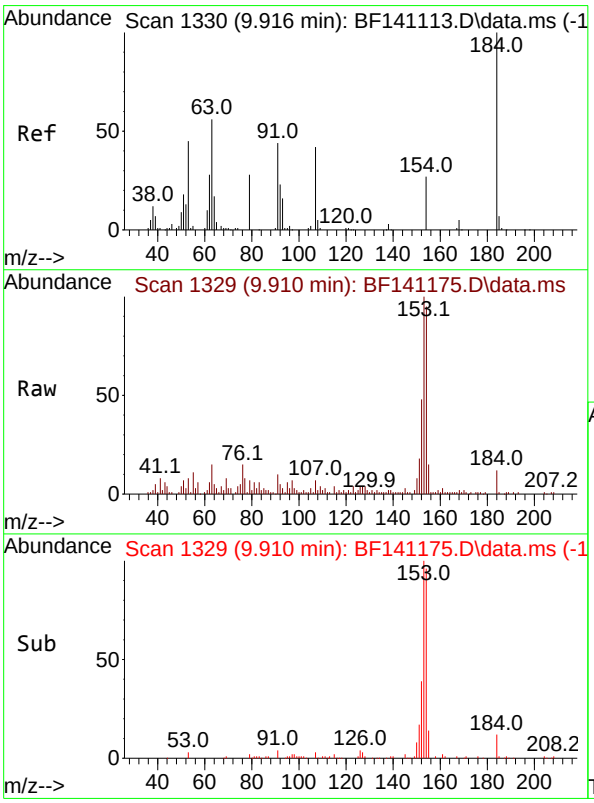
#53
3-Nitroaniline
Concen: 22.559 ng
RT: 9.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:138 Resp: 94941

Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.8	13.2
92	116.8	91.3	136.9

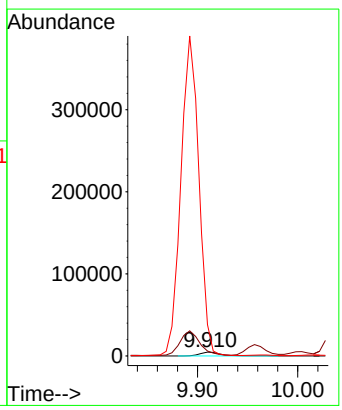


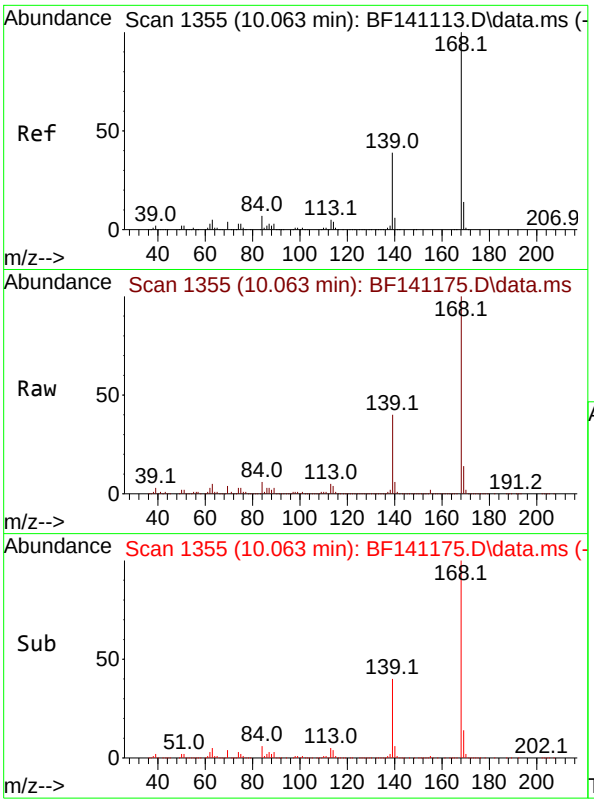


#54
2,4-Dinitrophenol
Concen: 3.440 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:184 Resp: 6772

Ion	Ratio	Lower	Upper
184	100		
63	130.6	48.7	73.1#
154	828.4	57.1	85.7#



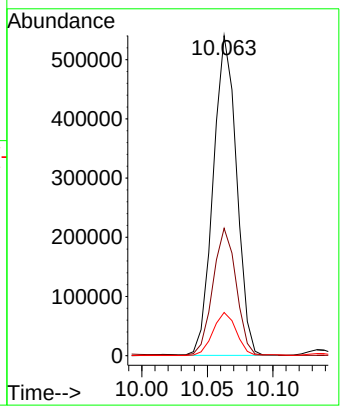


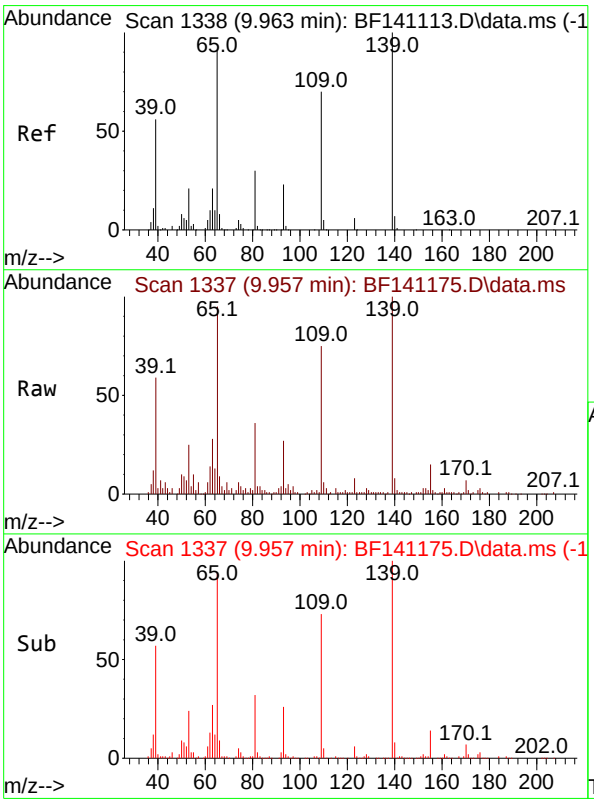
#55
Dibenzofuran
Concen: 30.632 ng
RT: 10.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:168 Resp: 667349

Ion	Ratio	Lower	Upper
168	100		
139	39.8	31.4	47.0
169	13.5	10.9	16.3

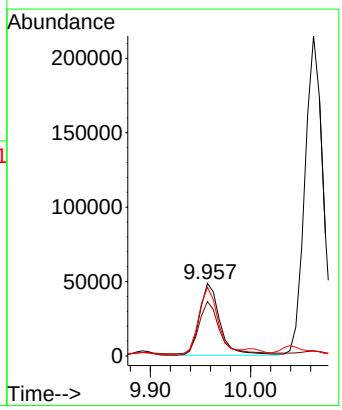


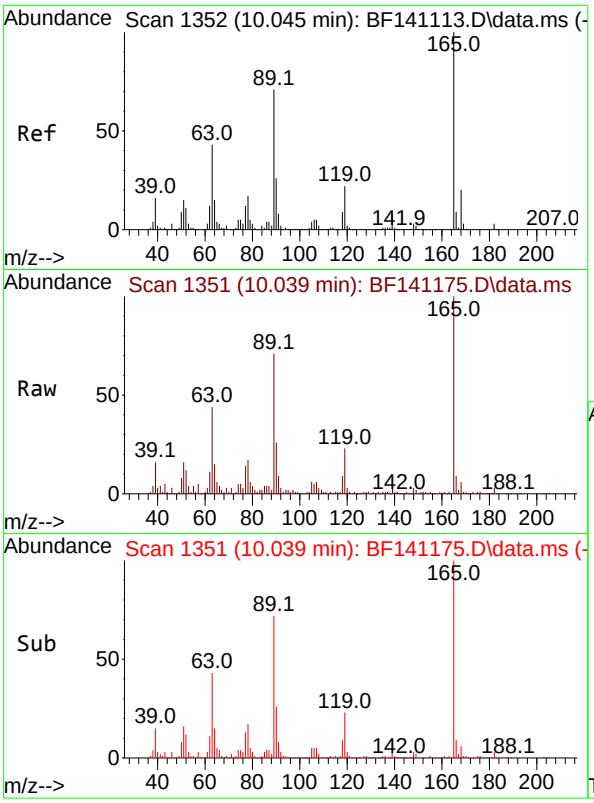


#56
4-Nitrophenol
Concen: 20.816 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:139 Resp: 68610

Ion	Ratio	Lower	Upper
139	100		
109	75.2	50.2	90.2
65	94.7	72.1	112.1



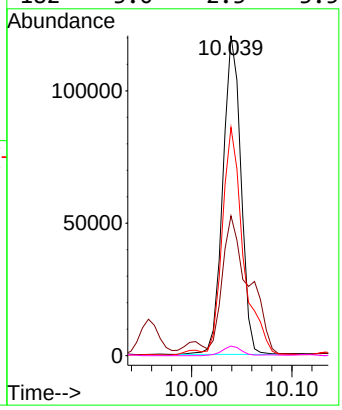


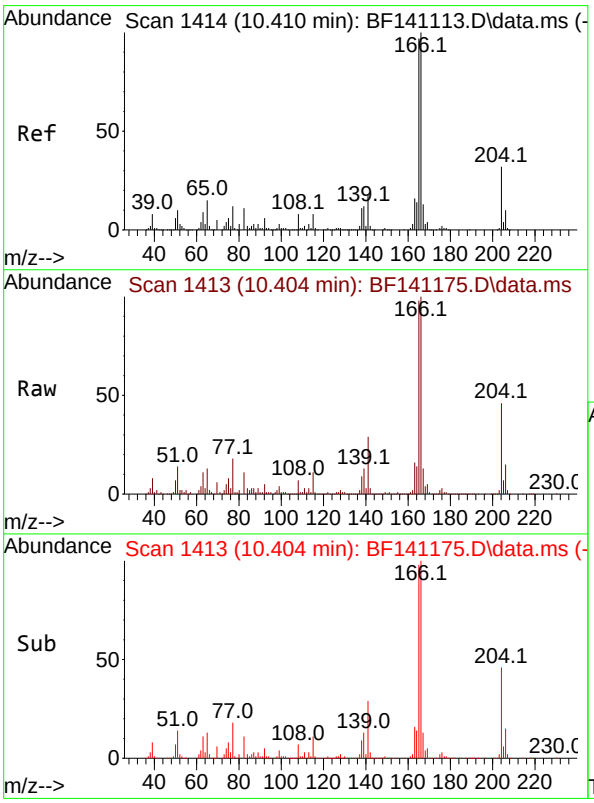
#57
2,4-Dinitrotoluene
Concen: 28.200 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:165 Resp: 150510

Ion	Ratio	Lower	Upper
165	100		
63	43.7	35.0	52.4
89	71.4	56.7	85.1
182	3.0	2.3	3.5

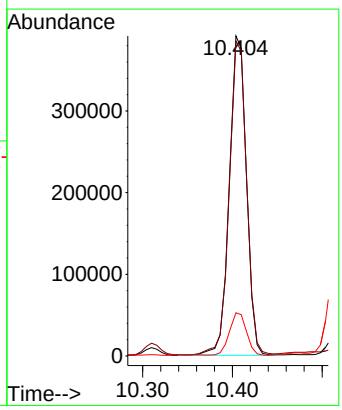


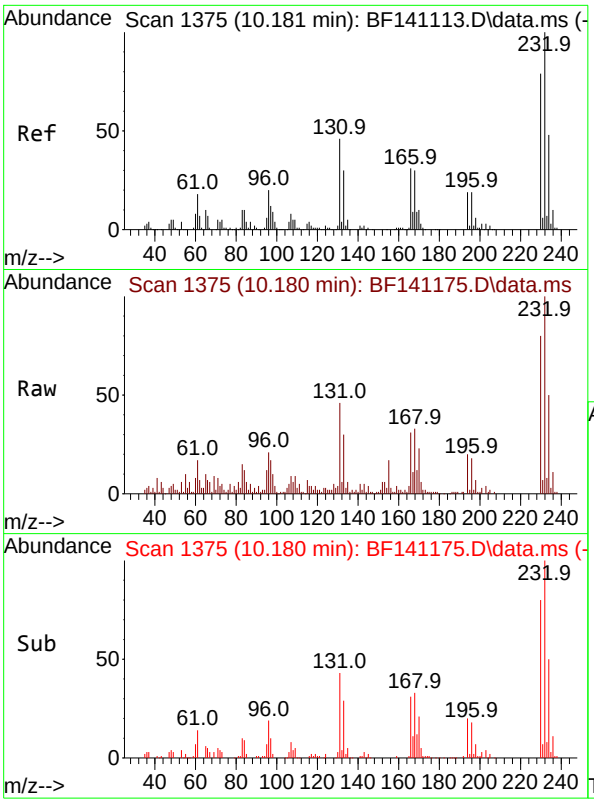


#58
Fluorene
Concen: 30.626 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:166 Resp: 518351

Ion	Ratio	Lower	Upper
166	100		
165	98.4	77.8	116.8
167	13.5	10.8	16.2



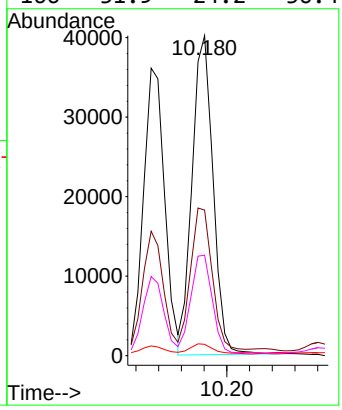


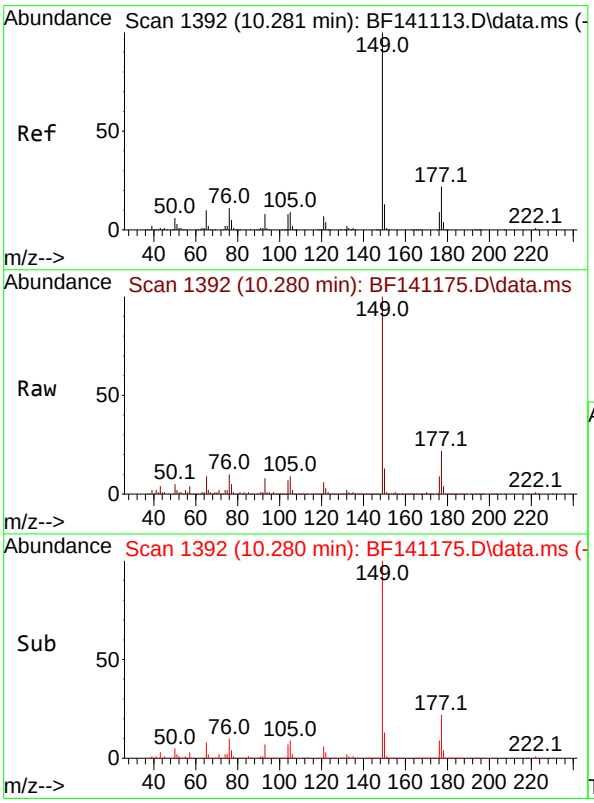
#59
2,3,4,6-Tetrachlorophenol
Concen: 11.396 ng
RT: 10.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:232 Resp: 51375

Ion	Ratio	Lower	Upper
232	100		
131	45.4	36.2	54.4
130	3.5	2.0	3.0#
166	31.9	24.2	36.4

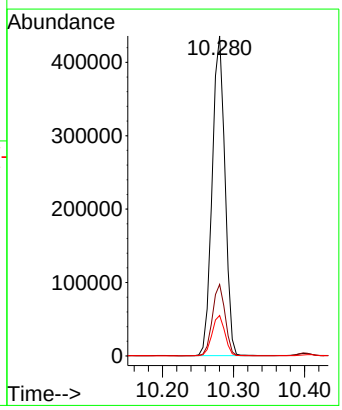


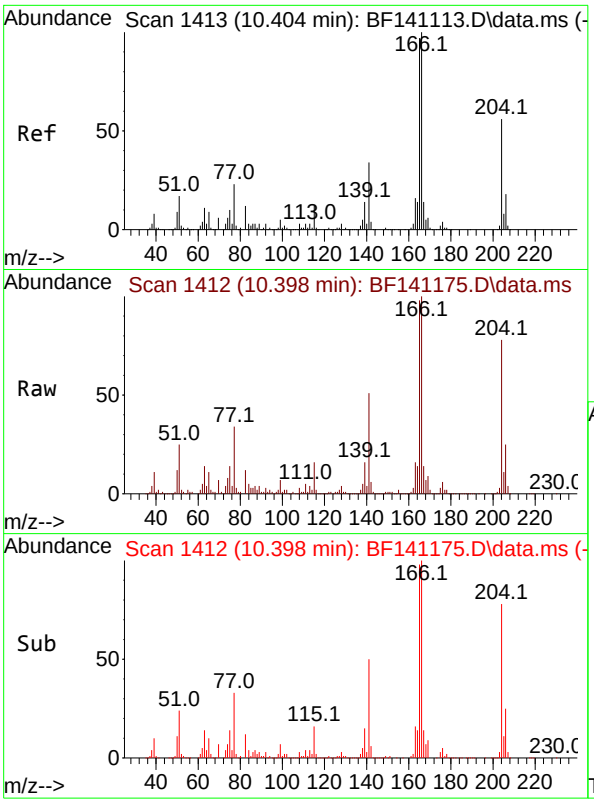


#60
Diethylphthalate
Concen: 31.282 ng
RT: 10.280 min Scan# 1392
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 543883

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.7	10.2	15.2



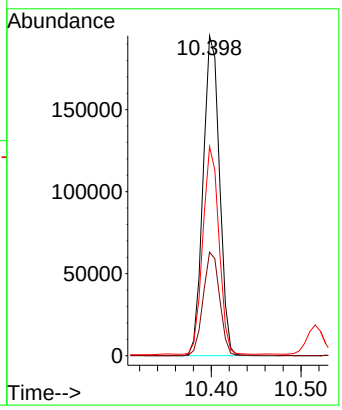


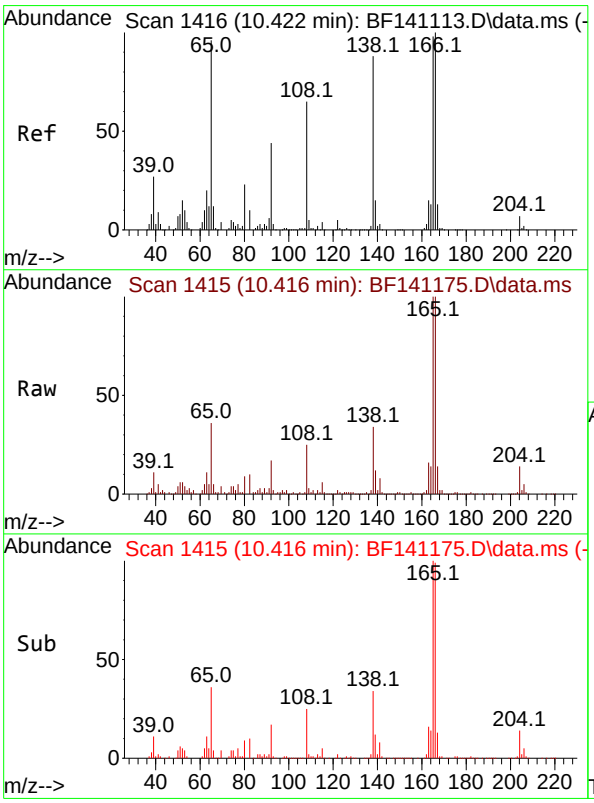
#61
4-Chlorophenyl-phenylether
Concen: 29.974 ng
RT: 10.398 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:204 Resp: 247267

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	65.3	49.1	73.7

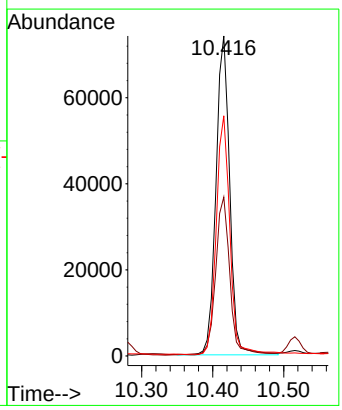


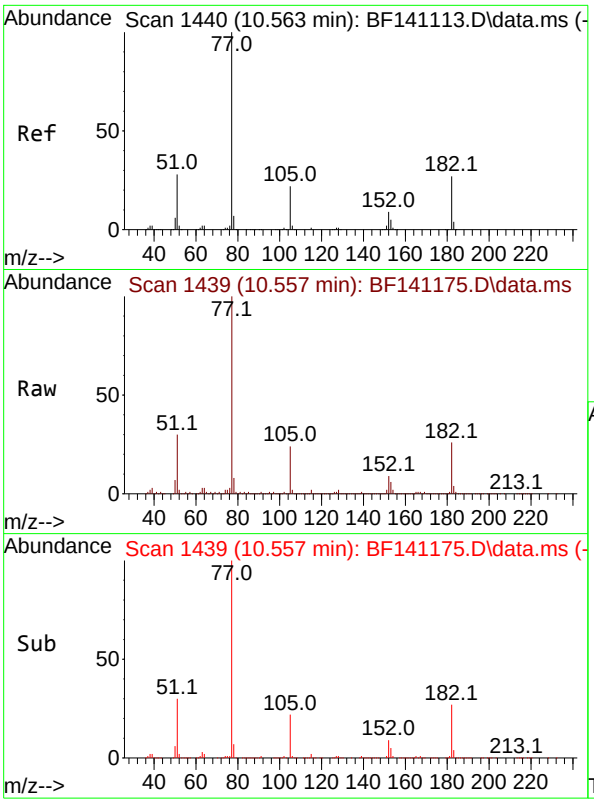


#62
4-Nitroaniline
Concen: 24.070 ng
RT: 10.416 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:138 Resp: 99151

Ion	Ratio	Lower	Upper
138	100		
92	49.6	29.4	69.4
108	75.1	53.7	93.7



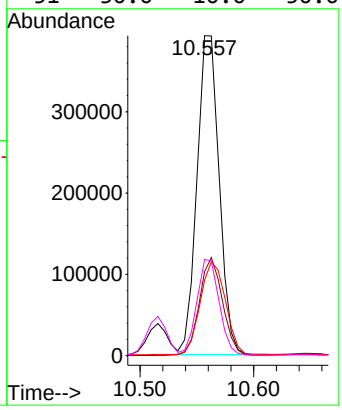


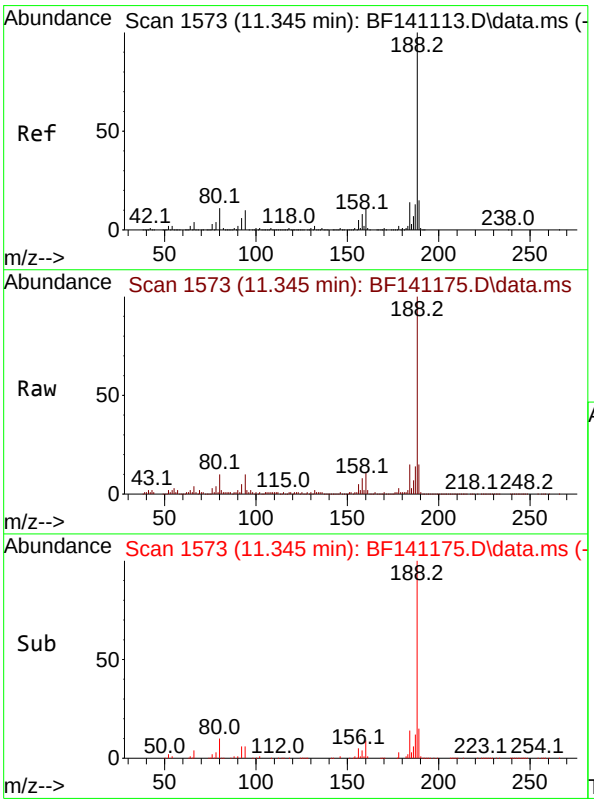
#63
Azobenzene
Concen: 31.058 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion: 77 Resp: 532827

Ion	Ratio	Lower	Upper
77	100		
182	26.3	6.1	46.1
105	23.7	2.1	42.1
51	30.0	10.0	50.0

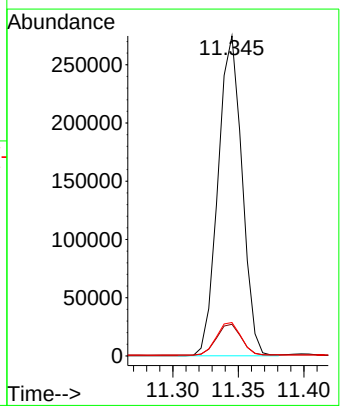


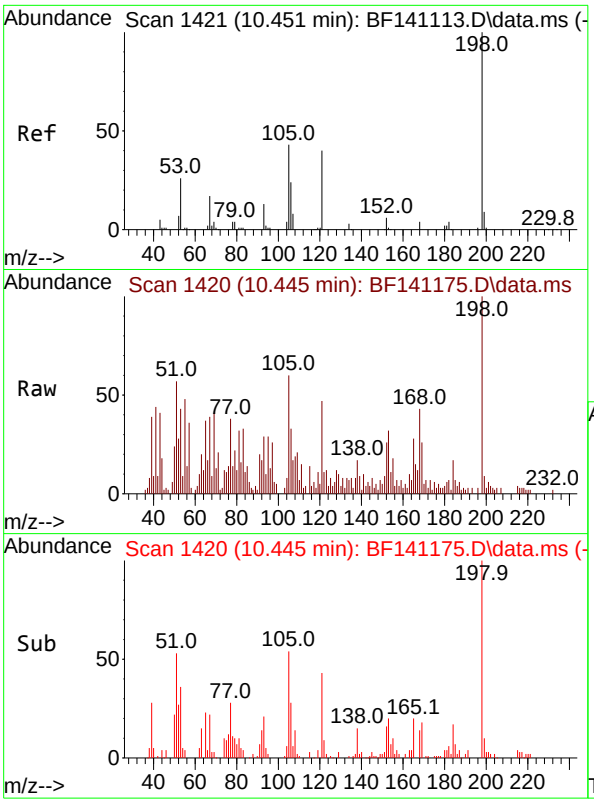


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:188 Resp: 349564

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.3	12.5
80	10.5	9.0	13.4



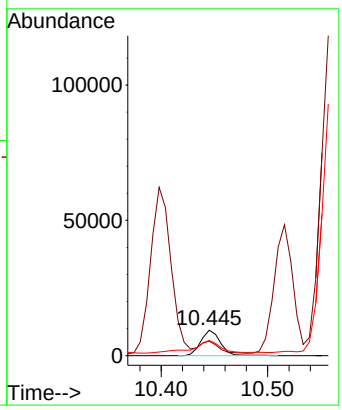


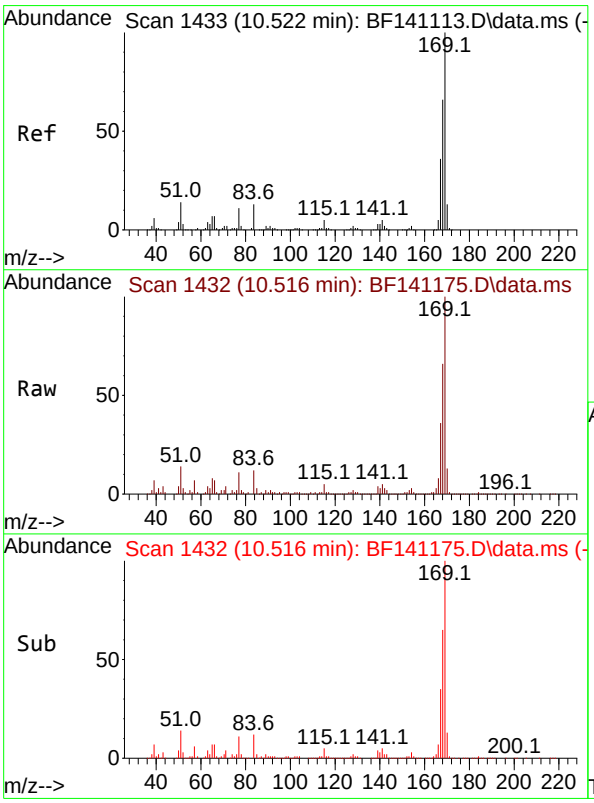
#65
4,6-Dinitro-2-methylphenol
Concen: 5.940 ng
RT: 10.445 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:198 Resp: 12033

Ion	Ratio	Lower	Upper
198	100		
51	57.2	27.1	67.1
105	59.8	24.2	64.2

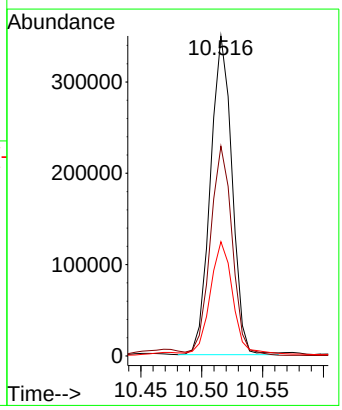


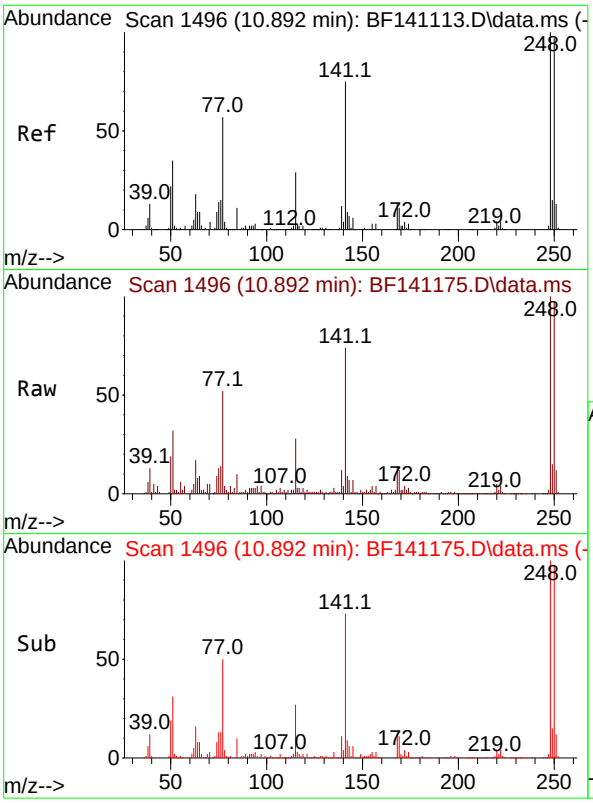


#66
n-Nitrosodiphenylamine
Concen: 38.243 ng
RT: 10.516 min Scan# 1432
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:169 Resp: 431187

Ion	Ratio	Lower	Upper
169	100		
168	65.5	52.5	78.7
167	35.7	28.9	43.3



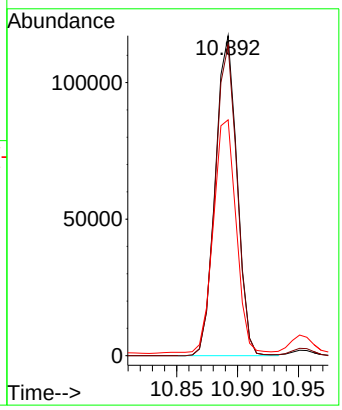


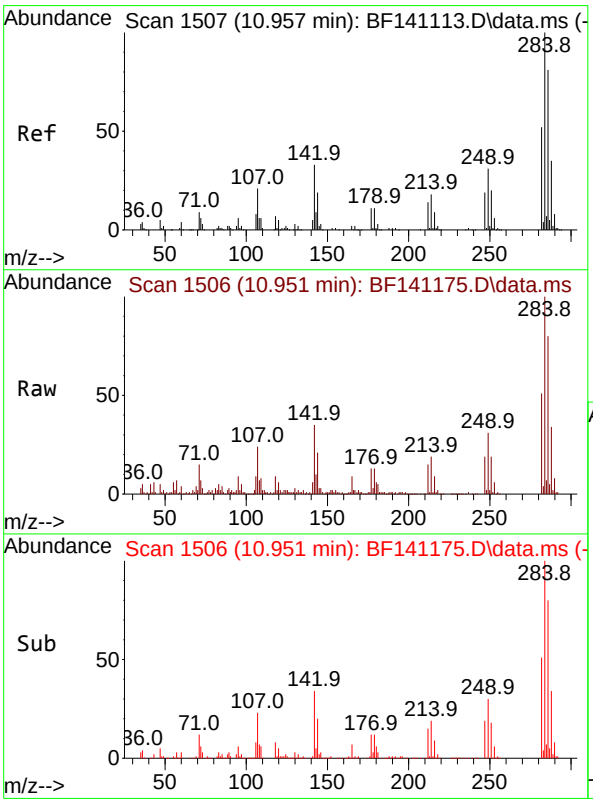
#67
4-Bromophenyl-phenylether
Concen: 36.228 ng
RT: 10.892 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:248 Resp: 145801

Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.9	116.9
141	73.7	59.9	89.9

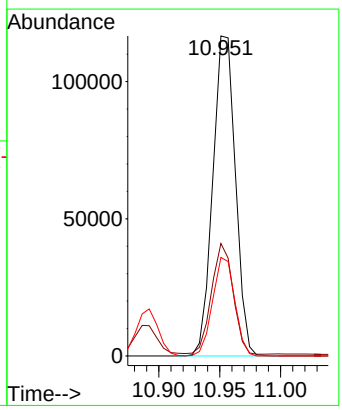


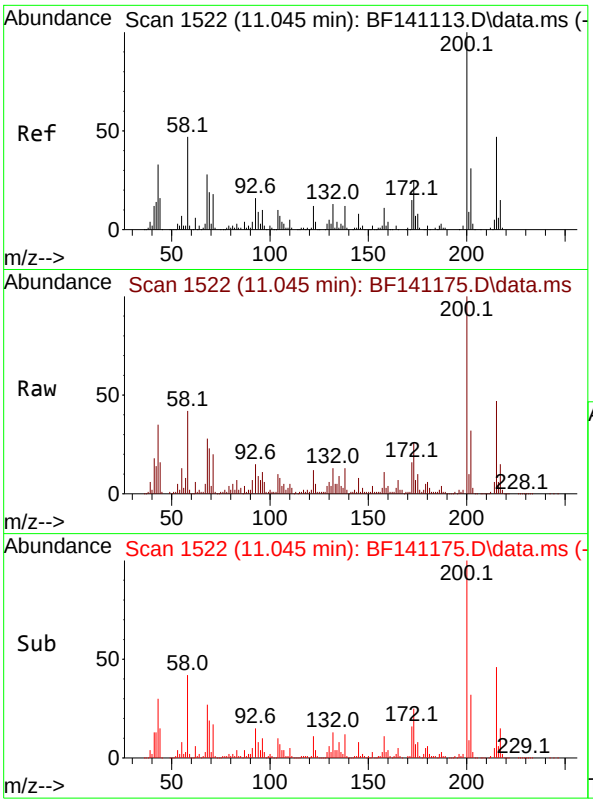


#68
Hexachlorobenzene
Concen: 33.684 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:284 Resp: 150906

Ion	Ratio	Lower	Upper
284	100		
142	35.2	26.3	39.5
249	30.8	24.9	37.3



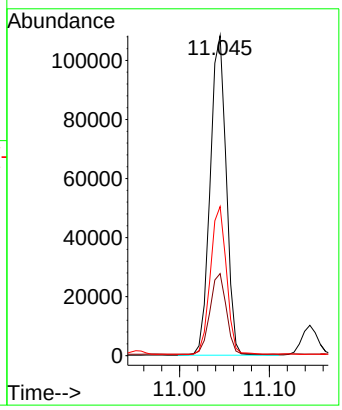


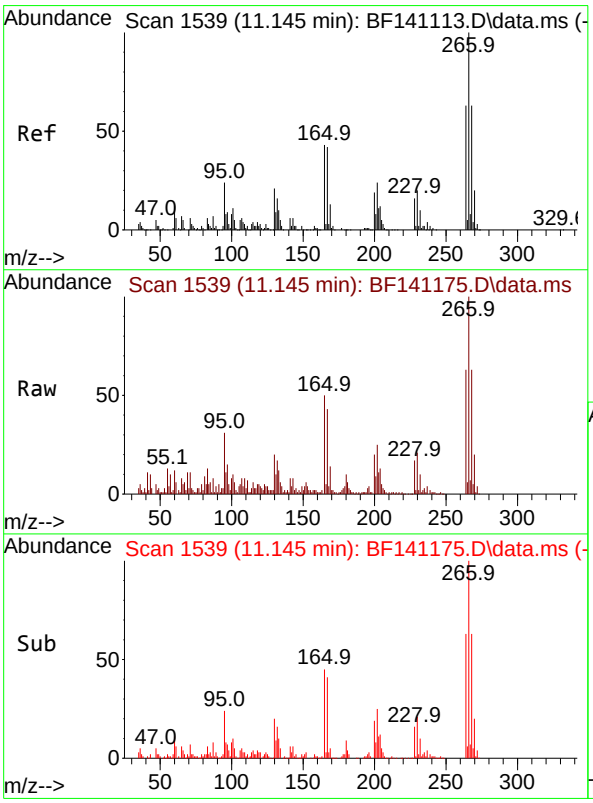
#69
Atrazine
Concen: 44.306 ng
RT: 11.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:200 Resp: 134509

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.4	45.4
215	46.6	26.6	66.6

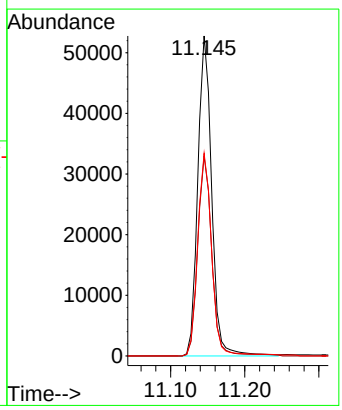


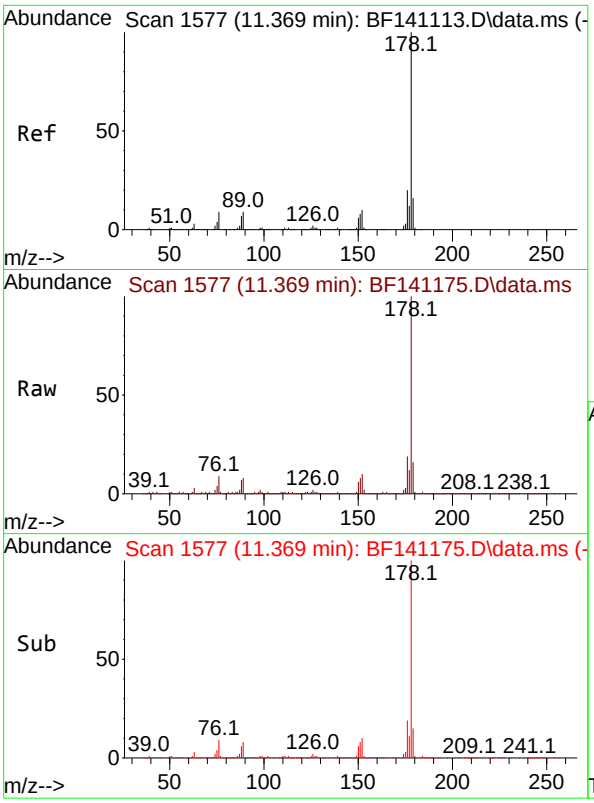


#70
Pentachlorophenol
Concen: 23.886 ng
RT: 11.145 min Scan# 1539
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:266 Resp: 68531

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.4	75.6
264	63.3	50.2	75.2



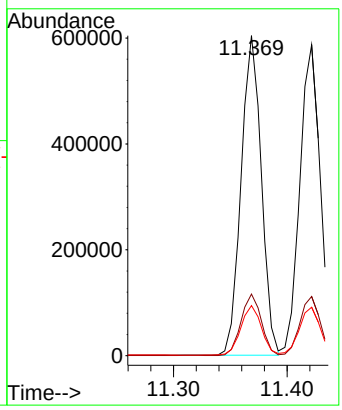


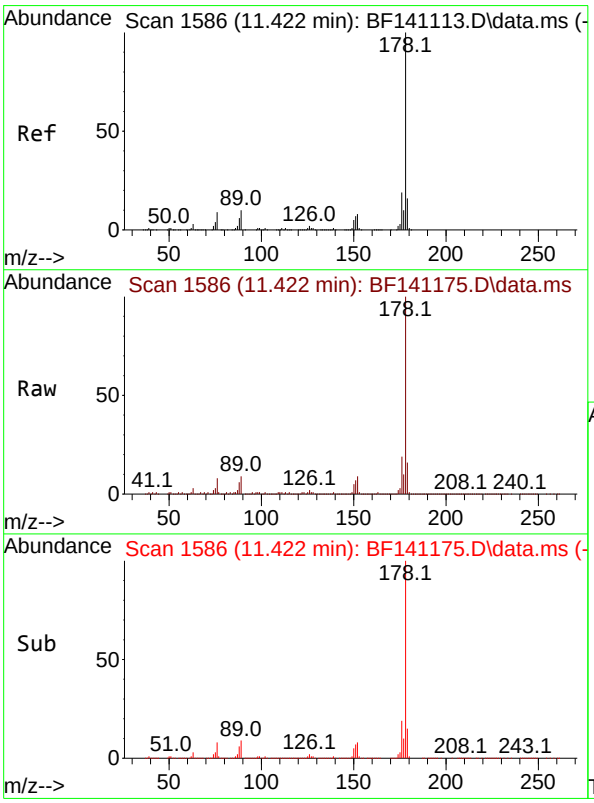
#71
Phenanthrene
Concen: 39.764 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:178 Resp: 746258

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.7	23.5
179	15.7	12.6	19.0

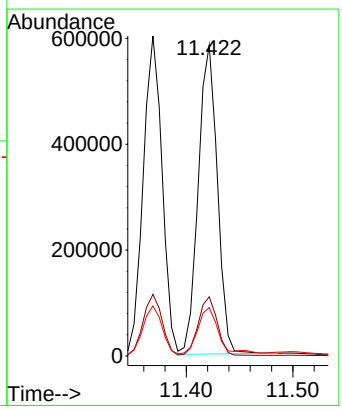


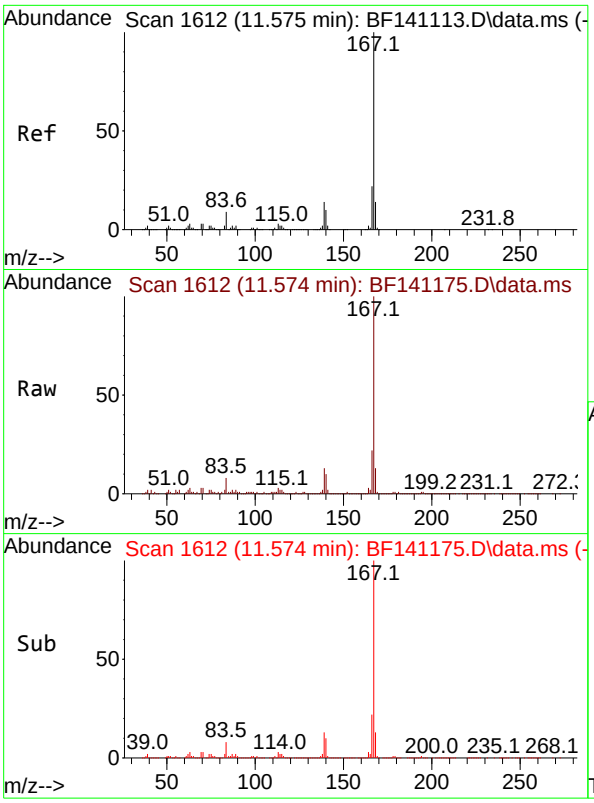


#72
Anthracene
Concen: 39.875 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:178 Resp: 727636

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.9	22.3
179	15.6	12.6	19.0



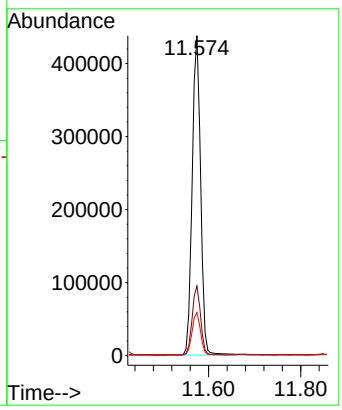


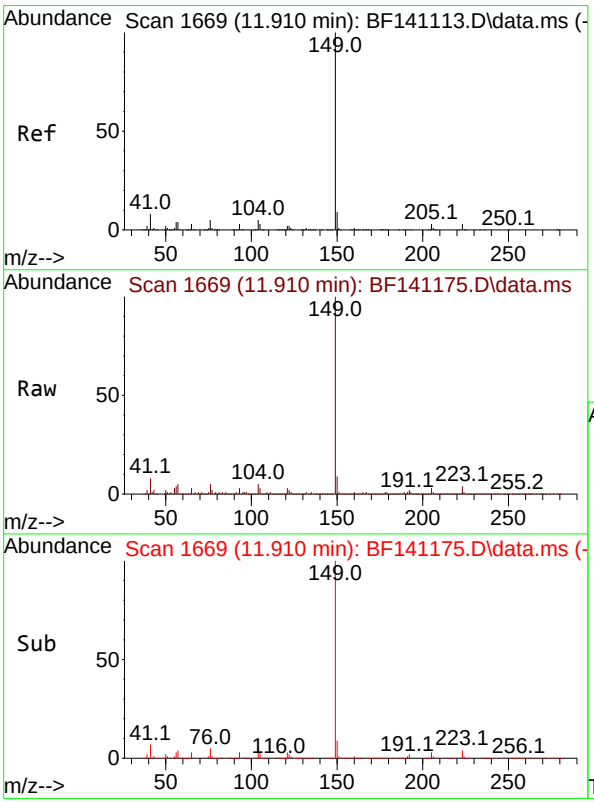
#73
Carbazole
Concen: 33.223 ng
RT: 11.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:167 Resp: 555900

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.5	10.9	16.3

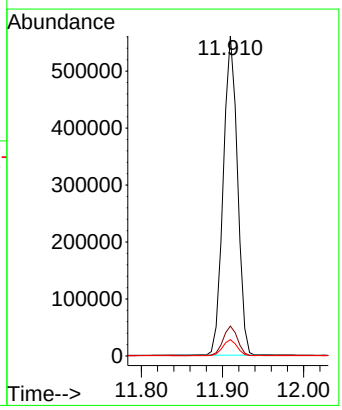


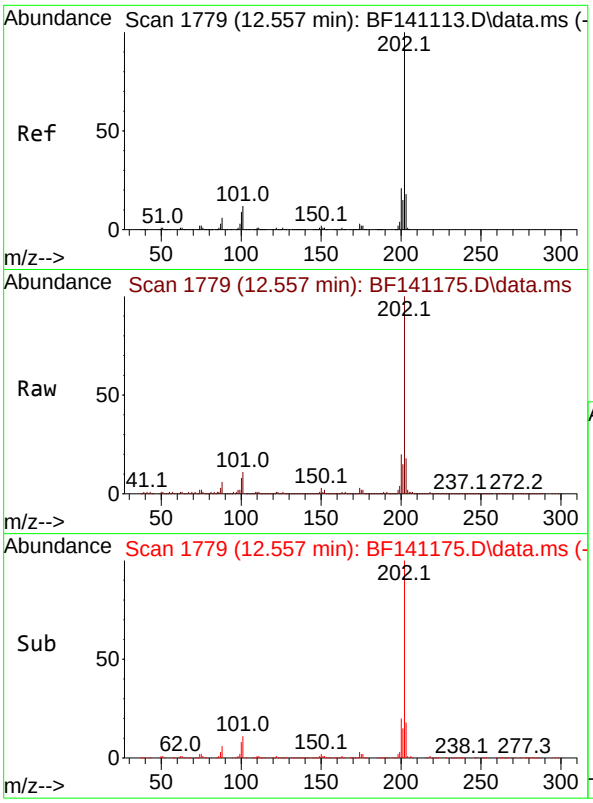


#74
Di-n-butylphthalate
Concen: 35.764 ng
RT: 11.910 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 684830

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.1	4.2	6.2



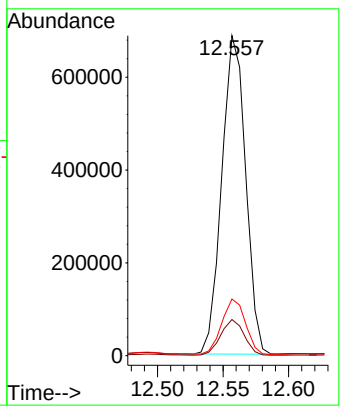


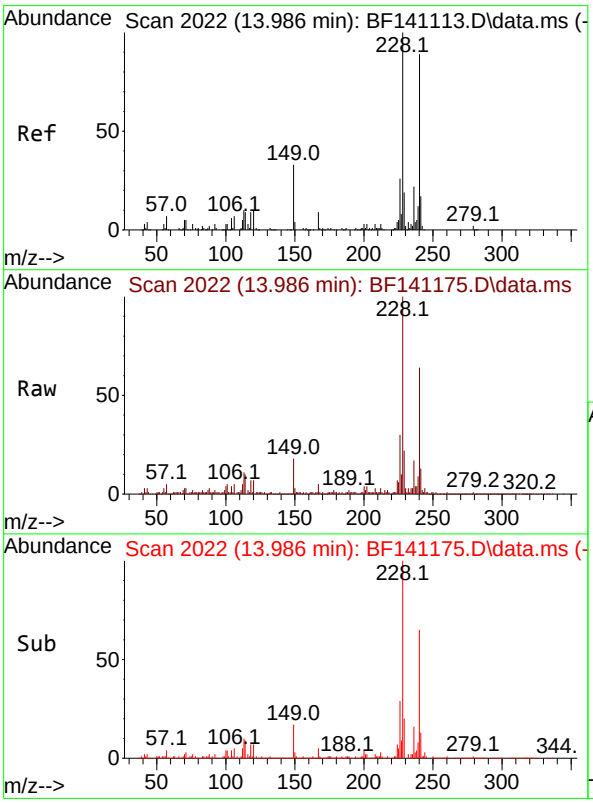
#75
Fluoranthene
Concen: 46.347 ng
RT: 12.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:202 Resp: 867978

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.3
203	17.7	0.0	37.7

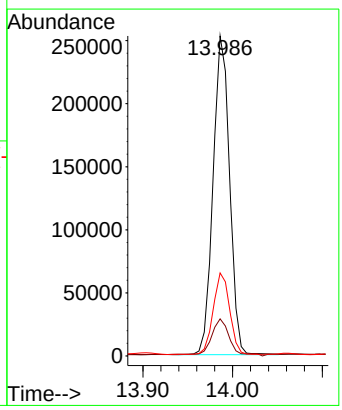


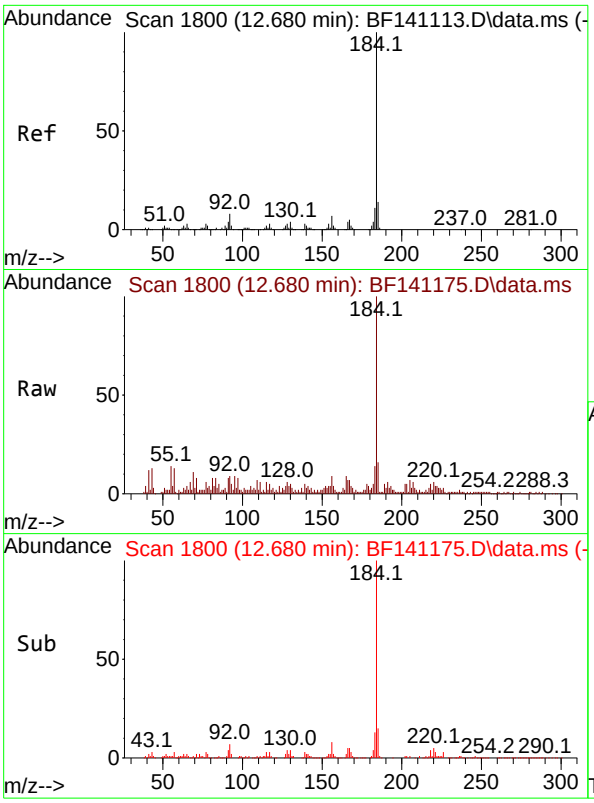


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:240 Resp: 322664

Ion	Ratio	Lower	Upper
240	100		
120	11.6	9.1	13.7
236	25.9	19.8	29.6



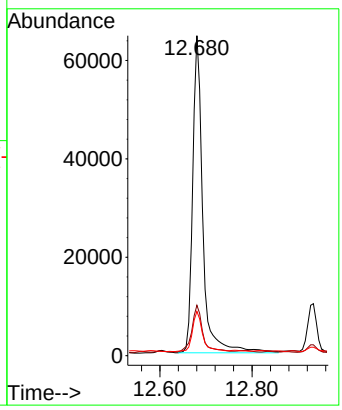


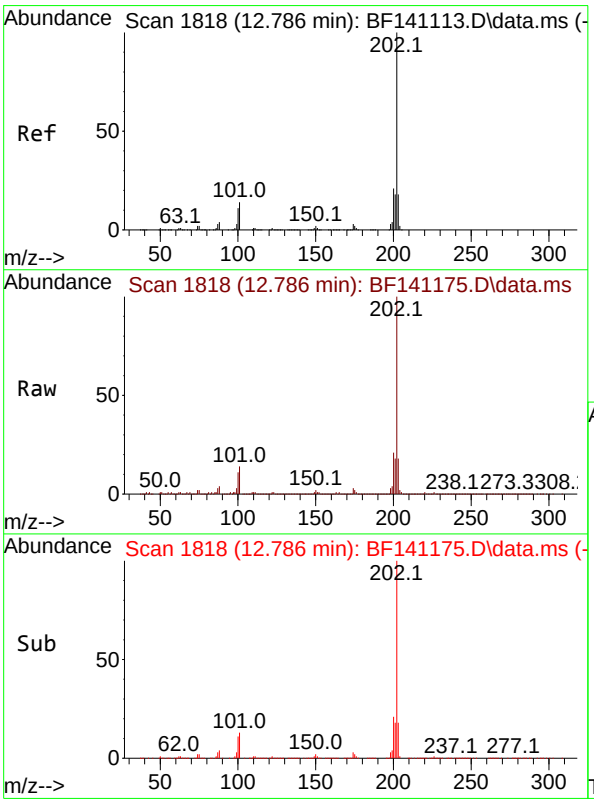
#77
Benzidine
Concen: 16.445 ng
RT: 12.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:184 Resp: 98399

Ion	Ratio	Lower	Upper
184	100		
185	15.7	11.4	17.0
183	13.8	9.2	13.8#

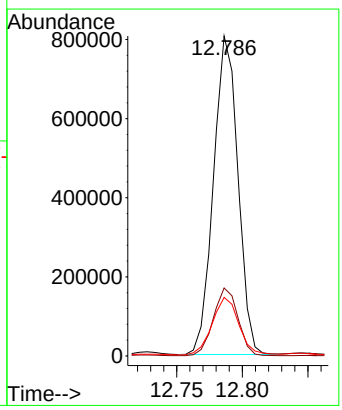


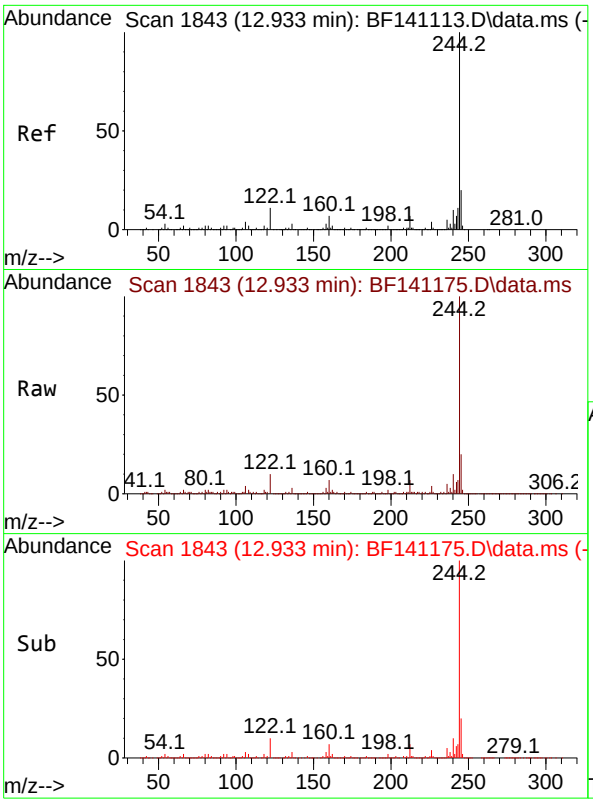


#78
Pyrene
Concen: 33.875 ng
RT: 12.786 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:202 Resp: 1043972

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.8	25.2
203	18.3	14.3	21.5



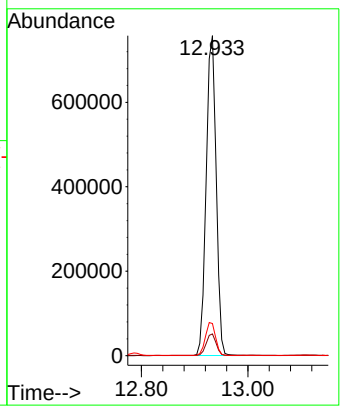


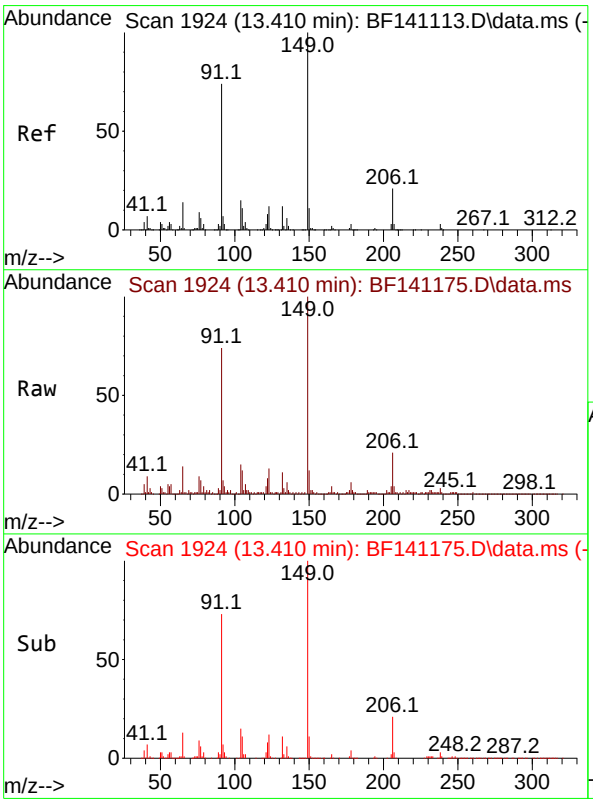
#79
Terphenyl-d14
Concen: 45.364 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:244 Resp: 984818

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	10.0	8.8	13.2

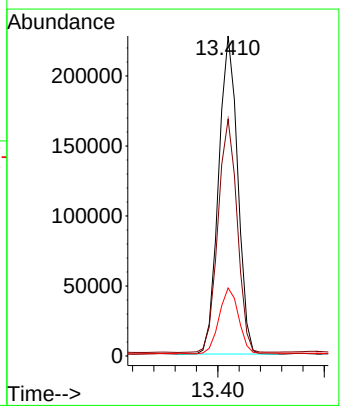


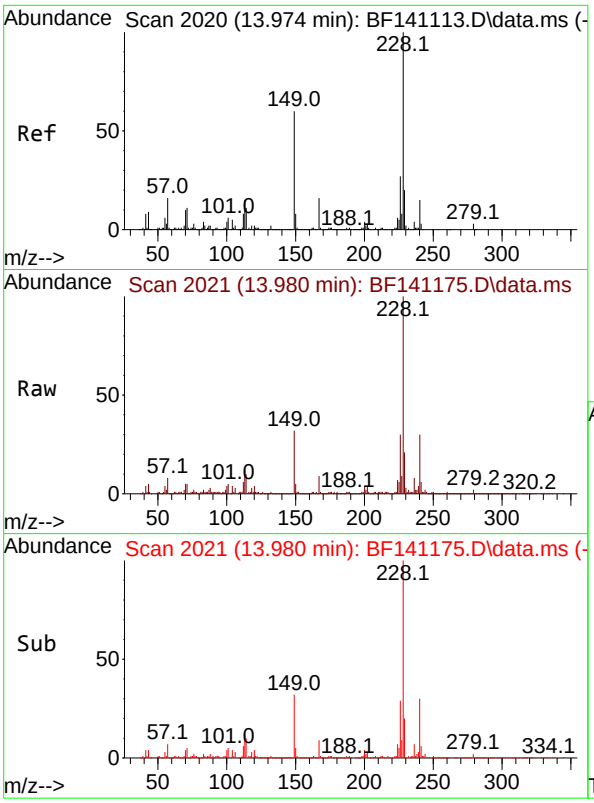


#80
Butylbenzylphthalate
Concen: 27.525 ng
RT: 13.410 min Scan# 1924
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 282822

Ion	Ratio	Lower	Upper
149	100		
91	74.0	59.0	88.6
206	21.2	16.5	24.7



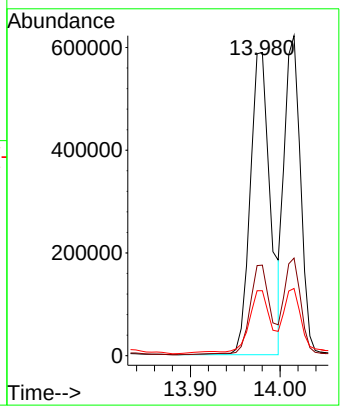


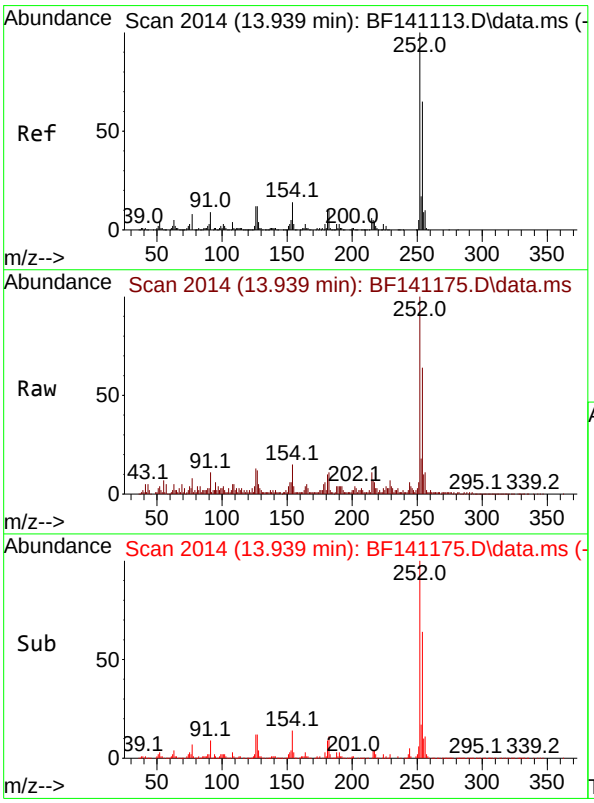
#81
Benzo(a)anthracene
Concen: 41.633 ng
RT: 13.980 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:228 Resp: 914236

Ion	Ratio	Lower	Upper
228	100		
226	29.9	21.7	32.5
229	21.4	15.7	23.5

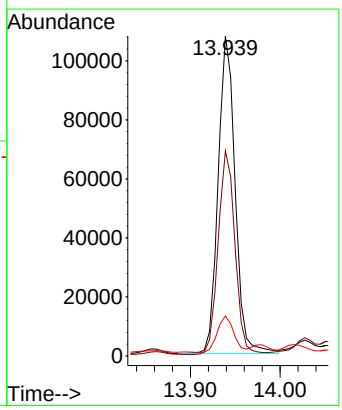


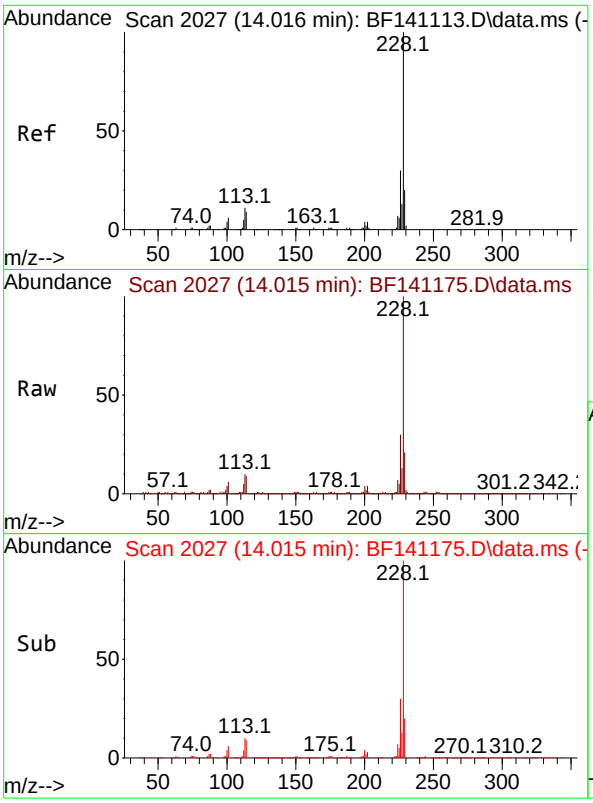


#82
3,3'-Dichlorobenzidine
Concen: 20.276 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:252 Resp: 141773

Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.0	78.0
126	12.5	9.4	14.0



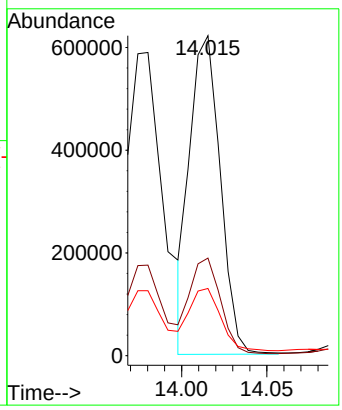


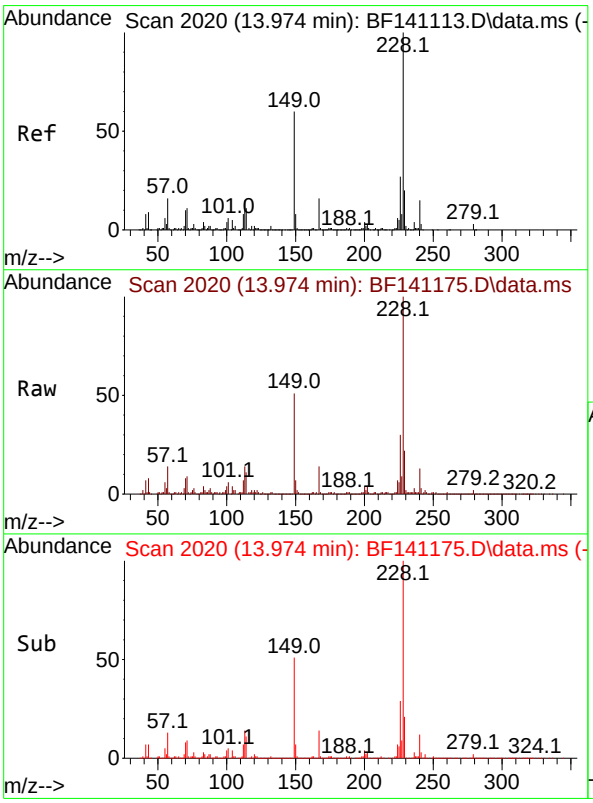
#83
Chrysene
Concen: 37.566 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:228 Resp: 771864

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	21.0	15.8	23.8

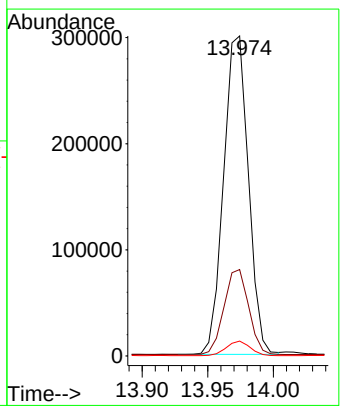


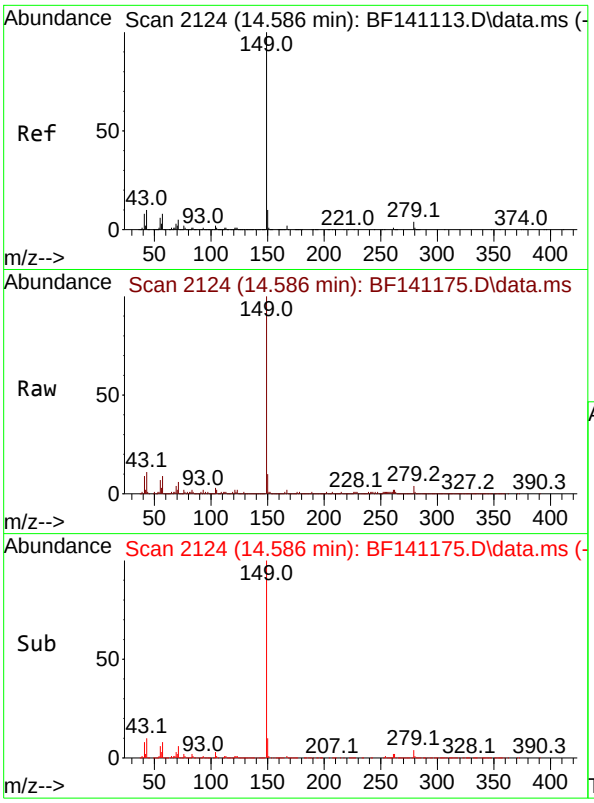


#84
Bis(2-ethylhexyl)phthalate
Concen: 31.980 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:149 Resp: 394268

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.2
279	4.6	3.4	5.2



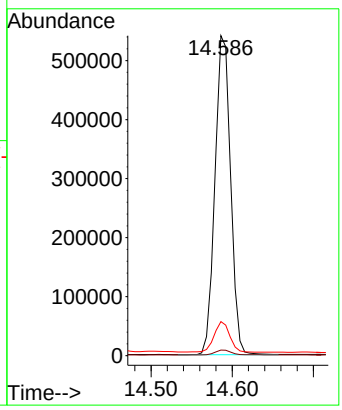


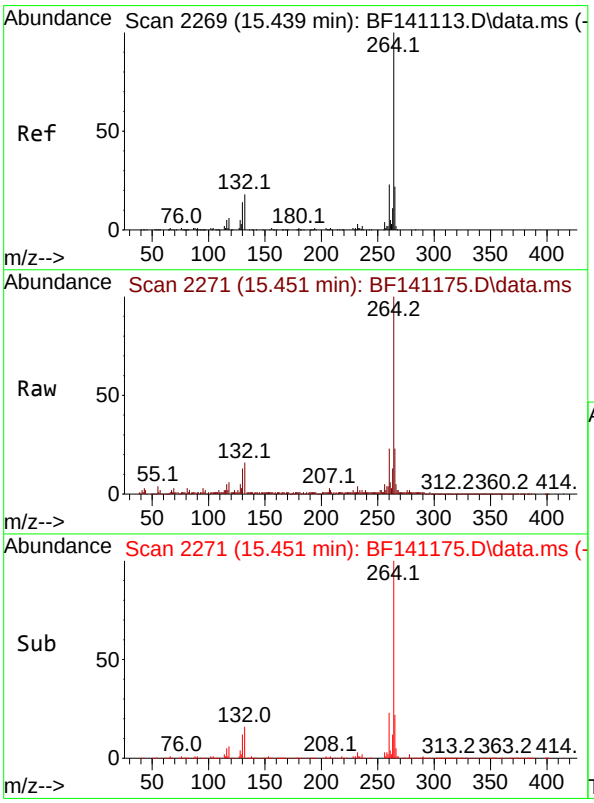
#85
Di-n-octyl phthalate
Concen: 38.895 ng
RT: 14.586 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:149 Resp: 724119

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.6	8.4	12.6

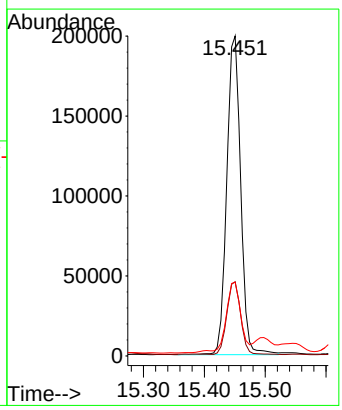


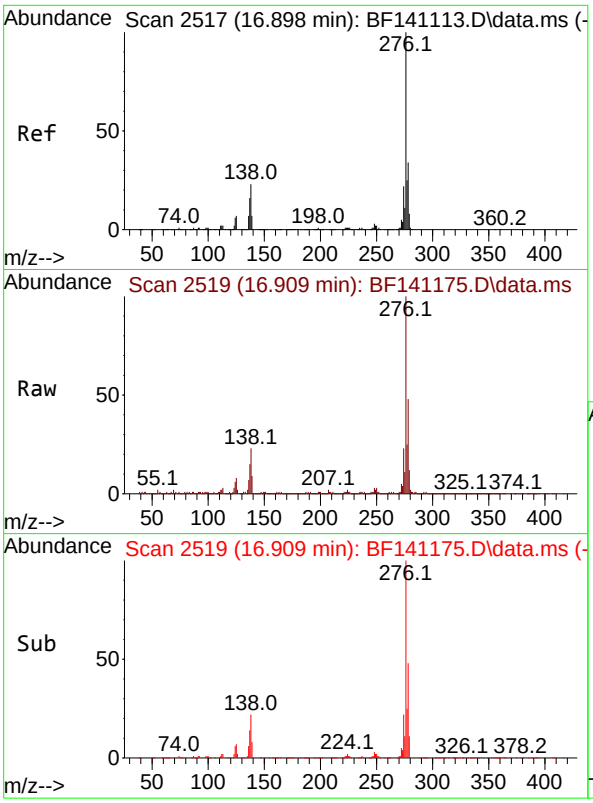


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:264 Resp: 314686

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	23.0	17.4	26.0



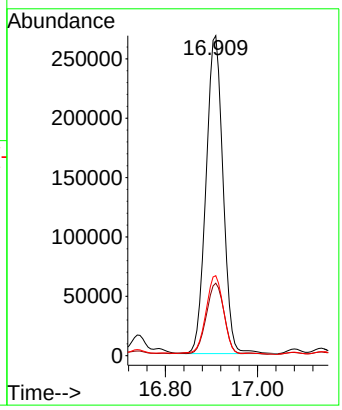


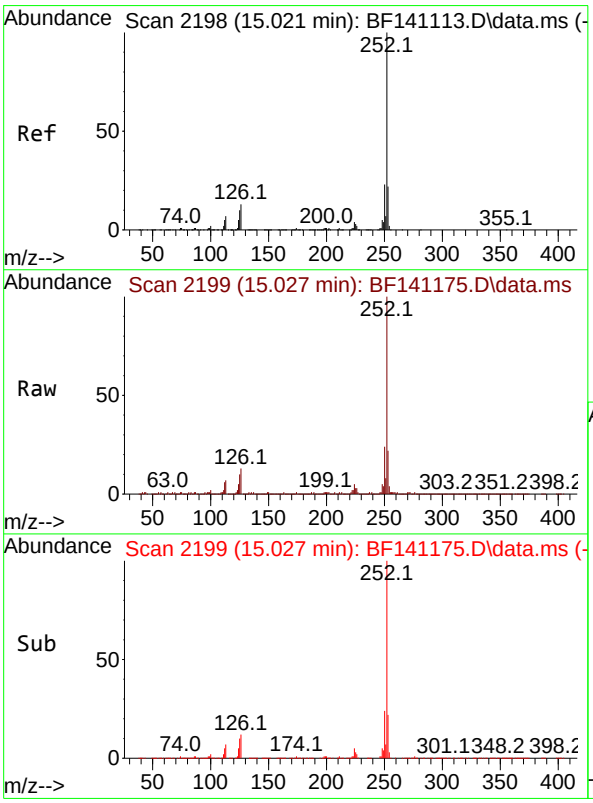
#87
Indeno(1,2,3-cd)pyrene
Concen: 29.752 ng
RT: 16.909 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:276 Resp: 685937

Ion	Ratio	Lower	Upper
276	100		
138	22.9	20.7	31.1
277	25.1	20.6	30.8

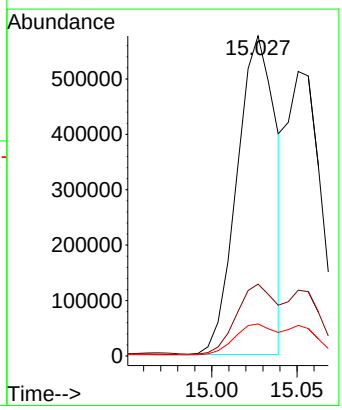


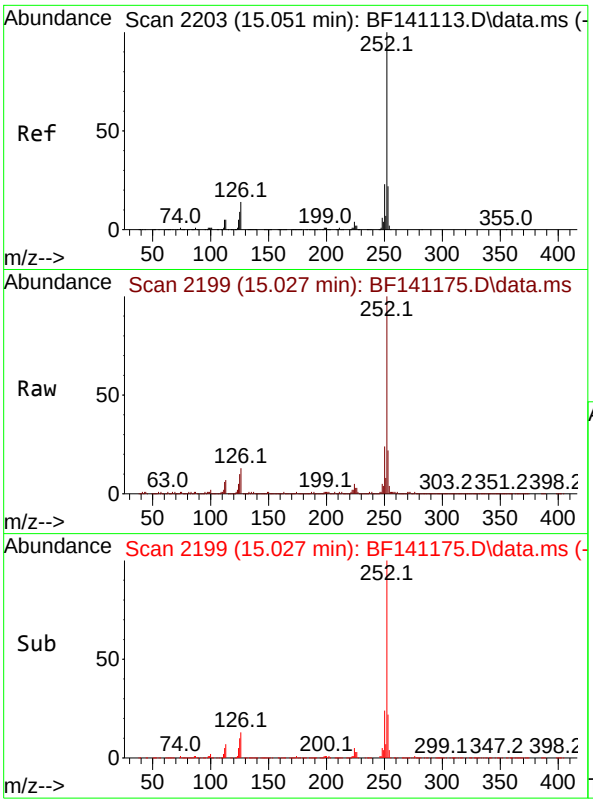


#88
Benzo(b)fluoranthene
Concen: 44.658 ng
RT: 15.027 min Scan# 2199
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:252 Resp: 906206

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	10.0	8.1	12.1



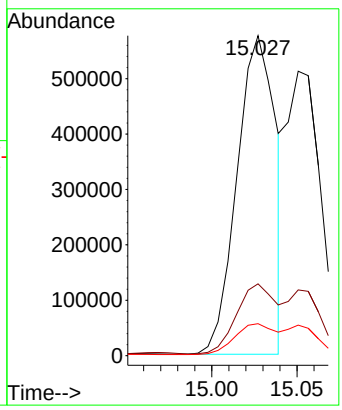


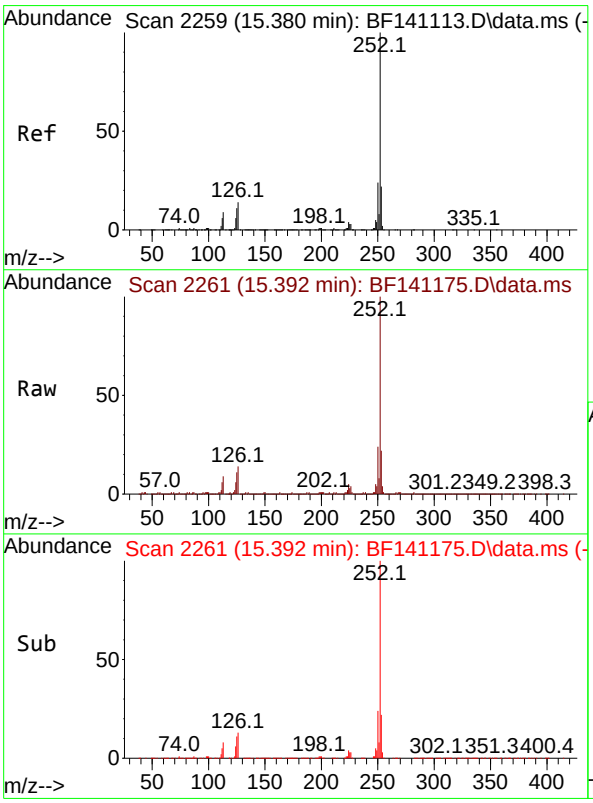
#89
Benzo(k)fluoranthene
Concen: 52.845 ng
RT: 15.027 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:252 Resp: 906206

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	10.0	7.9	11.9

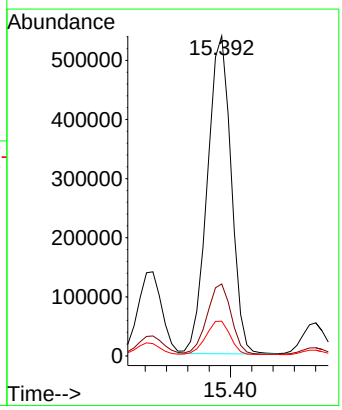


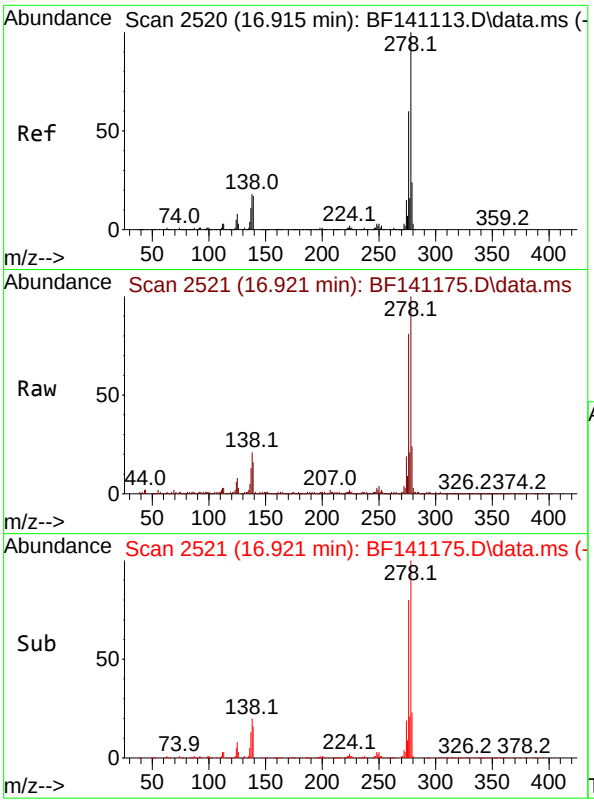


#90
Benzo(a)pyrene
Concen: 49.865 ng
RT: 15.392 min Scan# 2261
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:252 Resp: 834847

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	10.8	9.1	13.7



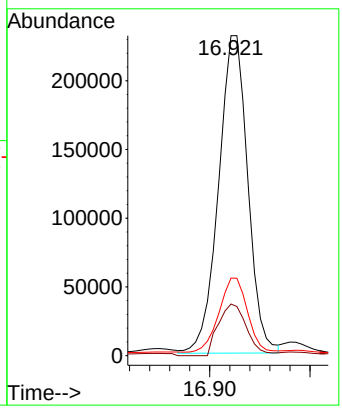


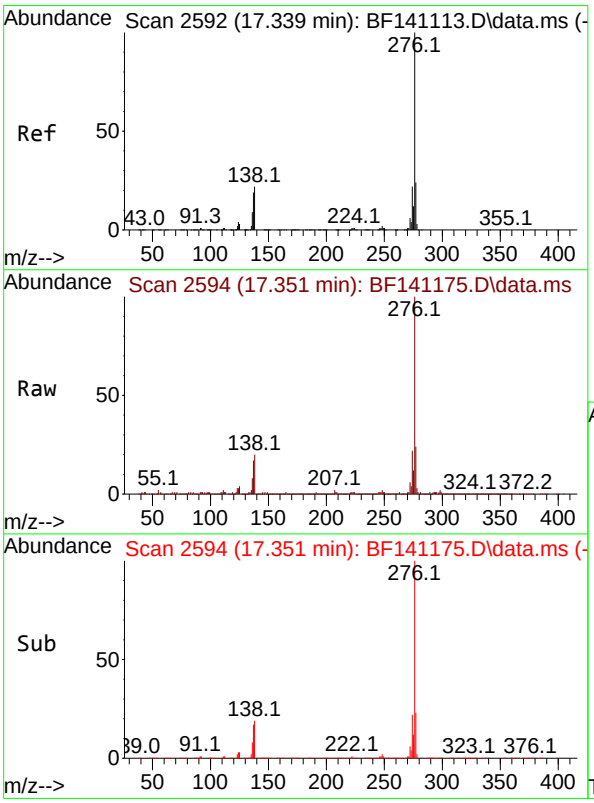
#91
Dibenzo(a,h)anthracene
Concen: 25.100 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MS

Tgt Ion:278 Resp: 468043

Ion	Ratio	Lower	Upper
278	100		
139	16.1	13.8	20.6
279	24.2	19.1	28.7

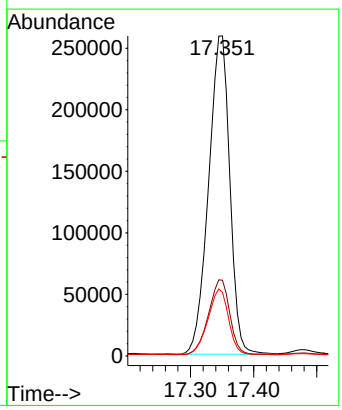




#92
Benzo(g,h,i)perylene
Concen: 31.124 ng
RT: 17.351 min Scan# 2594
Delta R.T. 0.012 min
Lab File: BF141175.D
Acq: 15 Jan 2025 15:05

Tgt Ion:276 Resp: 603676

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	19.8	17.4	26.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141176.D
Acq On : 15 Jan 2025 16:40
Operator : RC/JU
Sample : Q1068-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Quant Time: Jan 15 17:10:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.822	152	143081	20.000	ng		0.00
21) Naphthalene-d8	8.104	136	569188	20.000	ng		0.00
39) Acenaphthene-d10	9.863	164	294771	20.000	ng		0.00
64) Phenanthrene-d10	11.345	188	427420	20.000	ng		0.00
76) Chrysene-d12	13.992	240	307236	20.000	ng		0.00
86) Perylene-d12	15.468	264	256318	20.000	ng		0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	687064	74.180	ng		0.00
7) Phenol-d6	6.445	99	1035177	88.232	ng		0.00
23) Nitrobenzene-d5	7.381	82	666857	62.104	ng		0.00
42) 2,4,6-Tribromophenol	10.645	330	124689	37.124	ng		0.00
45) 2-Fluorobiphenyl	9.181	172	1207713	62.565	ng		0.00
79) Terphenyl-d14	12.933	244	1080678	52.280	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.575	88	99902	24.221	ng		99
3) Pyridine	3.316	79	249451	24.663	ng		96
4) n-Nitrosodimethylamine	3.257	42	144877	29.295	ng		98
6) Aniline	6.481	93	163222	15.670	ng		97
8) 2-Chlorophenol	6.604	128	300320	30.222	ng		96
9) Benzaldehyde	6.369	77	40776	5.901	ng		94
10) Phenol	6.463	94	396493	31.570	ng		99
11) bis(2-Chloroethyl)ether	6.557	93	295551	31.577	ng		97
12) 1,3-Dichlorobenzene	6.763	146	316476	28.555	ng		98
13) 1,4-Dichlorobenzene	6.840	146	323869	28.999	ng		99
14) 1,2-Dichlorobenzene	6.992	146	315295	30.265	ng		97
15) Benzyl Alcohol	6.957	79	280336	33.086	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.092	45	390750	29.918	ng		97
17) 2-Methylphenol	7.069	107	253262	31.569	ng		99
18) Hexachloroethane	7.334	117	116502	28.846	ng		99
19) n-Nitroso-di-n-propyla...	7.234	70	214591	31.050	ng		98
20) 3+4-Methylphenols	7.222	107	324187	32.030	ng	#	87
22) Acetophenone	7.228	105	420478	31.075	ng		97
24) Nitrobenzene	7.404	77	325628	29.097	ng		97
25) Isophorone	7.639	82	583759	31.812	ng		99
26) 2-Nitrophenol	7.716	139	127008	24.949	ng		97
27) 2,4-Dimethylphenol	7.757	122	250815	36.528	ng		99
28) bis(2-Chloroethoxy)met...	7.851	93	356419	30.949	ng		99
29) 2,4-Dichlorophenol	7.957	162	236851	29.043	ng		99
30) 1,2,4-Trichlorobenzene	8.045	180	268865	28.843	ng		100
31) Naphthalene	8.128	128	948739	31.607	ng		100
33) 4-Chloroaniline	8.175	127	134518	12.958	ng		99
34) Hexachlorobutadiene	8.245	225	159147	28.334	ng		99
35) Caprolactam	8.522	113	81493	30.523	ng		96
36) 4-Chloro-3-methylphenol	8.651	107	284843	31.937	ng		98
37) 2-Methylnaphthalene	8.816	142	614978	32.151	ng		99
38) 1-Methylnaphthalene	8.916	142	571584	30.321	ng		99
40) 1,2,4,5-Tetrachloroben...	8.981	216	274538	32.449	ng		99
41) Hexachlorocyclopentadiene	8.969	237	121583	43.925	ng		98
43) 2,4,6-Trichlorophenol	9.092	196	101888	17.856	ng		99
44) 2,4,5-Trichlorophenol	9.133	196	137849	22.875	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141176.D
Acq On : 15 Jan 2025 16:40
Operator : RC/JU
Sample : Q1068-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Quant Time: Jan 15 17:10:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.281	154	744386	32.517	ng		99
47) 2-Chloronaphthalene	9.304	162	549279	30.807	ng		99
48) 2-Nitroaniline	9.398	65	173916	32.905	ng		98
49) Acenaphthylene	9.722	152	977297	38.365	ng		99
50) Dimethylphthalate	9.581	163	646040	32.646	ng		99
51) 2,6-Dinitrotoluene	9.645	165	141448	30.737	ng		98
52) Acenaphthene	9.892	154	549398	30.870	ng		99
53) 3-Nitroaniline	9.810	138	118024	25.238	ng		100
54) 2,4-Dinitrophenol	9.916	184	5836	2.668	ng	#	1
55) Dibenzofuran	10.063	168	772302	31.903	ng		99
56) 4-Nitrophenol	9.963	139	89059	24.317	ng		99
57) 2,4-Dinitrotoluene	10.045	165	186784	31.495	ng		99
58) Fluorene	10.410	166	609361	32.401	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.181	232	66467	13.269	ng		99
60) Diethylphthalate	10.280	149	620252	32.105	ng		100
61) 4-Chlorophenyl-phenyle...	10.404	204	289829	31.619	ng		98
62) 4-Nitroaniline	10.416	138	128687	28.115	ng		98
63) Azobenzene	10.563	77	634488	33.284	ng		95
65) 4,6-Dinitro-2-methylph...	10.451	198	11195	4.520	ng		83
66) n-Nitrosodiphenylamine	10.516	169	522412	37.894	ng		99
67) 4-Bromophenyl-phenylether	10.892	248	173354	35.228	ng		97
68) Hexachlorobenzene	10.957	284	184199	33.626	ng		99
69) Atrazine	11.045	200	166855	44.950	ng		99
70) Pentachlorophenol	11.151	266	80199	22.862	ng		97
71) Phenanthrene	11.369	178	928440	40.461	ng		99
72) Anthracene	11.422	178	906732	40.638	ng		100
73) Carbazole	11.575	167	673943	32.941	ng		100
74) Di-n-butylphthalate	11.910	149	828354	35.379	ng		100
75) Fluoranthene	12.563	202	966493	42.207	ng		99
77) Benzidine	12.680	184	84383	14.811	ng	#	94
78) Pyrene	12.792	202	1159012	39.496	ng		99
80) Butylbenzylphthalate	13.410	149	305345	31.209	ng		99
81) Benzo(a)anthracene	13.980	228	820834	39.257	ng		95
82) 3,3'-Dichlorobenzidine	13.945	252	137413	20.639	ng		98
83) Chrysene	14.021	228	795763	40.674	ng		98
84) Bis(2-ethylhexyl)phtha...	13.974	149	407859	34.743	ng		100
85) Di-n-octyl phthalate	14.604	149	663939	37.454	ng		98
87) Indeno(1,2,3-cd)pyrene	16.927	276	619424	32.986	ng		96
88) Benzo(b)fluoranthene	15.045	252	796990	48.220	ng		99
89) Benzo(k)fluoranthene	15.045	252	796990	57.059	ng		99
90) Benzo(a)pyrene	15.404	252	714424	52.390	ng		100
91) Dibenzo(a,h)anthracene	16.945	278	422648	27.827	ng		98
92) Benzo(g,h,i)perylene	17.368	276	551001	34.878	ng		99

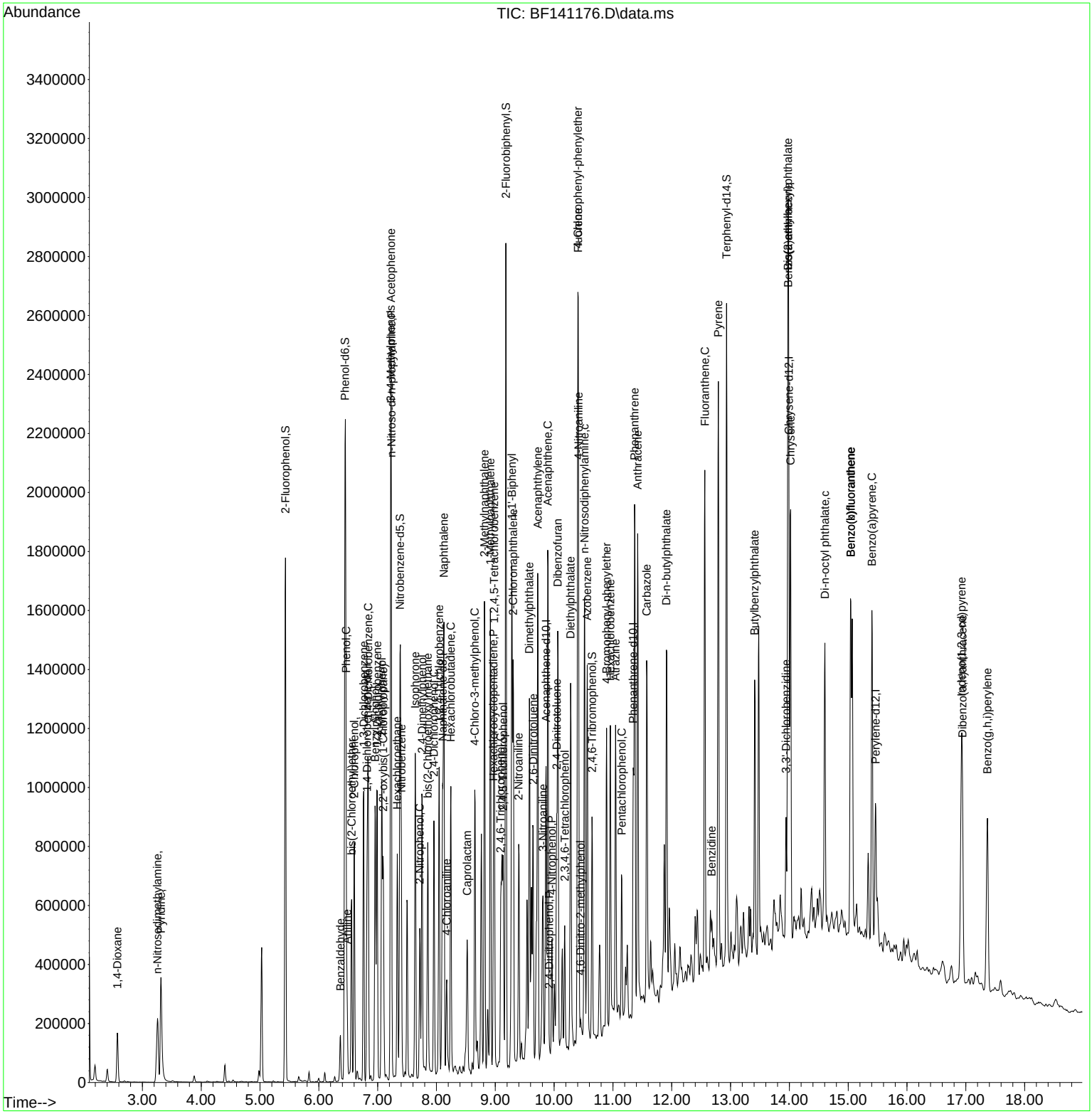
(#) = qualifier out of range (m) = manual integration (+) = signals summed

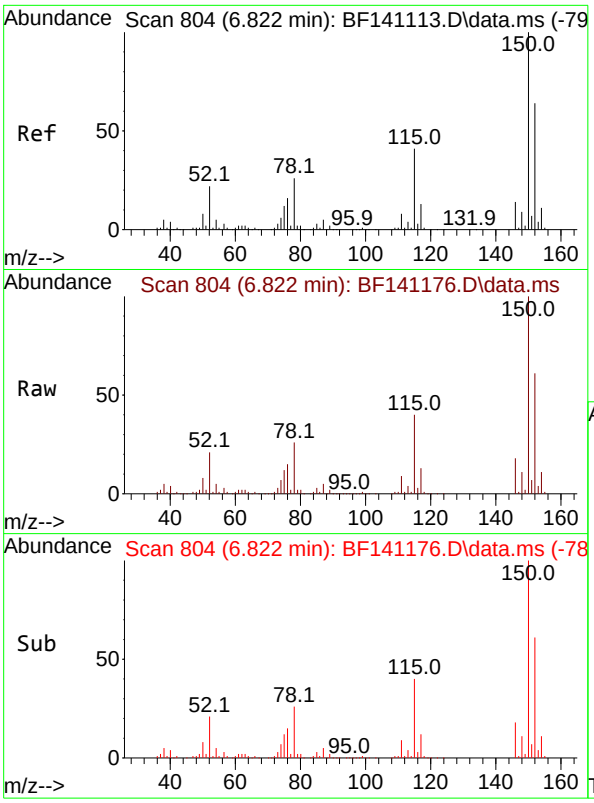
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011525\
Data File : BF141176.D
Acq On : 15 Jan 2025 16:40
Operator : RC/JU
Sample : Q1068-01MSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Quant Time: Jan 15 17:10:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF011025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jan 10 22:54:19 2025
Response via : Initial Calibration



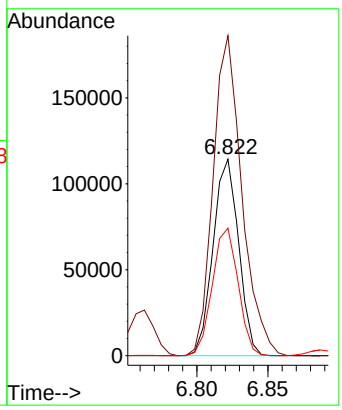


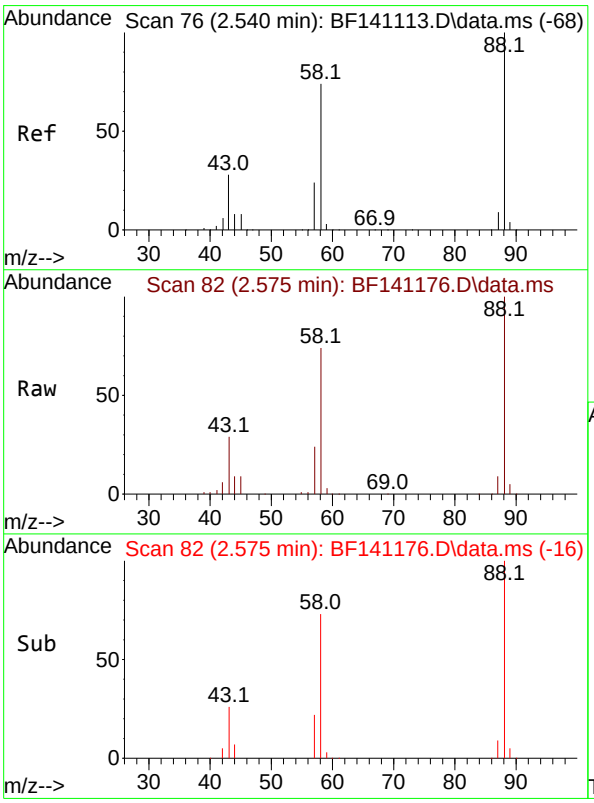
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:152 Resp: 143081

Ion	Ratio	Lower	Upper
152	100		
150	162.9	125.8	188.8
115	64.9	51.4	77.2

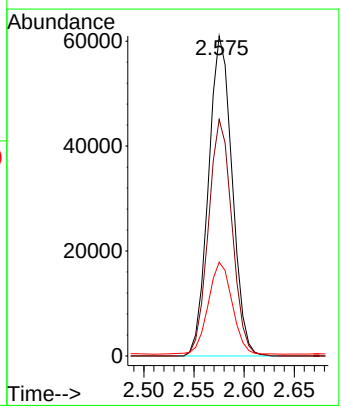


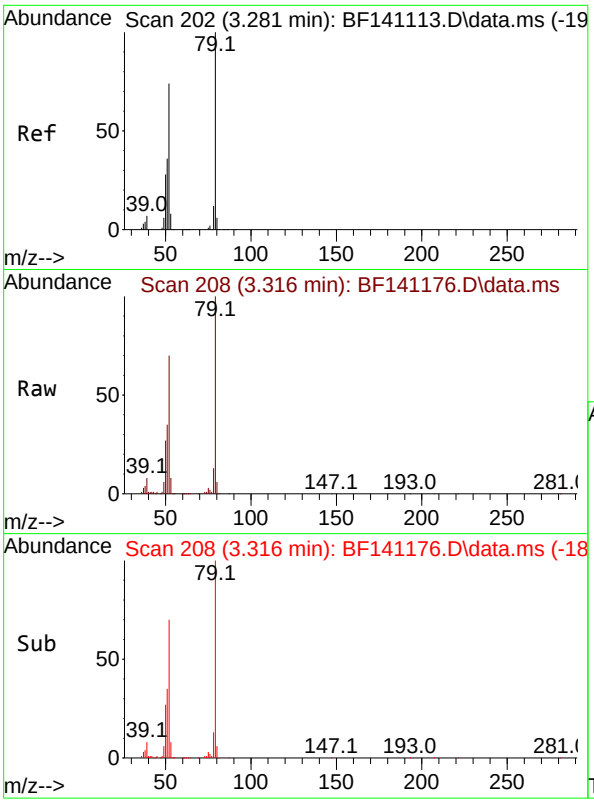


#2
1,4-Dioxane
Concen: 24.221 ng
RT: 2.575 min Scan# 82
Delta R.T. 0.035 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 88 Resp: 99902

Ion	Ratio	Lower	Upper
88	100		
58	73.9	60.1	90.1
43	29.2	23.1	34.7



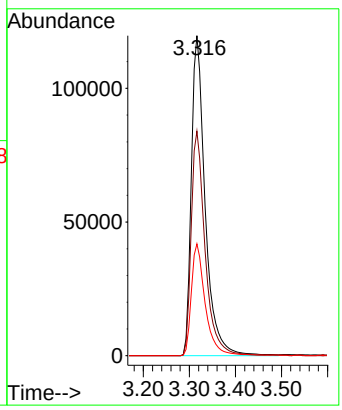


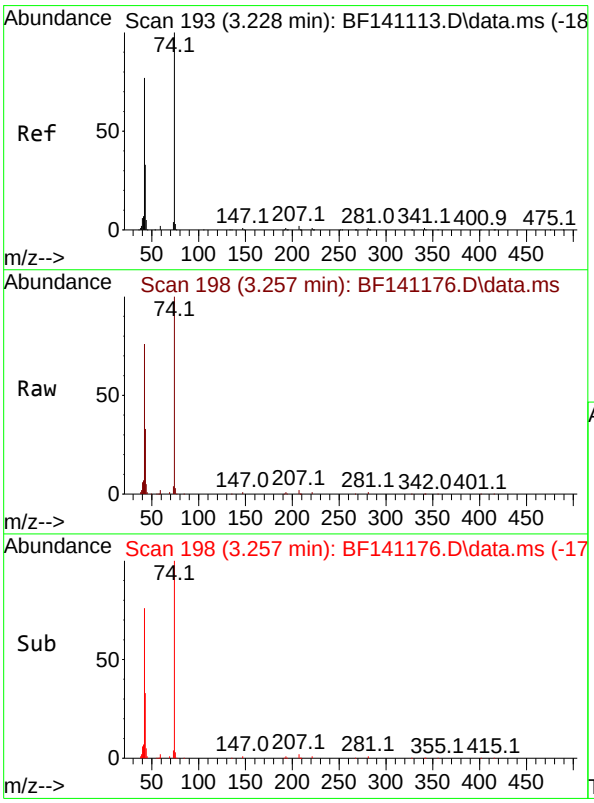
#3
Pyridine
Concen: 24.663 ng
RT: 3.316 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 79 Resp: 249451

Ion	Ratio	Lower	Upper
79	100		
52	70.2	58.9	88.3
51	35.0	29.1	43.7

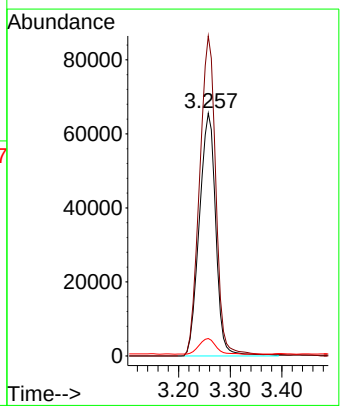


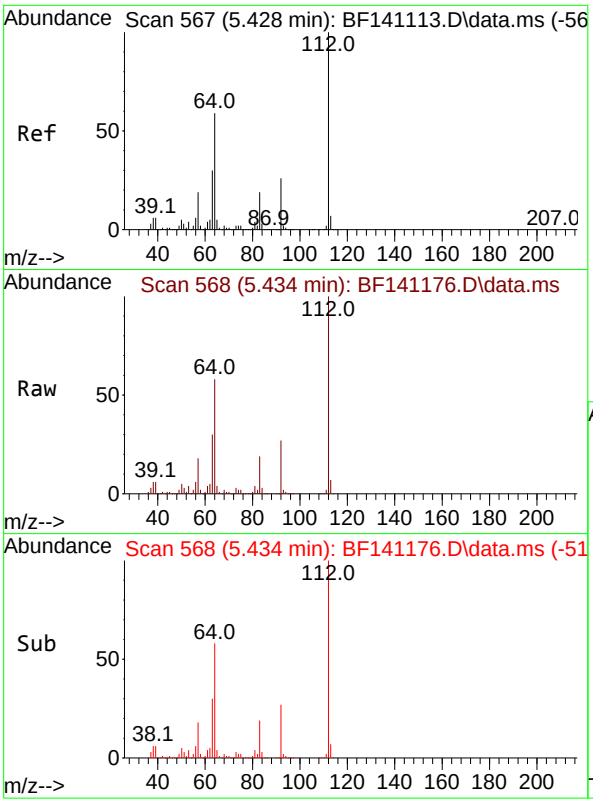


#4
n-Nitrosodimethylamine
Concen: 29.295 ng
RT: 3.257 min Scan# 198
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 42 Resp: 144877

Ion	Ratio	Lower	Upper
42	100		
74	131.8	103.8	155.6
44	7.2	5.3	7.9



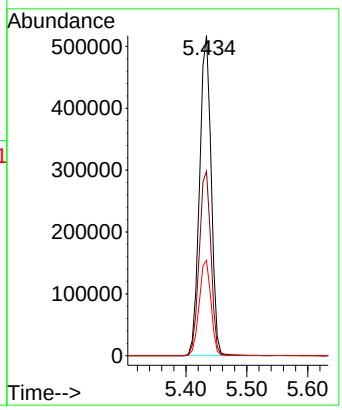


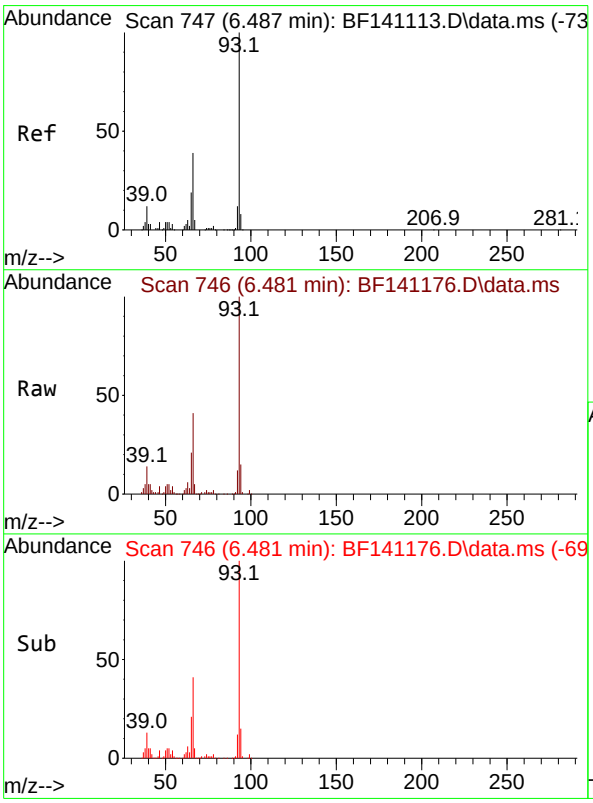
#5
2-Fluorophenol
Concen: 74.180 ng
RT: 5.434 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:112 Resp: 687064

Ion	Ratio	Lower	Upper
112	100		
64	57.6	47.3	70.9
63	29.8	24.2	36.2

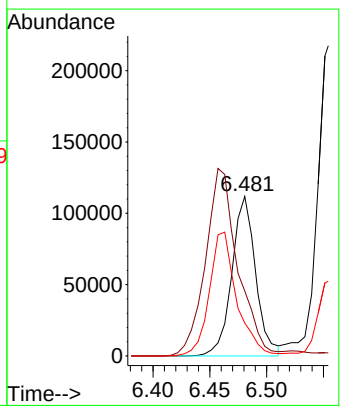


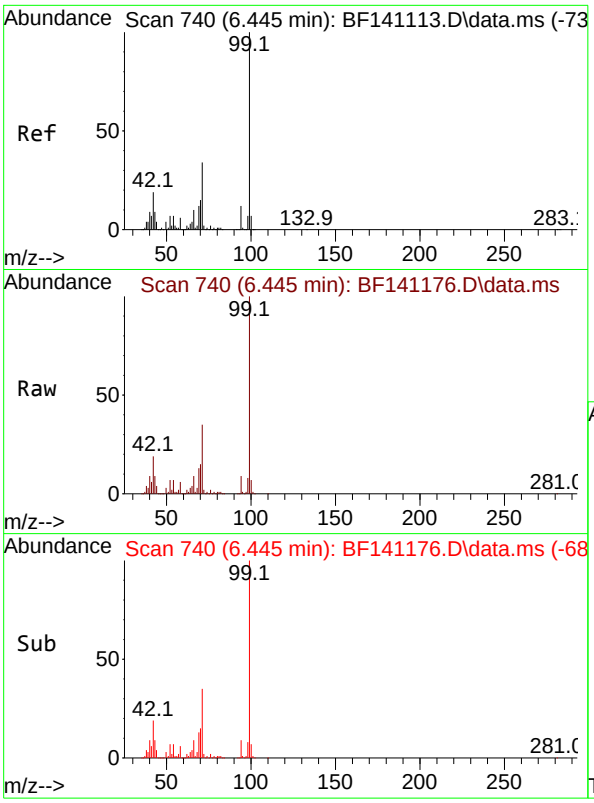


#6
Aniline
Concen: 15.670 ng
RT: 6.481 min Scan# 746
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 93 Resp: 163222

Ion	Ratio	Lower	Upper
93	100		
66	40.7	31.5	47.3
65	20.7	15.3	22.9



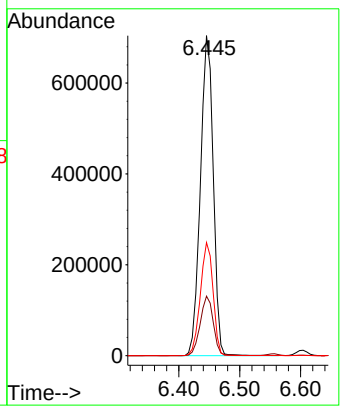


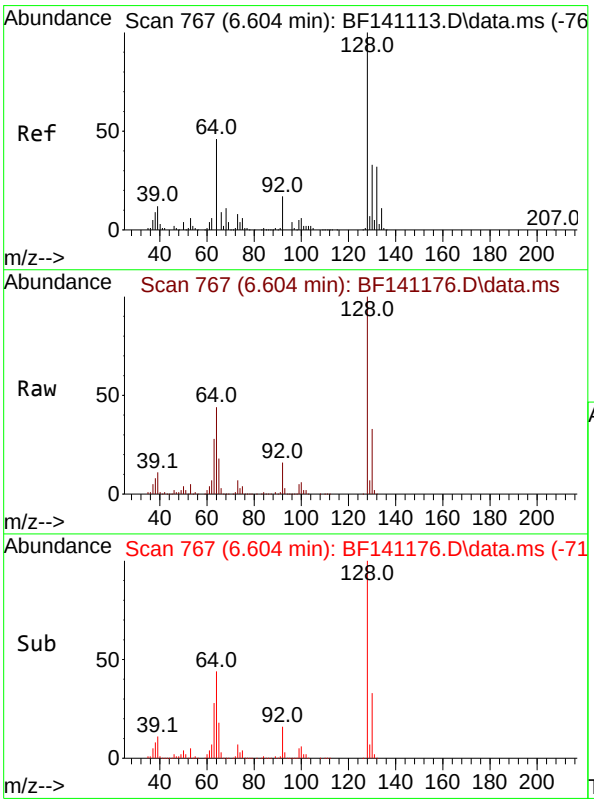
#7
Phenol-d6
Concen: 88.232 ng
RT: 6.445 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 99 Resp: 1035177

Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.0	22.4
71	35.4	27.6	41.4

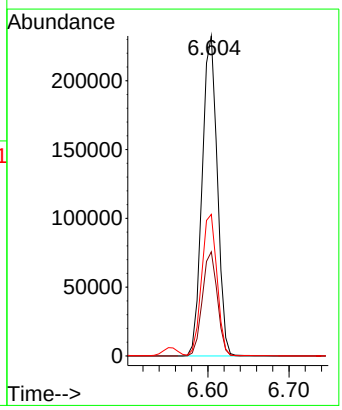


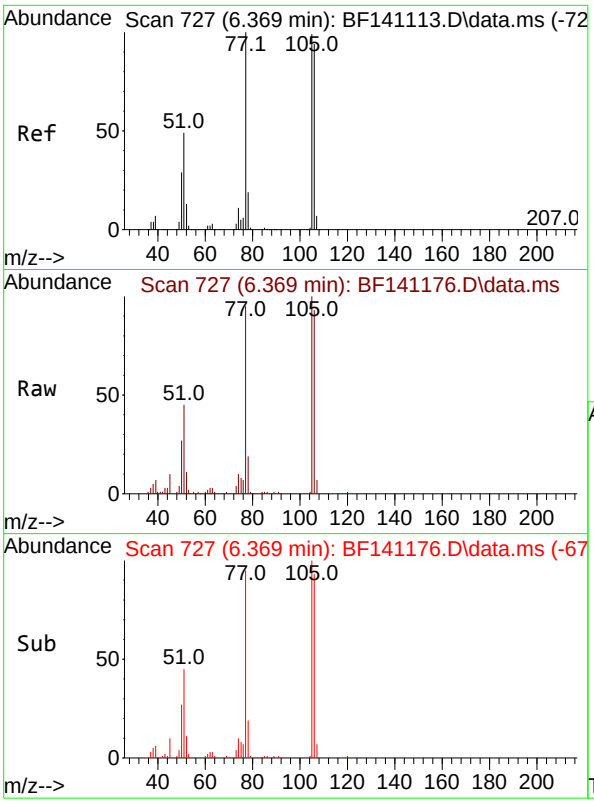


#8
2-Chlorophenol
Concen: 30.222 ng
RT: 6.604 min Scan# 767
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:128 Resp: 300320

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.5	52.5
64	44.2	28.3	68.3



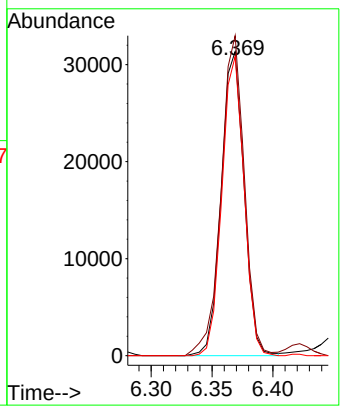


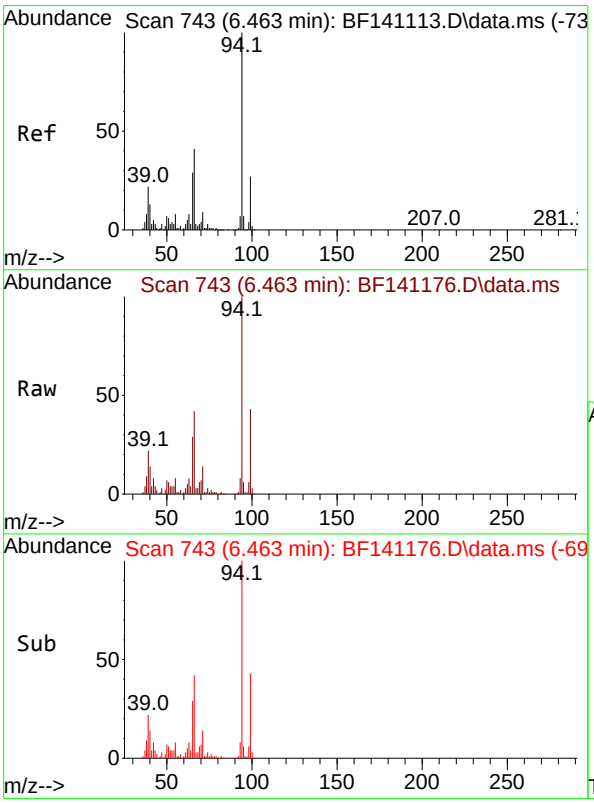
#9
Benzaldehyde
Concen: 5.901 ng
RT: 6.369 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 77 Resp: 40776

Ion	Ratio	Lower	Upper
77	100		
105	105.2	78.9	118.9
106	98.4	73.6	113.6

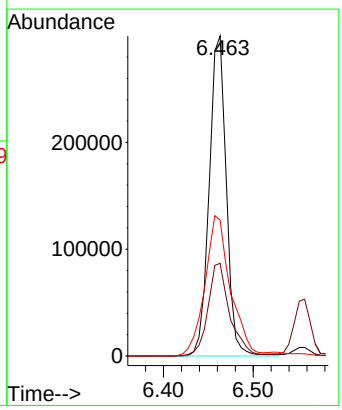


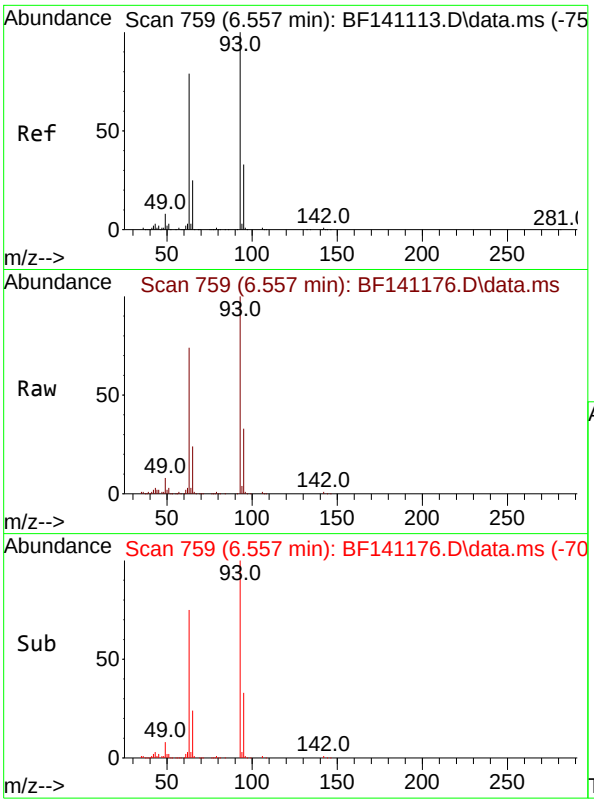


#10
Phenol
Concen: 31.570 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 94 Resp: 396493

Ion	Ratio	Lower	Upper
94	100		
65	29.0	8.9	48.9
66	42.4	21.2	61.2



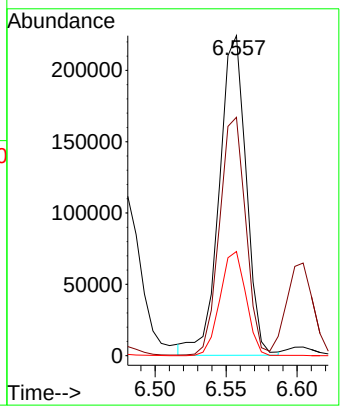


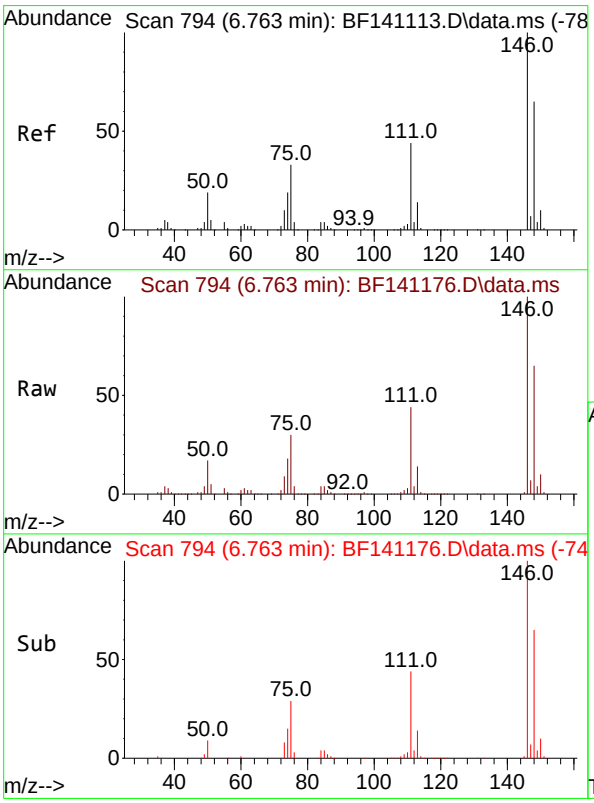
#11
bis(2-Chloroethyl)ether
Concen: 31.577 ng
RT: 6.557 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 93 Resp: 295551

Ion	Ratio	Lower	Upper
93	100		
63	74.5	58.0	98.0
95	32.5	12.5	52.5

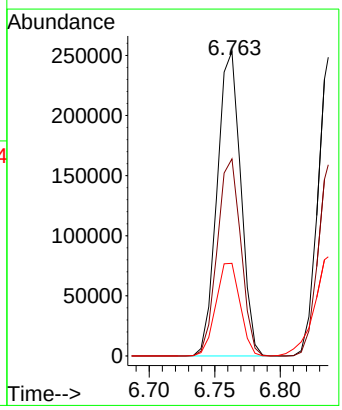


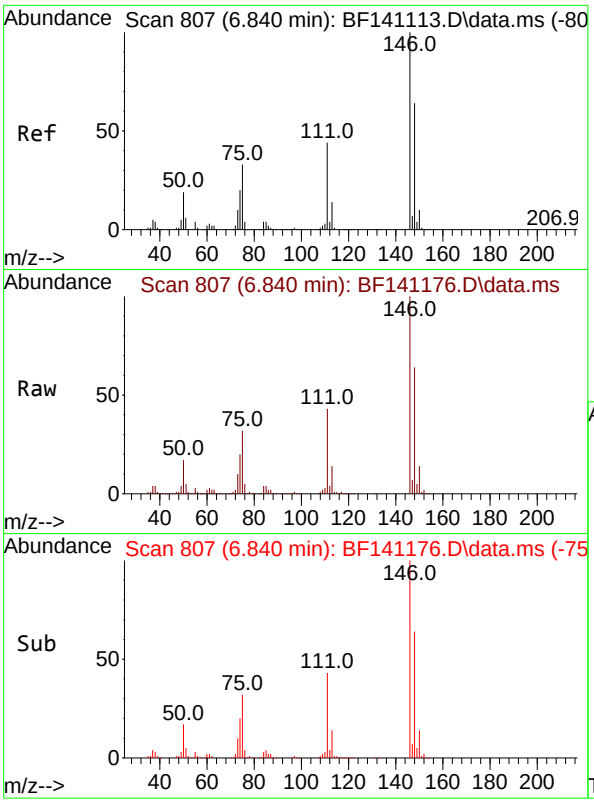


#12
1,3-Dichlorobenzene
Concen: 28.555 ng
RT: 6.763 min Scan# 794
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:146 Resp: 316476

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.6	77.4
75	30.4	26.2	39.2



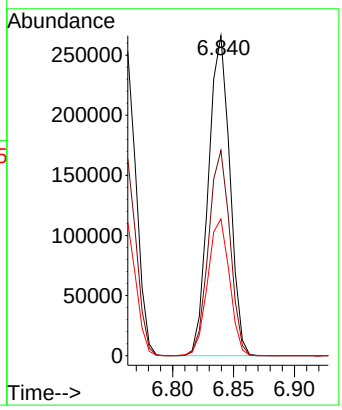


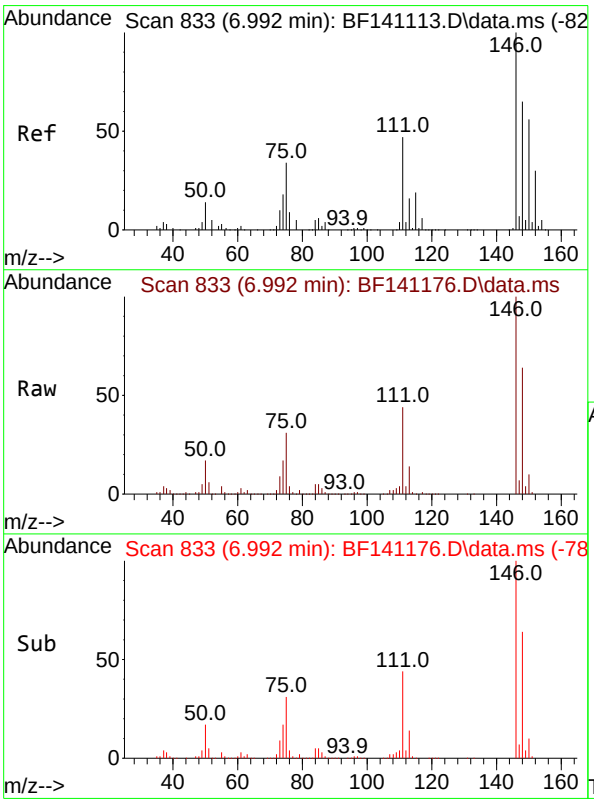
#13
1,4-Dichlorobenzene
Concen: 28.999 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:146 Resp: 323869

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	42.8	34.9	52.3

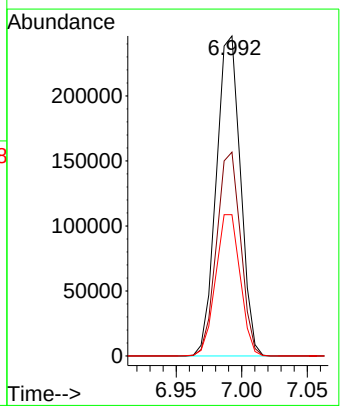


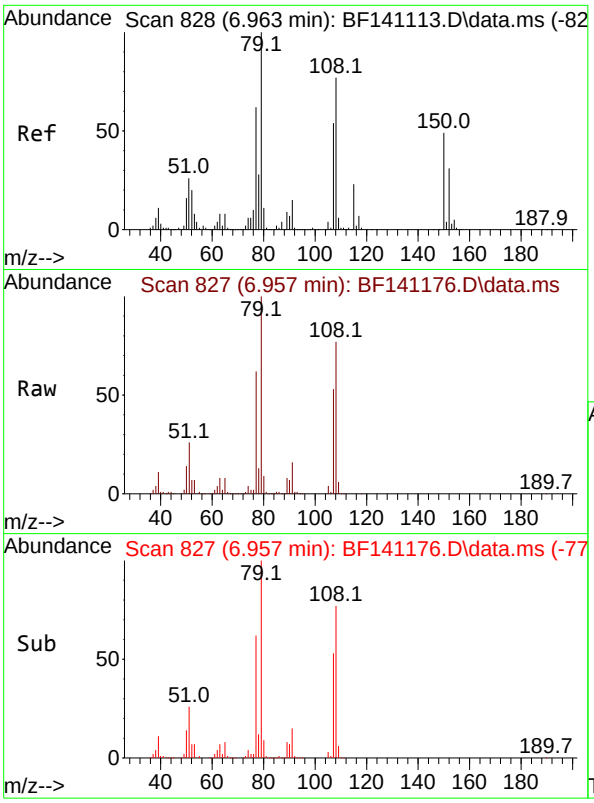


#14
1,2-Dichlorobenzene
Concen: 30.265 ng
RT: 6.992 min Scan# 833
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:146 Resp: 315295

Ion	Ratio	Lower	Upper
146	100		
148	63.7	52.2	78.4
111	44.1	37.5	56.3



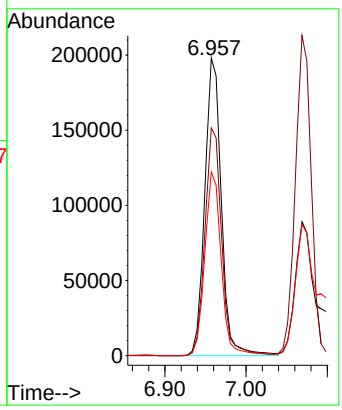


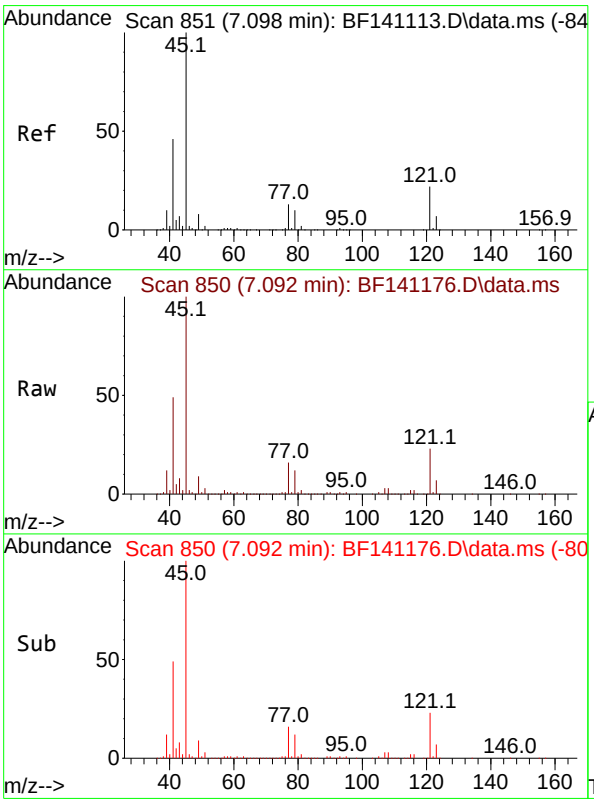
#15
Benzyl Alcohol
Concen: 33.086 ng
RT: 6.957 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 79 Resp: 280336

Ion	Ratio	Lower	Upper
79	100		
108	76.5	61.4	92.0
77	61.7	49.8	74.6

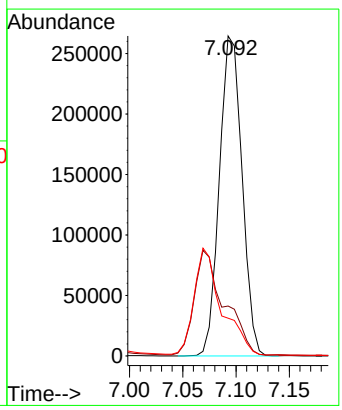


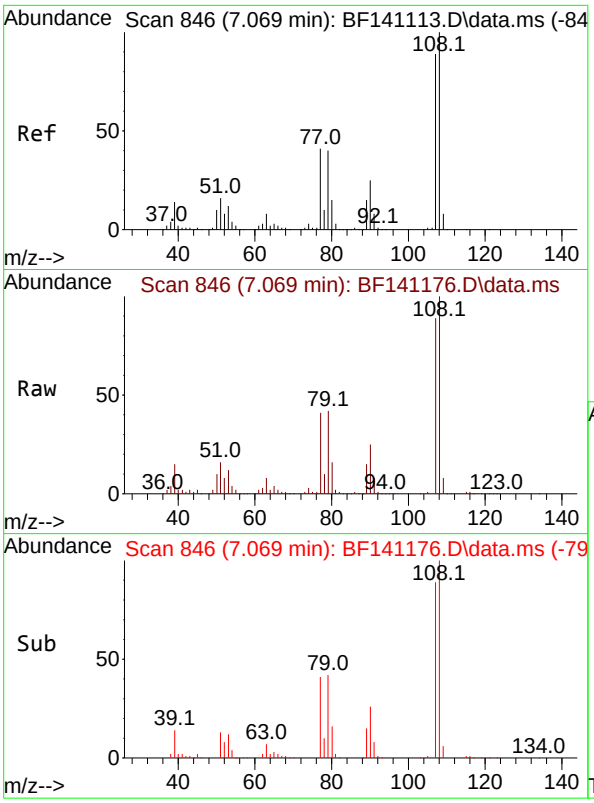


#16
2,2'-oxybis(1-Chloropropane)
Concen: 29.918 ng
RT: 7.092 min Scan# 850
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 45 Resp: 390750

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.1
79	11.8	0.0	31.0



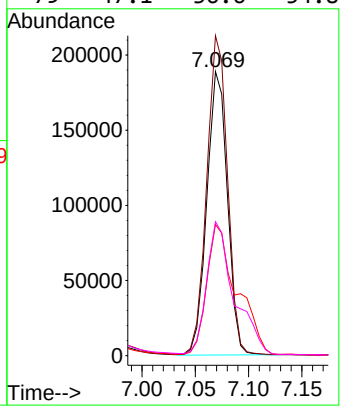


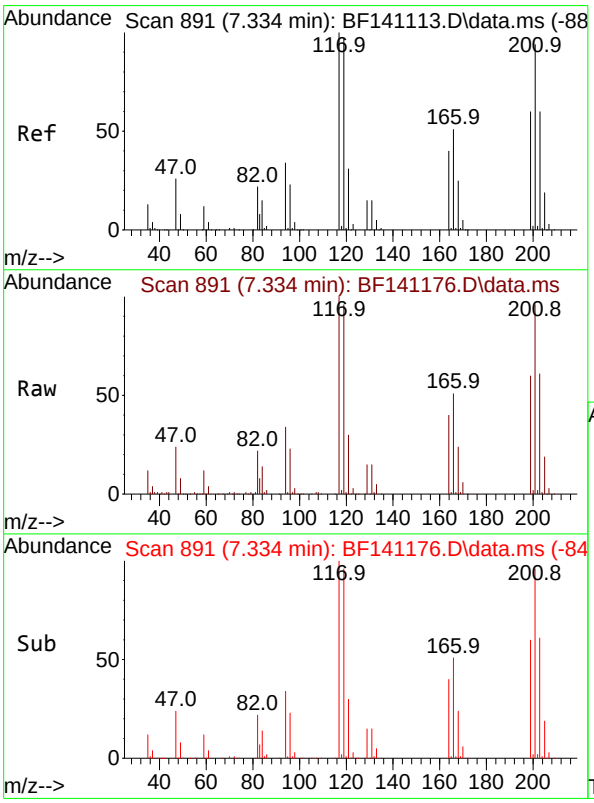
#17
2-Methylphenol
Concen: 31.569 ng
RT: 7.069 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:107 Resp: 253262

Ion	Ratio	Lower	Upper
107	100		
108	112.6	90.1	135.1
77	46.2	36.6	55.0
79	47.1	36.6	54.8

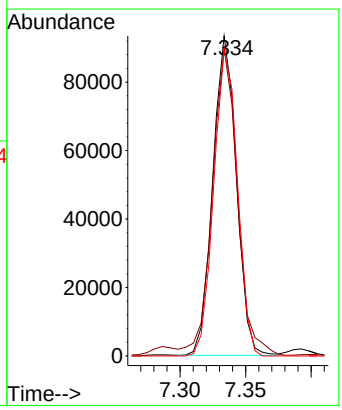


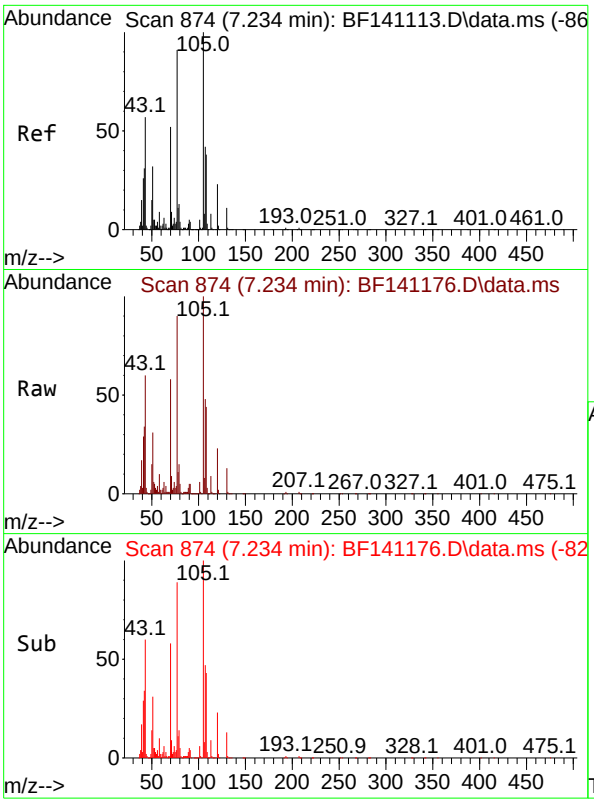


#18
Hexachloroethane
Concen: 28.846 ng
RT: 7.334 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:117 Resp: 116502

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.6	116.4
201	95.7	75.1	112.7



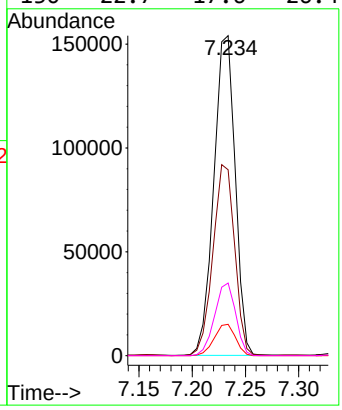


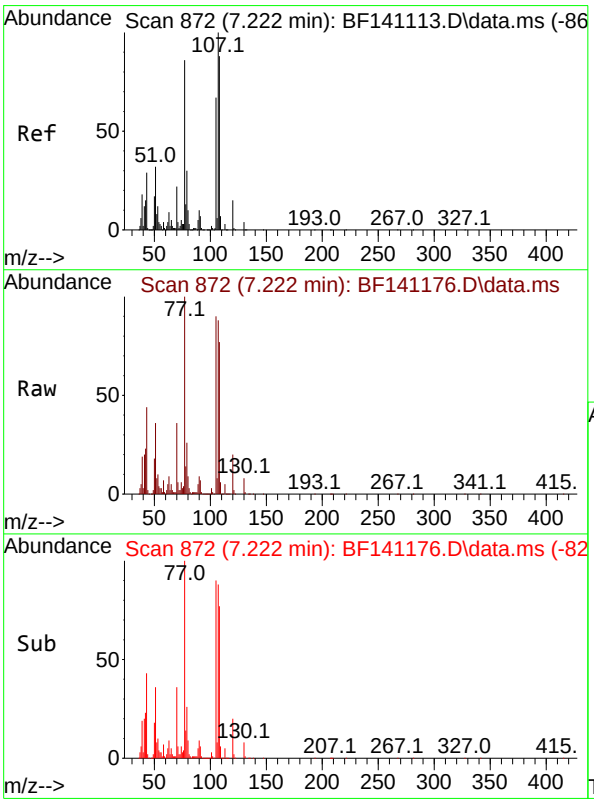
#19
n-Nitroso-di-n-propylamine
Concen: 31.050 ng
RT: 7.234 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 70 Resp: 214591

Ion	Ratio	Lower	Upper
70	100		
42	58.1	47.8	71.6
101	9.8	7.9	11.9
130	22.7	17.6	26.4

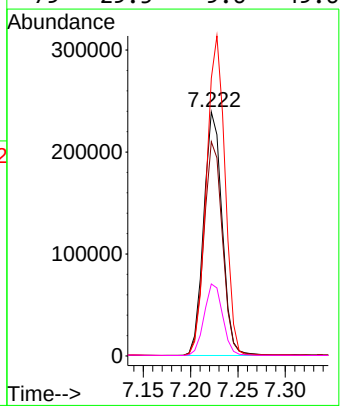


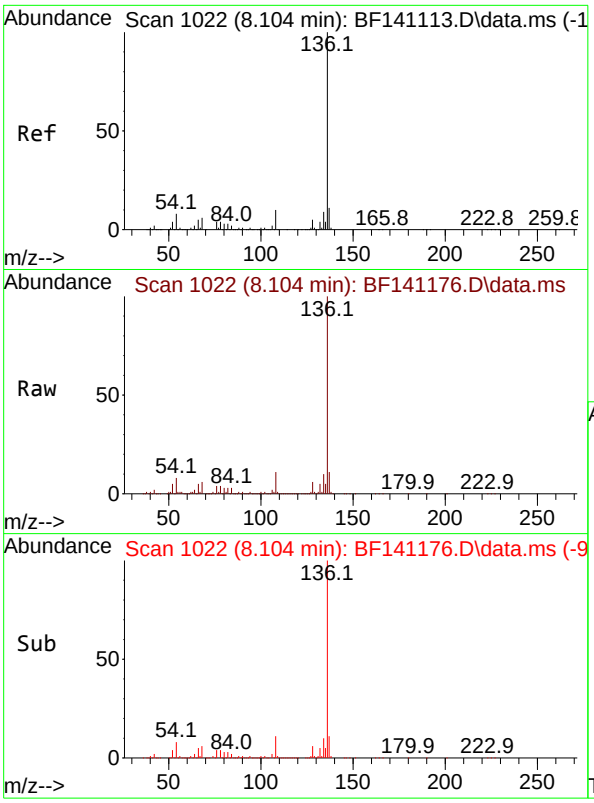


#20
3+4-Methylphenols
Concen: 32.030 ng
RT: 7.222 min Scan# 872
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:107 Resp: 324187

Ion	Ratio	Lower	Upper
107	100		
108	87.8	68.3	108.3
77	113.8	66.4	106.4#
79	29.5	9.6	49.6



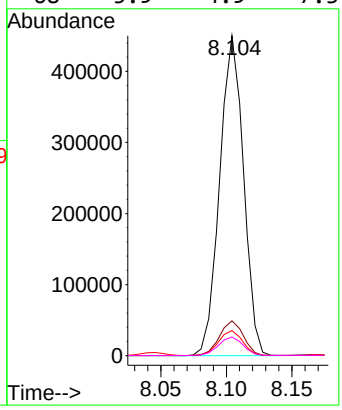


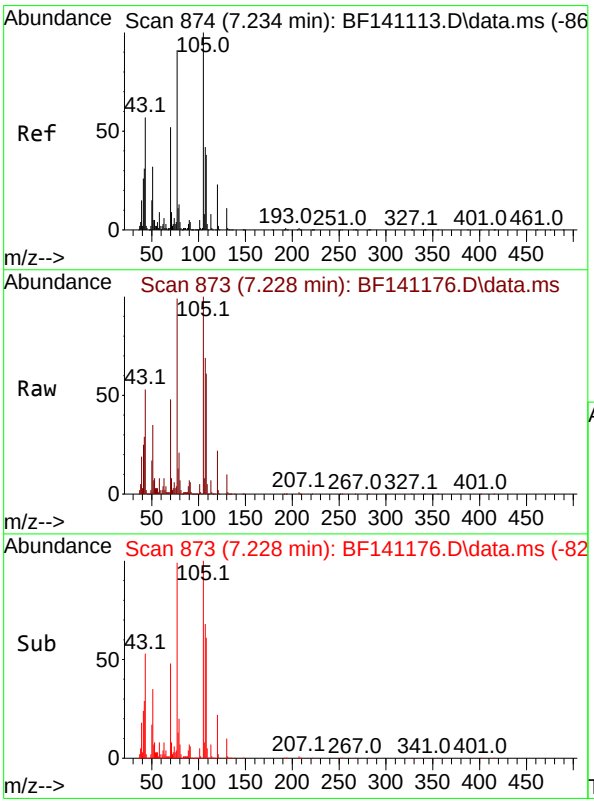
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:136 Resp: 569188

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.9	6.3	9.5
68	5.9	4.9	7.3

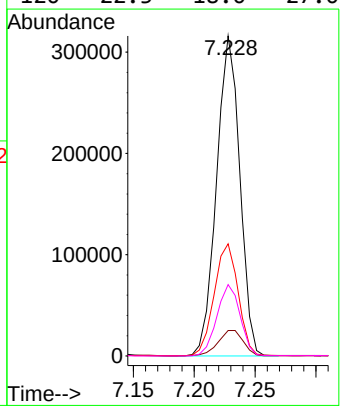


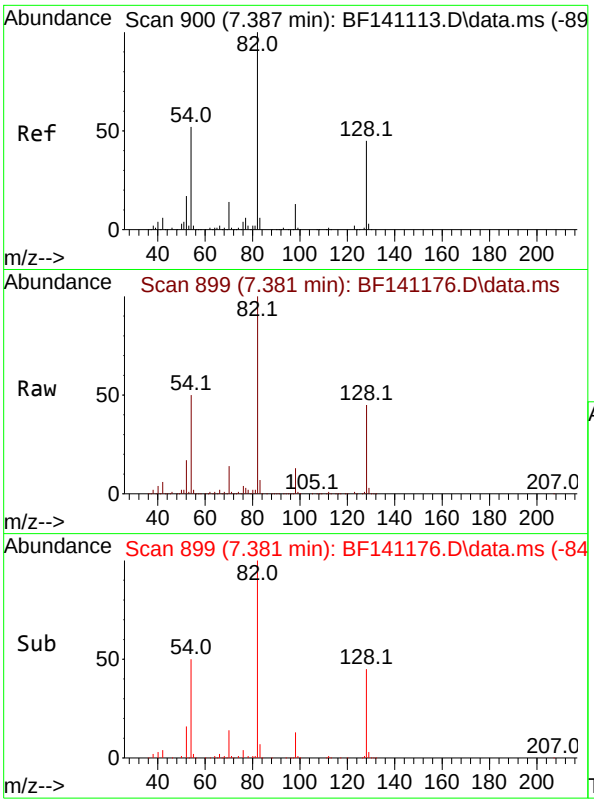


#22
Acetophenone
Concen: 31.075 ng
RT: 7.228 min Scan# 873
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:105 Resp: 420478

Ion	Ratio	Lower	Upper
105	100		
71	7.9	7.1	10.7
51	35.1	25.4	38.2
120	22.3	18.0	27.0



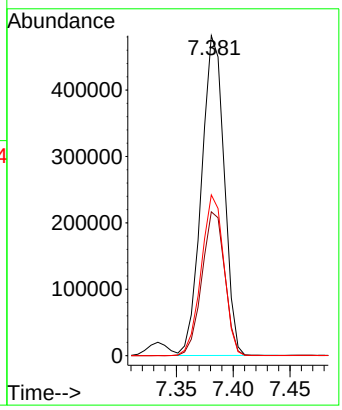


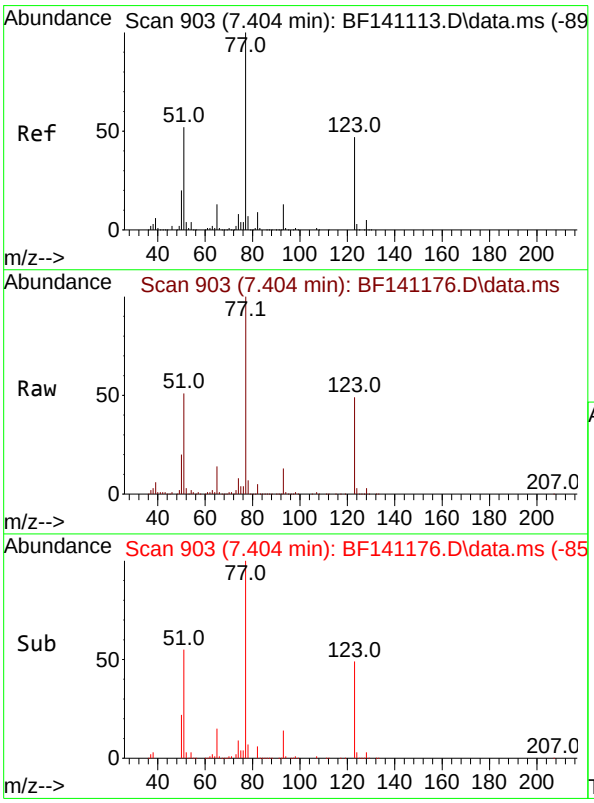
#23
Nitrobenzene-d5
Concen: 62.104 ng
RT: 7.381 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 82 Resp: 666857

Ion	Ratio	Lower	Upper
82	100		
128	45.0	36.1	54.1
54	50.2	41.0	61.4

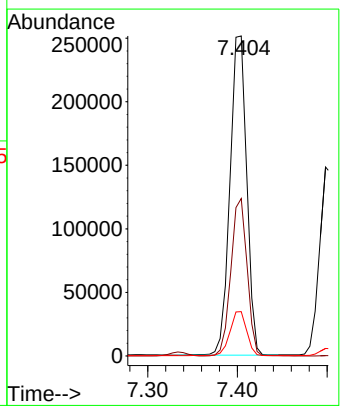


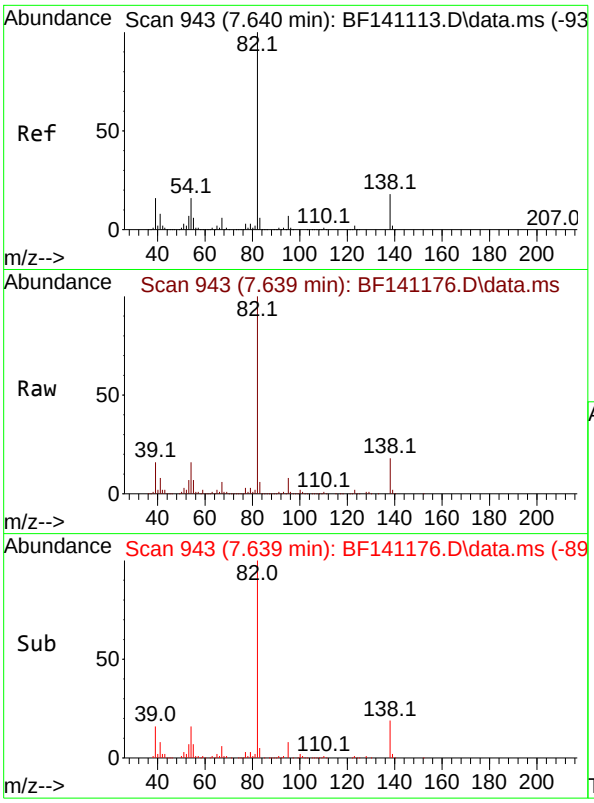


#24
Nitrobenzene
Concen: 29.097 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 77 Resp: 325628

Ion	Ratio	Lower	Upper
77	100		
123	49.2	37.7	56.5
65	13.8	10.6	16.0



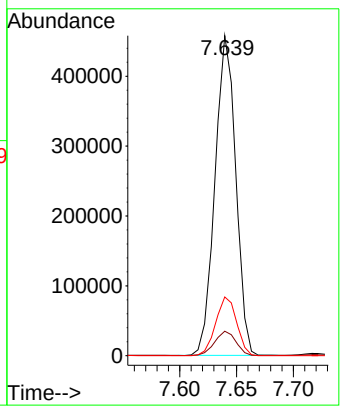


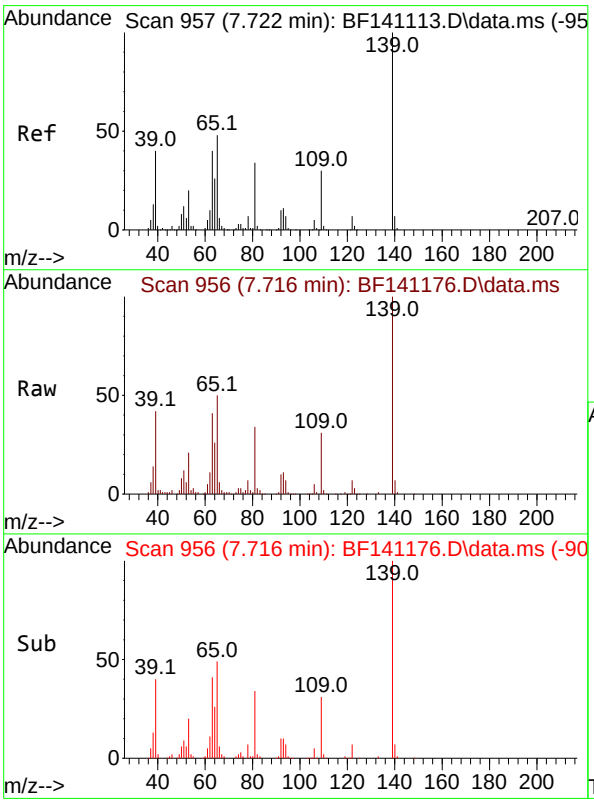
#25
Isophorone
Concen: 31.812 ng
RT: 7.639 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 82 Resp: 583759

Ion	Ratio	Lower	Upper
82	100		
95	7.7	5.9	8.9
138	18.4	14.2	21.2

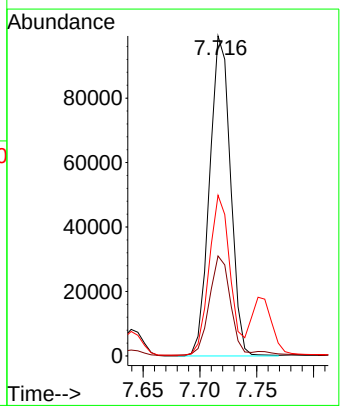


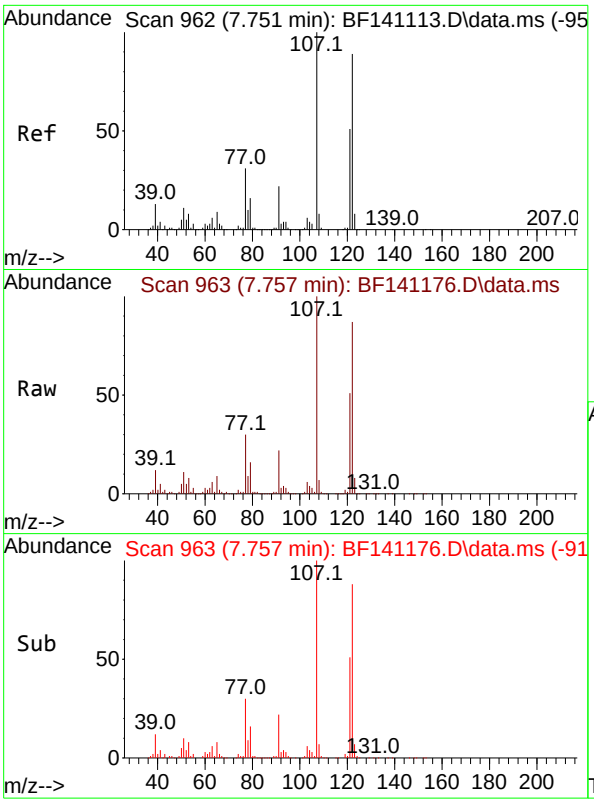


#26
2-Nitrophenol
Concen: 24.949 ng
RT: 7.716 min Scan# 956
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:139 Resp: 127008

Ion	Ratio	Lower	Upper
139	100		
109	31.2	23.8	35.6
65	50.2	38.5	57.7



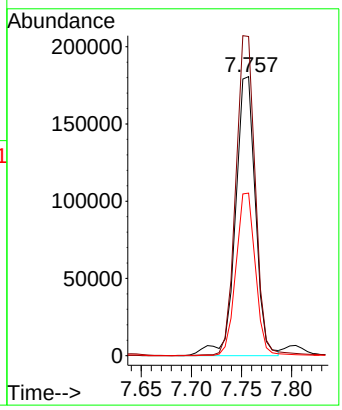


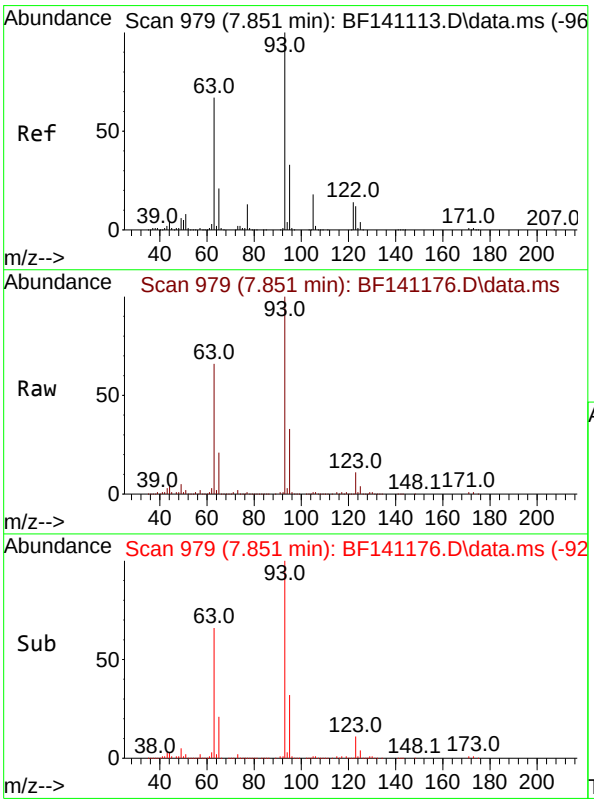
#27
2,4-Dimethylphenol
Concen: 36.528 ng
RT: 7.757 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:122 Resp: 250815

Ion	Ratio	Lower	Upper
122	100		
107	114.4	90.3	135.5
121	58.2	46.5	69.7

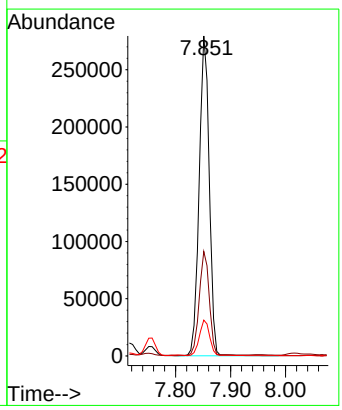


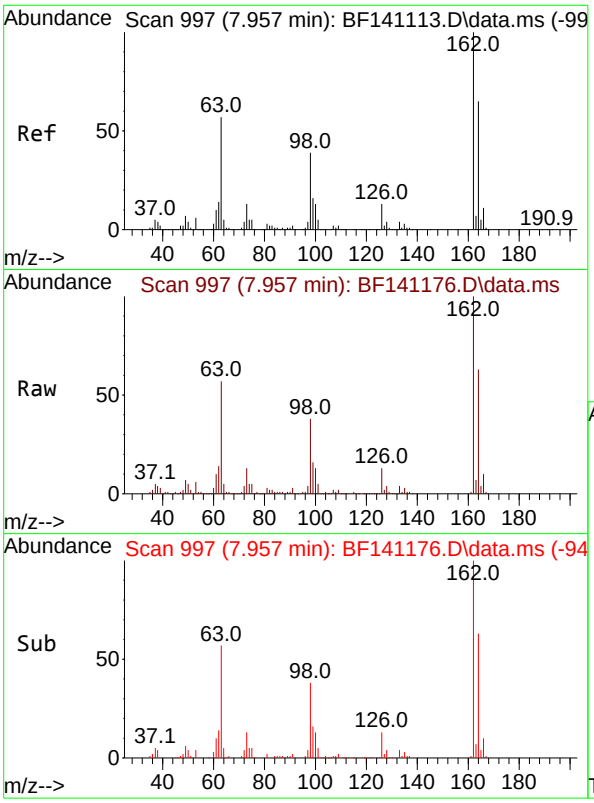


#28
bis(2-Chloroethoxy)methane
Concen: 30.949 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 93 Resp: 356419

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.4
123	11.2	10.1	15.1



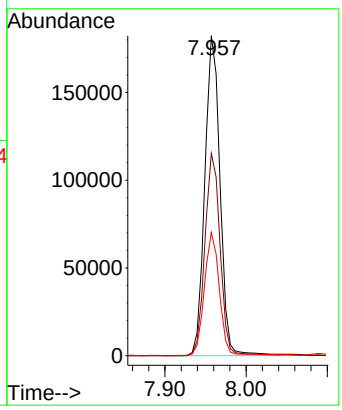


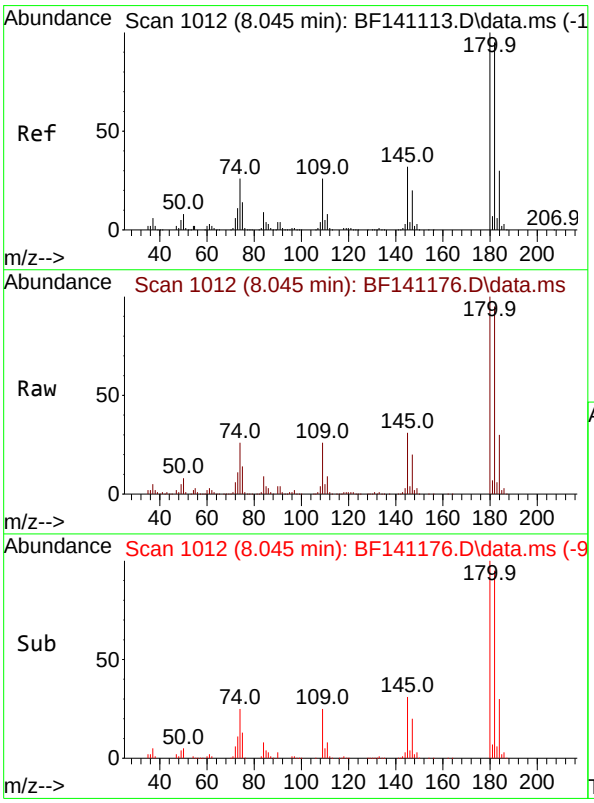
#29
2,4-Dichlorophenol
Concen: 29.043 ng
RT: 7.957 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:162 Resp: 236851

Ion	Ratio	Lower	Upper
162	100		
164	63.2	44.5	84.5
98	38.5	18.5	58.5

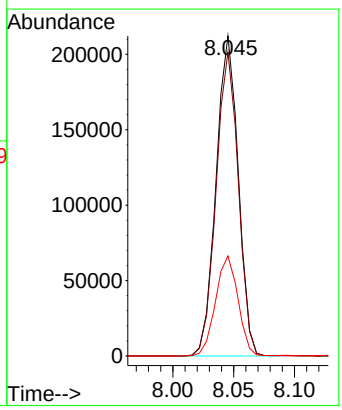


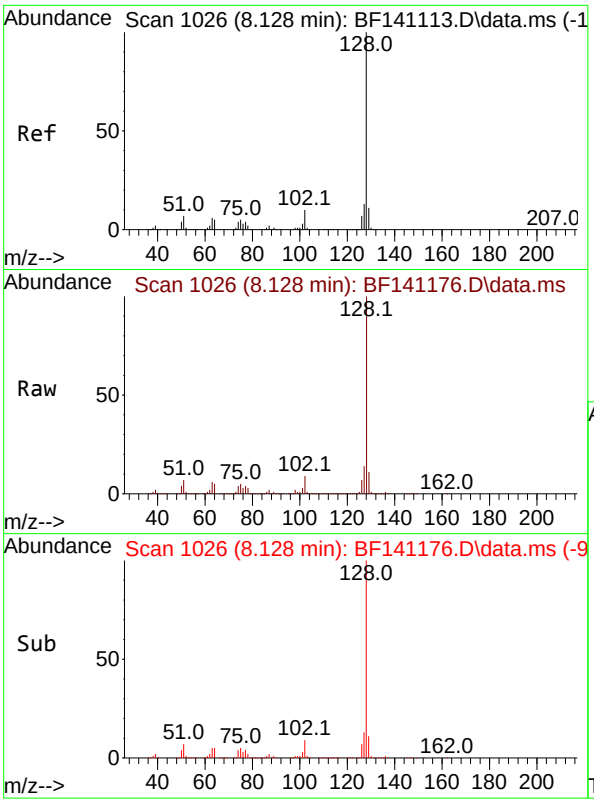


#30
1,2,4-Trichlorobenzene
Concen: 28.843 ng
RT: 8.045 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:180 Resp: 268865

Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.2	114.2
145	31.3	25.3	37.9



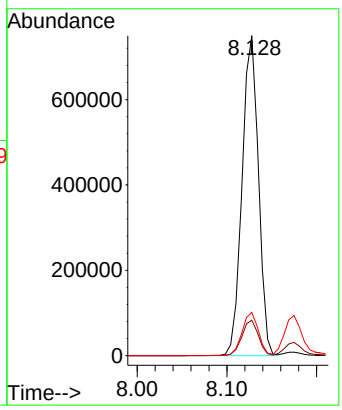


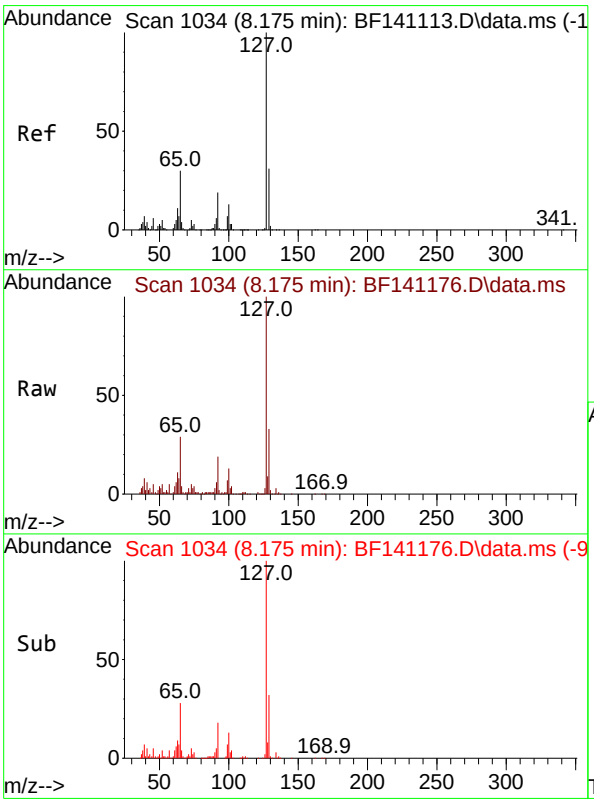
#31
Naphthalene
Concen: 31.607 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:128 Resp: 948739

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.6
127	13.5	10.8	16.2

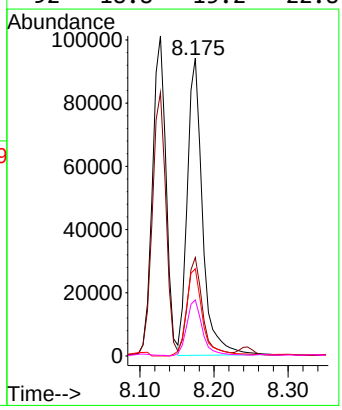


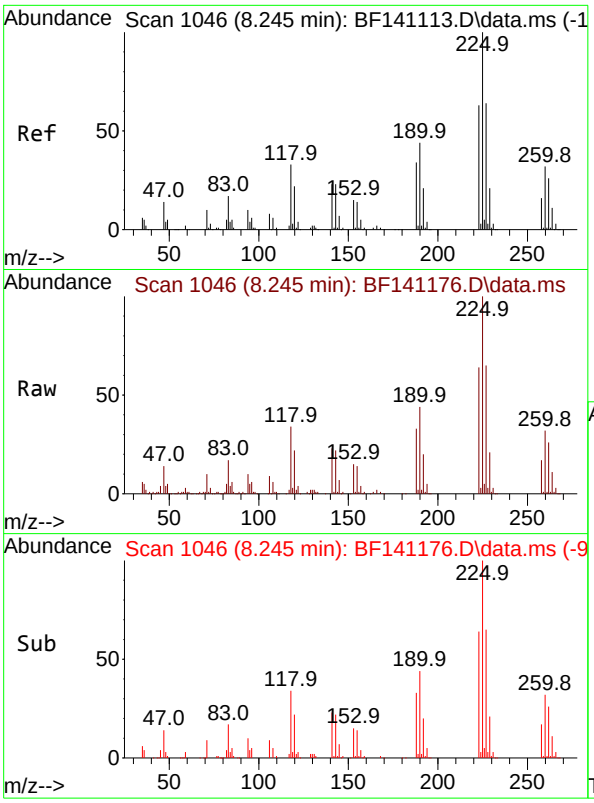


#33
4-Chloroaniline
Concen: 12.958 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:127 Resp: 134518

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.9	38.9
65	29.3	23.8	35.8
92	18.8	15.2	22.8



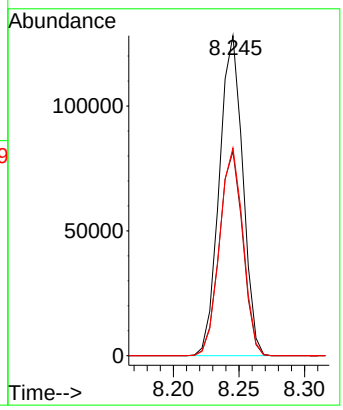


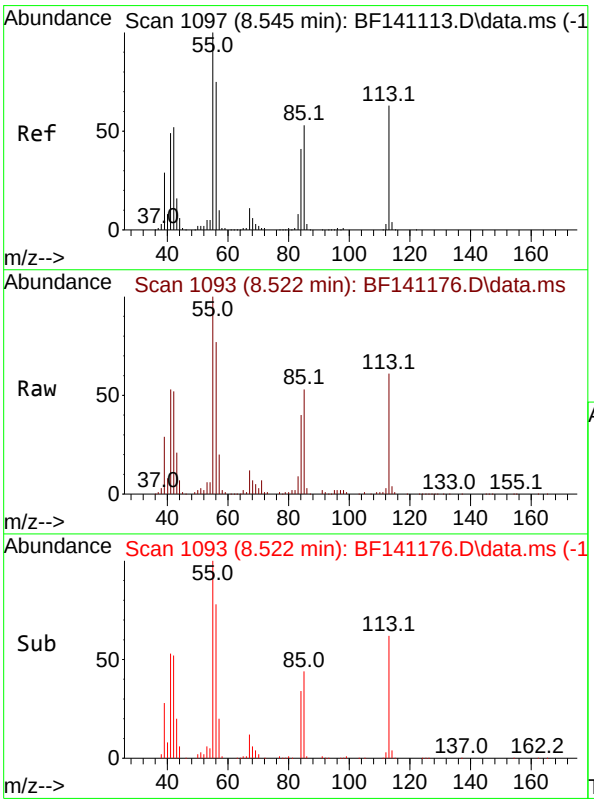
#34
Hexachlorobutadiene
Concen: 28.334 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:225 Resp: 159147

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.6	76.0
227	65.0	51.6	77.4

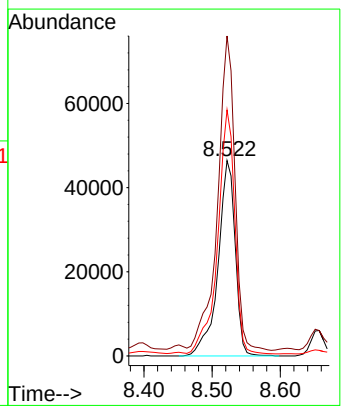


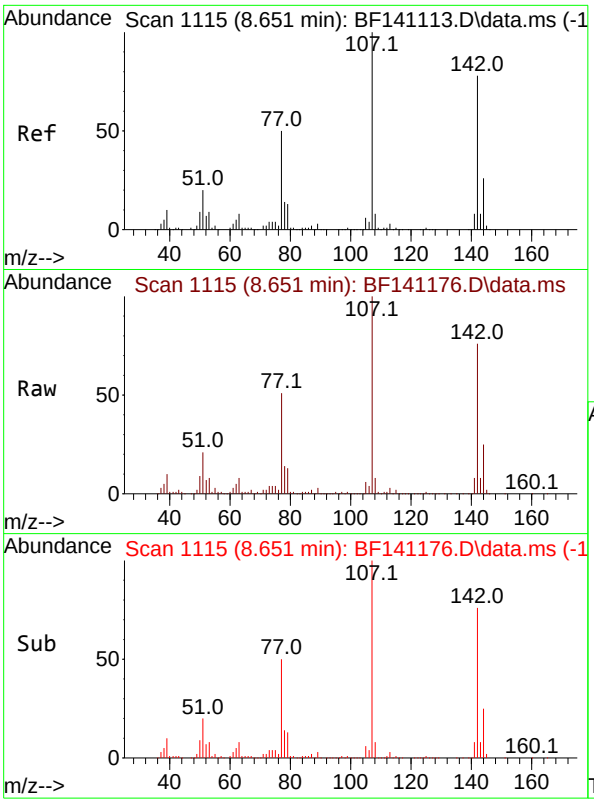


#35
Caprolactam
Concen: 30.523 ng
RT: 8.522 min Scan# 1093
Delta R.T. -0.024 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:113 Resp: 81493

Ion	Ratio	Lower	Upper
113	100		
55	163.8	139.7	179.7
56	126.0	99.4	139.4



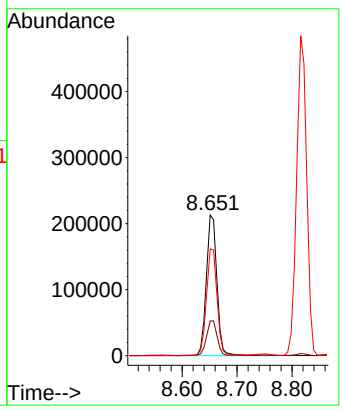


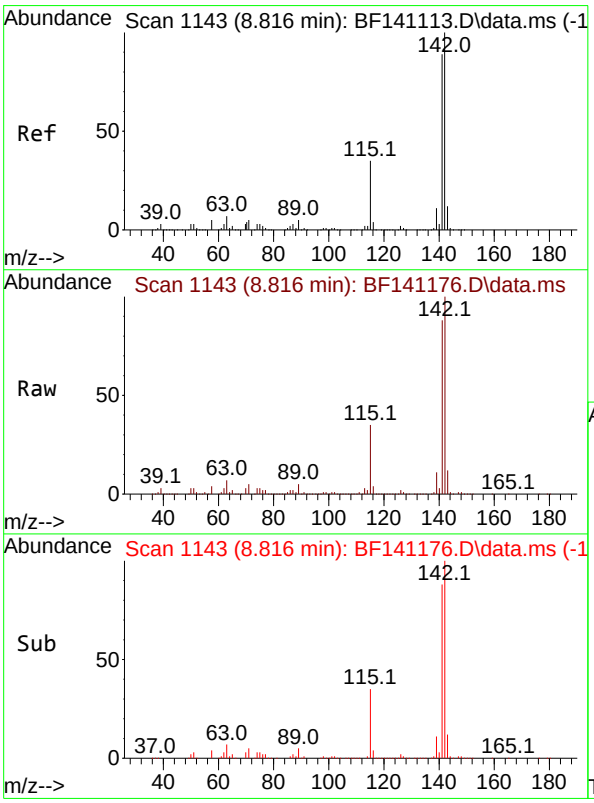
#36
4-Chloro-3-methylphenol
Concen: 31.937 ng
RT: 8.651 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:107 Resp: 284843

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.4	30.6
142	75.9	62.2	93.2

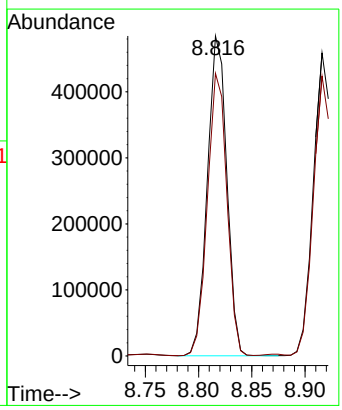


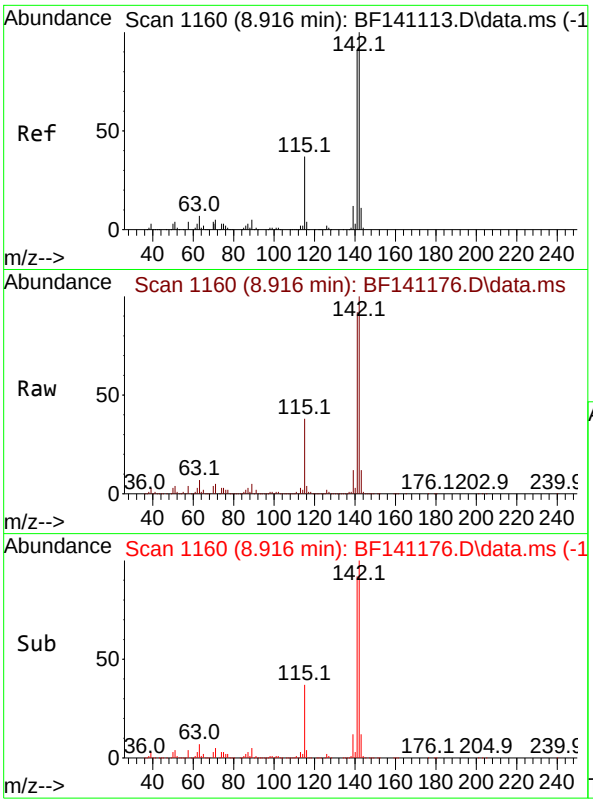


#37
2-Methylnaphthalene
Concen: 32.151 ng
RT: 8.816 min Scan# 1143
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:142 Resp: 614978

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.3	106.9



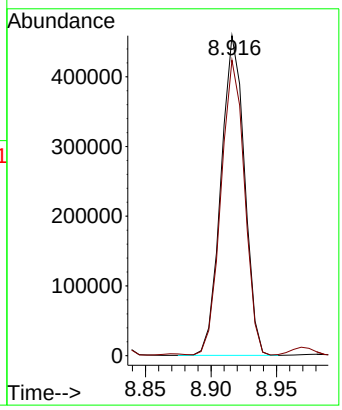


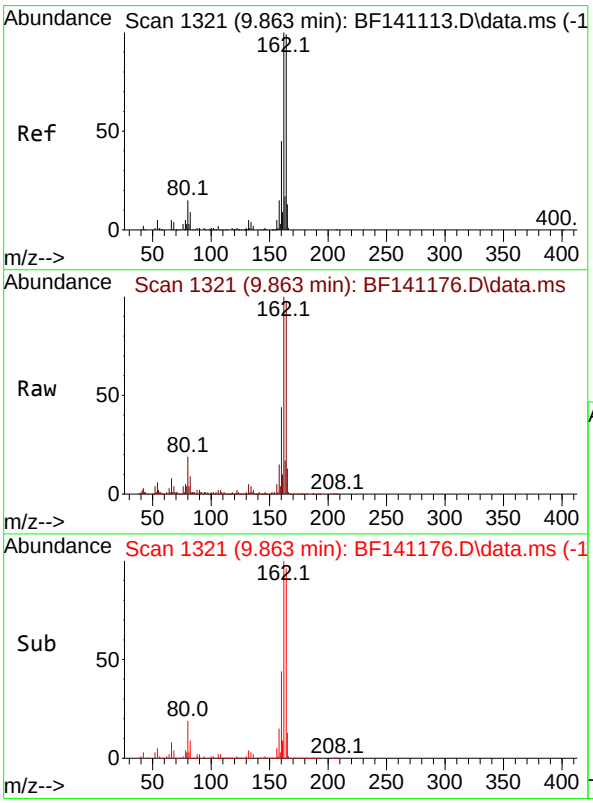
#38
1-Methylnaphthalene
Concen: 30.321 ng
RT: 8.916 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:142 Resp: 571584

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

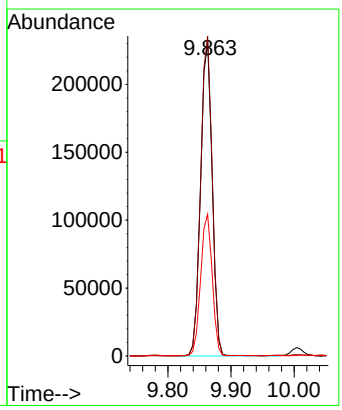


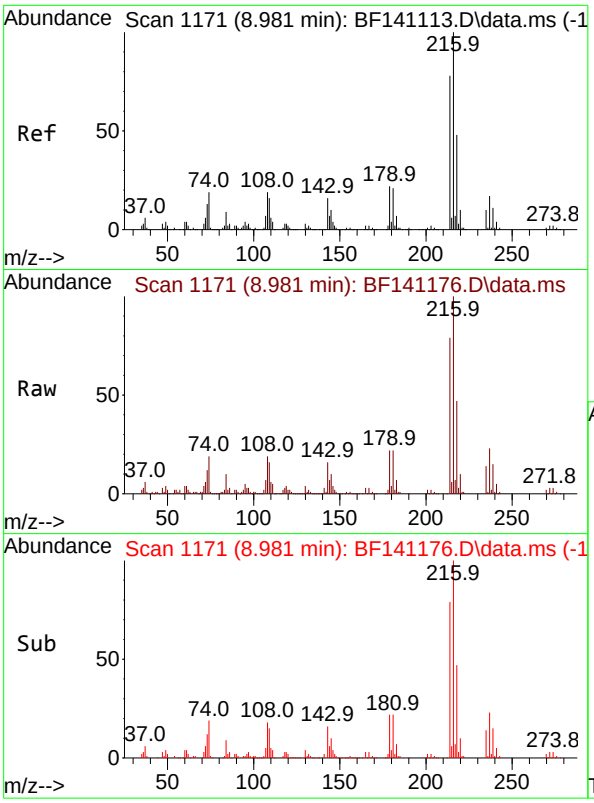


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:164 Resp: 294771

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.4
160	45.1	36.1	54.1



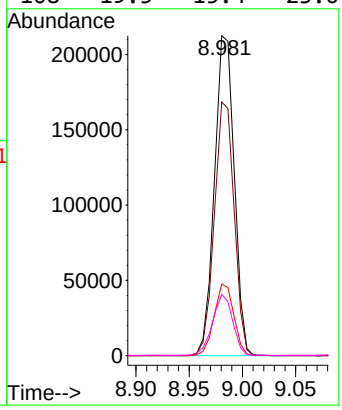


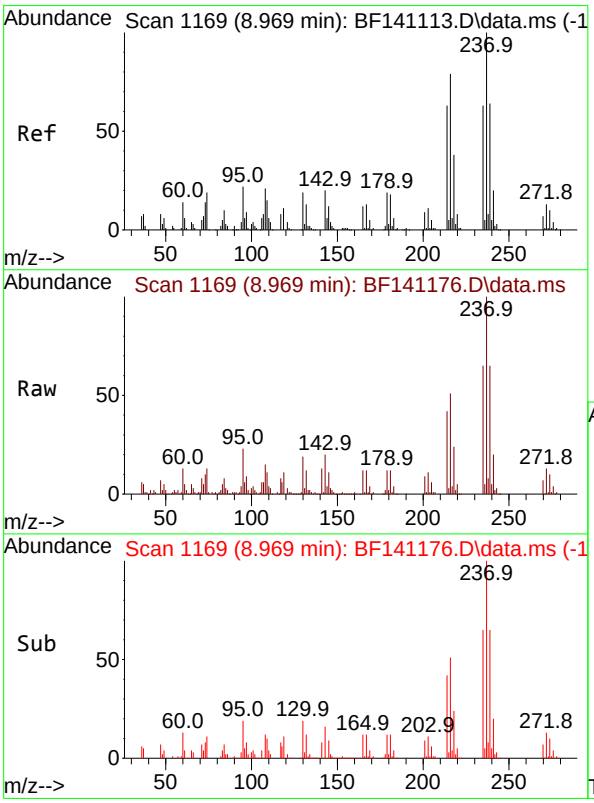
#40
1,2,4,5-Tetrachlorobenzene
Concen: 32.449 ng
RT: 8.981 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:216 Resp: 274538

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.6	94.0
179	22.0	17.7	26.5
108	19.5	15.4	23.0

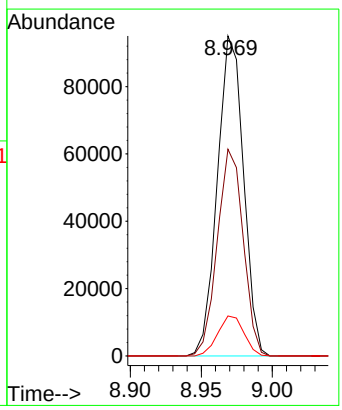


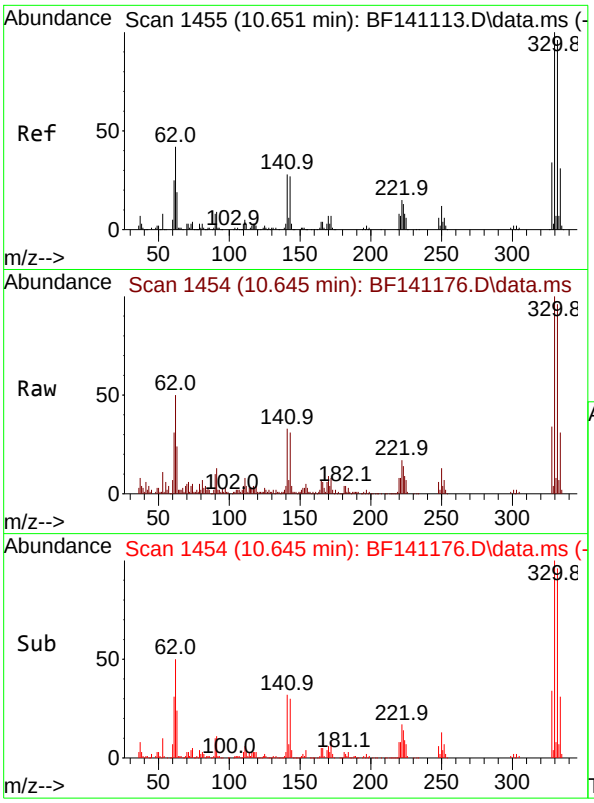


#41
Hexachlorocyclopentadiene
Concen: 43.925 ng
RT: 8.969 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:237 Resp: 121583

Ion	Ratio	Lower	Upper
237	100		
235	64.6	43.0	83.0
272	12.5	0.0	33.0



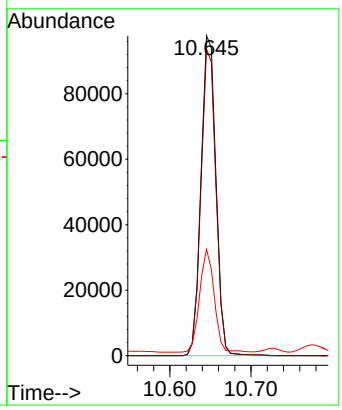


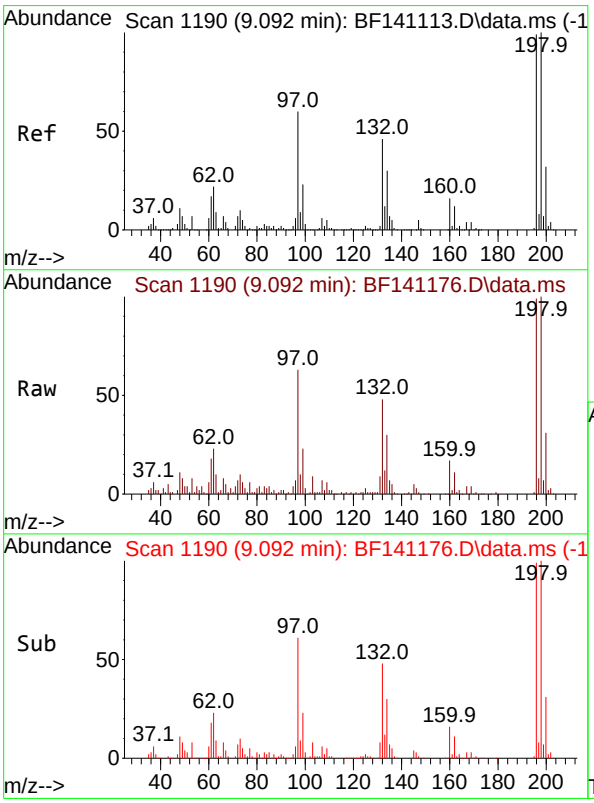
#42
2,4,6-Tribromophenol
Concen: 37.124 ng
RT: 10.645 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:330 Resp: 124689

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.9	115.3
141	31.3	25.2	37.8

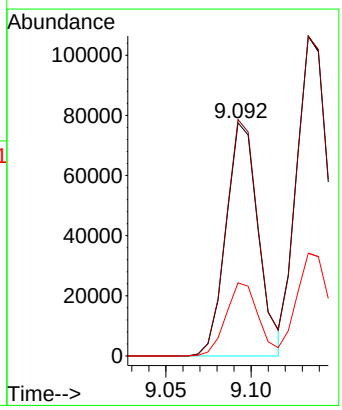


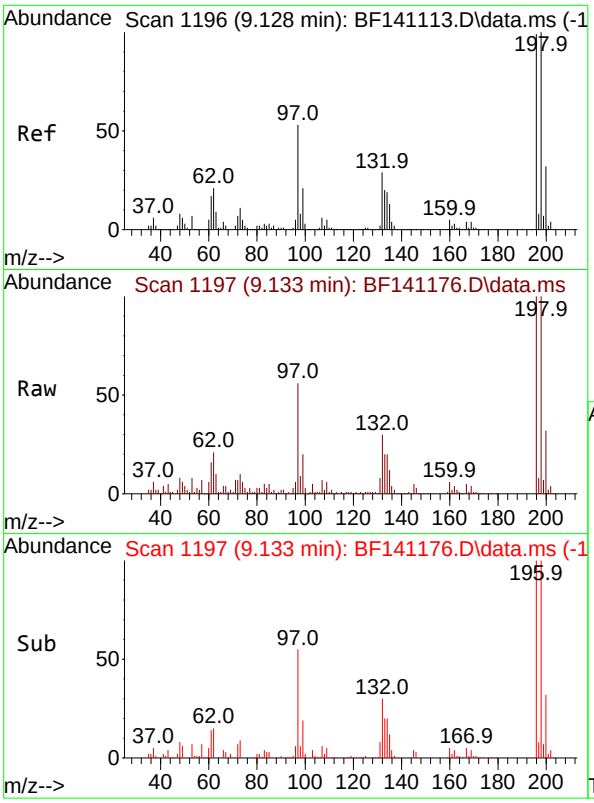


#43
2,4,6-Trichlorophenol
Concen: 17.856 ng
RT: 9.092 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:196 Resp: 101888

Ion	Ratio	Lower	Upper
196	100		
198	101.4	80.8	121.2
200	31.4	25.7	38.5



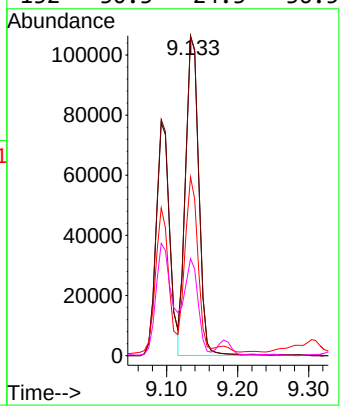


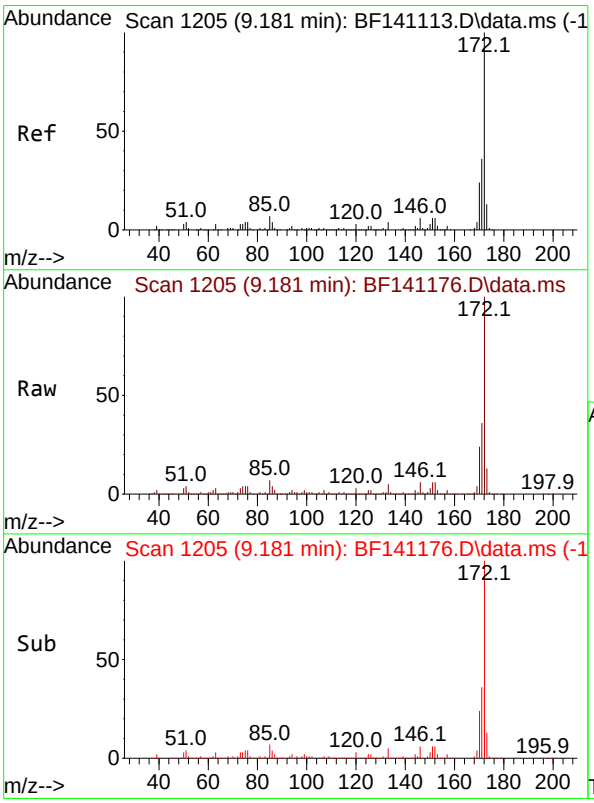
#44
2,4,5-Trichlorophenol
Concen: 22.875 ng
RT: 9.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:196 Resp: 137849

Ion	Ratio	Lower	Upper
196	100		
198	99.9	80.6	120.8
97	55.8	43.1	64.7
132	30.3	24.3	36.5

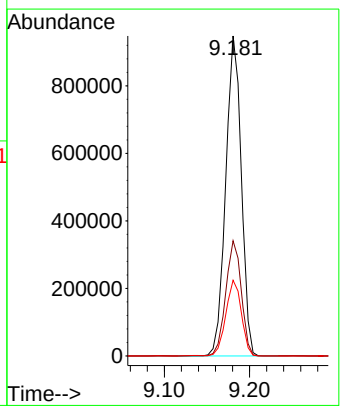


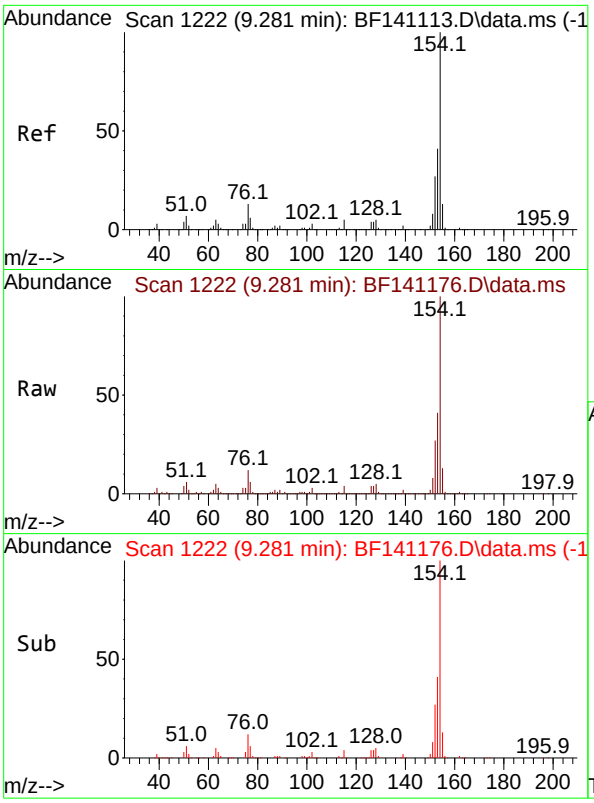


#45
2-Fluorobiphenyl
Concen: 62.565 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:172 Resp: 1207713

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.7	43.1
170	23.6	19.0	28.6



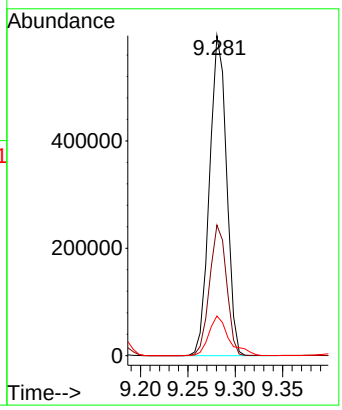


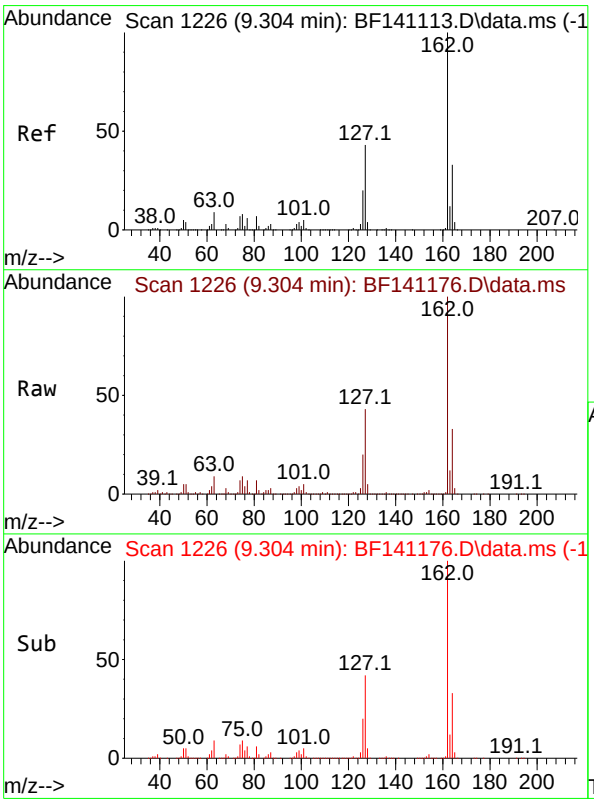
#46
1,1'-Biphenyl
Concen: 32.517 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:154 Resp: 744386

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.7	60.7
76	12.4	0.0	33.1

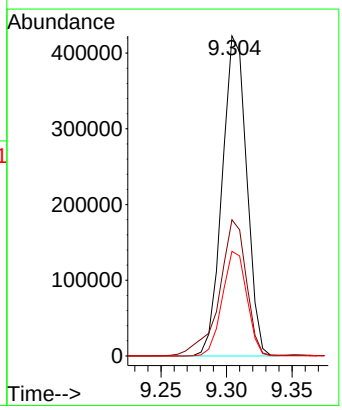


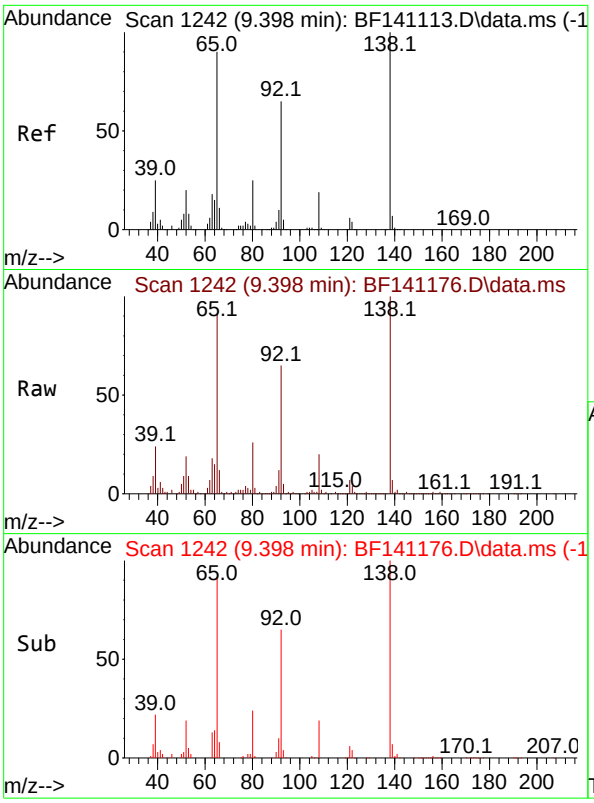


#47
2-Chloronaphthalene
Concen: 30.807 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:162 Resp: 549279

Ion	Ratio	Lower	Upper
162	100		
127	42.5	34.6	51.8
164	32.7	26.5	39.7



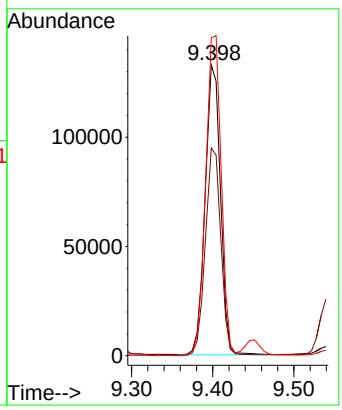


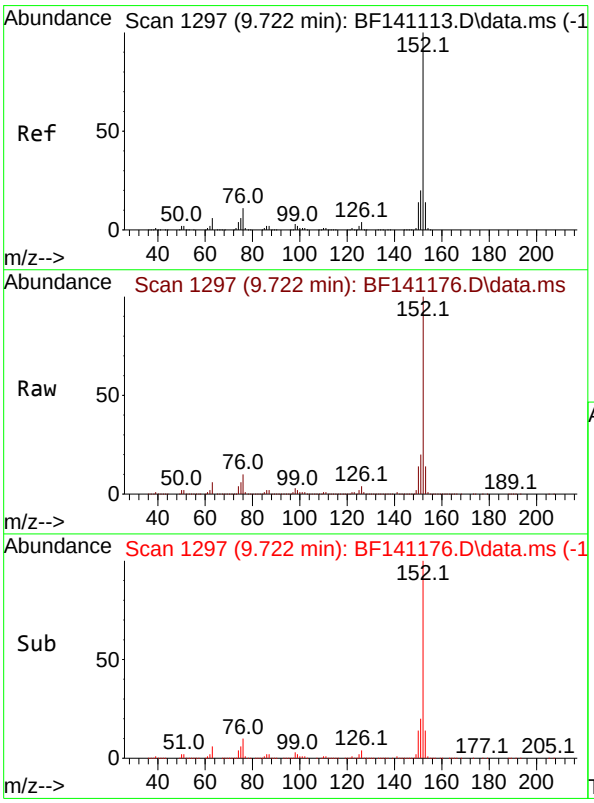
#48
2-Nitroaniline
Concen: 32.905 ng
RT: 9.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion: 65 Resp: 173916

Ion	Ratio	Lower	Upper
65	100		
92	71.5	58.3	87.5
138	109.4	89.1	133.7

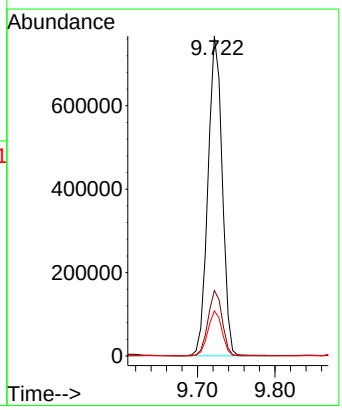


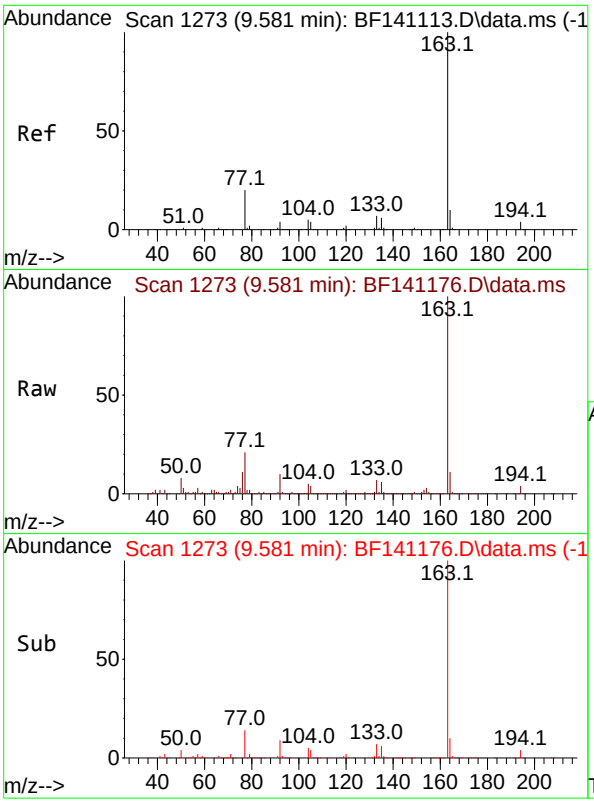


#49
Acenaphthylene
Concen: 38.365 ng
RT: 9.722 min Scan# 1297
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:152 Resp: 977297

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.1	24.1
153	14.1	11.1	16.7



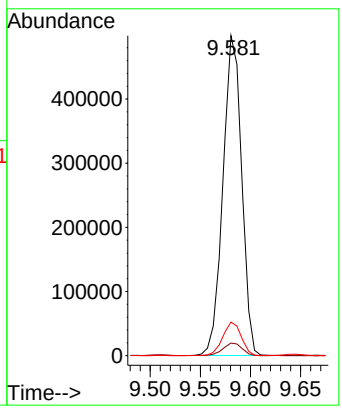


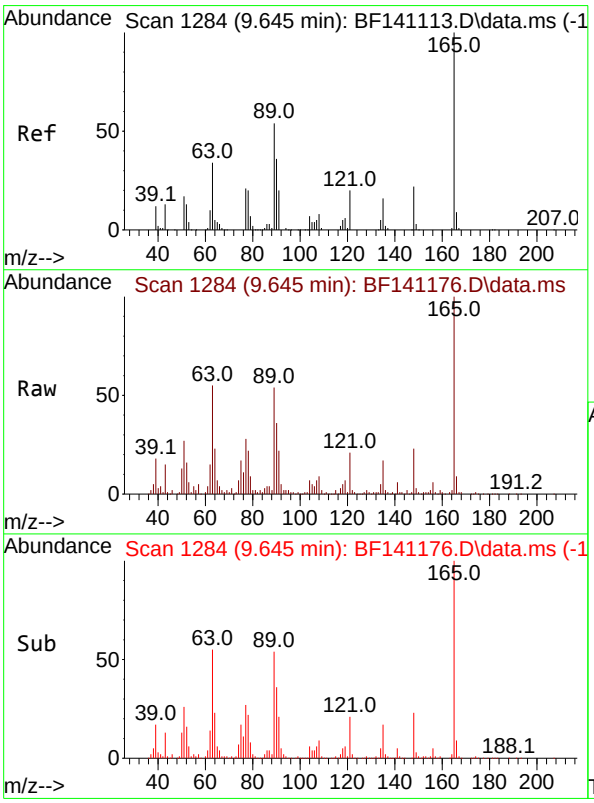
#50
Dimethylphthalate
Concen: 32.646 ng
RT: 9.581 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:163 Resp: 646040

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.5	8.2	12.4

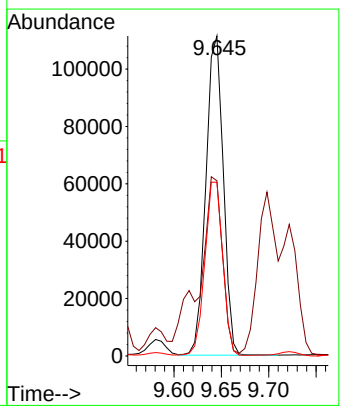


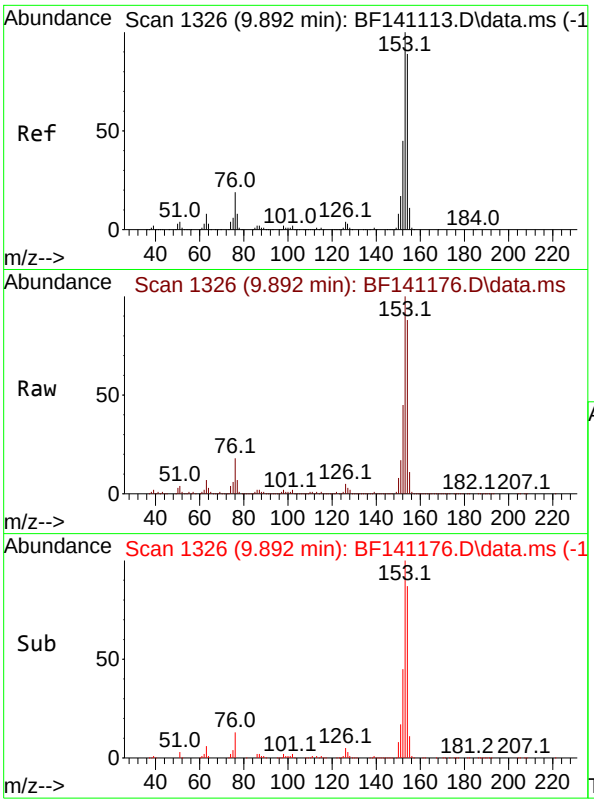


#51
2,6-Dinitrotoluene
Concen: 30.737 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:165 Resp: 141448

Ion	Ratio	Lower	Upper
165	100		
63	54.8	42.3	63.5
89	54.3	43.1	64.7



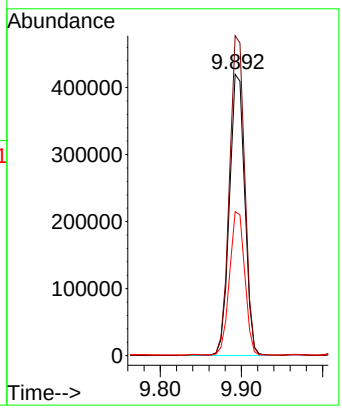


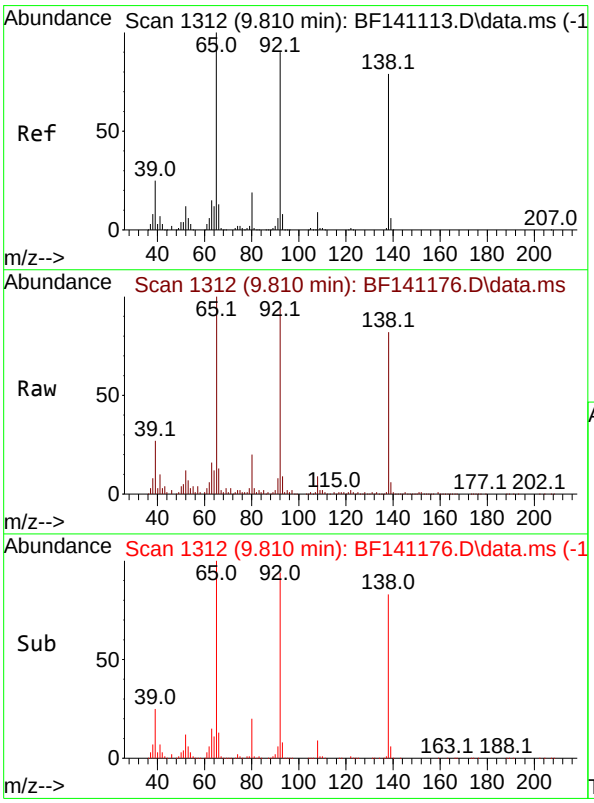
#52
Acenaphthene
Concen: 30.870 ng
RT: 9.892 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:154 Resp: 549398

Ion	Ratio	Lower	Upper
154	100		
153	113.7	89.8	134.6
152	51.2	40.8	61.2

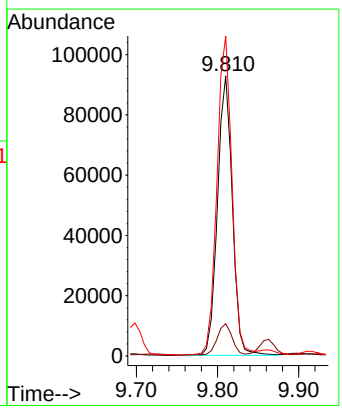


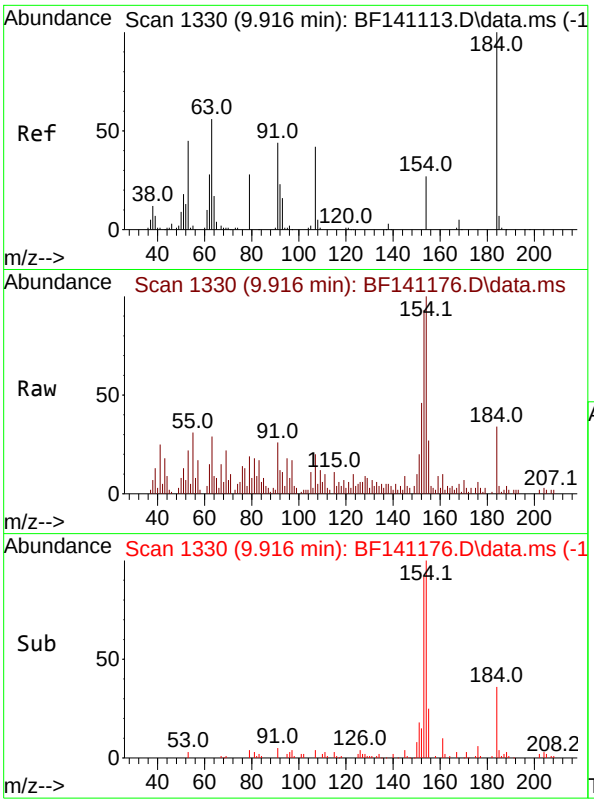


#53
3-Nitroaniline
Concen: 25.238 ng
RT: 9.810 min Scan# 1312
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:138 Resp: 118024

Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.8	13.2
92	114.2	91.3	136.9



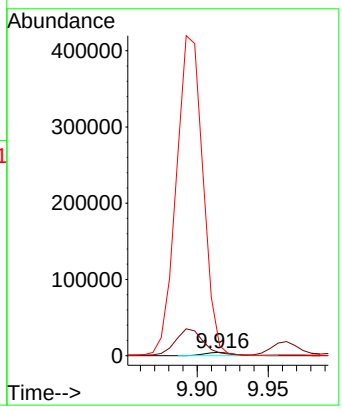


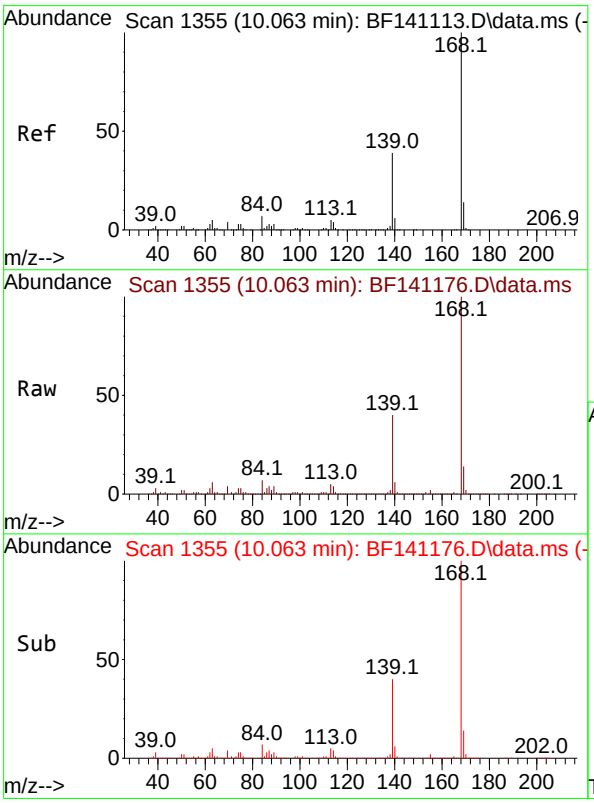
#54
2,4-Dinitrophenol
Concen: 2.668 ng
RT: 9.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:184 Resp: 5836

Ion	Ratio	Lower	Upper
184	100		
63	87.2	48.7	73.1#
154	298.4	57.1	85.7#

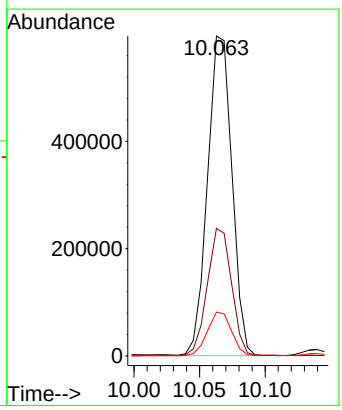


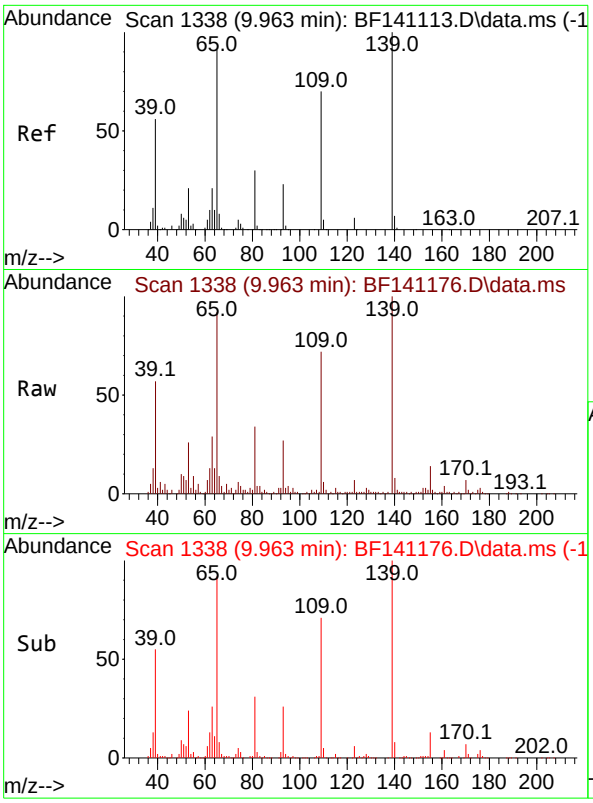


#55
Dibenzofuran
Concen: 31.903 ng
RT: 10.063 min Scan# 1355
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:168 Resp: 772302

Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.4	47.0
169	13.7	10.9	16.3



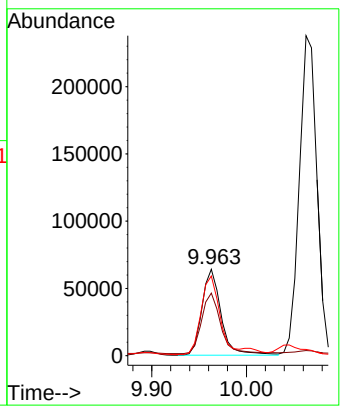


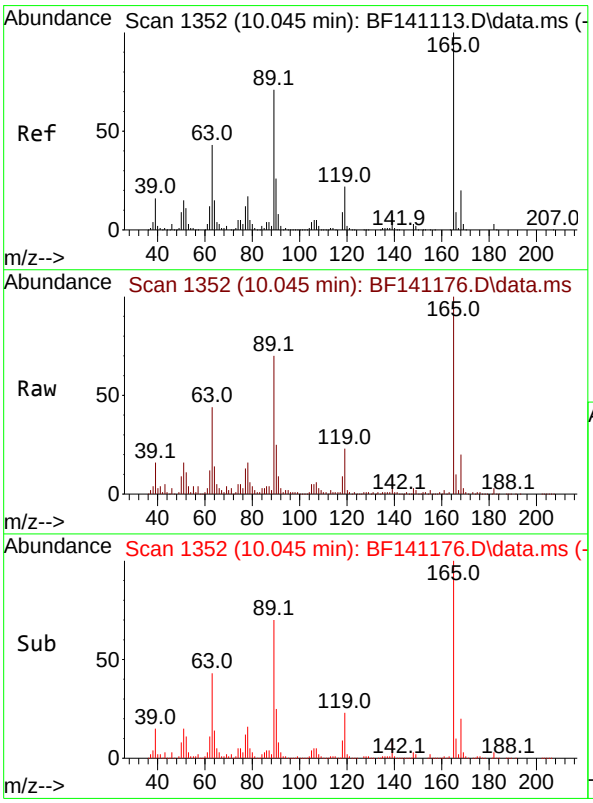
#56
4-Nitrophenol
Concen: 24.317 ng
RT: 9.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:139 Resp: 89059

Ion	Ratio	Lower	Upper
139	100		
109	72.4	50.2	90.2
65	92.3	72.1	112.1

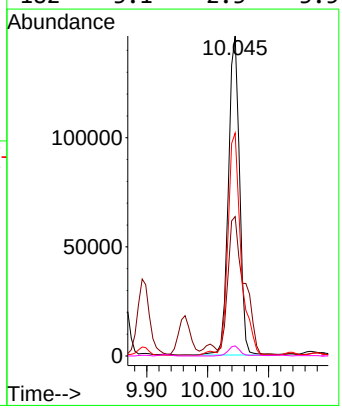


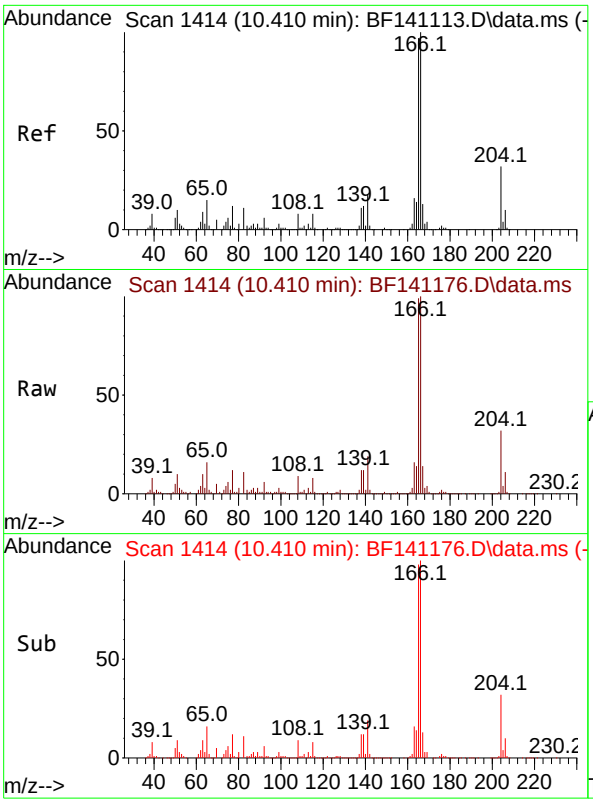


#57
2,4-Dinitrotoluene
Concen: 31.495 ng
RT: 10.045 min Scan# 1352
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:165 Resp: 186784

Ion	Ratio	Lower	Upper
165	100		
63	43.6	35.0	52.4
89	69.6	56.7	85.1
182	3.1	2.3	3.5



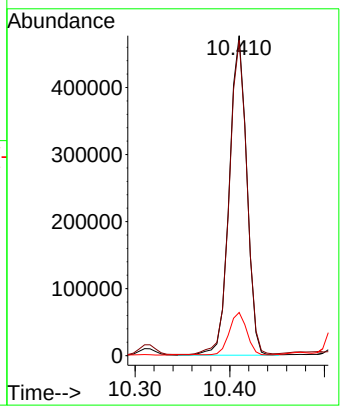


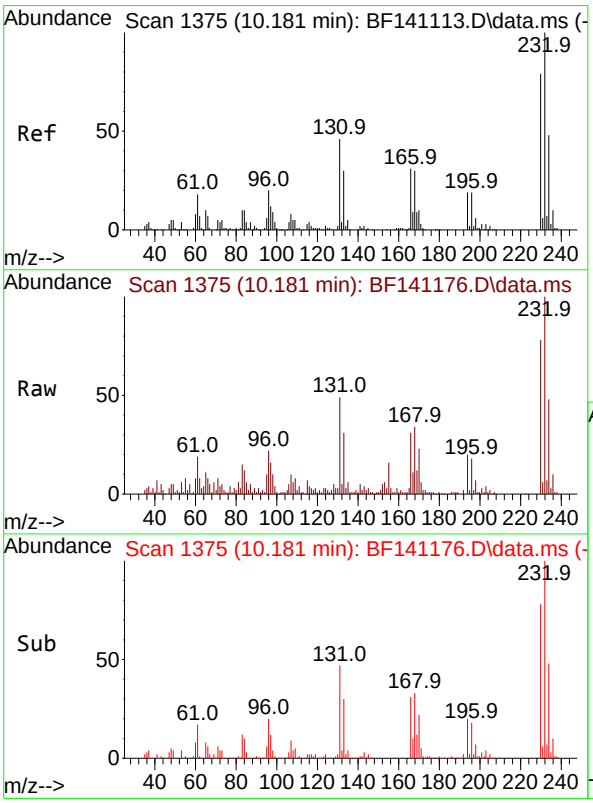
#58
Fluorene
Concen: 32.401 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:166 Resp: 609361

Ion	Ratio	Lower	Upper
166	100		
165	98.6	77.8	116.8
167	13.5	10.8	16.2

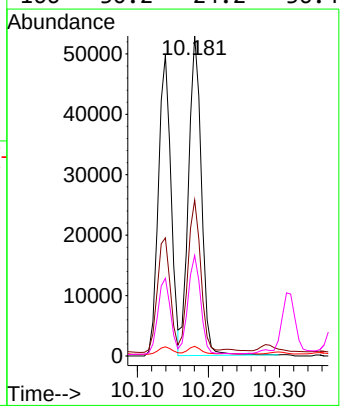


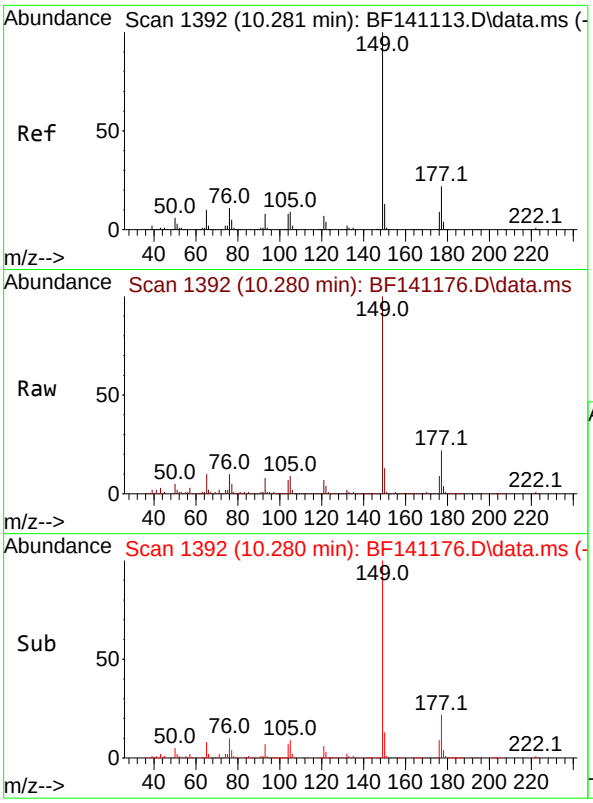


#59
2,3,4,6-Tetrachlorophenol
Concen: 13.269 ng
RT: 10.181 min Scan# 1375
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:232 Resp: 66467

Ion	Ratio	Lower	Upper
232	100		
131	46.0	36.2	54.4
130	2.2	2.0	3.0
166	30.2	24.2	36.4



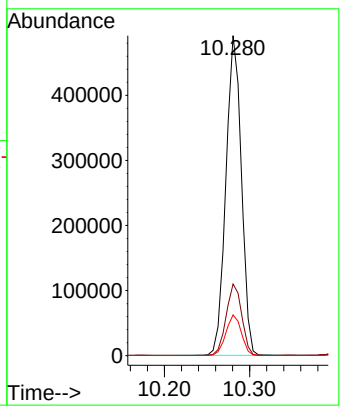


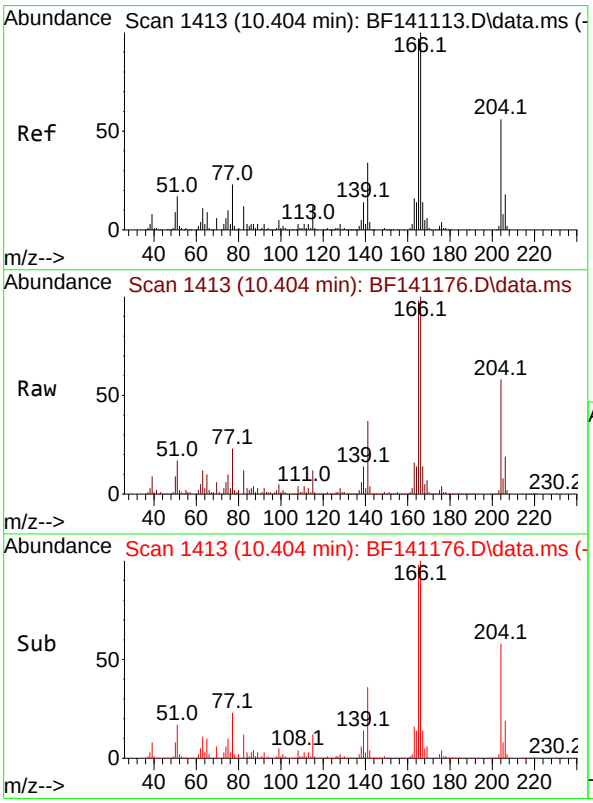
#60
Diethylphthalate
Concen: 32.105 ng
RT: 10.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:149 Resp: 620252

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.7	10.2	15.2

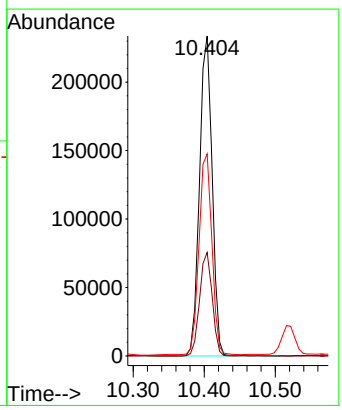


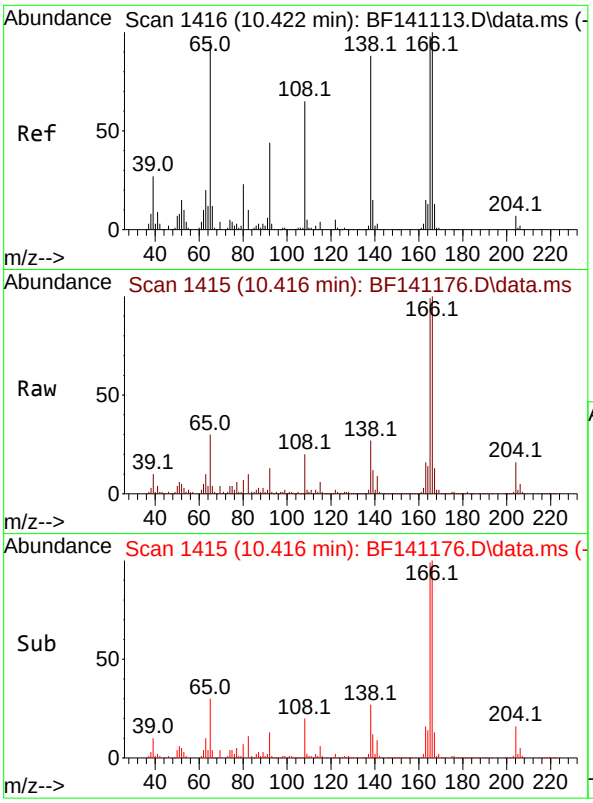


#61
4-Chlorophenyl-phenylether
Concen: 31.619 ng
RT: 10.404 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:204 Resp: 289829

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	63.1	49.1	73.7



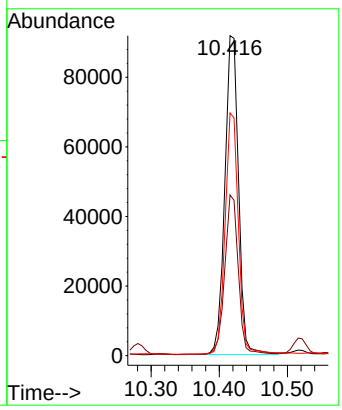


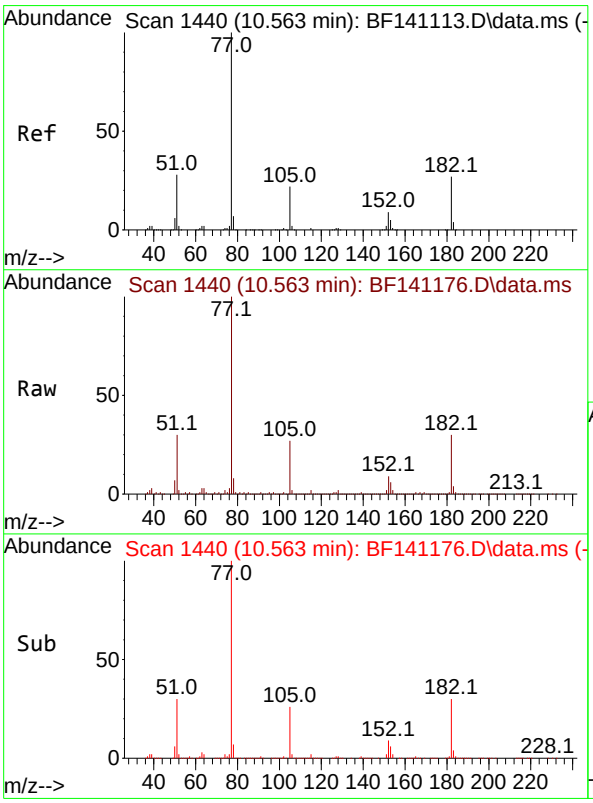
#62
4-Nitroaniline
Concen: 28.115 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:138 Resp: 128687

Ion	Ratio	Lower	Upper
138	100		
92	50.2	29.4	69.4
108	75.9	53.7	93.7

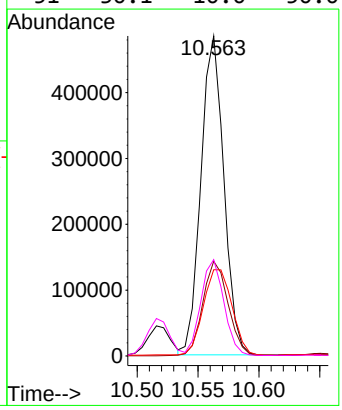


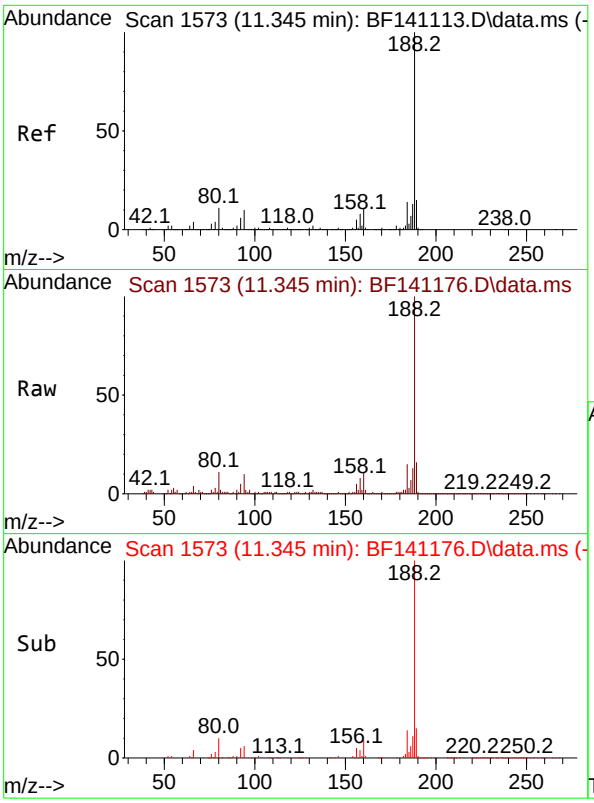


#63
Azobenzene
Concen: 33.284 ng
RT: 10.563 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion: 77 Resp: 634488

Ion	Ratio	Lower	Upper
77	100		
182	29.6	6.1	46.1
105	27.0	2.1	42.1
51	30.1	10.0	50.0



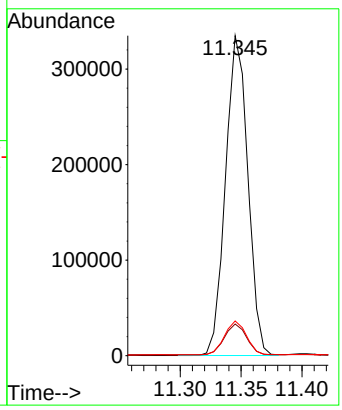


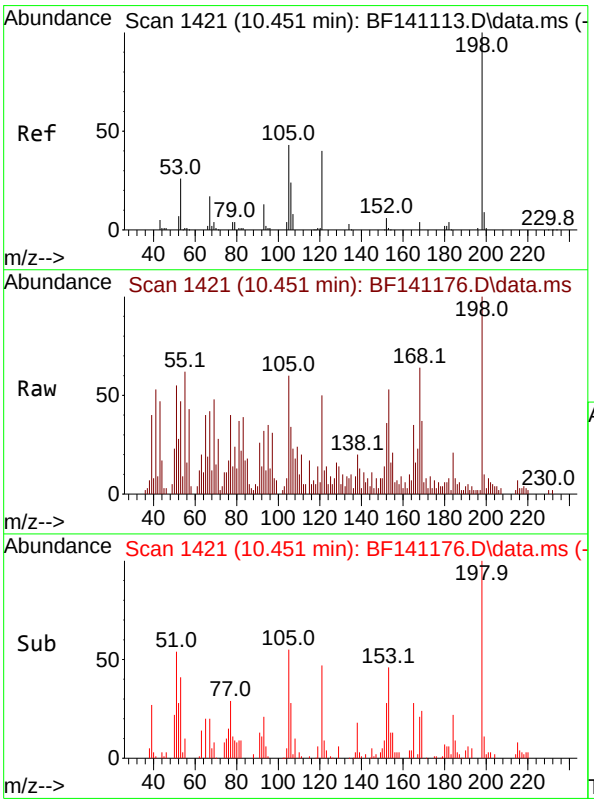
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:188 Resp: 427420

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.3	12.5
80	10.8	9.0	13.4

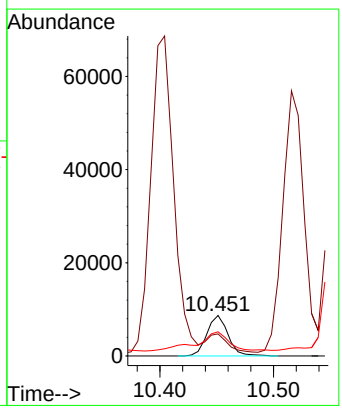


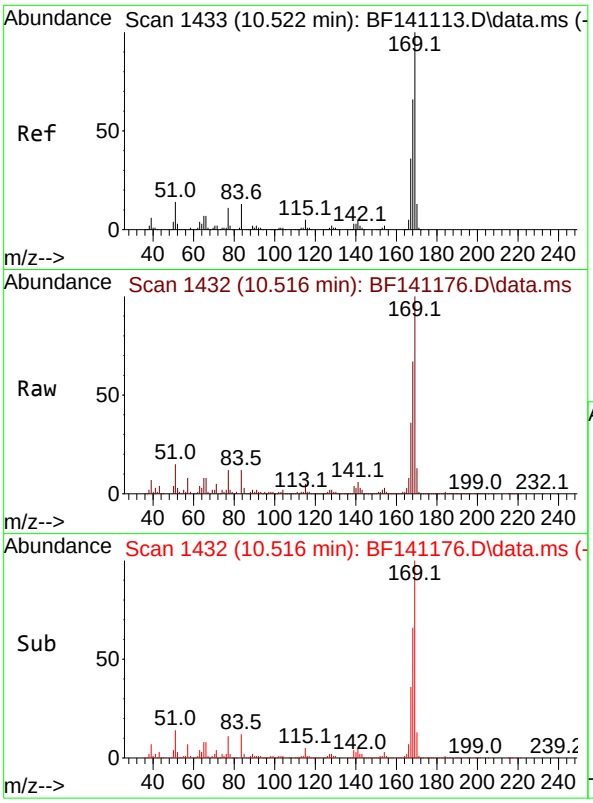


#65
4,6-Dinitro-2-methylphenol
Concen: 4.520 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:198 Resp: 11195

Ion	Ratio	Lower	Upper
198	100		
51	54.6	27.1	67.1
105	59.8	24.2	64.2



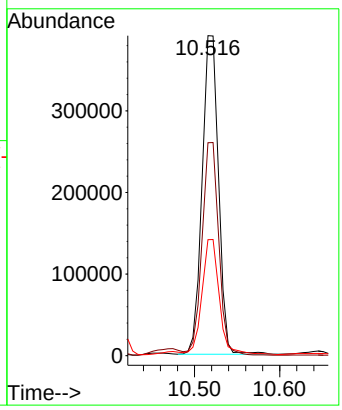


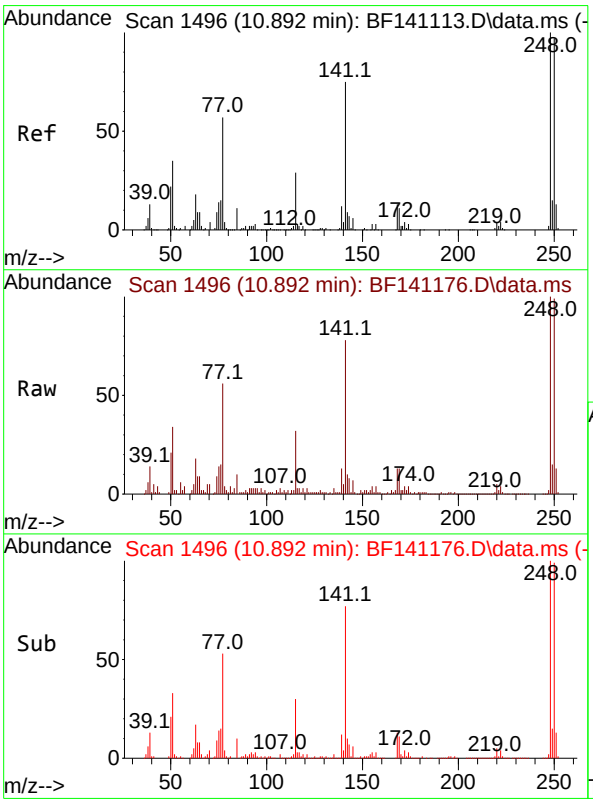
#66
n-Nitrosodiphenylamine
Concen: 37.894 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:169 Resp: 522412

Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.5	78.7
167	36.3	28.9	43.3

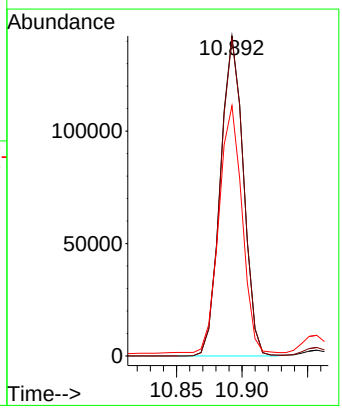


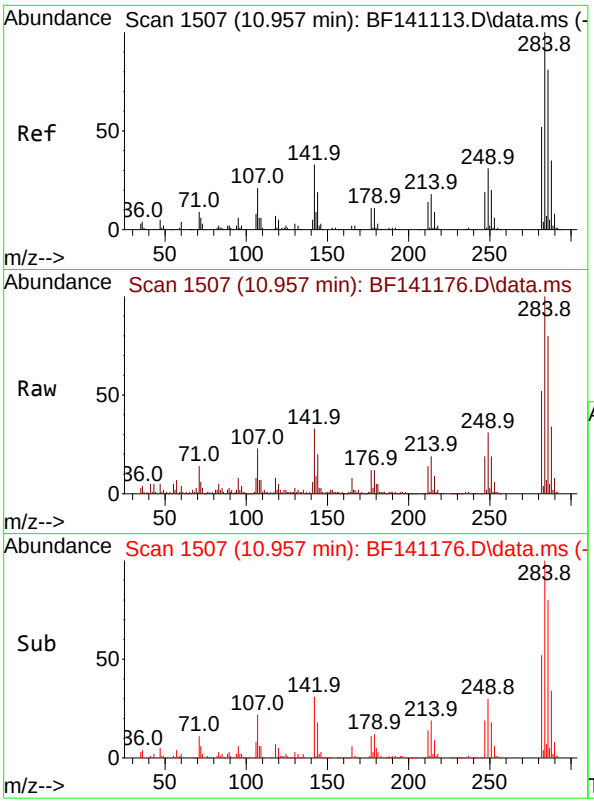


#67
4-Bromophenyl-phenylether
Concen: 35.228 ng
RT: 10.892 min Scan# 1496
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:248 Resp: 173354

Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.9	116.9
141	78.2	59.9	89.9



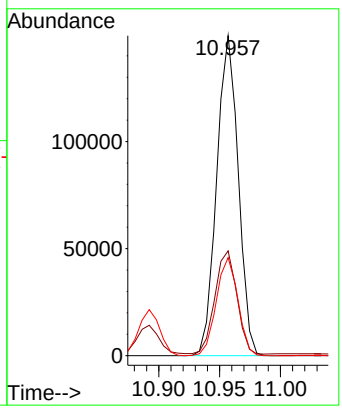


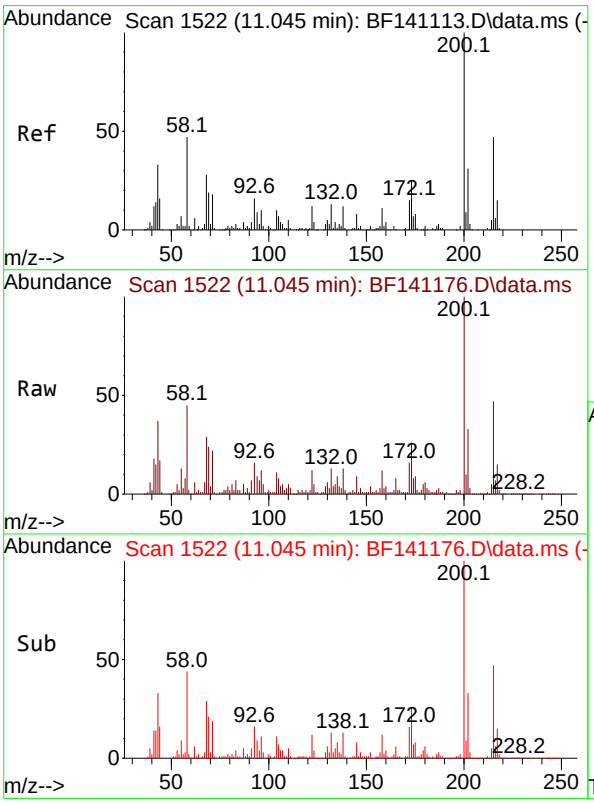
#68
Hexachlorobenzene
Concen: 33.626 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:284 Resp: 184199

Ion	Ratio	Lower	Upper
284	100		
142	32.7	26.3	39.5
249	30.6	24.9	37.3

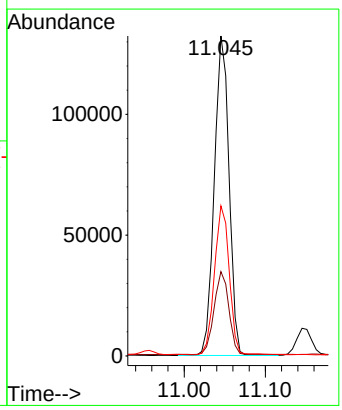


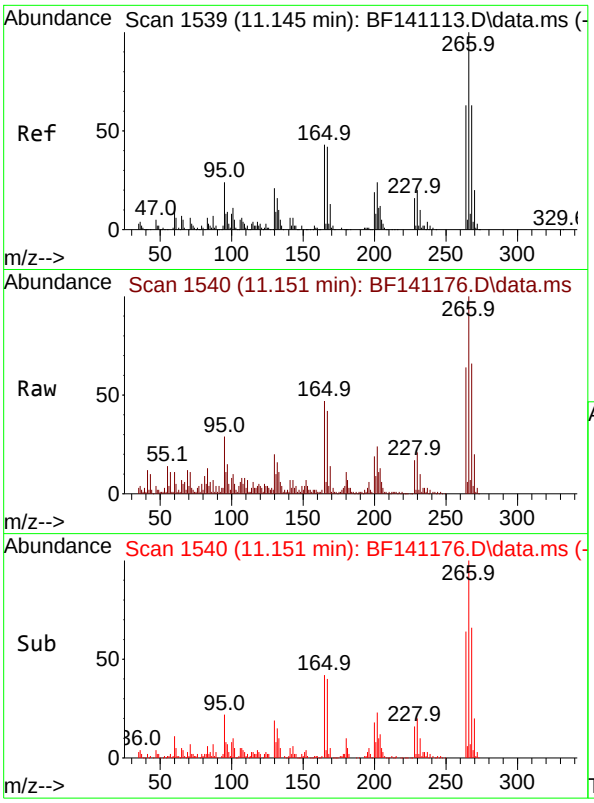


#69
Atrazine
Concen: 44.950 ng
RT: 11.045 min Scan# 1522
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:200 Resp: 166855

Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.4	45.4
215	46.9	26.6	66.6



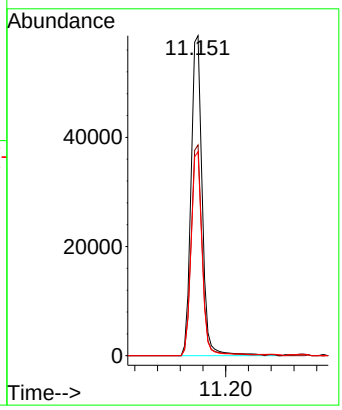


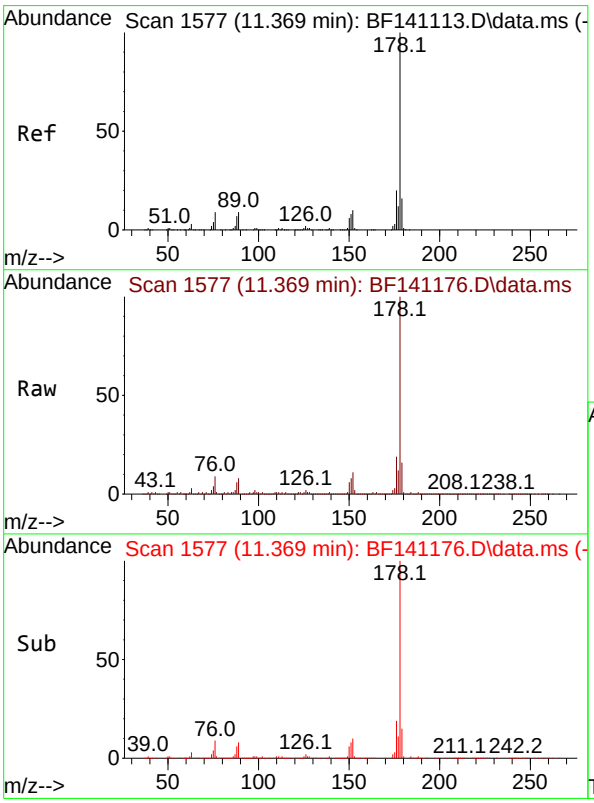
#70
Pentachlorophenol
Concen: 22.862 ng
RT: 11.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:266 Resp: 80199

Ion	Ratio	Lower	Upper
266	100		
268	65.9	50.4	75.6
264	63.7	50.2	75.2

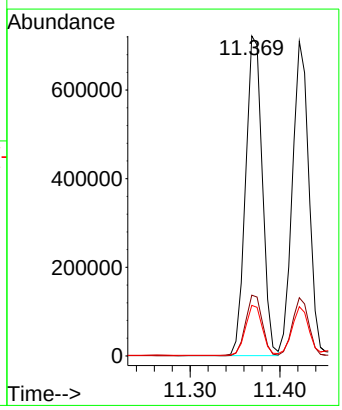


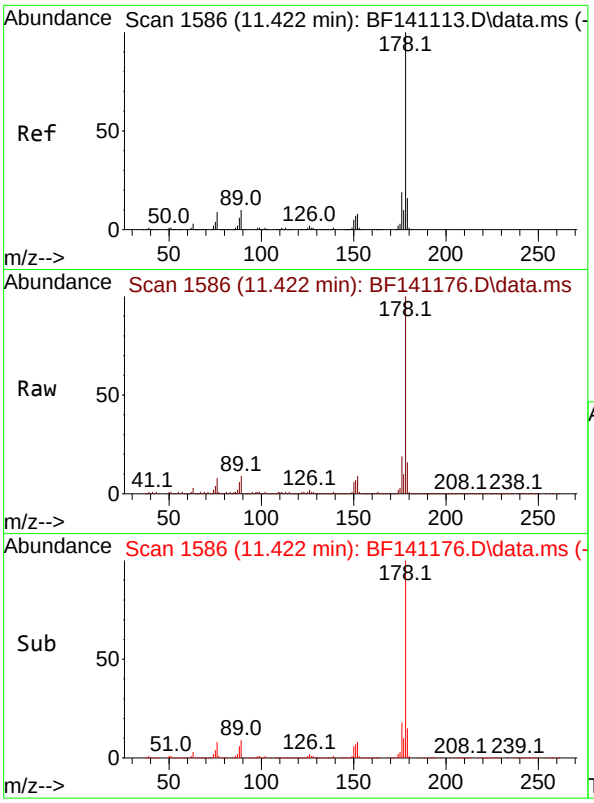


#71
Phenanthrene
Concen: 40.461 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:178 Resp: 928440

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.7	23.5
179	15.8	12.6	19.0



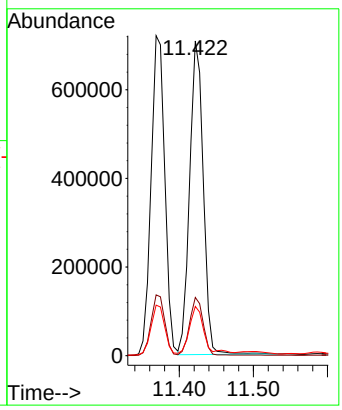


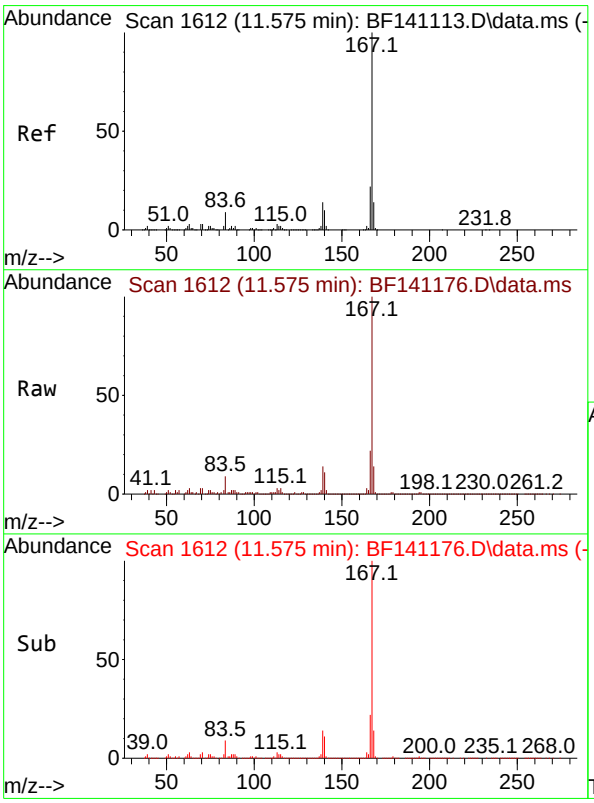
#72
Anthracene
Concen: 40.638 ng
RT: 11.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:178 Resp: 906732

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	15.7	12.6	19.0

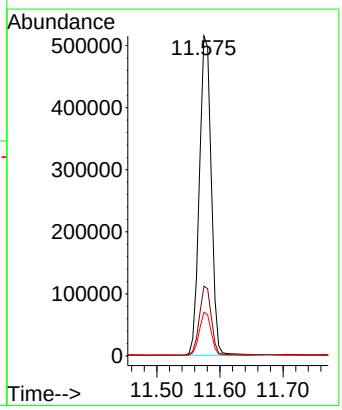


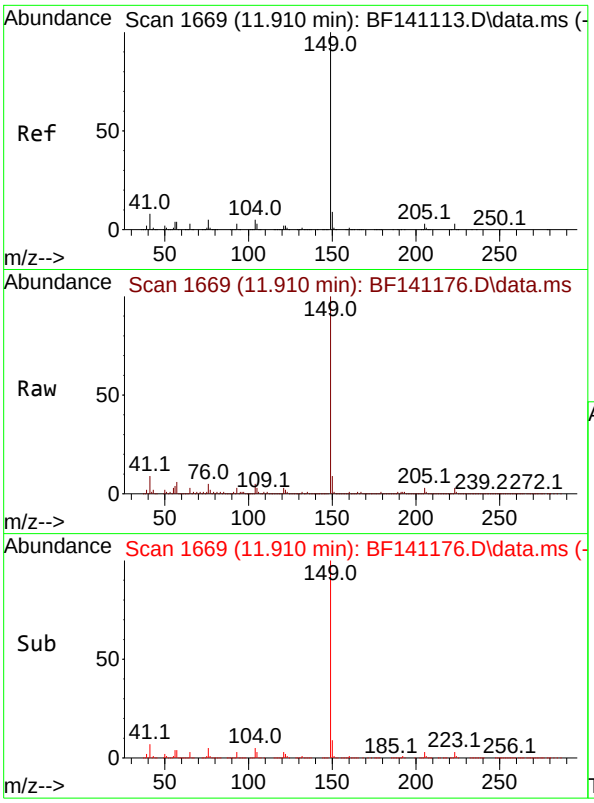


#73
Carbazole
Concen: 32.941 ng
RT: 11.575 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:167 Resp: 673943

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.7	10.9	16.3



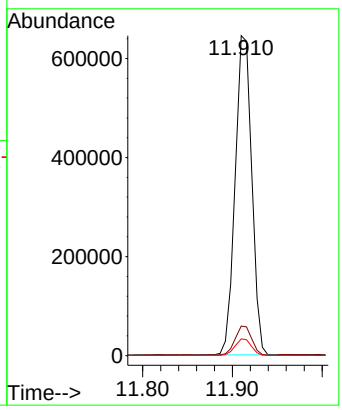


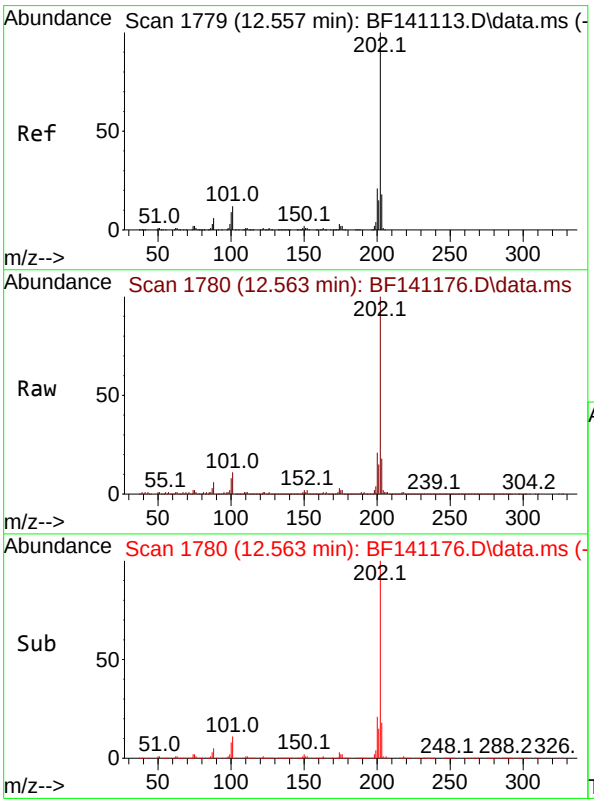
#74
Di-n-butylphthalate
Concen: 35.379 ng
RT: 11.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:149 Resp: 828354

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.3	4.2	6.2

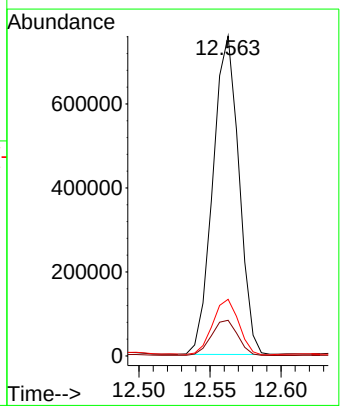


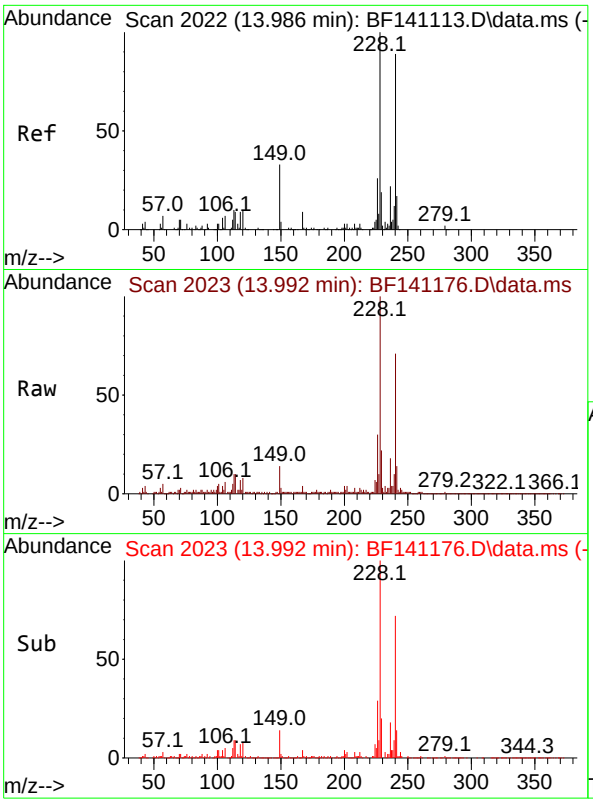


#75
Fluoranthene
Concen: 42.207 ng
RT: 12.563 min Scan# 1780
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:202 Resp: 966493

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.3
203	17.7	0.0	37.7



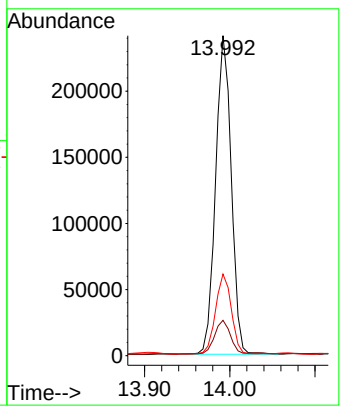


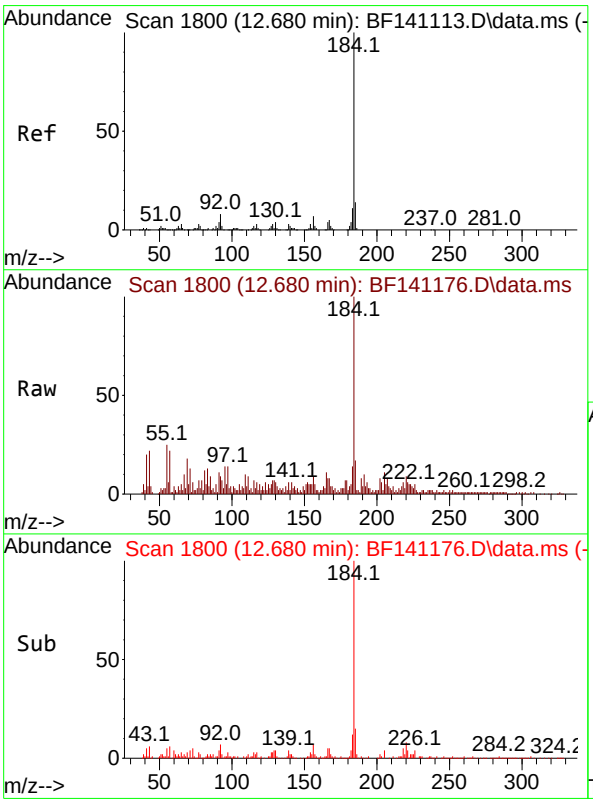
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.992 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:240 Resp: 307236

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.1	13.7
236	25.5	19.8	29.6

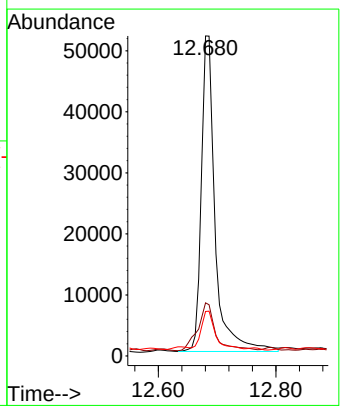


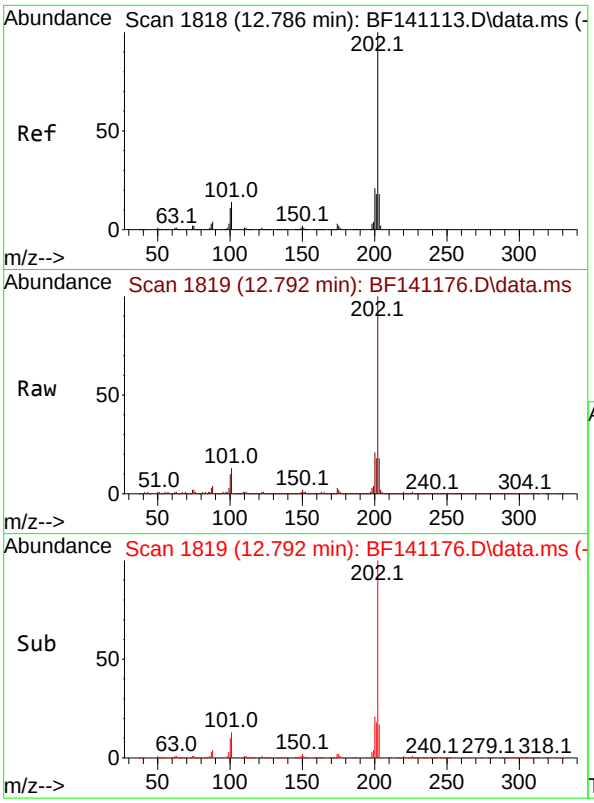


#77
Benzidine
Concen: 14.811 ng
RT: 12.680 min Scan# 1800
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:184 Resp: 84383

Ion	Ratio	Lower	Upper
184	100		
185	16.6	11.4	17.0
183	13.9	9.2	13.8#



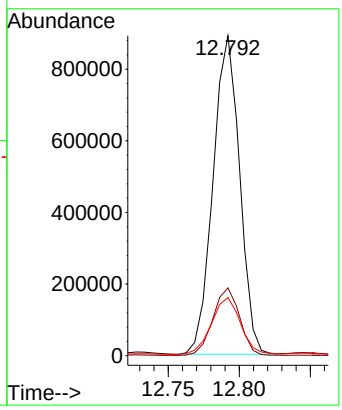


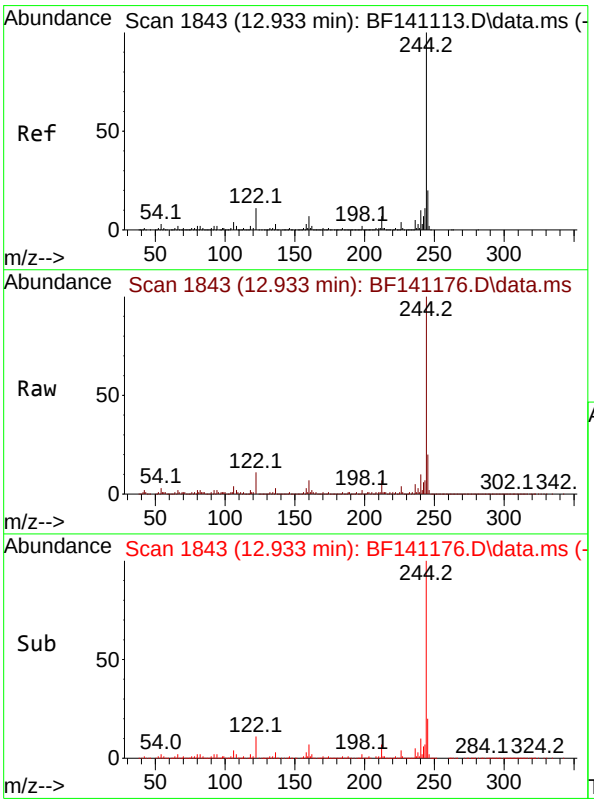
#78
Pyrene
Concen: 39.496 ng
RT: 12.792 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:202 Resp: 1159012

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	18.1	14.3	21.5

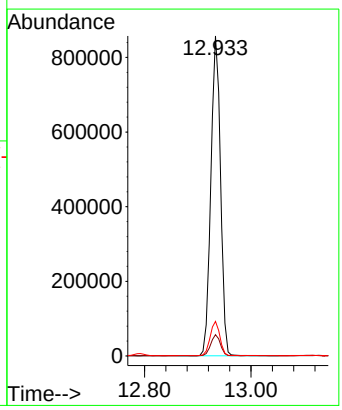


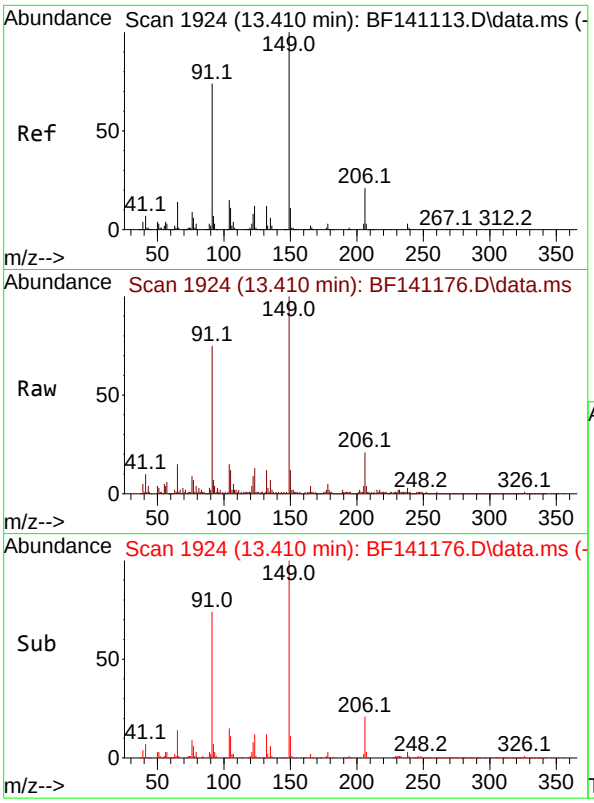


#79
Terphenyl-d14
Concen: 52.280 ng
RT: 12.933 min Scan# 1843
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:244 Resp: 1080678

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.2
122	10.8	8.8	13.2



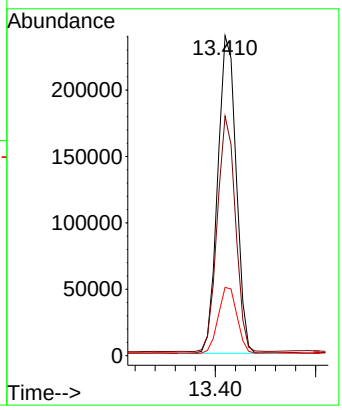


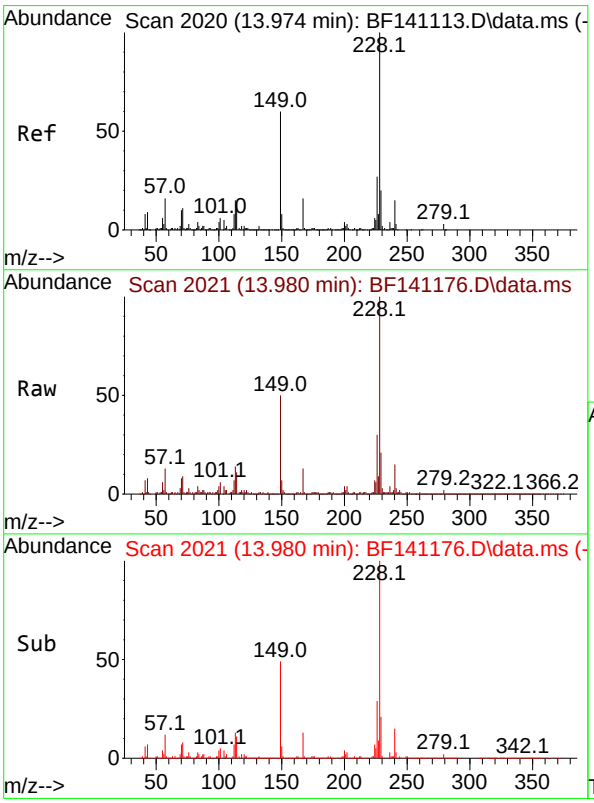
#80
Butylbenzylphthalate
Concen: 31.209 ng
RT: 13.410 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:149 Resp: 305345

Ion	Ratio	Lower	Upper
149	100		
91	74.9	59.0	88.6
206	21.4	16.5	24.7

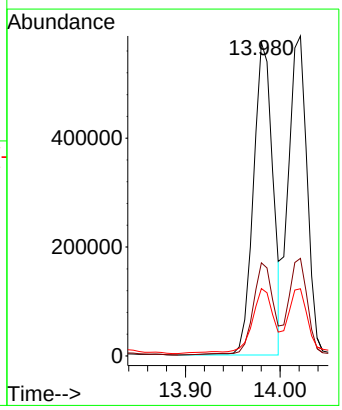


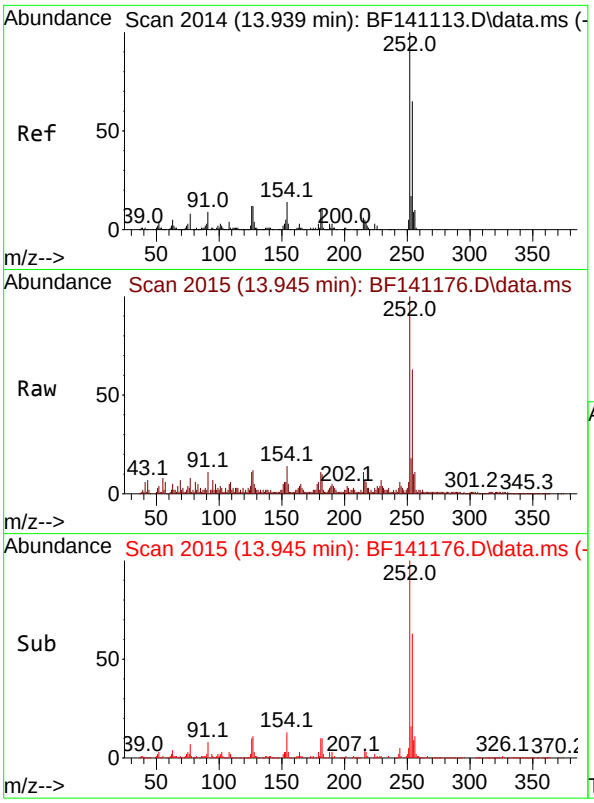


#81
Benzo(a)anthracene
Concen: 39.257 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:228 Resp: 820834

Ion	Ratio	Lower	Upper
228	100		
226	29.8	21.7	32.5
229	21.5	15.7	23.5



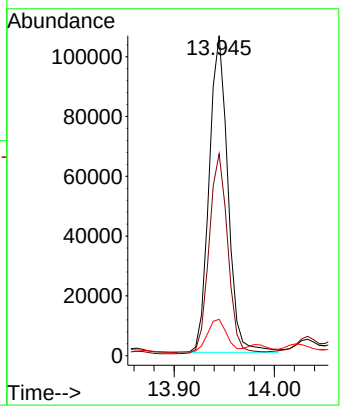


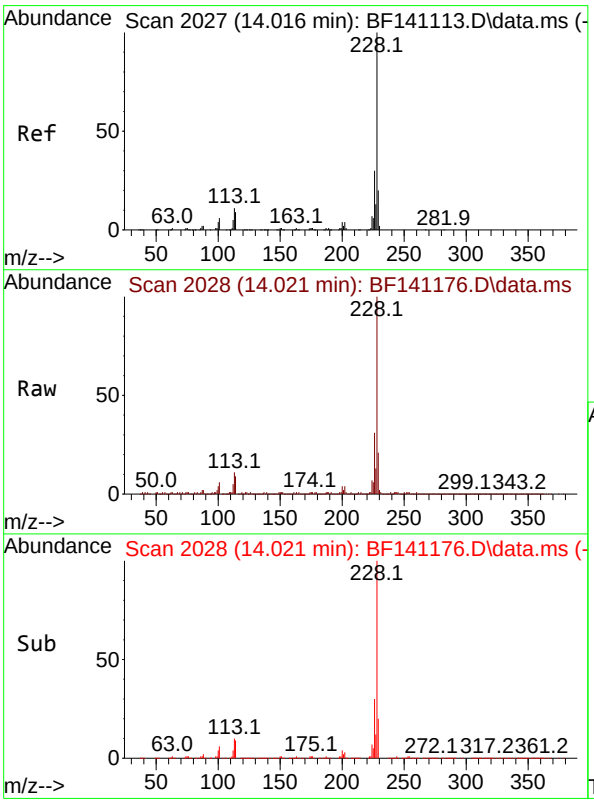
#82
3,3'-Dichlorobenzidine
Concen: 20.639 ng
RT: 13.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:252 Resp: 137413

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.0	78.0
126	11.4	9.4	14.0

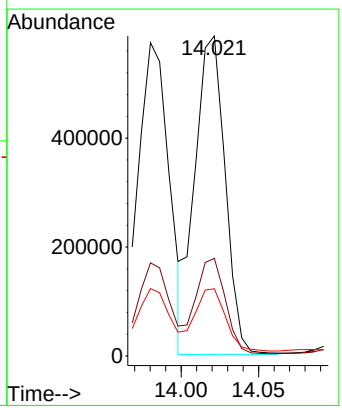


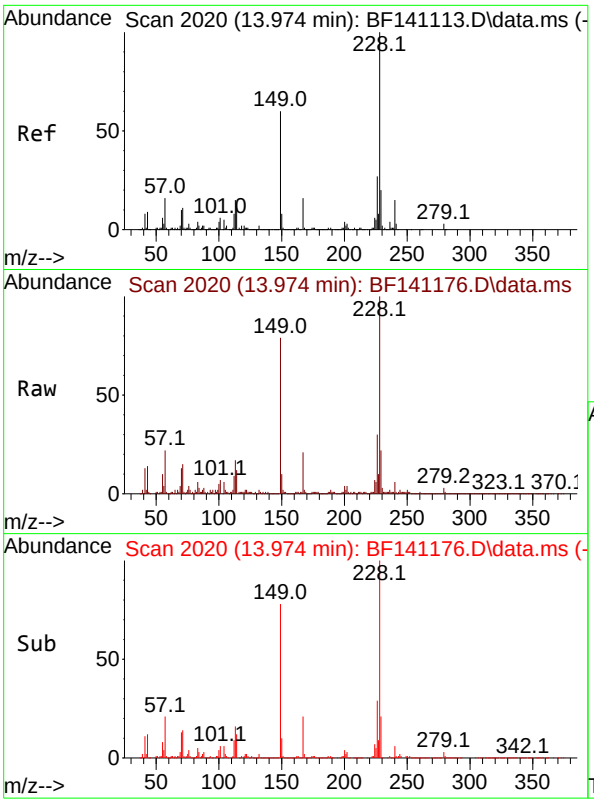


#83
Chrysene
Concen: 40.674 ng
RT: 14.021 min Scan# 2028
Delta R.T. 0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:228 Resp: 795763

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	21.0	15.8	23.8



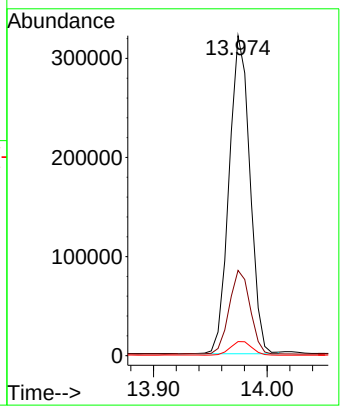


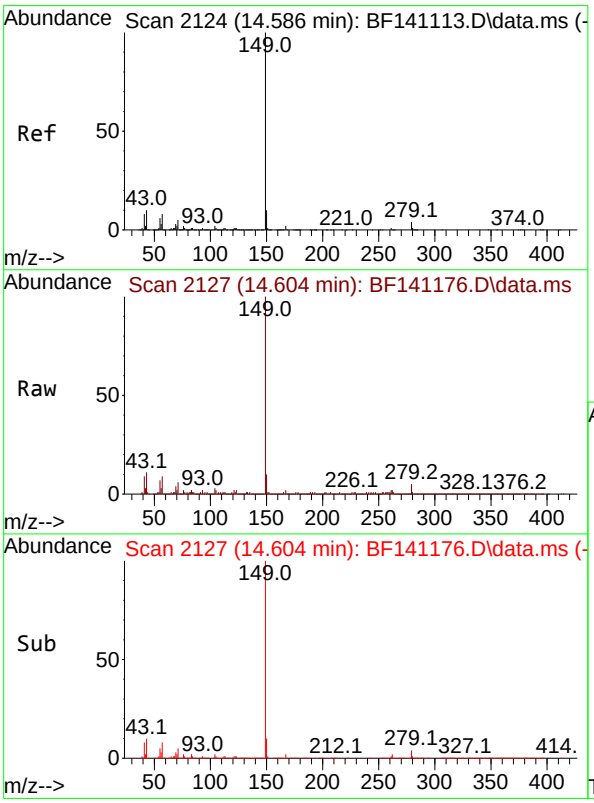
#84
Bis(2-ethylhexyl)phthalate
Concen: 34.743 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:149 Resp: 407859

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.2
279	4.4	3.4	5.2

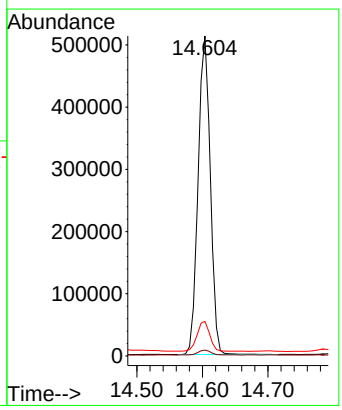


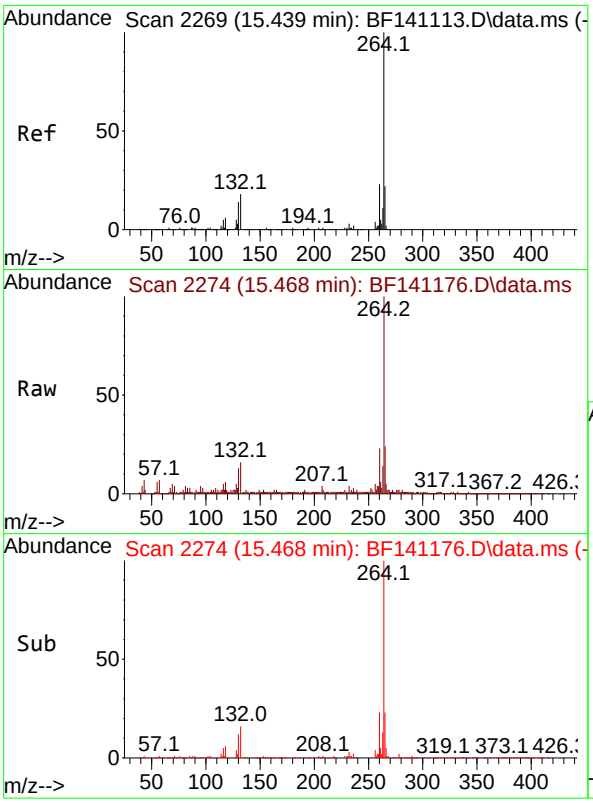


#85
Di-n-octyl phthalate
Concen: 37.454 ng
RT: 14.604 min Scan# 2127
Delta R.T. 0.018 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:149 Resp: 663939

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.8	8.4	12.6



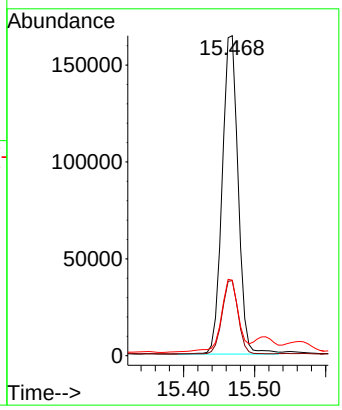


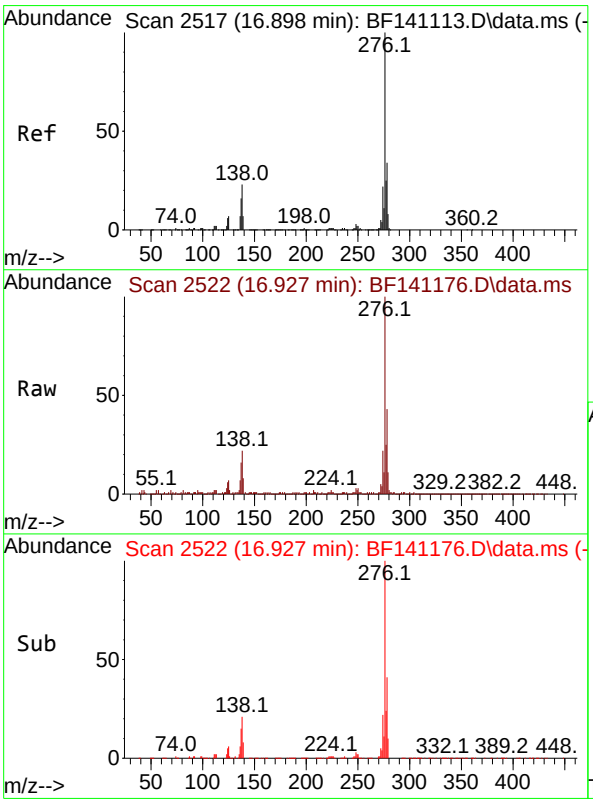
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:264 Resp: 256318

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	23.6	17.4	26.0

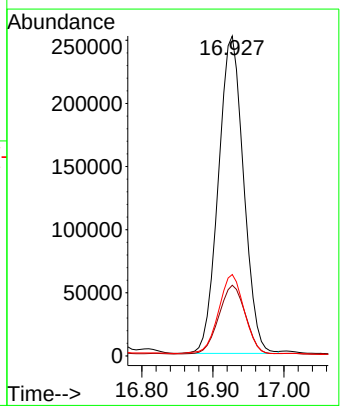


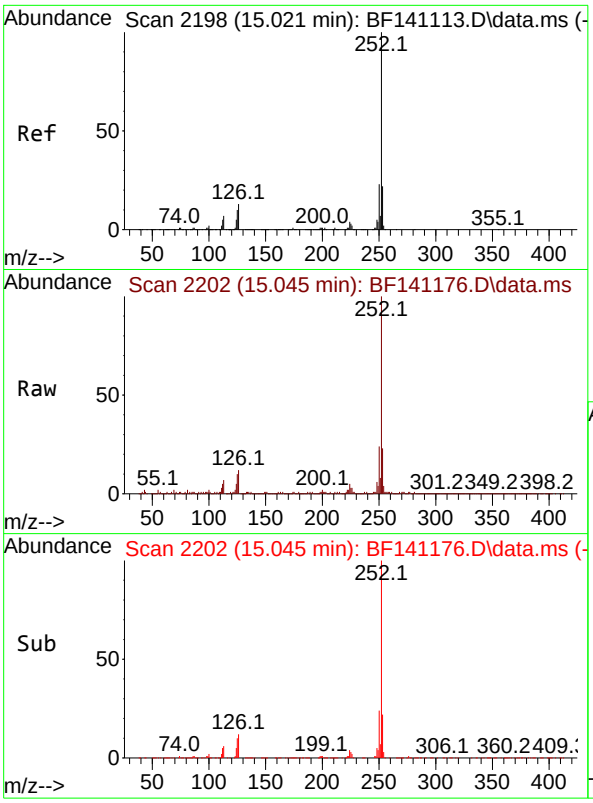


#87
Indeno(1,2,3-cd)pyrene
Concen: 32.986 ng
RT: 16.927 min Scan# 2522
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:276 Resp: 619424

Ion	Ratio	Lower	Upper
276	100		
138	22.9	20.7	31.1
277	25.0	20.6	30.8



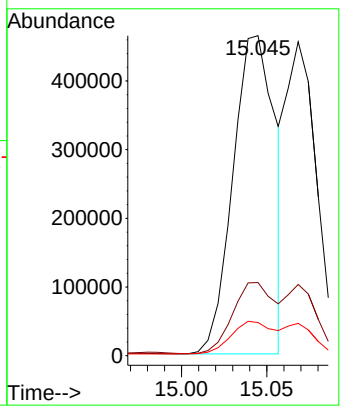


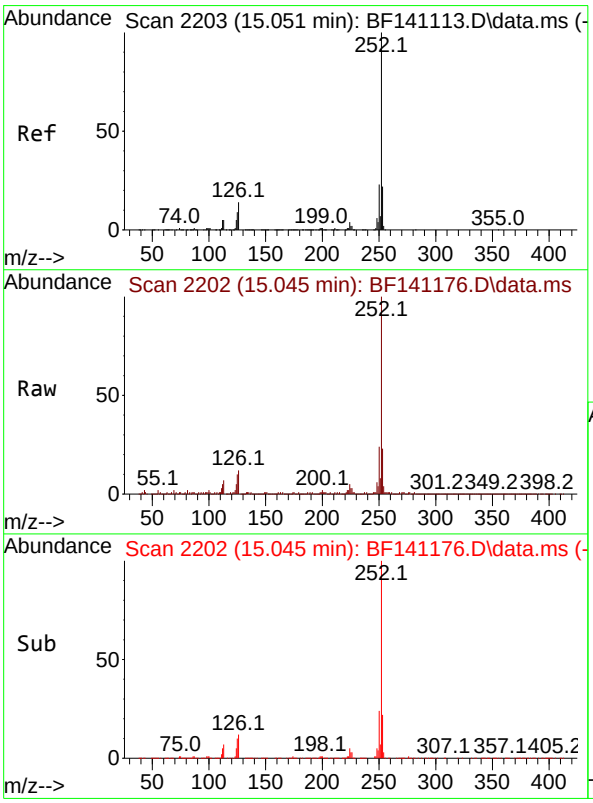
#88
Benzo(b)fluoranthene
Concen: 48.220 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:252 Resp: 796990

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.6
125	10.4	8.1	12.1

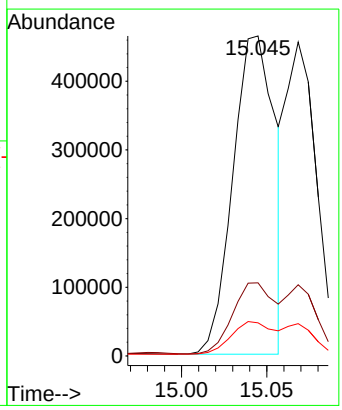


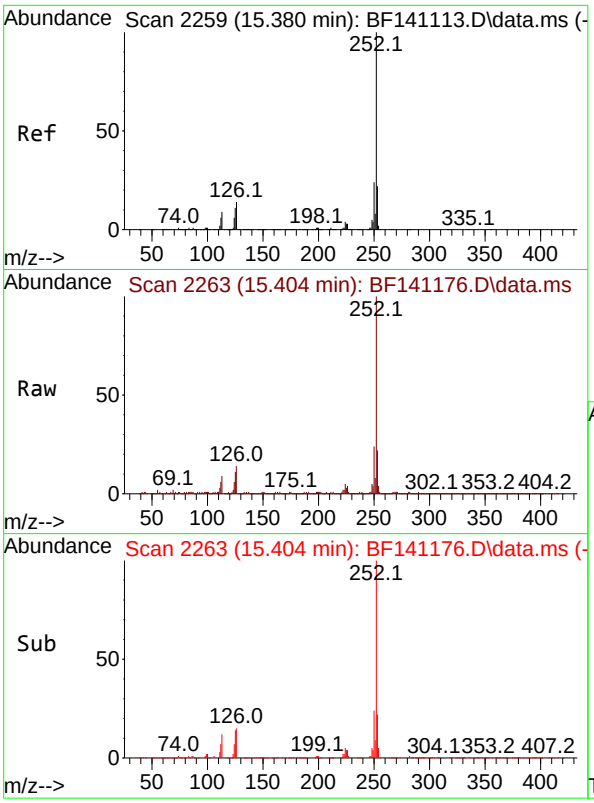


#89
Benzo(k)fluoranthene
Concen: 57.059 ng
RT: 15.045 min Scan# 2202
Delta R.T. -0.006 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:252 Resp: 796990

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	10.4	7.9	11.9



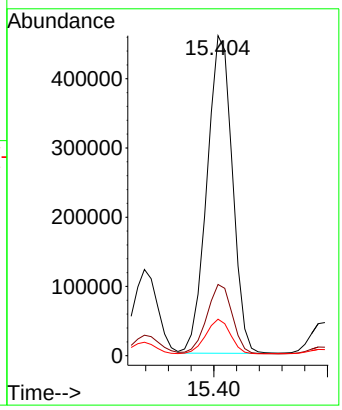


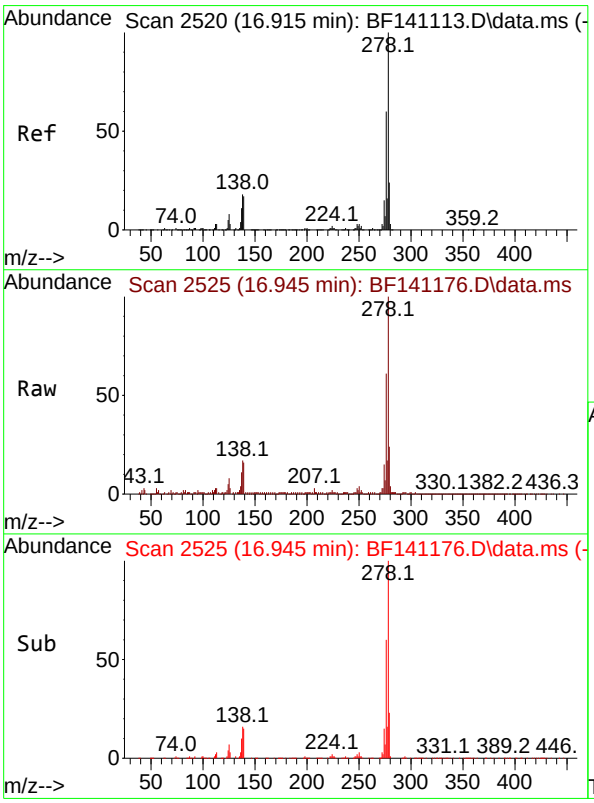
#90
Benzo(a)pyrene
Concen: 52.390 ng
RT: 15.404 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:252 Resp: 714424

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	11.4	9.1	13.7

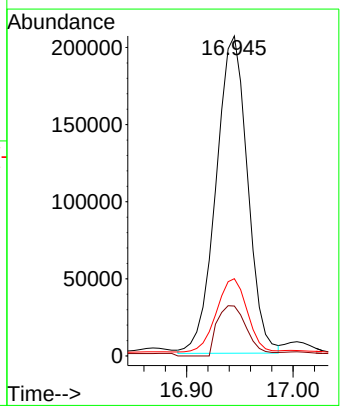


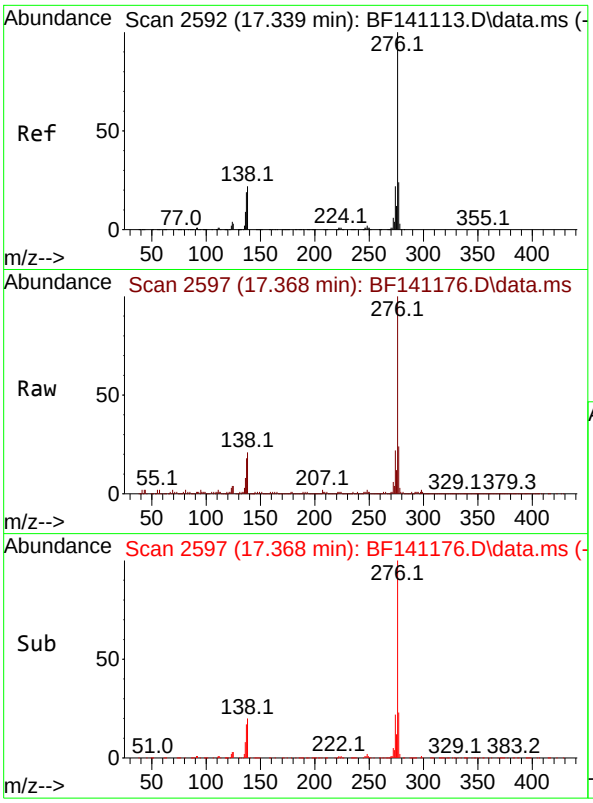


#91
Dibenzo(a,h)anthracene
Concen: 27.827 ng
RT: 16.945 min Scan# 2525
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Tgt Ion:278 Resp: 422648

Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.8	20.6
279	24.2	19.1	28.7





#92
Benzo(g,h,i)perylene
Concen: 34.878 ng
RT: 17.368 min Scan# 2
Delta R.T. 0.029 min
Lab File: BF141176.D
Acq: 15 Jan 2025 16:40

Instrument :
BNA_F
ClientSampleId :
TR-06-1-10-2025MSD

Tgt Ion:276 Resp: 551001

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	20.5	17.4	26.2